STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 3

AMENDED REPORT ☐
(highlight changes)

APPLICATION FOR PERMIT TO DRILL

5. MINERAL LEASE NO.:	6. SURFACE:
UTU-84003	BLM

1A. TYPE OF WORK: DRILL ☒ REENTER ☐ DEEPEN ☐

7. IF INDIAN, ALLOTTEE OR TRIBE NAME: N/A

B. TYPE OF WELL: OIL ☒ GAS ☐ OTHER _____ SINGLE ZONE ☒ MULTIPLE ZONE ☐

8. UNIT or CA AGREEMENT NAME: N/A

2. NAME OF OPERATOR: Pioneer Natural Resources USA, Inc.

9. WELL NAME and NUMBER: South Hills Federal #6-1

3. ADDRESS OF OPERATOR: 1401-17th Street, Suite 1200, Denver, CO 80202

PHONE NUMBER: 303-298-8100

10. FIELD AND POOL, OR WILDCAT: Wildcat

4. LOCATION OF WELL (FOOTAGES) 416330X 39.443549 -111.9 T2329
4366242Y
AT SURFACE: 1552' FSL and 3171' FEL
AT PROPOSED PRODUCING ZONE: Lot 46

11. QTR/QTR, SECTION, TOWNSHIP, RANGE MERIDIAN: Section 6, T16S - R1W

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE: Approximately 20.8 miles northeast of Scipio, UT

12. COUNTY: Juab

13. STATE: UT

15. DISTANCE TO NEAREST PROPERTY OR LEASE LINE (FEET)	16. NUMBER OF ACRES IN LEASE:	17. NUMBER OF ACRES ASSIGNED TO THIS WELL:
1552'	1240.09	40 Acres
18. DISTANCE TO NEAREST WELL (DRILLING, COMPLETED, OR APPLIED FOR) ON THIS LEASE (FEET):	**19. PROPOSED DEPTH:**	**20. BOND DESCRIPTION:**
None	12,000'	Nationwide Bond No. MTB-000041
21. ELEVATIONS (SHOW WHETHER DF, RT, GR, ETC.):	**22. APPROXIMATE DATE WORK WILL START:**	**23. ESTIMATED DURATION:**
5239' GL	Upon Approval	75 Days

24. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	CASING SIZE, GRADE, AND WEIGHT PER FOOT	SETTING DEPTH	CEMENT TYPE, QUANTITY, YIELD, AND SLURRY WEIGHT
17-1/2"	13-3/8", 68.0#, K-55	3,000'	1975 sx 65% G 35% Poz, 12.8 ppg, 1.78 cft/sk + 675 sx G, 15.8 ppg, 1.15 cft/sk
12-1/4"	9-5/8", 40.0#, HCN-80	7,050'	450 sx 65& G 35% Poz, 12.8 ppg, 1.78cft/sk + 400 sx G, 15.8 ppg, 1.15 cft/sk
8-3/4"	7-5/8", 26.4#, N-80	8,640'	225 sx G, 15.8 ppg, 1.15 cft/sk
6-3/4"	5-1/2", 17.0#, HCN-80	12,000'	300 sx G, 15.8 ppg, 1.15 cft/sk

25. ATTACHMENTS **CONFIDENTIAL-TIGHT HOLE**

VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES:

☑ WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER
☑ EVIDENCE OF DIVISION OF WATER RIGHTS APPROVAL FOR USE OF WATER
☑ COMPLETE DRILLING PLAN
☐ FORM 5, IF OPERATOR IS PERSON OR COMPANY OTHER THAN THE LEASE OWNER

AGENT: Permitco Inc., P.O. Box 99, Eastlake, CO 80614 AGENT'S PHONE NO.: 303/857-9999

NAME (PLEASE PRINT) Venessa Langmacher TITLE Agent for Pioneer Natural Resources USA, Inc.

SIGNATURE Venessa Langmacher DATE December 22, 2009

(This space for State use only)

API NUMBER ASSIGNED: 43-023-30021

Approved by the
Utah Division of
Oil, Gas and Mining

Date: 01-29-10
(See instructions on Reverse Side)
By:

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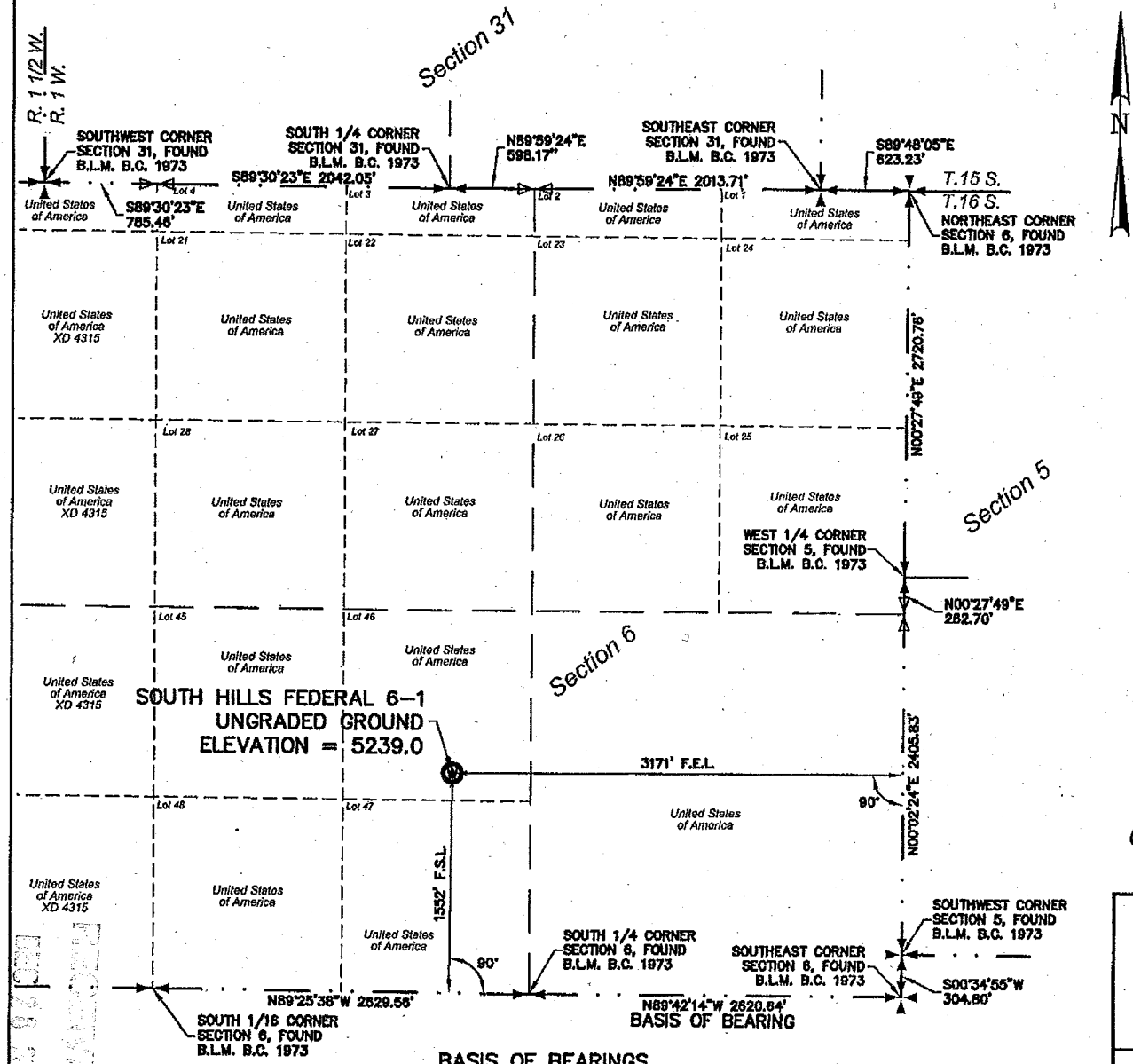
(11/2001)

Federal Approval of this Action is Necessary

Section 6, T.16 S., R.1 W., S.L.B. & M.



BASIS OF BEARINGS

BASIS OF BEARING USED WAS N89°42'14"W BETWEEN THE SOUTHWEST CORNER AND THE SOUTH QUARTER CORNER OF SECTION 6, T.16 S., R.1 W., S.L.B. & M.

WELL COORDINATES:

LATITUDE: 39°26'35.2994" (39.443138722) NAD 83 – UTM NAD27 ZONE 12 NORTH – 14324775.865

LONGITUDE: -111°58'21.3078" (-111.972585500) NAD 83 – UTM NAD27 ZONE 12 NORTH – 1366049.897

PROJECT

Pioneer Natural Resources U.S.A.

WELL LOCATION, LOCATED AS SHOWN IN LOT 46 OF SECTION 6, T.16 S., R.1 W., S.L.B. & M. JUAB COUNTY, UTAH

LEGEND

- = SECTION CORNERS (LOCATED)
- = QUARTER SECTION OR 1/16 CORNERS (LOCATED)
- = QUARTER SECTION CORNERS REESTABLISHED USING 1973 B.L.M. NOTES
- (W) = PROPOSED WELL HEAD

NOTE: THE PURPOSE OF THIS SURVEY WAS TO PLAT THE SOUTH HILLS FEDERAL 6-1 LOCATION, LOCATED IN LOT 46 OF SECTION 6, T.16 S., R.1 W., S.L.B. & M., JUAB COUNTY, UTAH.

BASIS OF ELEVATION

ELEVATION BASED ON N.A.V.D. 88

1200' 600' 0' 1200'

SCALE

CERTIFICATE

THIS IS TO CERTIFY THAT THIS PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION, AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

PROFESSIONAL LAND SURVEYOR ROY GADD No. 340639 STATE OF UTAH

10/29/09

TREVOR R. GADD P.L.S. # 340639

Jones & DeMille Engineering, Inc.

1535 South 100 West, Richfield, Utah 84701, Voice 435.896.8266, Fax 435.896.8268

248 East Main, Price, Utah 84501, Voice 435.637.8266, Fax 435.637.8268

www.jonesanddemille.com

Well Location Plat for

Pioneer Natural Resources, U.S.A.

DESIGNED	SURVEYED	CHECKED	DRAWN	PROJECT NO.	SHEET NO.
D.H.R.	G.B.N.	T.R.G.	T.W.G.	0910-185	1
DATE 10/19/2009		DWG.NAME WELL_LOC	SCALE 1"=1200'		

PERMITCO
PETROLEUM PERMITTING COMPANY

PO Box 99 • Eastlake, CO 80614 • (303) 857-9999 • FAX (303) 450-9200 • E-MAIL Permitco1@aol.com

June 29, 2010

Division of Oil, Gas & Mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, UT 84114-5801

Attn: Diana Mason

Re: Pioneer Natural Resources USA, Inc.
South Hills Federal #6-1
1552' FSL and 3171' FEL
Lot 46 Sec. 6, T16S - R1W
Juab County, Utah

Dear Diana,

Please note that this location was staked at non-standard spacing in accordance with the rules and regulations of the Utah Division of Oil Gas and Mining. This was done for geologic considerations. Please also note that there are no other working interest owners within a 460' radius. Therefore, we request your administrative approval of this exception to spacing.

If you should need additional information, please don't hesitate to contact me.

Sincerely,

PERMITCO INC.

Venessa Langmacher

Venessa Langmacher
Regulatory Supervisor
Agent for Pioneer Natural Resources USA, Inc.

cc: Pioneer Natural Resources USA, Inc. - Denver, CO

CONFIDENTIAL - TIGHT HOLE

ONSHORE OIL & GAS ORDER NO. 1

Approval of Operations on Onshore
Federal and Indian Oil & Gas Leases

South Hills Federal #6-1
1552' FSL and 3171' FEL
Lot 46 Section 6, T16S-R1W
Juab County, Utah

Prepared For:

Pioneer Natural Resources USA, Inc.

By:

PERMITCO INC.
P.O. Box 99
Eastlake, CO 80614
303/857-9999

CONFIDENTIAL-TIGHT HOLE

Copies Sent To:

3 - Bureau of Land Mangement - Fillmore, UT
1 - Utah Division of Oil, Gas & Mining - SLC, UT
2 - Pioneer Natural Resources USA, Inc. - Denver, CO

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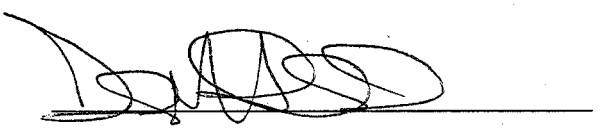
PETROLEUM PERMITTING PERMITCO COMPANY

Pioneer Natural Resources USA, Inc.
South Hills Federal #6-1
1552'FSL and 3171' FEL
Section 6, Twp16S Range1W
Juab County, Utah

CERTIFICATION

I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge, of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements. Executed this 21 day of December, 200~~8~~9.



Environmental and Regulatory Manager
Title

1401 17th Street, Suite 1200, Denver CO 80202
Address

303.298.8100
Telephone

dave.holland@pxd.com
E-mail

ONSHORE OIL & GAS ORDER NO. 1
Approval of Operations on Onshore
Federal and Indian Oil and Gas Leases

All lease and/or unit operations will be conducted in such a manner that full compliance is made with applicable laws, regulations (43 CFR 3100), Onshore Oil and Gas Order No. 1, and the approved plan of operations. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished the field representative to insure compliance.

A. FORMATION TOPS

The estimated tops of important geologic markers, groups, formations, members or zones are as follows:

Formation Name	*Depth*	*Subsea*
Tertiary Undivided	200'	+5,040'
North Horn	2,920'	+2,320'
Arapien	3,070'	+2,170'
Arapien	7,640'	-2,400'
Twin Creek	8,540'	-3,210'
Navajo	9,040'	-3,800'
Chinle	10,240'	-5,000'
TD	12,000'	-6,760'

B. ESTIMATED DEPTHS & THICKNESS OF OIL, GAS, WATER AND OTHER MINERAL BEARING ZONES

The estimated depths at which the top and bottom of the anticipated water, oil, gas or other mineral bearing formations are expected to be encountered are as follows:

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Substance	*Formation*	*Depth*	*Thickness*
Oil	Navajo	9,040	1,200'

All fresh water and prospectively valuable minerals encountered during drilling, will be recorded by depth and adequately protected. All oil and gas shows will be evaluated to determine commercial potential.

All water shows and water-bearing sands will be reported to the BLM in Salt Lake City, Utah. Copies of State of Utah form OGC-8-X are acceptable. If noticeable water flows are detected, samples will be submitted to the BLM along with any water analyses conducted.

C. BOP EQUIPMENT/REQUIREMENTS

Pioneer Natural Resources USA, Inc. proposes to utilize the following BOP equipment:

Ram Type: 13-5/8" Hydraulic double, 10,000# psi w.p. and manifold drawing. Pressure tests will be in accordance with a 5000 psi system.

Ram type preventers and associated equipment shall be tested to approved stack working pressure if isolated by test plug or to 70 percent of internal yield pressure of casing. Pressure shall be maintained for at least 10 minutes or until requirements of test are met, whichever is longer. If a test plug is utilized, no bleed-off pressure is acceptable. For a test not utilizing a test plug, if a decline in pressure of more than 10 percent in 30 minutes occurs, the test shall be considered to have failed. Valve on casing head below test plug shall be open during test of BOP stack.

Annular type preventers (if used) shall be tested to 50 percent of rated working pressure. Pressure shall be maintained at least 10 minutes or until provisions of test are met, whichever is longer.

As a minimum, the above test shall be performed:

1. when initially installed;
2. whenever any seal subject to test pressure is broken
3. following related repairs; and
4. at 30-day intervals

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Valves shall be tested from working pressure side during BOPE tests with all down stream valves open.

When testing the kill line valve(s) the check valve shall be held open or the ball removed.

Annular preventers (if used) shall be functionally operated at least weekly.

Pipe and blind rams shall be activated each trip, however, this function need not be performed more than once a day.

A BOPE pit level drill shall be conducted weekly for each drilling crew.

The BOP and related equipment shall meet the minimum requirements of Onshore Oil and Gas Order No. 2 for equipment and testing requirements, procedures, etc., and individual components shall be operable as designed. Chart recorders shall be used for all pressure tests.

Pressure tests shall apply to all related well control equipment.

All of the above described tests and/or drills shall be recorded in the drilling log. Test charts, with individual test results identified, shall be maintained on location while drilling and shall be made available to a BLM representative upon request.

Pressure tests shall apply to all related well control equipment.

BOP systems shall be consistent with API RP53. Pressure tests will be conducted before drilling out from under casing strings which have been set and cemented in place. Blowout preventer controls will be installed prior to drilling the surface casing plug and will remain in use until the well is completed or abandoned. Preventers will be inspected and operated at least daily to ensure good mechanical working order, and this inspection will be recorded on the daily drilling report. Preventers will be pressure tested before drilling casing cement plugs.

The Salt Lake Field Office shall be notified, at least 24 hours prior to initiating the pressure test, in order to have a BLM representative on location during pressure testing.

1. A choke line and a kill line are to be properly installed. The kill line is not to be used as a fill-up line.

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2. The accumulator system shall have a pressure capacity to provide for repeated operation of hydraulic preventers.

3. Drill string safety valve(s), to fit all tools in the drill string, are to be maintained on the rig floor while drilling operations are in progress.

D. PROPOSED CASING PROGRAM

1. The Salt Lake Field Office shall be notified at least 24 hours prior to the running and cementing of all casing strings, in order to have a BLM representative on location while running and cementing all casing strings.

2. The proposed casing and cementing program shall be conducted as approved to protect and/or isolate all usable water zones, potentially productive zones, lost circulation zones, abnormally pressured zones, and any prospectively valuable deposits of minerals. Any isolating medium other than cement shall receive approval prior to use. The casing setting depth shall be calculated to position the casing seat opposite a competent formation which will contain the maximum pressure to which it will be exposed during normal drilling operations. Determination of casing setting depth shall be based on all relevant factors, including; presence/absence of hydrocarbons; fracture gradients; usable water zones; formation pressures; lost circulation zones; other minerals; or other unusual characteristics. All indications of usable water shall be reported.

3. Casing design shall assume formation pressure gradients of 0.44 to 0.50 psi per foot for exploratory wells (lacking better data).

4. Casing design shall assume fracture gradients from 0.70 to 1.00 psi per foot for exploratory wells (lacking better data)

5. Casing collars shall have a minimum clearance of 0.422 inches of all sides in the hole/casing annulus, with recognition that variances can be granted for justified exceptions.

6. All waiting on cement times shall be adequate to achieve a minimum of 500 psi compressive strength at the casing shoe prior to drilling out.

7. All casing except the conductor casing, shall be new or reconditioned and tested used casing that meets or exceeds API standards for new casing.

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8. The surface casing shall be cemented back to surface either during the primary cement job or by remedial cementing.

9. All indications of usable water shall be reported to the authorized officer prior to running the next string of casing or before plugging orders are requested, whichever occurs first.

10. Three centralizers will be run on the bottom three joints of surface casing with a minimum of one centralizer per joint starting with the shoe joint.

11. Top plugs shall be used to reduce contamination of cement by displacement fluid. A bottom plug or other acceptable technique, such as a suitable preflush fluid, inner string cement method, etc. shall be utilized to help isolate the cement from contamination by the mud fluid being displaced ahead of the cement slurry.

12. All casing strings below the conductor shall be pressure tested to 0.22 psi per foot of casing string length or 1500 psi, whichever is greater, but not to exceed 70 percent of the minimum internal yield. If pressure declines more than 10 percent in 30 minutes, corrective action shall be taken.

13. On all exploratory wells, and on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.

14. The proposed casing program will be as follows:

Purpose	*Depth*	*Hole Size*	*O.D.*	*Weight*	*Grade*	*Type*	*New/Used*
Surface	0-3,000'	17-1/2"	13-3/8"	68#	K-55	BT&C	New
Intermediate	0-7,050'	12-1/4"	9-5/8"	40#	HCN-80	BT&C	New
Intermediate	6,840'-8,640'	8-3/4"	7-5/8"	26.4#	N-80	ST&L	New
Production	0-12,000'	6-3/4"	5-1/2"	17#	HCN-80	LT&C/ ST&L	New

15. Casing design subject to revision based on geologic conditions encountered.

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E. ESTIMATED TYPES OF CEMENT

Surface 13-3/8"	***Type and Amount***
TOC @ Surface	**Lead:** 1975 sx 65% G, 35% Poz, 6% Gel @ 12.8 ppg, 1.78 cuft/sx w/ 2% CaCl2, 1/4 pps# Celloflake. **Tail:** 675 sx 15.8 ppg G, 1.15 cuft/sx, w/ 2% CaCl2, 1/4 pps Cello-flake. (100% excess)
9-5/8" Intermediate	***Type and Amount***
TOC @ 4,000' TOC @ 6,000'	**Lead:** 450 sx 65% G 35% Poz 6% Gel @ 12.8 ppg, 1.78 cuft/sx, 0.1% retarder (25% excess). **Tail:** 400 sx 15.8 ppg G, 1.15 cuft/sx, 0.1% dispersant, 0.2% fluid loss control (25% excess).
7-5/8" Intermediate	***Type and Amount***
TOC @ 6,840'	225 sx 15.8 ppg G, 1.15 cuft/sx, 0.1% dispersant, 0.2% retarder, 0.2% fluid loss control (25% excess)
Production	***Type and Amount***
TOC @ 8,900'	**Tail:** 300 sx 15.8 ppg G, 1.15 cuft/sx w/ 0.1% dispersant, 0.3% retarder, 0.2% fluid loss control (25% excess)

1. The Salt Lake Field Office should be notified, with sufficient lead time, in order to have a BLM representative on location while running all casing strings and cementing.

2. After cementing but before commencing any test, the casing string shall stand cemented until the cement has reached a compressive strength of at least 500 psi at the shoe. WOC time shall be recorded in the driller's log.

3. The following reports shall be filed with the District Manager within 30 days after the work is completed.

   a. Progress reports, Form 3160-5 (formerly 9-331) "Sundry Notices and Reports on Wells", must include complete information concerning:

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1. Setting of each string of casing, showing the size, grade, weight of casing set, hole size, setting depth, amounts and type of cement used, whether cement circulated or the top of the cement behind the casing, depth of cementing tools used, casing test method and results, and the date work was done. Show the spud date on the first reports submitted.

4. Auxiliary equipment to be used is as follows:

   a. Kelly cock
   b. No bit float is deemed necessary.
   c. A sub with a full opening valve.

F. PROPOSED CIRCULATING MEDIUMS

1. The proposed circulating mediums to be employed in drilling are as follows:

Interval	*Mud Type*	*Mud Wt.*	*Visc.*	*F/L*	*pH*
0 - 3,000'	Fresh Water Native	8.6-9.0	32-50	NC	9.0
3,000' - 7,050'	Polymer	8.6-10.0	34-55	30-10cc	10.0
7,050' - 8,640'	Polymer	8.6-10.0	34-55	10cc	10.0
8,640' - 12,000'	Polymer	8.6-10.0	32-45	10cc	10.0

There will be sufficient mud on location to ensure proper well control.

A mud test shall be performed every 24 hours after mudding up to determine, as applicable: density, viscosity, gel strength, static filtration loss, and Ph.

2. Mud monitoring equipment to be used is as follows:

   a. Periodic checks will be made each tour of the mud system. The mud level will be checked visually.

3. Hazardous substances specifically listed by the EPA as a hazardous waste or demonstrating a characteristic of a hazardous waste will not be used in drilling, testing or completion operations.

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G. TESTING, LOGGING AND CORING

The anticipated type and amount of testing, logging and coring are as follows:

1. No drill stem tests are anticipated. However, if DST's are run, the following requirements will be adhered to:

   Initial opening of drill stem test tools shall be restricted to daylight hours unless specific approval to start during other hours is obtained from the authorized officer. However, DST's may be allowed to continue at night if the test was initiated during daylight hours and the rate of flow is stabilized and if adequate lighting is available (i.e. lighting which is adequate for visibility and vapor-proof for safe operations). Packers can be released, but tripping shall not begin before daylight, unless prior approval is obtained from the authorized officer. Closed chamber DSTs may be accomplished day or night.

   A DST that flows to the surface with evidence of hydrocarbons shall be either reversed out of the testing string under controlled surface conditions or displaced into the formation prior to pulling the test tool. This would involve providing some means for reverse circulation.

   Separation equipment required for the anticipated recovery shall be properly installed before a test starts.

   All engines within 100 feet of the wellbore that are required to "run" during the test shall have spark arresters or water cooled exhausts.

2. The logging program will consist of the following:

Logs	*Depth*
GR, SP, Resistivity, Neutron-Density, Dipole Sonic	7,050'
GR, SP, Resistivity, Neutron-Density, Dipole Sonic	8,640'
GR, SP, Resistivity, Neutron-Density, Dipole Sonic, Borehole Image, ECS (Elemental Capture Spectroscopy), CMR (Nuclear Magnetic Resonance), VSP, MDT, Rotary Sidewall Cores.	12,000'

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3. Rotary sidewall cores may be acquired between 8,640' - 12,000'.

4. Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (Form 3160-4) will be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3164. Two copies of all logs, core descriptions, core analyses, well-test data, geologic summaries, sample description, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with form 3160-4. Samples (cuttings, fluids, and/or gases) will be submitted when requested by the authorized officer (AO).

5. The anticipated completion program is as follows:

   Perforate the Navajo Sandstone and run 2-3/8" tubing. An electrical submersible pump (ESP) may be required.

H. ANTICIPATED PRESSURES AND H_2S GAS

1. The expected bottom hole pressure is 5620 psi. The expected bottom hole temperature is 225 º F. No abnormal pressures are expected.

2. No hydrogen sulfide gas is anticipated.

I. OTHER INFORMATION AND NOTIFICATION REQUIREMENTS

1. Production data shall be reported to the MMS pursuant to 30 CFR 216.5 using form MMS/3160.

2. The date on which production is commenced or resumed will be construed for oil wells as the date on which liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated or, the date on which liquid hydrocarbons are first produced into a permanent storage facility, whichever first occurs; and, for gas wells as the date on which associated liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated or the date on which gas is first measured through permanent metering facilities, whichever first occurs.

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3. Pursuant to NTL-4A, lessees or operators are authorized to vent/flare gas during initial well evaluation tests, not exceeding a period of 30 days or the production of 50 MMCF of gas, whichever occurs first. An application must be filed with the District Engineer and approval received, for any venting/flaring of gas beyond the initial 30 day or authorized test period.

4. Gas produced from this well may not be vented or flared beyond an initial authorized test period of 30 days or 50 MMCF following its completion, whichever occurs first, without the prior written approval of the Authorized Officer. Should gas be vented or flared without approval beyond the authorized test period, the operator may be directed to shut-in the well until the gas can be captured or the operator shall be required to compensate the lessor for that portion of the gas vented or flared without approval which is determined to have been avoidably lost.

5. A schematic facilities diagram as required by 43 CFR 3162.7-2, 3162.7-3 and 3162.7-4 shall be submitted to the appropriate District Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in 43 CFR 3162.7 and Onshore Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with 43 CFR 3162.7-4.

6. Section 102(b)(3) of the Federal Oil and Gas Royalty Management Act of 1982, as implemented by the applicable provisions of the operating regulations at Title 43 CFR 3162.4-1(c), requires that "not later than the 5th business day after any well begins production on which royalty is due anywhere on a lease site or allocated to a lease site, or resumes production in the case of a well which has been off production for more than 90 days, the operator shall notify the authorized officer by letter or sundry notice, Form 3160-5, or orally to be followed by a letter or sundry notice, of the date on which such production has begun or resumed."

   If you fail to comply with this requirement in the manner and time allowed, you shall be liable for a civil penalty of up to $10,000 per violation for each day such violation continues, not to exceed a maximum of 20 days. See Section 109(c)(3) of the Federal Oil and Gas Royalty Management Act of 1982 and the implementing regulations at Title 43 CFR 3162.4-1(b)(5)(ii).

7. Drilling will commence on upon approval of this application.

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8. It is anticipated that the drilling of this well will take approximately 75 days.

9. No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in a suspended status without prior approval of the AO. If operations are to be suspended, prior approval of the AO will be obtained and notification given before resumption of operations.

10. Immediate Report: Spills, blowouts, fires, leaks, accidents, or any other unusual occurrences shall be promptly reported in accordance with the requirements of NTL-3A or its revision.

11. If a replacement rig is contemplated for completion operations, a "Sundry Notice" Form 3160-5 to that effect will be filed, for prior approval of the AO, and all conditions of this approved plan are applicable during all operations conducted with the replacement rig.

12. Pursuant to Onshore Order No. 7, with the approval of the District Engineer, produced water may be temporarily disposed of into unlined pits for a period of up to 90 days. During the period so authorized, an application for approval of the permanent disposal method, along with the required water analysis and other information, must be submitted to the District Engineer.

13. No well abandonment operations will be commenced without the prior approval of the AO. In the case of newly drilled dry holes or failures, and in emergency situations, oral approval will be obtained from the SO. A "Subsequent Report of Abandonment" Form 3160-5, will be filed with the AO within 30 days following completion of the well for abandonment. This report will indicate where plugs were placed and the current status of surface restoration. Final abandonment will not be approved until the surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the AO or his representative. or the appropriate Surface Managing Agency.

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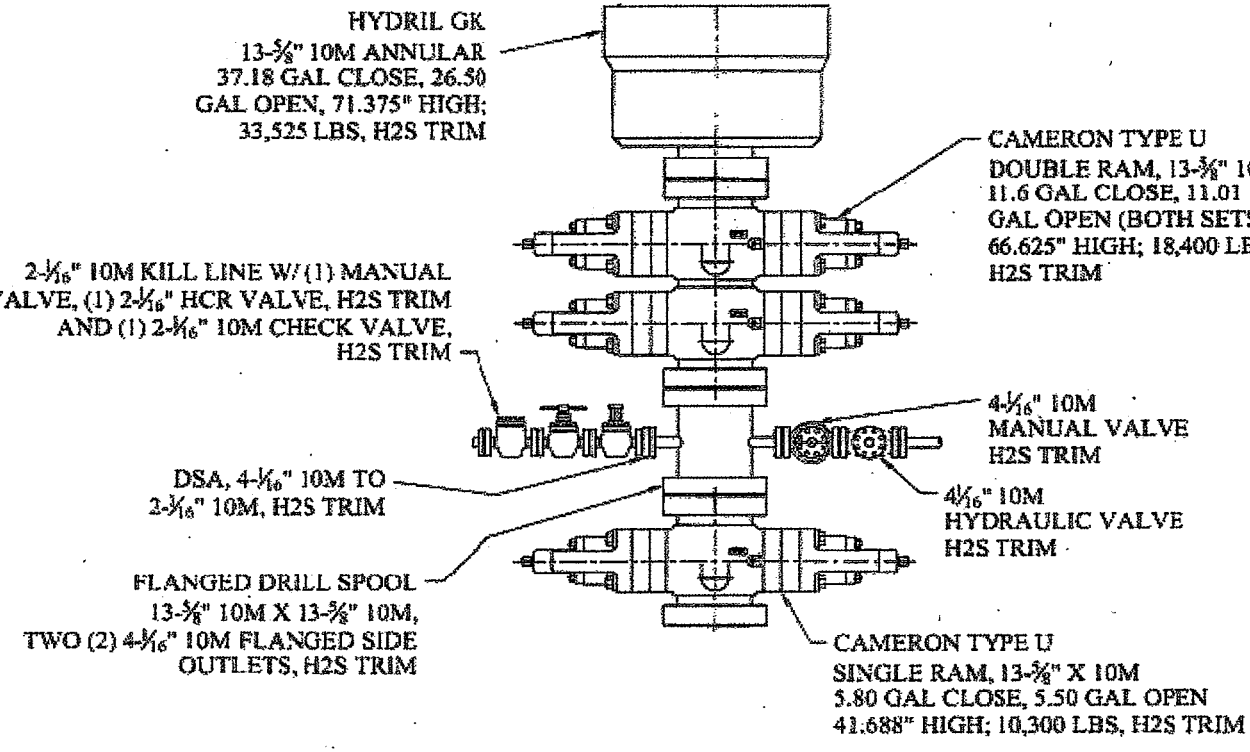
13-5/8" 10M BOP



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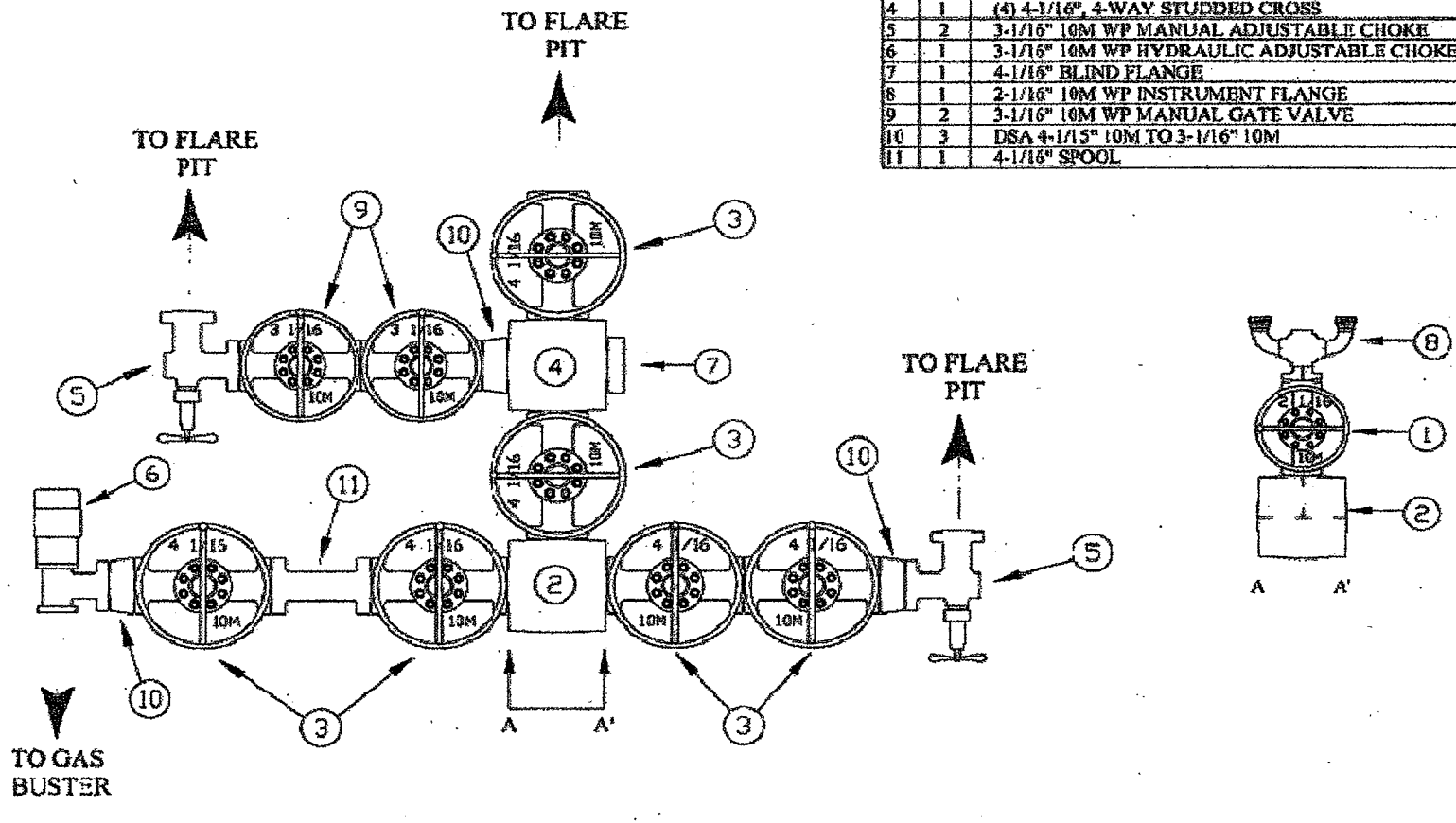
DEC 26 2007
DIV. OF OIL, GAS & MINING

BILL OF MATERIALS		
ITEM	NO.	DESCRIPTION
1	1	2-1/16" 10M WP MANUAL GATE VALVE
2	1	(4) 4-1/16" X (1) 2-1/16", 5-WAY STUDDED CROSS
3	6	4-1/16" 10M WP MANUAL GATE VALVE
4	1	(4) 4-1/16", 4-WAY STUDDED CROSS
5	2	3-1/16" 10M WP MANUAL ADJUSTABLE CHOKE
6	1	3-1/16" 10M WP HYDRAULIC ADJUSTABLE CHOKE (RENTED)
7	1	4-1/16" BLIND FLANGE
8	1	2-1/16" 10M WP INSTRUMENT FLANGE
9	2	3-1/16" 10M WP MANUAL GATE VALVE
10	3	DSA 4-1/15" 10M TO 3-1/16" 10M
11	1	4-1/16" SPOOL



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ONSHORE OIL & GAS ORDER NO. 1
Thirteen Point Surface Use Plan

An onsite inspection of the subject well was conducted on Wednesday, October 21, 2009 at approximately 11:06 a.m. Weather conditions were clear, cool and sunny. In attendance at the onsite inspection were the following individuals:

Richard Bell	Consultant	Petros Environmental Group, Inc.
Joe Fetzer	Consultant	Petros Envrionmental Group, Inc.
Darrin Robinson	Surveyor	Jones & DeMille Engineering, Inc.
Skip Rhodes	Geologist	Pioneer Natural Resources USA
Caleb Pollack	Geologist	Pioneer Natural Resources USA
Dave Holland	Environmental Manager	Pioneer Natural Resources USA
Tony Earnest	Drilling/Operations	Pioneer Natural Resources USA
Leslie Bauer	Drilling Engineer	Pioneer Natural Resources USA
Mike Cannon	Archeologist	SWCA
Lisa Smith	Permitting Agent	Permitco Inc.
Teresa Frampton	Realty	Bureau of Land Management
Jerry Mansfield	Geologist	Bureau of Land Management
Steve Bonar	Recreation	Bureau of Land Management
George Cruz	NRS	Bureau of Land Management
Jim Priest	Wildlife Biologist	Bureau of Land Management
Erin Rajala	Outdoor Recreation	Bureau of Land Management

A. EXISTING ROADS

1. The proposed well site is located approximately 20.8 miles northeast of Scipio, Utah.

2. Directions to the location from Scipio, Utah are as follows:

   Proceed northeast on Interstate 15 for approximately 13.5 miles until reaching Exit 202. Turn right onto Yuba Lake County Road and proceed south for 1.9 miles. Turn left onto Old Botham Road and proceed east for 3 miles. Turn left onto the proposed access road and proceed north 2.4 miles until reaching the proposed location.

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PETROLEUM PERMITTING PERMITCO COMPANY

3. For location of access roads within a 2-Mile radius, see Sheet 3.

4. Improvement to the existing access will not be necessary.

5. All existing roads will be maintained and kept in good repair during all drilling and completion operations associated with this well.

6. Existing roads and newly constructed roads on surface under the jurisdiction of any Surface Managing Agency shall be maintained in accordance with the standards of the SMA.

B. NEW OR RECONSTRUCTED ACCESS ROADS

1. There will be approximately 2.4 miles of existing 2-track road to be upgraded in accordance with the Gold Book Standards. The first portion of the access road after leaving the Botham Road will be reclaimed. Instead a new access approximately three hundred feet west will be constructed across the ephemeral stream, in order to provide a straight access alignment and avoid the existing sharp curve.

2. The access to be constructed with a running surface of 12-14 feet with turnouts. If the road is crowned and ditched, the maximum disturbed width will be approximately 25 feet.

3. The maximum grade of the new access will be approximately 3%.

4. Wing ditches and/or water bars are not anticipated, but may be installed along the roadway to manage run-off and prevent erosion. The need for installation will be determined by the dirt contractor.

5. One 42" culvert will be installed along the proposed access as shown on Sheet 3.

6. The portion of the road to be upgraded will be flagged prior to beginning construction.

7. Surfacing of the pad and proposed access road will be done prior to rig move-in with approximately 6-8 inches of gravel.

8. One cattle guard will be installed along the proposed access as shown on Sheet 3.

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9. Surface disturbance and vehicular travel will be limited to the approved location and approved access route. Any additional area needed will be approved by the Field Manager in advance.

10. If at any time the facilities located on public lands authorized by the terms of the lease are no longer included in the lease (due to a contraction in the unit or other lease or unit boundary change) the BLM will process a change in authorization to the appropriate statute. The authorization will be subject to appropriate rental, or other financial obligations determined by the authorized officer.

11. Road right of way is needed for the portion of access located outside Pioneer's lease boundaries. The right of way requested is as follows:

    T16S - R1W
    Sec. 7: Lots 1, 20, 21 and 40

    The approximate length of the proposed lands located off-lease is 4538' as shown on Sheet 3. We are requesting that this APD be used as our application for road right of way.

C. LOCATION OF EXISTING WELLS WITHIN A 1-MILE RADIUS OF THE PROPOSED LOCATION.

There is one water well approximately 0.75 miles north-northwest of the proposed drillsite as shown on Map C. There are no other wells within a one mile radius of this location.

D. LOCATION OF EXISTING AND/OR PROPOSED PRODUCTION FACILITIES

1. Production facilities will be located on the well pad. If production is established a production facility layout will be submitted via Sundry Notice.

2. All permanent structures (onsite for six months or longer) constructed or installed (including oil well pump jacks) will be painted a flat, nonreflective color to match the standard environmental colors, as determined by the Rocky Mountain Five-State Interagency Committee. All facilities will be painted within six months of installation. Facilities required to comply with the Occupational Safety and Health Act (OSHA) may be excluded. Colors will match the adjacent vegetation or will be specified as a condition of approval (COA) by the Bureau of Land Management.

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3. All site security guidelines identified in 43 CFR 3162.7-5 and Onshore Oil and Gas Order No. 3 shall be followed:

4. Large volumes of gas, associated with oil production, are not anticipated. Initially gas could be flared in accordance with BLM and UDOGM regulations, but may be re-injected to assist with maintenance of reservoir pressure.

5. The tank battery will be surrounded by a berm of sufficient capacity to contain 1-1/2 times the storage capacity of the largest tank. All loading lines and valves will be placed inside the berm surrounding the tank battery. All oil production and measurement shall conform to the provisions of 43 CFR 3162.7-3 and Onshore Oil and Gas Order No. 4.

6. Production facilities on location may include a lined or unlined produced water pit as specified in Onshore Order No. 7. If water is produced from the well, an Onshore Order No. 7 application will be submitted.

7. Any necessary pits will be properly fenced to prevent any wildlife entry.

8. All off-lease storage, off-lease measurement, or commingling on-lease or off-lease will have prior written approval from the Authorized Officer.

9. All access roads will be maintained as necessary to prevent erosion and accommodate year-round traffic.

10. The road will be maintained in a safe useable condition.

E. LOCATION AND TYPE OF WATER SUPPLY

1. All water needed for drilling purposes will be obtained from the Sevier River Bridge Water Users Association. All agreements will be in place prior to use of this water. The point of diversion will be agreed to with the Yuba Lake State Park Management.

2 Water will be pumped or hauled to the drill site along the roads shown on Sheet 3. If the water is pumped it will be pumped through a 3" poly line to be laid on the surface adjacent to the proposed access (to be upgraded). If the pipeline crosses any roadways, it will be buried, or run though an existing culvert.

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3. No water well is to be drilled on this lease.

4. All appropriate permits will be filed with the Division of Water Rights for a change of use.

F. CONSTRUCTION MATERIALS

1. Pad construction material will be native (that found in the well pad).

2. Native material found in the pad may also be used for road upgrading. Gravel for surfacing of the access road and well pad will be purchased from a commercial source.

3. The use of materials under BLM jurisdiction will conform with 43 CFR 3610.2-3.

4. No construction materials will be removed from Federal land.

5. Any fill material that is needed, but not available onsite, will come from a private source.

G. METHODS FOR HANDLING WASTE

1. All fluids contained within the reserve pit will be allowed to evaporate and the pit will be backfilled.

2. Burning will not be allowed. All trash will be contained in a trash cage and its contents removed at the end of drilling operations and hauled to an approved disposal sight. Trash will be hauled as necessary, but not later than at the completion of drilling operations.

3. Any salts and/or chemicals which are an integral part of the drilling system will be disposed of in the same manner as the drilling fluid.

4. Sewage will be placed in a portable chemical toilet or holding tank and disposed of in accordance with state and county regulations.

5. The produced fluids (other than water) will be produced into a test tank until such time as construction of production facilities is completed. Any spills of oil, gas salt water or other produced fluids will be cleaned up and removed.

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H. ANCILLARY FACILITIES

If needed, a man-camp will be located on the wellpad to accommodate the housing of the drilling crews. All sanitation facilities will be in accordance with Juab County regulations. Otherwise, crews will be housed in the local community. There are no airstrips or other facilities planned during the drilling of the proposed well.

I. WELLSITE LAYOUT

1. See Location Layout (Sheet No SP-01) and Typical Cross Sections (Sheet CS-01) for orientation of rig, with cuts and fills and cross sections of the drill pad.

2. Six inches of topsoil (or the maximum available) will be salvaged during construction and reserved for use in reclamation.

3. Topsoil will be stockpiled as shown on the Location Layout.

4. All wells, whether drilling, producing, suspended, or abandoned, will be identified in accordance with 43 CFR 3162.6. A sign will be placed at the entrance to the location identifying the Operator, Well Name, Legal location and Emergency Contact Numbers.

5. The location of mud tanks; reserve pit, trash cage; pipe racks; living facilities and soil stockpiles will be shown on the Typical Rig Layout.

6. A flare pit will be located a minimum of 15 feet from the edge of the reserve pit and a minimum of 180 feet from the well head.

7. Any pits containing fluid will be fenced to prevent wildlife entry.

8. The reserve pit will be lined with a minimum of 12 mil plastic liner as specified by the State of Utah. The reserve pit will be fenced on 3 sides during drilling and the 4th side when the rig leaves the location. The fencing will be constructed with "H" braces and barbed wire or sheep fencing as specified by the BLM.

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J. PLANS FOR SURFACE RECLAMATION

1. Immediately upon completion of drilling, all equipment that is not necessary for production shall be removed.

2. The cuttings pit will be allowed to dry and will then be backfilled.

3. Immediately upon well completion, the location and surrounding area will be cleared of all unused tubing, equipment, debris, materials, trash and junk not required for production.

4. Gravel on the pad will be recovered and buried in the reserve pit. Gravel along the access road will be left in place for continued access by the private surface owner and/or grazing lessee. If leaving the gravel on the access road is not acceptable, it will be removed and disposed of.

5. Seeding of the areas to be reclaimed will be done in the fall as required by the BLM. A seed mix will be provided to the operator at the time of reclamation.

6. The abandonment marker will be at least four feet above ground level and will be inscribed with the following: operator name, lease number, well name and surveyed description (township, range, section and either quarter-quarter or footages), or will be buried, depending upon the Wildlife Biologist's preference.

7. At such time as the well is plugged and abandoned, the operator shall submit a subsequent report of abandonment.

K. SURFACE OWNERSHIP

Access Roads - All roads are County maintained or are located on lands managed by the Bureau of Land Management or private surface.

Well pad - The well pad is located on lands managed by the BLM.

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L. OTHER INFORMATION

1. A Class III archeological survey was conducted by SWCA. A copy of this report will be submitted to the appropriate agencies directly by SWCA.

2. The operator is responsible for informing all persons in the areas who are associated with this project that they will be subject to prosecution for knowingly disturbing historic or archaeological sites, or for collecting artifacts. If historic or archaeological materials are uncovered during construction, the operator is to immediately stop work that might further disturb such materials, and contact the authorized officer (AO). Within five working days the AO will inform the operator as to:

   -whether the materials appear eligible for the National Register of Historic Places;

   -the mitigation measures the operator will likely have to undertake before the site can be used (assuming in situ preservation is not necessary); and

   -a time frame for the AO to complete and expedited review under 36 CFR 800.11 to confirm, through the State Historic Preservation Officer, that the findings of the AO are correct and that mitigation is appropriate.

   If the operator wishes, at any time, to relocate activities to avoid the expense of mitigation and/or the delays associated with this process, the AO will assume responsibility for whatever recordation and stabilization of the exposed materials may be required. Otherwise, the operator will be responsible for mitigation costs. The AO will provide technical and procedural guidelines for the conduct of mitigation. Upon verification from the AO that required mitigation has been completed, the operator will then be allowed to resume construction.

3. All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved plan of operations, and any applicable Notice to Lessees. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished the field representative to insure compliance.

4. A complete copy of the approved APD shall be on location during construction of the location and drilling activities.

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5. There will be no deviation from the proposed drilling and/or work over program without prior approval from the AO. Safe drilling and operating practices must be observed. All wells, whether drilling, producing, suspended, or abandoned will be identified in accordance with 43 CFR 3162.h.

6. "Sundry Notice and Report on Wells" (From 3160-5) will be filed for approval for all changes of plans and other operations in accordance with 43 CFR 3162.3-2.

7. This permit will be valid for a period of two years from the date of approval. An extension period of up to two years may be granted, if requested, prior to the expiration of the original approval period.

8. The operator or his contractor shall contact the BLM Offices at 435/896-1500 48 hours prior to construction activities.

AGENT AND OPERATOR'S REPRESENTATIVE

Permit Matters
PERMITCO INC.
Lisa L. Smith
PO Box 99
Eastlake, CO 80614
303/857-9999 (Office)
303/450-9200 (Fax)

Drilling & Completion Matters
PIONEER NATURAL RESOURCES USA, INC.
1401 - 17th Street, Suite 1200
Denver, CO 80202
Dave Holland - Regulatory Manager
303/675-2624 (Office)

Leslie Bauer - Drilling Engineer
972/969-4418 (Office)
214/499-1005 (Mobile)

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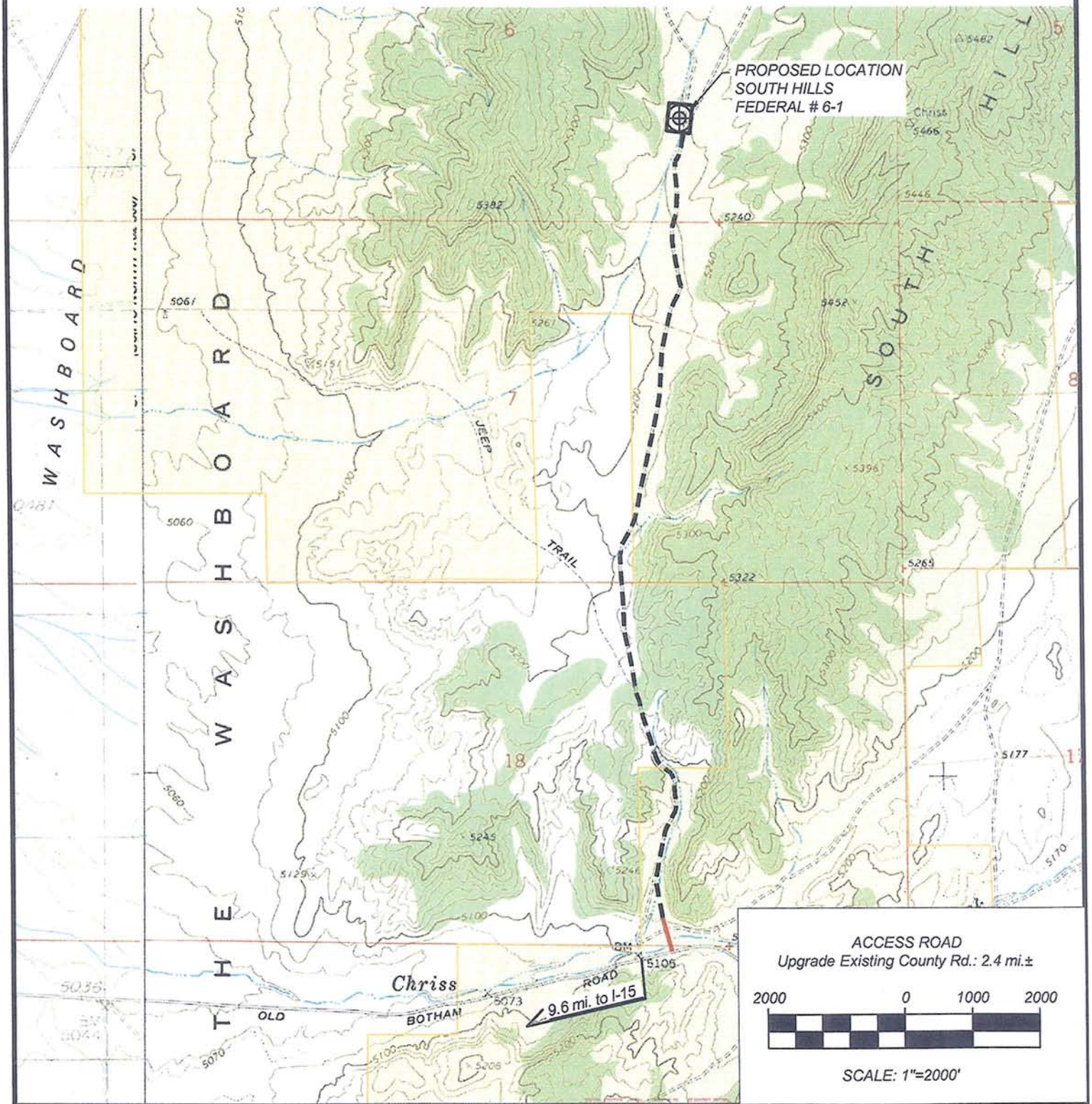


LEGEND

- PROPOSED LOCATION
- EX. ROAD NEEDING IMPROVEMENT
- NEW ROAD (510 FT)
- B.L.M. PROPERTY
- PRIVATE PROPERTY

RECEIVED
DEC 28 2009
DIV. OF OIL, GAS & MINING

SOUTH HILLS FEDERAL # 6-1
SECTION 6, T. 16 S., R. 1 W., S.L.B.&M.
1552' FSL 3171' FEL

Jones & DeMille Engineering, Inc.
1535 South 100 West
Richfield, Utah 84701
Voice 435.896.8266
Fax 435.896.8268
248 East Main
Price, Utah 84501
Voice 435.637.8266
Fax 435.637.8268
www.jonesanddemille.com

SCALE: 1" = 2000'

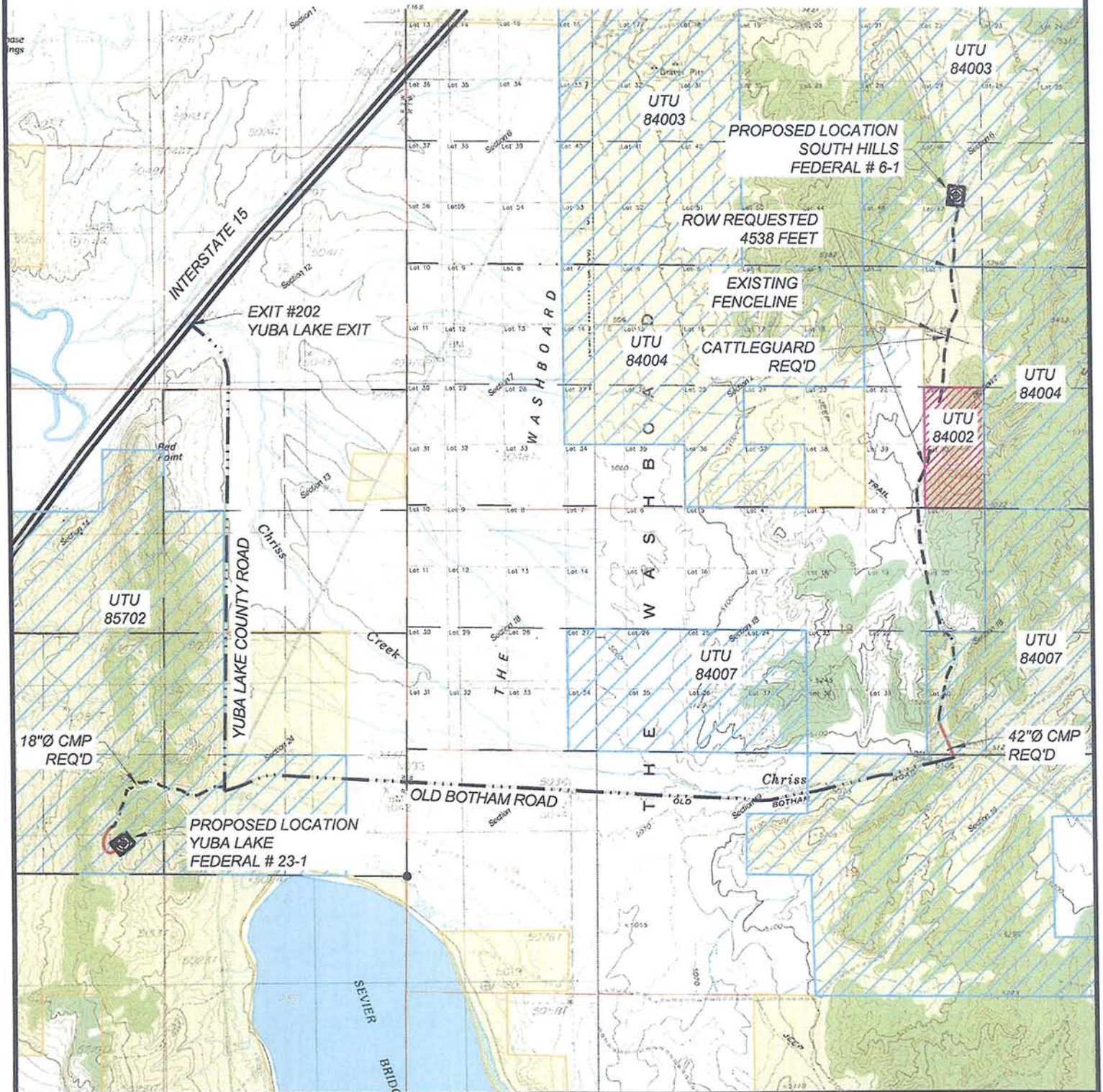
Pioneer Natural Resources, USA

FIGURE:

South Hills Federal # 6-1

Vicinity Map

DRAWN: B.L. 10-09	PEN TBL: _1stndrd-ir2800.ctb	PROJECT: 0910-185	SHEET: 1
CHECK:	FILE: vicinities	LAST UPDATE: 11/5/2009	



LEGEND

- PROPOSED LOCATION
- EX. ROAD NEEDING IMPROVEMENT
- NEW ROAD
- EXIST. COUNTY ROAD (PROJECT ACCESS)
- B.L.M. PROPERTY
- PRIVATE PROPERTY
- LEASE BOUNDARY UTU 84002
- LEASE BOUNDARIES

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DIV. OF OIL, GAS & MINING

Jones & DeMille Engineering, Inc.
1535 South 100 West
Richfield, Utah 84701
Voice 435.896.8266
Fax 435.896.8268
248 East Main
Price, Utah 84501
Voice 435.637.8266
Fax 435.637.8268
www.jonesanddemille.com

SCALE: 1" = 3000'

Pioneer Natural Resources, USA

FIGURE: A

Yuba Lake Federal #23-1 & South Hills Federal # 6-1

Lease Boundary Exhibit

DRAWN: L.G. 11-09	PEN TBL: _1stndrd-hp2600.ctb	PROJECT: 0910-185	SHEET: 3
CHECK:	FILE: vicinities	LAST UPDATE: 12/21/2009	

SOUTH HILLS FEDERAL #6-1

SECTION 6, T. 16 S., R. 1 W., S.L.B.&M.

SITE DATA:
TOTAL LOCATION EARTHWORK VOLUMES (RAW)
CUT: 10,989 c.y.
FILL: 4,188 c.y.

ADJUSTED VOLUMES: (25% SHRINK)
CUT: 10,989 c.y.
FILL: 5,235 c.y. (REQ'D)
NET: 5,754 c.y.
(SPOIL, APPROX. 2,736 c.y. IS TOPSOIL)

CUT SLOPES: 2:1
FILL SLOPES: 3:1

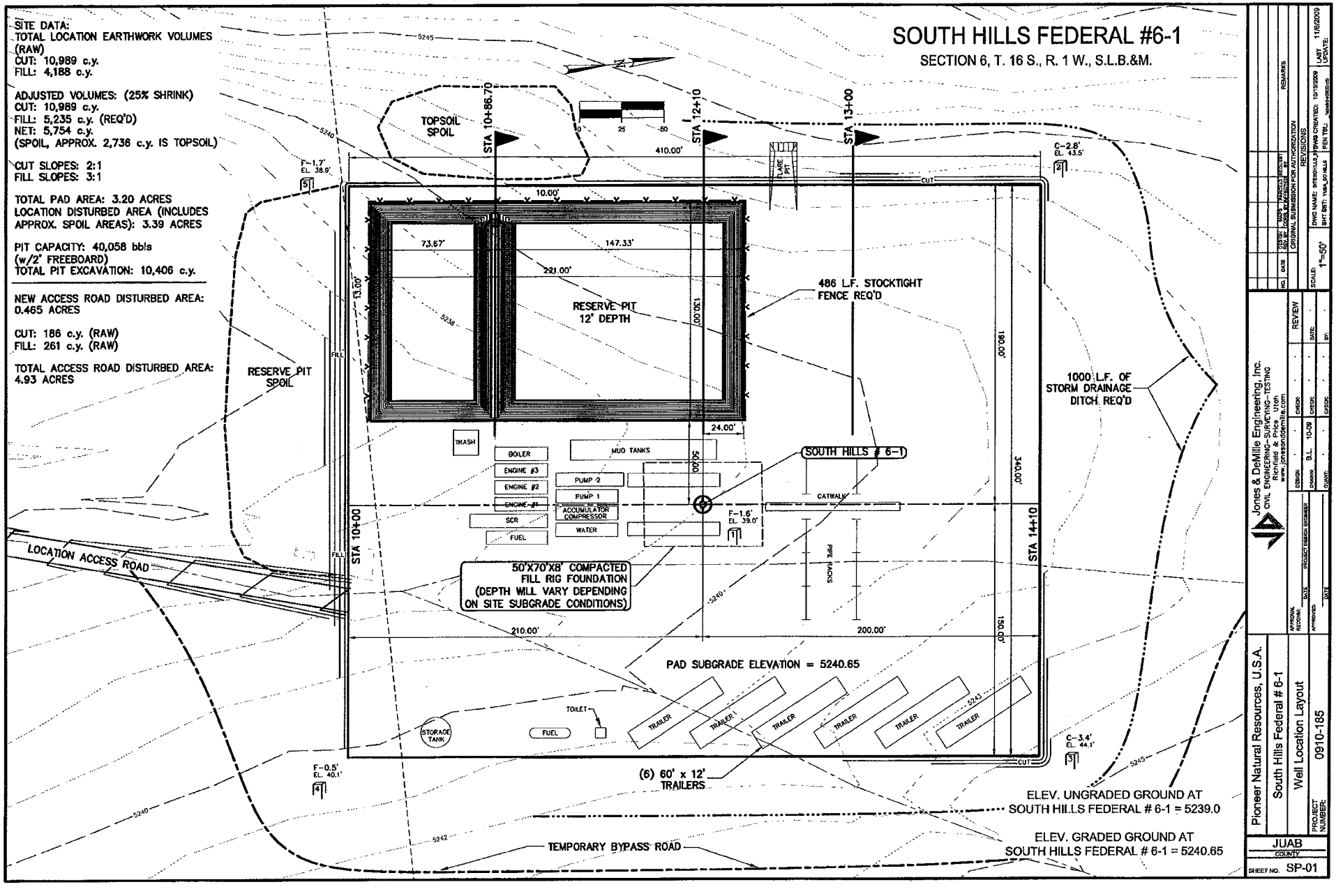
TOTAL PAD AREA: 3.20 ACRES
LOCATION DISTURBED AREA (INCLUDES APPROX. SPOIL AREAS): 3.39 ACRES

PIT CAPACITY: 40,058 bbls (w/2' FREEBOARD)
TOTAL PIT EXCAVATION: 10,406 c.y.

NEW ACCESS ROAD DISTURBED AREA: 0.465 ACRES

CUT: 186 c.y. (RAW)
FILL: 261 c.y. (RAW)

TOTAL ACCESS ROAD DISTURBED AREA: 4.93 ACRES



Jones & DeMille Engineering, Inc.
CIVIL ENGINEERING–SURVEYING–TESTING
Richfield & Price Utah
www.jonesanddemille.com

NO.	DATE	DESIGN REV. BY	MAPS DRAWN BY	PARCELS REGISTERED BY	REMARKS

REVISIONS

ORIGINAL SUBMISSION FOR AUTHORIZATION

SCALE: 1"=50'
DWG NAME: SITESOHILLS_6
SHT SET: YUSA_SO HILLS
DWG CREATED: 10/15/2009
PEN TBL: tabdefs2020.ctb
LAST UPDATE: 11/6/2009

REVIEW
DESIGN: B.L. 10-09
DRAWN: B.L. 10-09
QUANT:
CHECK:
DATE:
BY:

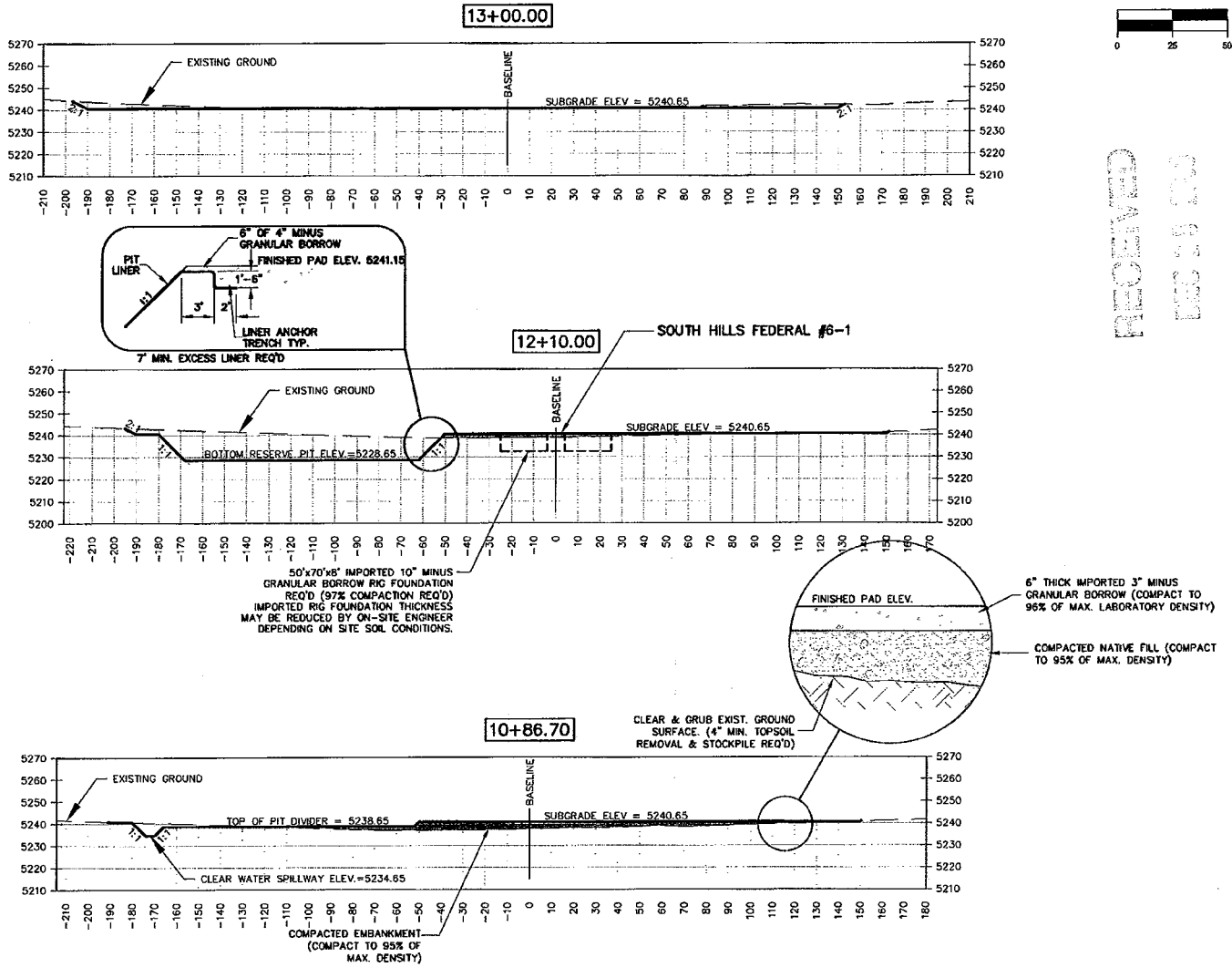
APPROVAL RECOMM.: DATE
APPROVED: DATE
PROJECT DESIGN ENGINEER

Pioneer Natural Resources, U.S.A.
South Hills Federal # 6-1
Well Location Layout
PROJECT NUMBER: 0910-185

JUAB
COUNTY
SHEET NO. SP-01

SOUTH HILLS FEDERAL #6-1

SECTION 6, T. 16 S., R. 1 W., S.L.B.&M.



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DIV. OF OIL, GAS & MINING

NO.	DATE	DESIGN REV. BY	MAPS CORR. BY	PARCELS AFFECTED	REQUEST BY	REMARKS
		ORIGINAL SUBMISSION FOR AUTHORIZATION				

REVISIONS

SCALE: 1"=50'

DWG NAME: SITESCHILLS_6 DWG CREATED: 10/15/2009 LAST UPDATE: 11/6/2009

SHT SET: YUBA_SCHILLS PEN TBL: [illegible]

Jones & DeMille Engineering, Inc.
CIVIL ENGINEERING-SURVEYING-TESTING
Richfield & Price Utah
www.jonesanddemille.com

DESIGN: CHECK: REVIEW
DRAWN: B.L. 10-09 CHECK: DATE:
QUANT: CHECK: BY:

APPROVAL RECOMM. DATE PROJECT DESIGN ENGINEER
APPROVED: DATE

Pioneer Natural Resources, U.S.A.

South Hills Federal # 6-1

Well Cross Sections

PROJECT NUMBER: 0910-185

JUAB
COUNTY

SHEET NO. CS-01

FEDERAL STIPULATIONS

Any timing restrictions imposed by the Bureau of Land Management for this drill site will be stipulated as a Condition of Approval.

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DIV. OF OIL, GAS & MINING

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COMPANY

ARCHEOLOGY

A Class III archeological survey was previously conducted by SWCA.
A copy of this report will be submitted to the appropriate agencies directly by SWCA.

RECEIVED
DEC 28 2009
DIV. OF OIL, GAS & MINING

PETROLEUM PERMITTING
PERMITCO
COMPANY

PIONEER
NATURAL RESOURCES

Pioneer Natural Resources USA, Inc.
1401 17th Street, Suite 1200
Denver, Colorado 80202
Tel: (303) 298-8100 Fax: (303) 298-7800

December 17, 2009

Bureau of Land Management
35 East 500 North
Fillmore, UT 84631

Attn: Minerals

Re: South Hills Federal 6-1 - Juab County, Utah

Gentlemen:

This letter is to inform you that Permitco Inc. is authorized to act as Agent and to sign documents on behalf of Pioneer Natural Resources USA, Inc when necessary for filing county, state and federal permits including Onshore Order No. 1, Right of Way applications, etc., for the above mentioned well.

It should be understood that Permitco is acting as Agent only in those matters stated above and is not responsible for drilling, completion, production or compliance with regulations.

Pioneer Natural Resources USA, Inc. agrees to accept full responsibility for operations conducted in order to drill, complete and produce the above-mentioned well.

Sincerely,

Pioneer Natural Resources USA, Inc.

David N. Holland
Environmental and Regulatory Manager
Rockies Asset Team

RECEIVED
DEC 2 6 2009
DIV. OF OIL, GAS & MINING

WORKSHEET

APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 12/28/2009

API NO. ASSIGNED: 43-023-30021

WELL NAME: S HILLS FED 6-1

OPERATOR: PIONEER NATURAL (N5155)

PHONE NUMBER: 303-857-9999

CONTACT: VENESSA LANGMACHER

PROPOSED LOCATION:

LT46 06 160S 010W

SURFACE: 1552 FSL 3171 FEL

BOTTOM: 1552 FSL 3171 FEL

COUNTY: JUAB

LATITUDE: 39.44355 LONGITUDE: -111.97233

UTM SURF EASTINGS: 416330 NORTHINGS: 4366242

FIELD NAME: WILDCAT (1)

INSPECT LOCATN BY: / /

Tech Review	Initials	Date
Engineering		
Geology		
Surface		

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU-84003

PROPOSED FORMATION: CHIN

SURFACE OWNER: 1 - Federal

COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

✓ Plat

✓ Bond: Fed[1] Ind[] Sta[] Fee[]
(No. MTB-000041)

N Potash (Y/N)

N Oil Shale 190-5 (B) or 190-3 or 190-13

✓ Water Permit
(No. 68-2447)

N RDCC Review (Y/N)
(Date:)

NA Fee Surf Agreement (Y/N)

NA Intent to Commingle (Y/N)

LOCATION AND SITING:

___ R649-2-3.

Unit: ___

___ R649-3-2. General

Siting: 460 From Qtr/Qtr & 920' Between Wells

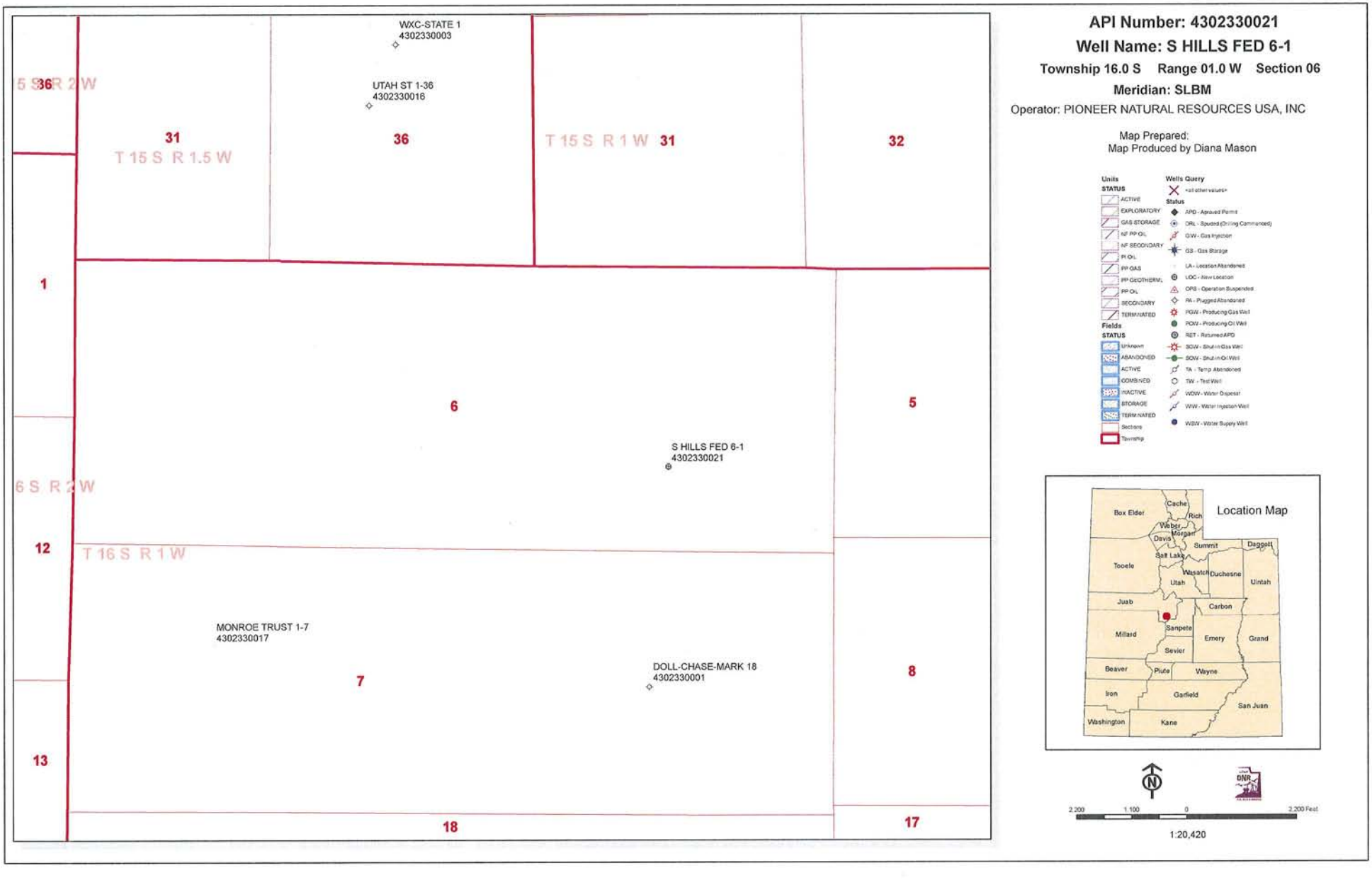
✓ R649-3-3. Exception

___ Drilling Unit
Board Cause No: ___
Eff Date: ___
Siting: ___

___ R649-3-11. Directional Drill

COMMENTS: ___

STIPULATIONS: 1- Federal Approval
2- Spacing Stip



API Number: 4302330021

Well Name: S HILLS FED 6-1

Township 16.0 S Range 01.0 W Section 06

Meridian: SLBM

Operator: PIONEER NATURAL RESOURCES USA, INC

Map Prepared:
Map Produced by Diana Mason

1:20,420

GARY R. HERBERT
Governor
GREGORY S. BELL
Lieutenant Governor

State of Utah
DEPARTMENT OF NATURAL RESOURCES
MICHAEL R. STYLER
Executive Director
Division of Oil, Gas and Mining
JOHN R. BAZA
Division Director

June 29, 2010

Pioneer Natural Resources USA, Inc.
1401-17th Street, Suite 1200
Denver, CO 80202

Subject: South Hills Federal 6-1 Well, 1552' FSL, 3171' FEL, Lot 46, Sec. 6, T. 16 South, R. 1 West, Juab County, Utah

Ladies and Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann.§ 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

Appropriate information has been submitted to DOGM and administrative approval of the requested exception location is hereby granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-023-30021.

Sincerely,

Brad Hill
Acting Associate Director

BH/ js
Enclosures

cc: Juab County Assessor
Bureau of Land Management, Utah State Office

1594 West North Temple, Suite 1210, PO Box 145801, Salt Lake City, UT 84114 -5801
telephone (801) 538-5340 • facsimile (801) 359-3940 • TTY (801) 538-7458 • *www.ogm.utah.gov*

UTAH DNR
OIL, GAS & MINING

Operator: Pioneer Natural Resources USA, Inc.

Well Name & Number South Hills Federal 6-1

API Number: 43-023-30021

Lease: UTU-84003

Location: Lot 46 **Sec.** 6 **T.** 16 South **R.** 1 West

Conditions of Approval

1. General

   Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

2. Notification Requirements

   The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

   - Within 24 hours following the spudding of the well – contact Carol Daniels at 801-538-5284 (please let a voicemail message if not available)
     OR
     Submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website at http://oilgas.ogm.utah.gov

   Notify the Division prior to commencing operations to plug and abandon the well.

   - Contact Dustin Doucet at (801) 538-5281 office
     (801) 733-0983 after office hours

3. Reporting Requirements

   All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited:

   - Entity Action Form (Form 6) – due within 5 days of spudding the well
   - Monthly Status Report (Form 9) – due by 5th day of the following calendar month
   - Requests to Change Plans (Form 9) – due prior to implementation
   - Written Notice of Emergency Changes (Form 9) – due within 5 days
   - Notice of Operations Suspension or Resumption (Form 9) – due prior to implementation
   - Report of Water Encountered (Form 7) – due within 30 days after completion
   - Well Completion Report (Form 8) – due within 30 days after completion or plugging

4. State approval of this well does not supersede the required federal approval, which must be obtained prior to drilling.

5. This proposed well is located in an area for which drilling units (well spacing patterns) have not been established through an order of the Board of Oil, Gas and Mining (the "Board"). In order to avoid the possibility of waste or injury to correlative rights, the operator is requested, once the well has been drilled, completed, and has produced, to analyze geological and engineering data generated therefrom, as well as any similar data from surrounding areas if available. As soon as is practicable after completion of its analysis, and if the analysis suggests an area larger than the quarter-quarter section upon which the well is located is being drained, the operator is requested to seek an appropriate order from the Board establishing drilling and spacing units in conformance with such analysis by filing a Request for Agency Action with the Board.

United States Department of the Interior

BUREAU OF LAND MANAGEMENT
FILLMORE FIELD OFFICE
35 East 500 North
Fillmore, Utah 84631

TAKE PRIDE IN AMERICA

In Reply Refer to:
3160 (UTW02000)
UT-084004

43-023-30021

August 5, 2010

16S 1W 6

CERTIFIED MAIL #: 7009 2820 0002 1629 3463
RETURN RECEIPT REQUESTED

Dave Holland, Environmental and Regulatory Manager
Pioneer Natural Resources USA, Inc.
1401 17th Street, Suite 1200
Denver, CO 80202

Dear Mr. Holland:

Pioneer Natural Resources USA's Application for Permit to Drill (APD) at proposed South Hills Federal #6-1 on Bureau of Land Management (BLM) land is approved for exploratory oil and gas drilling and initial production by trucking. Please note that Drilling Program Conditions of Approval are attached to the APD. The attached Decision Record allows this project to be implemented immediately with an appeal process in place.

The APD was filed with this office on December 22, 2009 with a Surface Use Plan of Operations and a Drilling Program. Technical review of the APD has been completed as part of the approval process and the completion of an Environmental Assessment (EA). The EA has been based on the APD as submitted. The approval is for the APD package.

Since Pioneer Natural Resources USA has a nation-wide reclamation bond in place for $300,000, there is no need for an additional reclamation bond. The BLM number for this bond is MTB000041.

Copies of the approved APD and Conditions of Approval are enclosed for your records.

If you have any questions concerning the processing of this project, please contact George Cruz at (435) 743-3126.

Sincerely,

Randy Beckstrand

Randy Beckstrand
Acting Field Manager

Attachments:
Approved APD, and Drilling Program Conditions of Approval.

RECEIVED
AUG 09 2010
DIV. OF OIL, GAS & MINING

cc:
Al McKee
Utah State Office (UT-922)

Ms. Lisa Smith
PermitCo Company
14421 County Road 10
Fort Lupton, CO 80621

Petros Environmental
5575 South Sycamore Street #126
Littleton, CO 80120

State of Utah, Division of Oil, Gas, and Mining
PO Box 145801
Salt Lake City, UT 84114

APPLICATION FOR TEMPORARY CHANGE OF WATER

STATE OF UTAH

Rec. by
Fee Paid $
Receipt #
Microfilmed
Roll #

For the purpose of obtaining permission to make a temporary change of water in the State of Utah, application is hereby made to the State Engineer, based upon the following showing of facts, submitted in accordance with the requirements of Section 73-3-3 Utah Code Annotated 1953, as amended.

*WATER RIGHT NO. _____ *APPLICATION NO. t _____

Changes are proposed in (check those applicable)

_____ point of diversion. _____ place of use. x nature of use. _____ period of use.

1. **OWNER INFORMATION**
   Name: Delta Canal Company *Interest: _____%
   Address: 800 West 100 North
   City: Delta State: UT Zip Code: 84624
2. *PRIORITY OF CHANGE: _____ *FILING DATE: _____
3. RIGHT EVIDENCED BY: Water Right No. 68-8(A4562a) change a1383

   Prior Approved Temporary Change Applications for this right: _____

********** HERETOFORE **********

4. QUANTITY OF WATER: _____ cfs and/or 5.0 ac-ft.
5. SOURCE: Sevier Bridge Reservoir
6. COUNTY: Juab & Millard
7. POINT(S) OF DIVERSION: ~~1) S 870 ft E 436 ft from NW corner, S1 T17S R2W SLBM (Sevier Bridge Reservoir) 2)N1916 ft E 1966 ft from S4 cor, S26, T16S, R6W SLBM (Delta-Melville Dam)~~

   Description of Diverting Works: Delta Canal Company Canals
8. **POINT(S) OF REDIVERSION**
   The water has been rediverted from _____ at a point: _____

   Description of Diverting Works: _____
9. **POINT(S) OF RETURN**
   The amount of water consumed is _____ cfs or _____ ac-ft.
   The amount of water returned is _____ cfs or _____ ac-ft.
   The water has been returned to the natural stream/source at a point(s): _____

*These items are to be completed by the Division of Water Rights.

API Well No: 43023300210000

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-84003

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL Oil Well

8. WELL NAME and NUMBER: S HILLS FED 6-1

2. NAME OF OPERATOR: PIONEER NATURAL RESOURCES USA, INC

9. API NUMBER: 43023300210000

3. ADDRESS OF OPERATOR: 1401 17th Street, Suite 1200 , Denver, CO, 80202

PHONE NUMBER: 303 298-8100 Ext

9. FIELD and POOL or WILDCAT: WILDCAT

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1552 FSL 3171 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: LT46 Section: 06 Township: 16.0S Range: 01.0W Meridian: S

COUNTY: JUAB

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
✓ NOTICE OF INTENT Approximate date work will start: 9/1/2010	☐ ACIDIZE	✓ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
☐ SPUD REPORT Date of Spud:	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ DRILLING REPORT Report Date:	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER: Change Csg & Cmt

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

See attached file for casing and cement change to APD approved 6/29/10 - 2nd page is copy of revised preliminary wellbore diagram. We request this information to remain CONFIDENTIAL

Accepted by the Utah Division of Oil, Gas and Mining

Date: August 26, 2010

By:

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Joy A. Ziegler	303 675-2663	Senior Engineering Tech
SIGNATURE N/A		**DATE** 8/23/2010

RECEIVED August 23, 2010

Attachment to UDOGM Electronic Sundry Notice Form 9
August 23, 2010

Pioneer Natural Resources USA, Inc.
South Hills Federal 6-1
API No. 43-023-30021
Lot 46, Sec. 6, T16S-R1W
Juab Co., UT

No. 13:

Pioneer Natural Resources is requesting approval for the following changes to the approved APD (approved 6/29/10)

Observing Wolverine's drlg experience in this area – Pioneer plans to use a heavier and longer intermediate csg string due to potential salt deformation in the Arapien section. Salts that can deform after drlg have been encountered by Wolverine and a heavier pipe would prevent this from interfering with the well progress or the integrity of the well in any future production (incase the salts are encountered by Pioneer).

Surf Csg: 0'-4000', 17-1/2" hole, 13-3/8" OD, 68#, J55, BT&C, New – cmt w/1430 sx Halliburton VARICEM TM cmt w/5#/sx Gilsonite, 11.50#/gal, yld: 2.82 ft3/sx; tail: 230 sx Halliburton HALCEM TM, 14.80#/gal, yld 1.32 ft3/sx

Intermediate: 0-8600', 12-1/4" hole, 9-7/8" OD, 62.8#, P-110, BT&C, new – Cmt w/1150 sx HALSEAL (™) w/1.5% FDP-C760-04 (foamer), 14.30#/gal, yld 1.25 ft3/sx – Tail: 90 sx HALCEM ™ , 14.30#/gal, yld 1.25 ft3/sx.

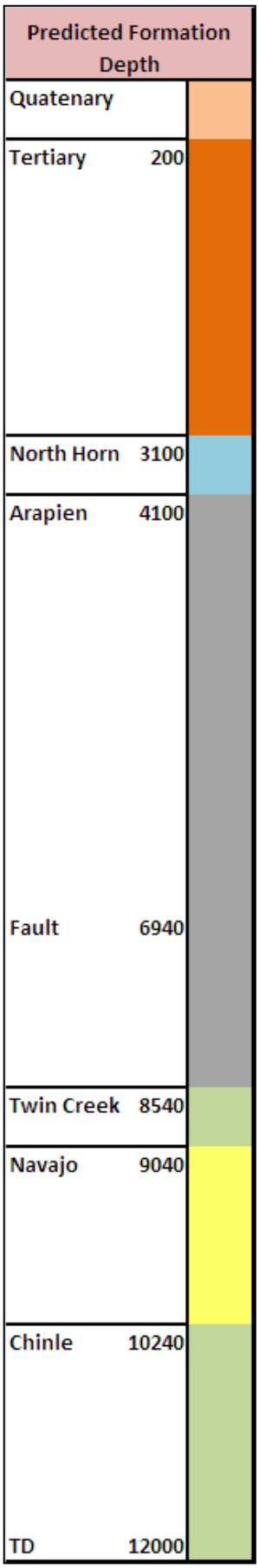
Production: 0-12000', 8-1/2" hole, 5-1/2" OD, 17#, HCL, LT&C/ST&C, new. Cmt w/310 sx EXTENDCEM (TM), 12.5#/gal, yld 1.99 ft3/sx. Tail w/610 sx EXPANDACEM (TM) 13.50#/gal, yld 1.71 ft3/sx

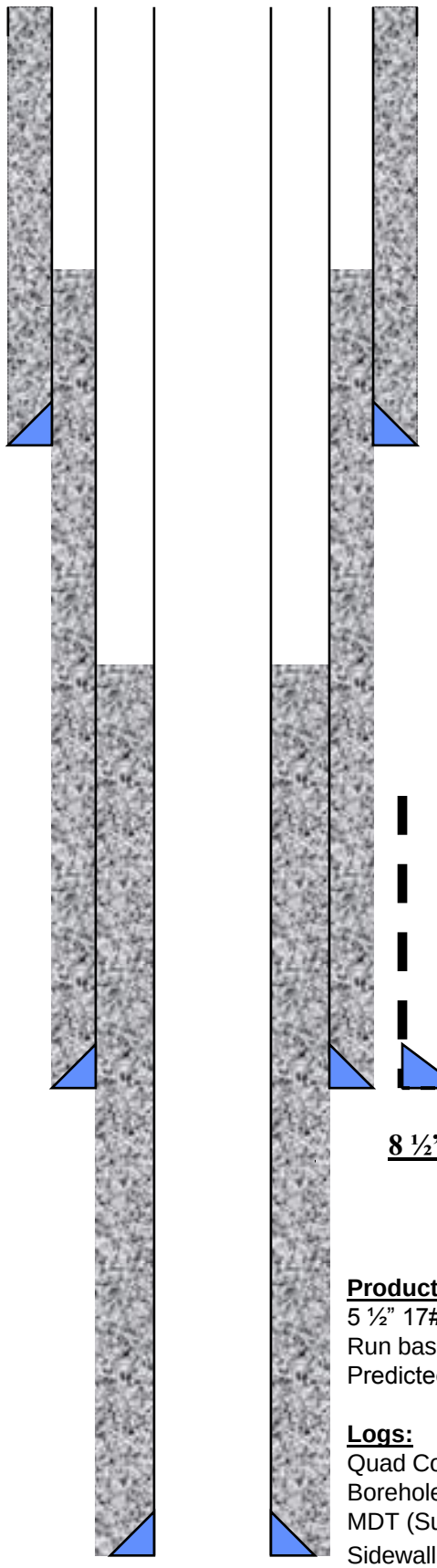
RECEIVED August 23, 2010

PIONEER
NATURAL RESOURCES

South Hills Federal #6-1

Est. Spud Date: 09/01/10
AFE: 018514 API: 43-023-30021
Elev.: 5239' GL, 5264' KB
Surface : 1552 FSL 3171 FEL. Lot 46 Section 6. T16S-R1W
X: 1366049.897 Y: 14324775.865 (UTM NAD27 ZONE 12 NORTH)





Conductor: 30" set 80' below ground level.

17 ½" Surface Hole

Surface Casing: 13 ⅜" 68 ppf J-55 LTC
Estimated Depth @ 4,100' MD.

Enventure SET Contingency Liner
11.75" expand able into 13 ⅜" 68 # Base Pipe
Expanded ID is 11.5"

12 ¼" Intermediate Hole

11 ¼" Contingency Hole if SET used

Intermediate Casing:
9 ⅞" 62.8# P-110 BTC

Predicted Int. Casing Depth @ +/- 8,640'
Potentially set as deep as 10,000'

Contingency Liner:
7 ⅝" 39# P-110 STL

Set based on losses/potential formation hazards
Estimated depth 7,000' – 10,000'

Logs/Formation Evaluation:
Quad Combo

8 ½" Production Hole

6 ½" Contingency Production Hole if Liner Required

Production Casing / TD:
5 ½" 17# HCL80 LTC
Run based on discovery
Predicted Hole/Casing Depth @ 12,000'

Logs:
Quad Combo
Borehole Imager
MDT (Success Case)
Sidewall Cores (Success Case)

RECEIVED August 23, 2010

EB 8/10/10

API Well No: 43023300210000

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-84003

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL
Oil Well

8. WELL NAME and NUMBER: S HILLS FED 6-1

2. NAME OF OPERATOR: PIONEER NATURAL RESOURCES USA, INC

9. API NUMBER: 43023300210000

3. ADDRESS OF OPERATOR: 1401 17th Street, Suite 1200 , Denver, CO, 80202

PHONE NUMBER: 303 298-8100 Ext

9. FIELD and POOL or WILDCAT: WILDCAT

4. LOCATION OF WELL
FOOTAGES AT SURFACE:
1552 FSL 3171 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
Qtr/Qtr: LT46 Section: 06 Township: 16.0S Range: 01.0W Meridian: S

COUNTY: JUAB

STATE: UTAH

11.
CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
✓ NOTICE OF INTENT Approximate date work will start: 9/1/2010	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
☐ SPUD REPORT Date of Spud:	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ DRILLING REPORT Report Date:	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	✓ OTHER	OTHER: Use Oil Base Mud

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.
See attached file for change of plans to use oil base mud for drilling and a new well location layout. We request this information remain Confidential Statu

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
August 31, 2010

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Joy A. Ziegler	303 675-2663	Senior Engineering Tech
SIGNATURE		**DATE**
N/A		8/23/2010

RECEIVED August 23, 2010

CONFIDENTIAL

Attachment to UDOGM Electronic Sundry Notice Form 9
Use Oil Base Mud & New Well Location Layout Diagram
August 23, 2010

Pioneer Natural Resources USA, Inc.
South Hills Federal 6-1
API No. 43-023-30021
Lot 46, Sec. 6, T16S-R1W
Juab Co., UT

No. 13:

Pioneer Natural Resources is requesting approval to change to an oil base mud during the drilling of the subject well for the following reason:

Wolverine has made it standard practice to use oil based mud in their intermediate hole sections. They have seen that the problems with stuck pipe and tight hole have been due to highly reactive clays. The oil based mud will allow for inhibition of these clays as well as any of the potential salts that would require salt saturation of a water based mud system. Wolverine has used the identical mud system for three recent wells. This type of mud has become the standard in the area. We propose to use Soli-bond as the company that will remediate the cuttings onsite. We want to take advantage of the properties of oil based mud in order to improve the overall performance at the rigsite. We feel that we can responsibly manage the oil based mud cuttings remediation and that the increased drilling performance that we expect will allow us to move the rig off sooner than with a water based system and therefore will reduce the environmental impact of all other aspects of our operations. Attached is a copy of Soli-Bond's Waste Management Proposal.

Also attached is a change in the "Surface Use Plan" describing the revised Item 7: "Methods for Handling Waste Disposal" for the oil based mud plan. Item 9 "Well Site Layout" is being modified reporting the new equipment and new liner being added to various places (such as plastic material underlaying the rig) on the wellsite for the oil based mud. Please note the new pit structure and dimensions (copy of new proposed well location layout attached)

Please contact Dave Holland, Western Division Regulatory & Environmental Manager, at 303-675-2624 if you have any questions or concerns.

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CONFIDENTIAL

ONSHORE OIL & GAS ORDER NO. 1
Approval of Operations on Onshore
Federal and Indian Oil and Gas Leases

7. Methods for Handling Waste Disposal

a. Water-base cuttings and water-base drilling fluids that are generated during the drilling of this well will be placed in the water-base portion of the lined pit. This pit will be constructed with at least one-half of its holding capacity below ground level. The pit will be lined with a synthetic liner constructed of a minimum of 12 mil. polyethylene. The liner will be rolled into place and secured at the ends, i.e., buried in the top of the pit berms.

The Oil-base mud (OBM) used in the drilling of this well will be maintained in the closed circulating system of the drilling rig. There will also be an additional, stand-by volume of pre-mixed OBM stored in steel, closed tanks on location. Drip pans will be installed under valves/hammer unions on all OBM related tanks and pumps. An oil-base cuttings pit will be constructed adjacent to, and separate from, the water-base pit. This pit will also be lined with a synthetic liner constructed of a minimum 12 mil polyethylene. As the well is drilled using the oil base mud, the cuttings transported to the surface will be mechanically separated from the drilling fluid as waste by two shale-shakers and then cleaned/dried by passing them through a mud cleaner , a centrifuge, and if warranted, a drying shaker. These separated cuttings will be collected in steel catch tanks once they leave the closed circulating system. They will then be transported by either a wheeled front-end loader, or a mechanical auger system, and placed into the oil-base cuttings pit. (See attached diagram of rig equipment layout.)

Any oily waste fluids and sediments generated at the work site during drilling operations, or when cleaning the fluid containment system after drilling, will also be placed in the oil-base cuttings pit.

9. Well site Layout

a. Plastic material will underlay the rig, oil-base mud and diesel storage tanks, and the steel mud pits.

b. All rig ditches will be lined and directed into a lined sump for fluid recovery.

c. A mud bucket will be utilized, as needed on trips and connections, to contain OBM from the drill string. The OBM from the mud bucket will be directed to a catch pan that will be installed on the BOP stack.

d. Once all waste has been placed in the oil-base cuttings pit, the oilfield waste management consultant, Soli-Bond, will immediately mobilize equipment and personnel to the site to perform the cement based solidification/stabilization process in-situ. Soil will be backfilled over the processed material and the pit area will be returned to the existing grade bordering the pit. For specific details, please see the attached Soli-Bond Proposal for Processing and Disposal of Drilling Waste.

e. Prior to commencing actual drilling operations, the entire reserve pit (both water-base and oil-base) will be fenced on three sides with a sheep-tight fence of woven wire. Immediately upon completion of drilling, all four sides of the water-base pit will be fenced and the liquids allowed to evaporate. The fence will be maintained until restoration.

f. The reserve pit will be overhead flagged to prevent birds from entering the reserve pit.

RECEIVED August 23, 2010

g. The reserve pit will be designed to prevent the collection of surface runoff.

h. The flare pit will be at least 20 ft. from the reserve pit, with a minimum 5-ft. high berm between the two pits. The flare pit will be approx. 40 ft. wide by 80 ft. long by 10 ft. deep.

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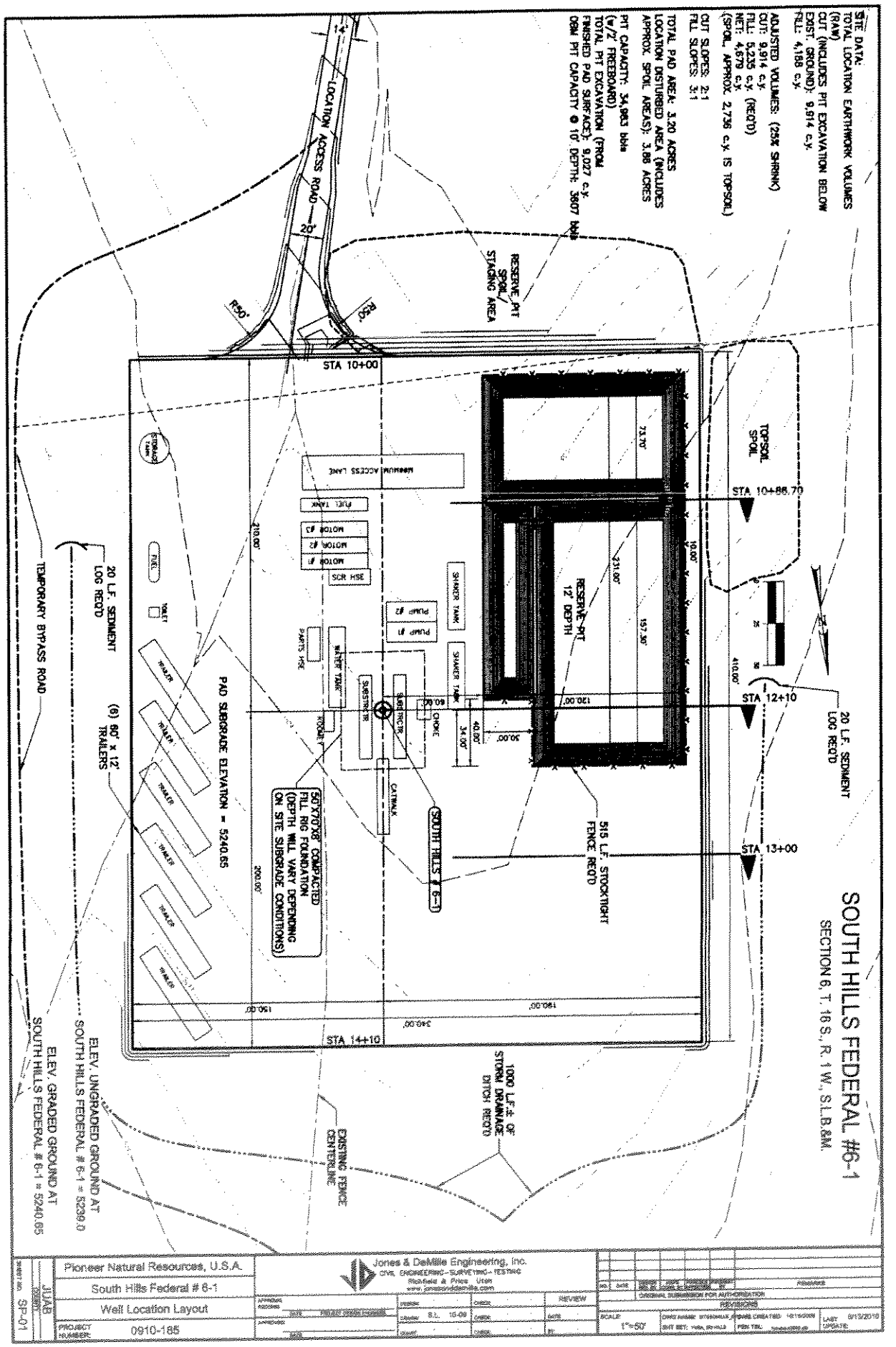
CONFIDENTIAL



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CONFIDENTIAL

SOLI-BOND®

WASTE MANAGEMENT PROPOSAL

For

PIONEER NATURAL RESOURCES CO.

SBI Proposal Date: July 30, 2010
SBI Proposal N°: RM-022-10
Project Type: Process-in-Pit

Project Location Data
Well Name(s): South Hills Federal 6-1
Section: 6
Township: 16S
Range: 1W
County & State: Utah, Utah USA

Prepared For: Eric Burnett
Senior Staff Drilling Engineer
Pioneer Natural Resources Company
5205 N. O'Connor Blvd., Suite 200
Irving, TX 75039
Main: (972) 444-9001
Direct: (972) 969-5710
Cell: (214) 784-7656

Prepared By/
Contact Person: Robert J. Wilson
Sales and Projects Coordinator
Mid Continent and Rocky Mountain Region
Soli-Bond, Inc. (Denver, CO.)
Cell: (303) 579-9800
E-mail: rwilson@soli-bond.com
Web: www.soli-bond.com

CONFIDENTIALITY NOTICE:
Unless otherwise indicated or obvious herein, the information contained in this Proposal is privileged and confidential, intended for the use of the individual or company prepared for as indicated above. Dissemination, distribution or copying of this document is strictly prohibited.

RECEIVED August 23, 2010

OVERVIEW: SITE AND PROJECT DESCRIPTION

The following is a Technical/Economic Proposal for the onsite treatment and disposal of petroleum industry exploration and production waste by Soli-Bond, Inc. (SBI) for **Pioneer Natural Resources Company** (Client).

The work site is an area constructed for the drilling of the **South Hills Federal 6-1** well. The well plan calls for the use of an oil base drilling fluid in the intermediate and production intervals of the well. As these intervals are drilled, cuttings will be generated and separated from the drilling fluid, then deposited in a lined onsite pit by Client/Rig personnel. The separated oil base mud cuttings (OBMC) are expected to be physically unstable and contain elevated levels of residual hydrocarbons from the drilling fluid.

The Client is interested in treating the OBMC in the pit to allow their final disposal in place. SBI proposes to treat the OBMC in the pit "in-situ", after drilling activities have been completed and the rig has been removed from the site, using the SOLI-BOND® Solidification/Stabilization ("S/S") Process. See "Performance Criteria" and "Scope of SBI Work" sections for more detail.

The SOLI-BOND® Process will be applied to the OBMC to achieve the following objectives:

- Permanently reduce the leaching rate of target constituents of concern from the cuttings to within limits indicated in Performance Criteria section herein.
- Irreversibly solidify the physically unstable cuttings. Facilitates final confinement in the soil by providing a processed material that can support backfill soil cover and resist future subsidence.
- Achieve rapid solidification of the cuttings. Allows rapid backfilling and restoration of the pit area.
- Accomplish the above objectives with minimal volume increase to the cuttings. Minimizes impacts to disposal area and increases depth of native soil cover.

Based on Client provided information for bit diameter and drilling interval depths and estimating contributions to final waste volume from well bore **Washout**, decompression/**Expansion** of drilled cuttings and adhered/absorbed drilling **Fluids (WEF)**, the total volume to treat is estimated as follows:

	Volume of Raw OBMC to Treat In Barrels
Intermediate Interval: 7,000 feet of 12.25 inch diameter hole x WEF factor of 2.5	**2,550**
Production Interval: 2,000 feet of 8.50 inch diameter hole x WEF factor of 2.5	**350**
Total estimated waste to treat:	**2,900**

Additional Notes:
SBI recommends that a disposal pit to contain the OBMC be constructed with the following dimensions to allow for some volume increase to the waste after Soli-Bond processing and space for minimum of four (4) feet of native soil cover over the processed waste after backfill, plus some extra capacity for drilling contingencies:

46 feet wide, 100 feet long, 12 feet deep with 1:1 pit wall slope ratio. Resulting dimensions at bottom of pit, 26 feet wide and 76 feet long.

Net processed waste capacity of pit: +/- **4,000 barrels**

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www.soli-bond.com

RECEIVED August 23, 2010

SCOPE OF SBI WORK

- After all OBMC have been placed in onsite pit by rig personnel and the rig has been removed from site. SBI will mobilize equipment, technician(s) and supervisor to subject site.
- Upon arrival at work site SBI supervisor will conduct a jobsite safety assessment with SBI crew, discussing all potential jobsite safety hazards, required personal safety gear and accident avoidance. SBI Safety meetings will be held prior to each day's work throughout the project.
- SBI and Client representative will determine final volume of waste pit contents to treat just prior to SBI process operations onsite.
- SBI will construct proper storm drainage protection if necessary to surround pit area during project.
- SBI will perform preliminary admixing of pit contents prior to S/S reagent introduction and prepare site to facilitate waste processing. Care will be taken to maintain containment of waste throughout all phases of processing.
- SBI will prepare and deliver cementitious S/S reagents to site, which will be added to the waste in pit in amounts determined by previous bench scale waste sample processing.
- SBI will perform the cement based S/S process, commercially known as the SOLI-BOND® Process, on waste in-situ in order to chemically solidify the waste and immobilize target constituents of concern within the processed material.
- The pit will be successively divided into treatment chambers or "cells" as the process is applied and each subsequent cell will overlap the previous to ensure that all pit contents are processed.
- After all waste has been processed, SBI will collect a composite sample of the processed material and submit samples to accredited third party laboratory for analysis to verify that processed material complies with that indicated in "Performance Criteria" section herein.
- SBI will then place native soil over the SOLI-BOND® processed material to backfill pit to rough grade, constituting its final onsite disposal. Soil for backfilling will be taken from excavated spoils stockpiled adjacent to OBMC pit by Client.
- SBI will then promptly de-mobilize SBI equipment and personnel, concluding SBI's operations at worksite.

PERFORMANCE CRITERIA

The SOLI-BOND® Processed waste will comply with the following criteria:

1. Leachable Oil and Grease less than 10 mg/L, determined by EPA method 418.1 or 8015*.
2. Leachable Total Dissolved Solids (Salts) less than 5,000 mg/L*
3. "Federal 8" metals at or below Federal leaching limits for S/S via TCLP method 1311 testing

* Criteria levels for 1 & 2 above measured in extraction fluid from Wyoming Leachate Test.

Processed waste compliance with performance criteria will be certified by third party testing laboratory on composite sample of the processed waste utilizing the appropriate tests. Laboratory test results will be documented in a SBI report (Closure Report) furnished to Client and the appropriate regulatory agencies as required after completion of the project. SBI Closure Report provides Client and regulatory agencies with documentation that the waste was treated and disposed of in accordance with applicable criteria and rules.

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SOLI-BOND® PROCESS

The SOLI-BOND® Solidification/Stabilization ("S/S") Process involves the controlled addition of a specially blended, Portland-cement-based reagent to a waste, followed by thorough mixing of reagent with waste to form homogeneous slurry. Hydrocarbons and/or chlorides in the waste, if present, are broken up into very small droplets or particles and these particles are dispersed throughout the reagent/waste mixture during the mixing phase. After the mixing phase, an irreversible chemical reaction occurs between the cementitious reagent and water present in (or added to) the waste causing the reagent/waste mixture to be rapidly transformed into a solid granular material. The previously dispersed and isolated particles then become immobilized to a very high degree within the interlocked cementitious lattice of each solidified granule. This waste treatment process permanently prevents hydrocarbons or chlorides from re-coalescing within the processed waste form and reduces their release to the surrounding environment to insignificant rates. Chemical properties imparted by the process also stabilize various metals, if present, by transforming them into less-soluble forms. This in conjunction with the physical entrapment of metals within each solidified granule greatly reduces their availability to the surrounding environment as well. In summary the SOLI-BOND® Process rapidly transforms physically unstable waste into a stable solid material and reduces the leaching rate of target constituents of concern to such a degree that they can no longer cause harm to the surrounding environment.

The SOLI-BOND® Process can also be applied to quickly solidify innocuous oilfield wastes such as spent fresh-water-based drilling fluids, and the physically unstable drill cuttings separated from such fluids. Rapidly transforming the *physical* properties of an innocuous waste from a liquid or semi-solid state into a dry granular material with load bearing capability can be the sole reason for using the SOLI-BOND® Process. Appling the process to such waste contained in onsite pits allows pit closure in days instead of months. The process can also be used to quickly solidify waste during drilling for "Closed Loop" operations, allowing the waste to be safely stockpiled for later onsite burial, or more easily transported and disposed of offsite. Utilizing the SOLI-BOND® Process for these and other applications can help operators achieve environmental objectives and reduce the risks and costs associated with the handling, transport and disposal of exploration and production waste.

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CONFIDENTIAL

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

Name of Company: **PIONEER NATURAL RESOURCES USA, INC**

Well Name: **S HILLS FEDERAL 6-1**

Api No: **43-023-30021** Lease Type **FEDERAL**

Section **06** Township **16S** Range **01W** County **JUAB**

Drilling Contractor **PETE MARTIN DRLG** RIG # **RATHOLE**

SPUDDED:

Date **08/29/2010**

Time **9:00 PM**

How **DRY**

Drilling will Commence:

Reported by **JOY ZIEGLER**

Telephone # **(303) 675-2663**

Date **08/31/2010** **Signed** **CHD**

CONFIDENTIAL FORM 6

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

ENTITY ACTION FORM

Operator: Pioneer Natural Resources USA, Inc. Operator Account Number: N 5155

Address: 1401 17th Street - Suite 1200

city Denver

state CO zip 80202 Phone Number: (303) 675-2663

Well 1

Lot 46

API Number	Well Name	QQ	Sec	Twp	Rng	County
4302330021	South Hills Federal 6-1		6	16S	1W	Juab

Action Code	Current Entity Number	New Entity Number	Spud Date	Entity Assignment Effective Date
A	99999	17763	8/29/2010	8/31/10

Comments: QQ = Lot 46 CHIN CONFIDENTIAL

Well 2

API Number	Well Name	QQ	Sec	Twp	Rng	County

Action Code	Current Entity Number	New Entity Number	Spud Date	Entity Assignment Effective Date

Comments:

Well 3

API Number	Well Name	QQ	Sec	Twp	Rng	County

Action Code	Current Entity Number	New Entity Number	Spud Date	Entity Assignment Effective Date

Comments:

ACTION CODES:
- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (Explain in 'comments' section)

Joy A. Ziegler
Name (Please Print)

Signature

Senior Engineering Tech
Title

8/30/2010
Date

RECEIVED
AUG 30 2010
DIV. OF OIL, GAS & MINING

(5/2000)

API Well No: 43023300210000

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-84003

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME: SOUTH HILLS

1. TYPE OF WELL Oil Well

8. WELL NAME and NUMBER: S HILLS FED 6-1

2. NAME OF OPERATOR: PIONEER NATURAL RESOURCES USA, INC

9. API NUMBER: 43023300210000

3. ADDRESS OF OPERATOR: 1401 17th Street, Suite 1200 , Denver, CO, 80202

PHONE NUMBER: 303 298-8100 Ext

9. FIELD and POOL or WILDCAT: WILDCAT

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1552 FSL 3171 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: LT46 Section: 06 Township: 16.0S Range: 01.0W Meridian: S

COUNTY: JUAB

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
✓ DRILLING REPORT Report Date: 9/30/2010	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

8/30/10 MIRU Pete Martins Rat Hole rig - set 30" conductor @ 105', cmt'd w/15 yds cmt. Notified Carol Daniels, UDOGM, of spud. 8/31-9/23/10 MIRU Nabors rig #169 - Drld 17-1/2" hole to 168' & drlg ahead. 9/25/10/01/10 Circulating & drlg 17-1/2" hole to 3447'. "C O N F I D E N T I A L"

Accepted by the Utah Division of Oil, Gas and Mining

FOR RECORD ONLY
October 14, 2010

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Joy A. Ziegler	303 675-2663	Senior Engineering Tech
SIGNATURE N/A		**DATE** 10/12/2010

RECEIVED October 12, 2010

Federal Approval of this Action is Necessary

API Well No: 43023300210000

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER:
UTU-84003

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME:
SOUTH HILLS

1. TYPE OF WELL
Oil Well

8. WELL NAME and NUMBER:
S HILLS FED 6-1

2. NAME OF OPERATOR:
PIONEER NATURAL RESOURCES USA, INC

9. API NUMBER:
43023300210000

3. ADDRESS OF OPERATOR:
1401 17th Street, Suite 1200 , Denver, CO, 80202

PHONE NUMBER:
303 298-8100 Ext

9. FIELD and POOL or WILDCAT:
WILDCAT

4. LOCATION OF WELL
FOOTAGES AT SURFACE:
1552 FSL 3171 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
Qtr/Qtr: LT46 Section: 06 Township: 16.0S Range: 01.0W Meridian: S

COUNTY:
JUAB

STATE:
UTAH

11.
CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
✓ **NOTICE OF INTENT** Approximate date work will start: 10/22/2010	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ **SUBSEQUENT REPORT** Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
☐ **SPUD REPORT** Date of Spud:	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ **DRILLING REPORT** Report Date:	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	✓ OTHER	OTHER: Road Dust Control

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

See attached file for using pit water for access road dust control. Water analysis also attached.

Approved by the Utah Division of Oil, Gas and Mining

Date: October 21, 2010

By:

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Joy A. Ziegler	303 675-2663	Senior Engineering Tech

SIGNATURE	DATE
N/A	10/20/2010

RECEIVED October 20, 2010

The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Sundry Conditions of Approval Well Number 43023300210000

Application of water to the road will be done in a manner that prevents water from running off the road surface and on to adjacent lands. This is a one- time approval for use to control dust and to empty the reserve pit. Federal approval of this action is also required.

Approved by the
Utah Division of
Oil, Gas and Mining

Date: October 21, 2010

By:

CONFIDENTIAL

UDOGM Sundry
10/20/2010
Pioneer Natural Resources USA, Inc.
Request To Use Pit Water For Access Road

Per the telephone conversation between Dan Jarvis, UDOGM, & Joy Ziegler, Pioneer, on 10/20/10:

Pioneer Natural Resources is requesting approval (as stated, this will be a one-time request) to use the wtr in the pit as road dust control on the access road (and well pad if necessary) on the South Hills Federal 6-1 well. The water is currently stored in the two large cells of the reserve pit, the third cell is used for the OBM drill cuttings. The volume in the pits is approx 10,000 BW. This wtr came from Yuba Lake & was originally being stored for mass losses; however, no such losses have occurred & part of the water was used to circ the shallow formation in the drlg of the well. Please note that the geology in the upper formation is the same geology as Yuba Lake which is 3-1/2 to 4 miles away. No hydrocarbons or contaminations are in the wtr, see the attached pit wtr & lake wtr analysis.

The water will not be necessary to use while drlg as Pioneer has switched over to an oil base mud system (BLM approved) to complete the drlg – the BLM required a 20 mil # liner over the 12 mil # liner in the pit which is currently used for drill cuttings.

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Chemtech-Ford Laboratories

Certificate of Analysis

www.chemtechford.com

Lab Sample No.: 1008330-01

Name:	Norwest Corporation	**Sample Date:**	10/8/2010 1:00 PM
Sample Site:	Pit 1	**Receipt Date:**	10/8/2010 4:00 PM
Comments:		**Sampler:**	Aleta Brown
Sample Type:	Water	**Source Code:**	**System No.:**

Parameter	Sample Result	Minimum Reporting Limit	Units	Analysis Date/Time	Analyst Initials	Analytical Method	Flag
Inorganic							
Alkalinity - Bicarbonate	448	1.0	mg/L	10/12/2010 11:00	TSM	SM 2320 B	
Alkalinity - Carbonate	ND	1.0	mg/L	10/12/2010 11:00	TSM	SM 2320 B	
Alkalinity - CO2	328	1.0	mg/L	10/12/2010 11:00	TSM	SM 2320 B	
Alkalinity - Hydroxide	ND	1.0	mg/L	10/12/2010 11:00	TSM	SM 2320 B	
Alkalinity - Total (as CaCO3)	368	1.0	mg/L	10/12/2010 11:00	TSM	SM 2320 B	
Bromide	0.3	0.01	mg/L	10/9/2010 9:15	TSM	EPA 300.0	
Chloride	350	20	mg/L	10/9/2010 9:15	TSM	EPA 300.0	
Conductivity	2490	1	umhos/cm	10/12/2010 14:00	TJS	EPA 120.1	
Fluoride	0.7	0.1	mg/L	10/9/2010 9:15	TSM	EPA 300.0	
pH	8.0	0.1	pH Units	10/8/2010 17:00	JSH	SM 4500 H-B	SPH
Specific Gravity	0.99	0.001	g/mL	10/12/2010 13:00	TJS	SM 2710 F	
Sulfate	370	20	mg/L	10/9/2010 9:15	TSM	EPA 300.0	
Total Dissolved Solids (TDS)	1640	20	mg/L	10/12/2010 9:34	JSH	SM 2540 C	
TRPH	31	5	mg/L	10/15/2010 10:00	PM	EPA 1664A	
Total Suspended Solids (TSS)	129	10	mg/L	10/13/2010 10:38	JSH	SM 2540 D	
Metals							
Arsenic, Total	0.0105	0.0005	mg/L	10/15/2010 13:11	MJB	EPA 200.8	
Boron, Total	0.50	0.05	mg/L	10/15/2010 13:39	MJB	EPA 200.7	
Calcium, Dissolved	36.2	0.2	mg/L	10/15/2010 13:35	MJB	EPA 200.7	
Chromium, Total	0.006	0.005	mg/L	10/15/2010 13:39	MJB	EPA 200.7	
Copper, Total	0.0255	0.0010	mg/L	10/15/2010 13:11	MJB	EPA 200.8	
Iron, Dissolved	1.51	0.02	mg/L	10/15/2010 13:35	MJB	EPA 200.7	
Iron, Total	3.46	0.02	mg/L	10/15/2010 13:39	MJB	EPA 200.7	
Magnesium, Dissolved	11.8	0.2	mg/L	10/15/2010 13:35	MJB	EPA 200.7	
Manganese, Dissolved	0.045	0.005	mg/L	10/15/2010 13:35	MJB	EPA 200.7	
Manganese, Total	0.103	0.005	mg/L	10/15/2010 13:39	MJB	EPA 200.7	
Potassium, Total	18.7	0.2	mg/L	10/15/2010 13:39	MJB	EPA 200.7	
Selenium, Total	0.0023	0.0005	mg/L	10/15/2010 13:11	MJB	EPA 200.8	
Sodium, Dissolved	464	0.5	mg/L	10/15/2010 13:35	MJB	EPA 200.7	

6100 South Stratler
Murray, UT 84107
801-262-7299 Office

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Chemtech-Ford Laboratories

Certificate of Analysis

www.chemtechford.com

Lab Sample No.: 1008330-01

Name:	**Norwest Corporation**	***Sample Date:***	10/8/2010 1:00 PM
Sample Site:	Pit 1	***Receipt Date:***	10/8/2010 4:00 PM
Comments:		***Sampler:***	Aleta Brown
Sample Type:	Water	***Source Code:***	***System No.:***

Parameter	Sample Result	Minimum Reporting Limit	Units	Analysis Date/Time	Analyst Initials	Analytical Method	Flag
Diesel Range							
Diesel Range Organics	ND	5.0	mg/L	10/11/2010 13:58	RB	EPA 8015B	
BETX Compounds							
Benzene	ND	0.002	mg/L	10/12/2010 17:56	RB	EPA 8260B	
Ethylbenzene	ND	0.005	mg/L	10/12/2010 17:56	RB	EPA 8260B	
Methyl-tert-butyl ether (MTBE)	ND	0.005	mg/L	10/12/2010 17:56	RB	EPA 8260B	
Naphthalene	ND	0.010	mg/L	10/12/2010 17:56	RB	EPA 8260B	
Toluene	ND	0.005	mg/L	10/12/2010 17:56	RB	EPA 8260B	
Xylenes, total	ND	0.005	mg/L	10/12/2010 17:56	RB	EPA 8260B	

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Certificate of Analysis

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Lab Sample No.: 1008330-02

Name:	Norwest Corporation	**Sample Date:**	10/8/2010 1:00 PM
Sample Site:	Pit 2	**Receipt Date:**	10/8/2010 4:00 PM
Comments:		**Sampler:**	Aleta Brown
Sample Type:	Water	**Source Code:**	**System No.:**

Parameter	Sample Result	Minimum Reporting Limit	Units	Analysis Date/Time	Analyst Initials	Analytical Method	Flag
Inorganic							
Alkalinity - Bicarbonate	449	1.0	mg/L	10/12/2010 11:00	TSM	SM 2320 B	
Alkalinity - Carbonate	ND	1.0	mg/L	10/12/2010 11:00	TSM	SM 2320 B	
Alkalinity - CO2	331	1.0	mg/L	10/12/2010 11:00	TSM	SM 2320 B	
Alkalinity - Hydroxide	ND	1.0	mg/L	10/12/2010 11:00	TSM	SM 2320 B	
Alkalinity - Total (as CaCO3)	368	1.0	mg/L	10/12/2010 11:00	TSM	SM 2320 B	
Bromide	0.3	0.01	mg/L	10/9/2010 9:15	TSM	EPA 300.0	
Chloride	350	20	mg/L	10/9/2010 9:15	TSM	EPA 300.0	
Conductivity	2470	1	umhos/cm	10/12/2010 14:00	TJS	EPA 120.1	
Fluoride	0.7	0.1	mg/L	10/9/2010 9:15	TSM	EPA 300.0	
pH	7.9	0.1	pH Units	10/8/2010 17:00	JSH	SM 4500 H-B	SPH
Specific Gravity	0.99	0.001	g/mL	10/12/2010 13:00	TJS	SM 2710 F	
Sulfate	360	20	mg/L	10/9/2010 9:15	TSM	EPA 300.0	
Total Dissolved Solids (TDS)	1520	20	mg/L	10/12/2010 9:36	JSH	SM 2540 C	
TRPH	20	5	mg/L	10/15/2010 10:00	PM	EPA 1664A	
Total Suspended Solids (TSS)	209	10	mg/L	10/13/2010 10:40	JSH	SM 2540 D	
Metals							
Arsenic, Total	0.0104	0.0005	mg/L	10/15/2010 13:14	MJB	EPA 200.8	
Boron, Total	0.41	0.05	mg/L	10/15/2010 13:47	MJB	EPA 200.7	
Calcium, Dissolved	43.9	0.2	mg/L	10/15/2010 13:42	MJB	EPA 200.7	
Chromium, Total	0.005	0.005	mg/L	10/15/2010 13:47	MJB	EPA 200.7	
Copper, Total	0.0253	0.0010	mg/L	10/15/2010 13:14	MJB	EPA 200.8	
Iron, Dissolved	1.86	0.02	mg/L	10/15/2010 13:42	MJB	EPA 200.7	
Iron, Total	3.02	0.02	mg/L	10/15/2010 13:47	MJB	EPA 200.7	
Magnesium, Dissolved	12.9	0.2	mg/L	10/15/2010 13:42	MJB	EPA 200.7	
Manganese, Dissolved	0.070	0.005	mg/L	10/15/2010 13:42	MJB	EPA 200.7	
Manganese, Total	0.092	0.005	mg/L	10/15/2010 13:47	MJB	EPA 200.7	
Potassium, Total	17.6	0.2	mg/L	10/15/2010 13:47	MJB	EPA 200.7	
Selenium, Total	0.0023	0.0005	mg/L	10/15/2010 13:14	MJB	EPA 200.8	
Sodium, Dissolved	469	0.5	mg/L	10/15/2010 13:42	MJB	EPA 200.7	

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801-262-7299 Office

RECEIVED October 20, 2010

Chemtech-Ford Laboratories

Certificate of Analysis

www.chemtechford.com

Lab Sample No.: 1008330-02

Name:	**Norwest Corporation**	***Sample Date:***	10/8/2010 1:00 PM
Sample Site:	Pit 2	***Receipt Date:***	10/8/2010 4:00 PM
Comments:		***Sampler:***	Aleta Brown
Sample Type:	Water	***Source Code:***	***System No.:***

Parameter	Sample Result	Minimum Reporting Limit	Units	Analysis Date/Time	Analyst Initials	Analytical Method	Flag
Diesel Range							
Diesel Range Organics	ND	5.0	mg/L	10/11/2010 14:24	RB	EPA 8015B	
BETX Compounds							
Benzene	ND	0.002	mg/L	10/12/2010 18:39	RB	EPA 8260B	
Ethylbenzene	ND	0.005	mg/L	10/12/2010 18:39	RB	EPA 8260B	
Methyl-tert-butyl ether (MTBE)	ND	0.005	mg/L	10/12/2010 18:39	RB	EPA 8260B	
Naphthalene	ND	0.010	mg/L	10/12/2010 18:39	RB	EPA 8260B	
Toluene	ND	0.005	mg/L	10/12/2010 18:39	RB	EPA 8260B	
Xylenes, total	ND	0.005	mg/L	10/12/2010 18:39	RB	EPA 8260B	

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Chemtech-Ford Laboratories

Certificate of Analysis

www.chemtechford.com

Lab Sample No.: 1008330-03

Name:	Norwest Corporation	**Sample Date:**	10/8/2010 1:00 PM
Sample Site:	Lake 1	**Receipt Date:**	10/8/2010 4:00 PM
Comments:		**Sampler:**	Aleta Brown
Sample Type:	Water	**Source Code:**	**System No.:**

Parameter	Sample Result	Minimum Reporting Limit	Units	Analysis Date/Time	Analyst Initials	Analytical Method	Flag
Inorganic							
Alkalinity - Bicarbonate	294	1.0	mg/L	10/12/2010 11:00	TSM	SM 2320 B	
Alkalinity - Carbonate	8.0	1.0	mg/L	10/12/2010 11:00	TSM	SM 2320 B	
Alkalinity - CO2	221	1.0	mg/L	10/12/2010 11:00	TSM	SM 2320 B	
Alkalinity - Hydroxide	ND	1.0	mg/L	10/12/2010 11:00	TSM	SM 2320 B	
Alkalinity - Total (as CaCO3)	254	1.0	mg/L	10/12/2010 11:00	TSM	SM 2320 B	
Bromide	0.3	0.01	mg/L	10/9/2010 9:15	TSM	EPA 300.0	
Chloride	310	10	mg/L	10/9/2010 9:15	TSM	EPA 300.0	
Conductivity	1990	1	umhos/cm	10/12/2010 14:00	TJS	EPA 120.1	
Fluoride	0.4	0.1	mg/L	10/9/2010 9:15	TSM	EPA 300.0	
pH	8.5	0.1	pH Units	10/8/2010 17:00	JSH	SM 4500 H-B	SPH
Specific Gravity	1.00	0.001	g/mL	10/12/2010 13:00	TJS	SM 2710 F	
Sulfate	280	10	mg/L	10/9/2010 9:15	TSM	EPA 300.0	
Total Dissolved Solids (TDS)	1160	20	mg/L	10/12/2010 9:38	JSH	SM 2540 C	
TRPH	ND	5	mg/L	10/15/2010 10:00	PM	EPA 1664A	
Total Suspended Solids (TSS)	12	4	mg/L	10/13/2010 10:42	JSH	SM 2540 D	
Metals							
Arsenic, Total	0.0077	0.0005	mg/L	10/15/2010 13:18	MJB	EPA 200.8	
Boron, Total	0.35	0.05	mg/L	10/15/2010 13:54	MJB	EPA 200.7	
Calcium, Dissolved	42.6	0.2	mg/L	10/15/2010 13:51	MJB	EPA 200.7	
Chromium, Total	ND	0.005	mg/L	10/15/2010 13:54	MJB	EPA 200.7	
Copper, Total	0.0072	0.0010	mg/L	10/15/2010 13:18	MJB	EPA 200.8	
Iron, Dissolved	0.14	0.02	mg/L	10/15/2010 13:51	MJB	EPA 200.7	
Iron, Total	0.18	0.02	mg/L	10/15/2010 13:54	MJB	EPA 200.7	
Magnesium, Total	60.8	0.2	mg/L	10/15/2010 13:54	MJB	EPA 200.7	
Manganese, Dissolved	ND	0.005	mg/L	10/15/2010 13:51	MJB	EPA 200.7	
Manganese, Total	0.008	0.005	mg/L	10/15/2010 13:54	MJB	EPA 200.7	
Potassium, Total	7.1	0.2	mg/L	10/15/2010 13:54	MJB	EPA 200.7	
Selenium, Total	0.0017	0.0005	mg/L	10/15/2010 13:18	MJB	EPA 200.8	
Sodium, Dissolved	246	0.5	mg/L	10/15/2010 13:51	MJB	EPA 200.7	

6100 South Stratler
Murray, UT 84107
801-262-7299 Office

RECEIVED October 20, 2010

Chemtech-Ford Laboratories

Certificate of Analysis

www.chemtechford.com

Lab Sample No.: 1008330-03

Name:	**Norwest Corporation**	***Sample Date:***	10/8/2010 1:00 PM
Sample Site:	Lake 1	***Receipt Date:***	10/8/2010 4:00 PM
Comments:		***Sampler:***	Aleta Brown
Sample Type:	Water	***Source Code:***	***System No.:***

Parameter	Sample Result	Minimum Reporting Limit	Units	Analysis Date/Time	Analyst Initials	Analytical Method	Flag
Diesel Range							
Diesel Range Organics	ND	5.0	mg/L	10/11/2010 14:51	RB	EPA 8015B	
BETX Compounds							
Benzene	ND	0.002	mg/L	10/12/2010 19:22	RB	EPA 8260B	
Ethylbenzene	ND	0.005	mg/L	10/12/2010 19:22	RB	EPA 8260B	
Methyl-tert-butyl ether (MTBE)	ND	0.005	mg/L	10/12/2010 19:22	RB	EPA 8260B	
Naphthalene	ND	0.010	mg/L	10/12/2010 19:22	RB	EPA 8260B	
Toluene	ND	0.005	mg/L	10/12/2010 19:22	RB	EPA 8260B	
Xylenes, total	ND	0.005	mg/L	10/12/2010 19:22	RB	EPA 8260B	

6100 South Stratler
Murray, UT 84107
801-262-7299 Office

RECEIVED October 20, 2010

Chemtech-Ford Laboratories

Certificate of Analysis

www.chemtechford.com

Lab Sample No.: 1008330-04

Name:	Norwest Corporation	**Sample Date:**	10/8/2010 1:00 PM
Sample Site:	Lake 2	**Receipt Date:**	10/8/2010 4:00 PM
Comments:		**Sampler:**	Aleta Brown
Sample Type:	Water	**Source Code:**	**System No.:**

Parameter	Sample Result	Minimum Reporting Limit	Units	Analysis Date/Time	Analyst Initials	Analytical Method	Flag
Inorganic							
Alkalinity - Bicarbonate	294	1.0	mg/L	10/12/2010 11:00	TSM	SM 2320 B	
Alkalinity - Carbonate	9.0	1.0	mg/L	10/12/2010 11:00	TSM	SM 2320 B	
Alkalinity - CO2	223	1.0	mg/L	10/12/2010 11:00	TSM	SM 2320 B	
Alkalinity - Hydroxide	ND	1.0	mg/L	10/12/2010 11:00	TSM	SM 2320 B	
Alkalinity - Total (as CaCO3)	256	1.0	mg/L	10/12/2010 11:00	TSM	SM 2320 B	
Bromide	0.3	0.01	mg/L	10/9/2010 9:15	TSM	EPA 300.0	
Chloride	330	10	mg/L	10/9/2010 9:15	TSM	EPA 300.0	
Conductivity	1990	1	umhos/cm	10/12/2010 14:00	TJS	EPA 120.1	
Fluoride	0.4	0.1	mg/L	10/9/2010 9:15	TSM	EPA 300.0	
pH	8.5	0.1	pH Units	10/8/2010 17:00	JSH	SM 4500 H-B	SPH
Specific Gravity	0.99	0.001	g/mL	10/12/2010 13:00	TJS	SM 2710 F	
Sulfate	280	10	mg/L	10/9/2010 9:15	TSM	EPA 300.0	
Total Dissolved Solids (TDS)	1170	20	mg/L	10/12/2010 9:40	JSH	SM 2540 C	
TRPH	ND	5	mg/L	10/15/2010 10:00	PM	EPA 1664A	
Total Suspended Solids (TSS)	13	4	mg/L	10/13/2010 10:44	JSH	SM 2540 D	
Metals							
Arsenic, Total	0.0076	0.0005	mg/L	10/15/2010 13:21	MJB	EPA 200.8	
Boron, Total	0.35	0.05	mg/L	10/15/2010 14:09	MJB	EPA 200.7	
Calcium, Dissolved	44.1	0.2	mg/L	10/15/2010 14:06	MJB	EPA 200.7	
Chromium, Total	ND	0.005	mg/L	10/15/2010 14:09	MJB	EPA 200.7	
Copper, Total	0.0066	0.0010	mg/L	10/15/2010 13:21	MJB	EPA 200.8	
Iron, Dissolved	0.17	0.02	mg/L	10/15/2010 14:06	MJB	EPA 200.7	
Iron, Total	0.18	0.02	mg/L	10/15/2010 14:09	MJB	EPA 200.7	
Magnesium, Dissolved	61.5	0.2	mg/L	10/15/2010 14:06	MJB	EPA 200.7	
Manganese, Dissolved	ND	0.005	mg/L	10/15/2010 14:06	MJB	EPA 200.7	
Manganese, Total	0.007	0.005	mg/L	10/15/2010 14:09	MJB	EPA 200.7	
Potassium, Total	7.5	0.2	mg/L	10/15/2010 14:09	MJB	EPA 200.7	
Selenium, Total	0.0015	0.0005	mg/L	10/15/2010 13:21	MJB	EPA 200.8	
Sodium, Dissolved	271	0.5	mg/L	10/15/2010 14:06	MJB	EPA 200.7	

6100 South Stratler
Murray, UT 84107
801-262-7299 Office

RECEIVED October 20, 2010

Chemtech-Ford Laboratories

Certificate of Analysis

Lab Sample No.: 1008330-04

Name:	**Norwest Corporation**	***Sample Date:***	10/8/2010 1:00 PM
Sample Site:	Lake 2	***Receipt Date:***	10/8/2010 4:00 PM
Comments:		***Sampler:***	Aleta Brown
Sample Type:	Water	***Source Code:***	***System No.:***

Parameter	Sample Result	Minimum Reporting Limit	Units	Analysis Date/Time	Analyst Initials	Analytical Method	Flag
Diesel Range							
Diesel Range Organics	ND	5.0	mg/L	10/11/2010 15:17	RB	EPA 8015B	
BETX Compounds							
Benzene	ND	0.002	mg/L	10/12/2010 20:04	RB	EPA 8260B	
Ethylbenzene	ND	0.005	mg/L	10/12/2010 20:04	RB	EPA 8260B	
Methyl-tert-butyl ether (MTBE)	ND	0.005	mg/L	10/12/2010 20:04	RB	EPA 8260B	
Naphthalene	ND	0.010	mg/L	10/12/2010 20:04	RB	EPA 8260B	
Toluene	ND	0.005	mg/L	10/12/2010 20:04	RB	EPA 8260B	
Xylenes, total	ND	0.005	mg/L	10/12/2010 20:04	RB	EPA 8260B	

6100 South Stratler
Murray, UT 84107
801-262-7299 Office

RECEIVED October 20, 2010

API Well No: 43023300210000

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-84003

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME: SOUTH HILLS

1. TYPE OF WELL Oil Well

8. WELL NAME and NUMBER: S HILLS FED 6-1

2. NAME OF OPERATOR: PIONEER NATURAL RESOURCES USA, INC

9. API NUMBER: 43023300210000

3. ADDRESS OF OPERATOR: 1401 17th Street, Suite 1200 , Denver, CO, 80202

PHONE NUMBER: 303 298-8100 Ext

9. FIELD and POOL or WILDCAT: WILDCAT

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1552 FSL 3171 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: LT46 Section: 06 Township: 16.0S Range: 01.0W Meridian: S

COUNTY: JUAB

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
✓ DRILLING REPORT Report Date: 10/31/2010	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

See attached file for drilling summary for the month of October 2010.

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY
November 03, 2010

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Joy A. Ziegler	303 675-2663	Senior Engineering Tech
SIGNATURE N/A		**DATE** 11/3/2010

RECEIVED November 03, 2010

Sundry Notice And Reports On Wells
South Hills Federal 6-1
API No. 43023300210000

CONFIDENTIAL

Drilling Report – 10/31/2010
Month of October 2010

10/1 – 10/09	Drld 17-1/2" hole to 4345' – Avg mud properties: MW: 8.5, pH 8.5, YP 13. Top Of Arapien Formation @ 4320'.
10/10 – 10/13	Ran 95 jts, 4345', of 13-3/8", 68# csg. 1st 2 jts were K-55, 68# buttress followed by 22 jts of L80, 68# csg then 71 jts K-55, 68#, shoe @ 4345', FC @ 4296', top of stage tool @ 2167', btm @ 2169. RU Halliburton, pmp'd lead w/50 bbls 9.4# reactive spacer, super flush 102 & 20 bbl gel wtr spacer @ 8.5#, followed w/1065 sx (373 bbls) of Halliburton Type 5 cmt, 12.5#, 1.97 yld, 10.35 gl/sx. Tail w/230 sx (54 bbls) Halliburton Type 3, 14.8# 1.32 yld, 6.32 gal/sx. Pmp'd 40 bbls cmt to surface, cut off, installed WH. NU. Tstd BOP to 5000#, tstd csg & DV tool @ 2167' to 2400 psi, ok.
10-15	Drld out DV tool, wash & circ, drld 12-1/4" intermediate hole to 4355' – circ & prep surf facilities to convert to oil base mud.
10/16 – 10/31	Drld 12-1/4" hole to 5958' w/losses – ran out of base oil, POH to shoe & waited on fluid. MW: 9.1, VIS 40, YP 8.

RECEIVED November 03, 2010

API Well No: 43023300210000

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

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5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-84003

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME: SOUTH HILLS

1. TYPE OF WELL Oil Well

8. WELL NAME and NUMBER: S HILLS FED 6-1

2. NAME OF OPERATOR: PIONEER NATURAL RESOURCES USA, INC

9. API NUMBER: 43023300210000

3. ADDRESS OF OPERATOR: 1401 17th Street, Suite 1200 , Denver, CO, 80202

PHONE NUMBER: 303 298-8100 Ext

9. FIELD and POOL or WILDCAT: WILDCAT

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1552 FSL 3171 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: LT46 Section: 06 Township: 16.0S Range: 01.0W Meridian: S

COUNTY: JUAB

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
✓ DRILLING REPORT Report Date: 11/30/2010	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

See attached file for the drilling summary for the month of November 2010.
"CONFIDENTIAL"

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY
12/6/2010

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Joy A. Ziegler	303 675-2663	Senior Engineering Tech
SIGNATURE N/A		**DATE** 12/1/2010

RECEIVED December 01, 2010

Sundry Notice And Reports On Wells
South Hills Federal 6-1
API No. 43023300210000

CONFIDENTIAL

Drilling Report – 12/01/2010
Month of November 2010

11/01 – 11/03	5977' - Circ'd & washed to btm – rig service – drlg ahead
11/04 – 11/06	6028' – TOH for new bit – TIH to cln to btm of hole – POH for new bit.
11/07 – 11/13	6605' – Tested BOP, ok. – reamed 12-1/4" hole – changed bit – TIH to resume drlg ahead. MW: 9, VIS 49, YP 16
11/14 – 11/20	7125' - Drlg 12-1/4" hole. Reamed & rig service – circ'd btms up & changed bit. MW: 9, VIS 55, YP 16
11/21 – 11/22	7300' - Drld 12-1/4" hole. POH & RU Halliburton Wireline Truck. MW: 9, VIS 55, YP 18.
11/23 – 11/27	7300' – Halliburton ran Triple Combo, Wave Sonic, VSP. Found surface csg depth @ 4336'. Logged from 7287'-4336'. Rig service.
11/28 – 11/30	7554'. TIH, monitoring all connections. Tst'd BOP's & related eqpt to 250 psi, low, & 5000 psi, high, for 10 minutes per BLM specs. Drlg ahead. MW: 9, VIS 59, YP 17

RECEIVED December 01, 2010

API Well No: 43023300210000

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

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5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-84003

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME: SOUTH HILLS

1. TYPE OF WELL Oil Well

8. WELL NAME and NUMBER: S HILLS FED 6-1

2. NAME OF OPERATOR: PIONEER NATURAL RESOURCES USA, INC

9. API NUMBER: 43023300210000

3. ADDRESS OF OPERATOR: 1401 17th Street, Suite 1200 , Denver, CO, 80202

PHONE NUMBER: 303 298-8100 Ext

9. FIELD and POOL or WILDCAT: WILDCAT

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1552 FSL 3171 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: LT46 Section: 06 Township: 16.0S Range: 01.0W Meridian: S

COUNTY: JUAB

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
✓ DRILLING REPORT Report Date: 12/31/2010	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
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	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

See attached file for the drilling summary for the month of December 2010.
"CONFIDENTIAL"

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY
01/12/2011

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Joy A. Ziegler	303 675-2663	Senior Engineering Tech
SIGNATURE N/A		**DATE** 1/7/2011

RECEIVED January 07, 2011

UDOGM FORM 9

Pioneer Natural Resources
South Hills Federal 6-1
Lot 46, Sec. 6, T16S-R1W
Juab County, UT
API No. 43-023-30021

12/01 Thru 12/03 — 8257' Drld 12-1/4" hole from 7554' to 8257'. Avg MW: 9, VIS 56, YP 18.

12/04 — 8257' Circ'g for logging - Notified Randy Knight w/SLC BLM of logging, running 9-7/8" csg & cmt'g.

12/05 — 8257' RU Halliburton wireline & logged well w/Triple Combo & dipmeter - RD Halliburton - 8257' TD of Intermediate hole.

12/06 Thru 12/07 — 8257' Running 9-7/8" csg - Eric Burnett, Pioneer, received verbal approval from Al McKee, SLC BLM, 12/5/10 to pump conventional cmt slurry in place of foam cmt as per original drlg plan. Ran 9-7/8" P-110, 62.80# BTC csg - set @ 8247'. Halliburton pmp'd 3 bbls tuned spacer, tstd lines to 5000 psi, tstd positive. Dropped btm plug, pmp'd 40 bbls of tuned spacer ahead. Lead in w/430 sx of Extenacem (tm) system - slurry wgt 11.0 ppg, yld 3:14 cf/sx, wtr 18.71 gal/sx, slurry volume 240.5 bbls. Tailed in w/870 sx Versacem (tm) system, slurry wgt 13.5 ppg, yld 1.71 cf/sx, wtr 8.04 gal/sx, slurry volume 265 bbls. Bmpd plug @ 00:47 hrs 12/7/10 w/500 psi over displacing press (1900 psi - held ok). Estd TOC @ 738'

12/08 — 8257' Tstg CP, Notified Randy Knight w/BLM @ 7:59 12/7/10 of 9-7/8" csg FIT, verbal approval to proceed - Mr. Knight declined witnessing test.

12/09 — 8322' Drld cmt from 8147-8247' - cln out 12-1/4" shoe track to 8257' - circ'd. Drld 8-1/2" hole to 8322'. MW: 9, VIS 52, YP 10.

12/10 — 8338' Drld 8-1/2" hole - Circ'd btms up.

12/11 — 8395' Drlg ahead - MW: 9, VIS 53, YP 10.

12/12 — 8395' MU BHA, TIH, wash to bottom

12/13 — 8396' Drld 1' - POH to wash & ream to btm - TIH w/new BHA. MW: 9, VIS 61, YP 12.

12/14 Thru 12/17 — 8859' Drlg ahead - Washed & reamed, changed bits. MW: 9, VIS 53, WL 12

12/18 — 8887' Drld from 8859-8887' - POH for new bit. MW: 9, VIS 57, YP 12.

12/19 Thru 12/20 — 8891' Lost 3 cones on bit, fishing - recovered fish. Washed & reamed to btm - drld to 8891'. MW: 9, VIS 60, YP 12

12/21 Thru 12/23 — 9030' Drld to TD - washed & reamed to btm. MW: 9, VIS 55, YP 13. Eric Burnett, Pioneer, received verbal approval from Eric Jones & Randy Knight, both from BLM, 12/23/10 to P&A the well pending upon the results of the final logs. Verbal approval was also received from Dustin Doucet w/UDOGM.

12/24 — 9030' Halliburton Wire Line ran Quad Combo (GR/Neutron Density/Sonic/Resistivity/Caliper) from 9030-8247' & dipmeter from 9030-8247'.

RECEIVED January 07, 2011

PIONEER NATURAL RESOURCES
SOUTH HILLS FEDERAL 6-1
LOT 46, SEC 6, T16S, R1W
JUAB COUNTY, UT

API NO. 43-023-30021
LEASE NO. UTU-84003

Notification :
09: 24 hrs., Dec . 23, 2010
Obtained verbal approval to " P & A", per " Mr. Randy Knight" with BLM.
He stated he was aware of approval ,from Eric Jones', no problem .
He will not witness, send reports as dictated in rules & regulations.

09:35 hrs., Dec. 23, 2010
Obtained verbal approval to " P & A", per " Mr. Dustin Doucet" with "UDOGM".
He stated if " BLM" approved , no problem, proceed ahead, send reports.

Note : 12/26/2010 at 17:12 hours, Obtained verbal approval per "Mr. Randy Knight ", to set another plug on top of second P & A plug, to obtain, correct amount of cement plug to meet and or exceed BLM requirements.

First plug @ Td of 9,030' :
Held Safety ,and Operational meeting with Halliburton,and Nabor's crew.
Set first 500', " P & A" plug from 9,030' - 8,530' , per " BLM" requiremnts .
Note : Silicia flour in blend for staic temp of + 230 deg.
Note : + 10% over calculated volume, was utilized in calculations.
Cementing company : Halliburton , plug as below:
R/U ,and tested lines to 4,000 psi, tested positive.
Pumped : 32.45 bbls of 13.0 ppg., Tuned spacer III ahead, followed with 143 sks. of Class H + .4% HR- 5, 35% SSA-1

RECEIVED January 07, 2011

Yield : 1.52 gal/sk., water : 6.22 gal/sk., slurry wt. : 15.8 ppg., slurry volume : 38.6 bbls.
Pumped : 2.5 bbls of 13.0 ppg.,Tuned Spacer III behind.
Displaced with 130 bbls of 9.0 ppg. oil base mud .
Plug in place @ 12:51 hrs., 12/25/2010, from 9,030' - 8,530' .

Second plug :
Held Safety ,and Operational meeting with Halliburton,and Nabor's crew.
Set second 400', " P & A" plug from 8,530' - 8,130' , per " BLM" requirements .
Note : Silicia flour in blend for staic temp of + 230 deg.
Note : + 10% over calculated volume, was utilized in calculations.
Cementing company : Halliburton , plug as below:
R/U ,and tested lines to 4,000 psi, tested positive.
Pumped : 35 bbls of 13.0 ppg., Tuned spacer III ahead, followed with 113 sks. of Class H + .4% HR- 5, 35% SSA-1
Yield : 1.52 gal/sk., water : 6.22 gal/sk., slurry wt. : 15.8 ppg., slurry volume : 30.6 bbls.
Pumped : 7.87 bbls of 13.0 ppg.,Tuned Spacer III behind.
Displaced with 123 bbls of 9.0 ppg. oil base mud .
Plug in place @ 17:30 hrs., 12/25/2010, from 8,530' - 8,130' .
Total of first two plugs : 900' plug, set from : 9,030' - 8,130'....
Note : On second plug, Halliburton computer , was inoperable....

Third plug (due to second plug inter phase ,too short) :
Held Safety ,and Operational meeting with Halliburton,and Nabor's crew.
Set third 400', " P & A" plug from 8,326' - 7,926 , to exceed " BLM" requirements .
Cementing company : Halliburton , plug as below:
R/U ,and tested lines to 4,000 psi, tested positive.
Pumped : 67 bbls of " FW" ahead, followed with 115 sks. of Class H + .4% HR- 5, 35% SSA-1
Yield : 1.52 gal/sk., water : 6.22 gal/sk., slurry wt. : 15.8 ppg., slurry volume : 31 bbls.
Pumped : 10 bbls. of "FW' behind behind.
Displaced with 115 bbls of 9.9 ppg. brine water, with gel & biocide .
Plug in place @ 08:30 hrs., 12/27/2010, from 8,326' - 7,926' (400').

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Note : On third plug, Halliburton computer , was operable ....

Fourth Plug (at shoe of surface 13 3/8" , extra plug set to exceed BLM req.):
Held Safety ,and Operational meeting with Halliburton,and Nabor's crew.
Note : air lines on Halliburton truck frozen, (current : 10 degreees), defrost same, prior to pumping job.
Set fourth P & A plug : 276', " P & A" plug from 4,415' - 4,139' , to exceed " BLM" requirements .
Cementing company : Halliburton , plug as below:
R/U ,and tested lines to 4,000 psi, tested positive.
Pumped : 74 bbls of " FW" ahead, followed with 100 sks. of Class H Neat.
Yield : 1.15 gal/sk., water : 4.99 gal/sk., slurry wt. : 15.8 ppg., slurry volume : 20.4 bbls.
Pumped : 10 bbls. of "FW' behind behind.
Displaced with 47 bbls of 9.9 ppg. brine water, with gel & biocide .
Plug in place @ 03:50 hrs., 12/28/2010, from 4,415' - 4,139' (276').
Note : On fourth plug, Halliburton computer , was operable ....

Fifth plug @ Surface We set extra plug to exceed BLM Req., also set 50' inside of the 9 7/8" stump) :
Held Safety , and Operational meeting with Halliburton,and Nabor's crew.
Set fifth P & A plug : 105', " P & A" plug from 105' - 5' , below the ground level,to exceed " BLM" requirements .
Cementing company : Halliburton , plug as below:
R/U ,and tested lines to 2,000 psi, tested positive.
Pumped : 2 bbls of " FW" ahead, followed with 64 sks. of Class H Neat.
Yield : 1.15 gal/sk., water : 4.99 gal/sk., slurry wt. : 15.8 ppg., slurry volume : 13 - bbls.
Pumped : 1 bbls. of "FW' behind behind.
Plug in place @ 05:30 hrs., 12/30/2010, from 105' to 5' below ground level. (105').
Final surface plug. Calculated + 10 % excess for BLM, requirements.

**** A temporary plate was welded over the 13 3/8" ,
cellar will have to be dug out at least + 2', to obtain a cut off , 5' below ground level.

RECEIVED January 07, 2011

**** The 13 3/8" x 30" annulus is filled with cement, from the top job, after running the 13 3/8".

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PIONEER
NATURAL RESOURCES

CONFIDENTIAL

SELMAN AND ASSOCIATES, LTD.
GEOLOGICAL CONSULTING / SURFACE LOGGING SERVICES

SELMAN AND ASSOCIATES, LTD.

GEOLOGICAL CONSULTING / SURFACE LOGGING SERVICES

PIONEER NATURAL RESOURCES USA, INC.
South Hills Federal 6-1

Section 6, T-16-S, R-1-W
Juab County, Utah

Total Depth: 9031'
Surface Footage Location: 1552 fsl & 3171' fel

WELL REPORT

DECEMBER 2010

Prepared by:
SELMAN & ASSOCIATES, LTD.
Jed Jenkins
P. O. Box 61150
Midland, Texas 79711
432/563-0084

Prepared for:
PIONEER NATURAL RESOURCES USA, INC.
Caleb Pollock
1401 – 17th Street, Suite 1200
Denver, Colorado 80202
303/675-2717

Nabors #169 drilling South Hills Federal 6-1, looking south-southwest.

Driving towards location heading north-northeast. The South Hills are directly on the right and snow covered Mount Nebo in right background.

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WELL DATA

Operator:	**Pioneer Natural Resources USA, Inc.**
Well Name:	**South Hills Federal 6-1**
Location:	**1552' FSL & 3171' FEL** **Section 6, T-16-S, R-1-W**
County:	**Juab**
State:	**Utah**
Elevations:	**Ground Level 5239'** **Kelly Bushing 5264'**
API Number:	**43-023-30021**
Field:	**Wildcat**
Casing Depths:	**13 $^{3}/_{8}$" Surface set at 4340'** **9 $^{7}/_{8}$" Intermediate set at 8247'** **P&A at TD 9031'**
Spud Date:	**September 22, 2010**
TD Date:	**December 23, 2010**
Release Date:	**December 23, 2010**

SERVICES

Drilling Contractor:	**Nabors Drilling Co. Rig 169**
Company Men:	**Dean Baker, Noah Dupuis** **Derrick Berry, Bill Vigil**
Toolpushers:	**Coby Tuller, Rod Flynn** **Will Smith, Shane Beres**
Mudlogging Company:	**Selman & Associates, Ltd.** **Jed Jenkins, Walter Mockler**
Wireline Company:	**Halliburton**

BIT RECORD

Bit #	Size	Style	Depth In	Depth Out	Footage
1	17 ½"	Hughes HCD-507Z	80'	3754'	3674'
2	17 ½"	Hughes MLX-09	3754'	3907'	155'
1	17 ½"	Hughes HCD-507Z	3907'	4313'	406'
3	17 ½"	Hughes SDS-716	4313'	4345'	32'
4	12 ¼"	Hughes STC-FDS&C	4345'	4357'	12'
5	12 ¼"	Hughes HCD-505ZX	4357'	6023'	1666'
6	12 ¼"	Hughes STC-FDS&G	6023'	6028'	5'
7	12 ¼"	Hughes HTC-GX38CH	6028'	6338'	310'
8	12 ¼"	HTC-GX28DX	6338'	6356'	18'
9	12 ¼"	STC-F67 tri-cone	6356'	6631'	275'
10	12 ¼"	Reed 50-PDH2	6631'	7113'	482'
11	12 ¼"	Reed R50PDH2	7113'	7300'	187'
12	12 ¼"	Hughes Q-507	7300'	8257'	957'
13	8 ½"	Hughes Q-507-FX	8257'	8338'	81'
14	8 ½"	Reed M-4377PDH	8338'	8396'	58'
15	8 ½"	Security Tri-cone	8396'	8397'	1'
16	8 ½"	STC MS1616	8397'	8698'	301'
17	8 ½"	Reed M-4378 PDH	8698'	8886'	188'
18	8 ½"	STC FHi90YODR	8886'	8973'	87'
19	8 ½"	STC F67YD	8973'	9030'	57'

DISCUSSION

The South Hills Federal 6-1 was drilled as an exploratory project. During the drilling of the South Hills well, all samples were collected by the wellsite geologist and logging partner. Samples were collected at lagged depths, with lag calculations verified by carbide tests during water-based mud drilling and by borehole geometry during oil-based mud drilling. Samples were washed, sieved and divided into a wet set for analysis and two dry sets for storage and future reference. Samples were collected at 30 foot intervals from spud to surface casing depth and 10 – 20 foot intervals from surface casing to intermediate casing depths, depending on drill rate. This was to done to pinpoint formation tops and for more precise pay zone analysis; the purpose of these wells being to obtain data for the determination of major field development feasibility.

Spud date was September 22, 2010 and the 17.5" surface hole was drilled with water based-mud to a depth of 4345 feet. Mud weight for this well interval was between 8.4 and 8.6 ppg. On October 14, 2010, 13.375", 68# J-55 casing was set at 4340 feet. Below surface casing a 12.25" hole was drilled 17 feet to a total depth of 4357 feet wherein water-based mud was changed over to oil-based mud.

From there, the 12.25" hole was continued to a total depth of 7300 feet on November 22, 2010. Mud weight for this well interval started at 10.0 ppg and was slowly raised until reaching a weight of 12.8 ppg on October 23, 2010. It was at this point where massive circulation losses were encountered. Mud weight was then gradually lowered until reaching a weight of 8.9 – 9.1 ppg where mud losses to the hole were more minimal.

At 7300 feet, open hole wireline logs were conducted. Drilling was resumed after logging runs to a new total depth of 8257 feet on December 4, 2010 where open hole wireline logs were again conducted in the portion drilled since last logging run at 7300 feet. At this point, 9.875", 62.8# P-110 BTC intermediate casing was set at 8247 feet.

Below casing an 8.5" hole was drilled to a total depth of 9031 feet on December 23, 2010. Mud weight for this well interval was strictly kept at 8.9 – 9.1 ppg. This hole was drilled to a total depth of 9031'. E-logs were ran and the well was plugged and abandoned at this point.

Although unexpected, two series of repeated sections were encountered due to local tectonics. After drilling through the faulted base of the first Navajo Sandstone, we drilled into a repeat section of the Watton Canyon Member of the upper Twin Creek Formation. All members of the second Twin Creek Formation were much thicker than the first section up hole.

Some formation gas increases were noted in the first Navajo Sandstone. Background gas increased from approximately 25 units above the Navajo Sandstone to a high of 1187 units from 5965 – 6030 feet in the Navajo Sandstone.

In the second Navajo Sandstone section, three minor shows were encountered while drilling. These minor shows recorded gas levels of 68, 96 and 123 units respectively, the lower of which did show 10% yellow fluorescence and a good cut.

An isotube gas sampling system from Isotech Laboratories, Inc. was used to take gas samples at specific depth intervals. As per the geologist, samples were taken every 1000 feet while in the Arapien Formation, every 100 feet in the Twin Creek Formation and every 30 feet while in the Navajo Formation. A more detailed breakdown of the sampling intervals can be found under *Isotopic Sampling Intervals* on page 4.

FORMATION TOPS

(MD)

Formation	Prognosis	Mud Log	Field E-Log
Tertiary Volcanics	200'	----	270'
Tertiary Undivided	930'	1830'	1800'
Arapien	4100'	4345'	----
Twin Creek	----	4770'	4770'
Gypsum Spring Member	----	5660'	5680'
Navajo	----	5960'	5960'
Twin Creek 2	8000'	7100'	7090'
Gypsum Spring Member 2	8720'	8120'	8130'
Navajo 2	9040'	8660'	8590'

SHOW LOG

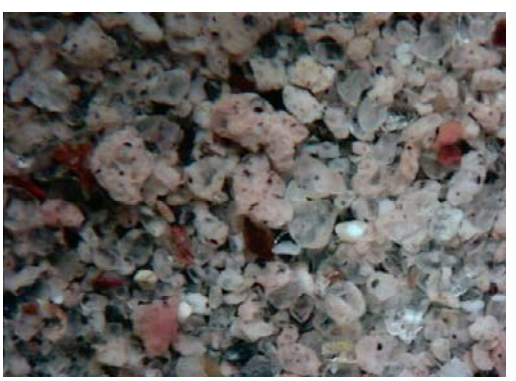
Show Interval	Lithology	Oil Show	Max Gas
5965' – 6030'	Sandstone	Trace Fluorescence	1187 u
8217' – 8229'	Shale	Trace Fluorescence	68 u
8306' – 8319'	Shale	Trace Fluorescence	96 u
8881' – 8886'	Sandstone	10% Fluorescence, Good Cut	123 u

ISOTOPIC SAMPLING INTERVALS

Sample Depth	Date	Gas Units
5100'	10/19/10	70 u
5200'	10/21/10	40 u
5990'	11/03/10	65 u
7010'	11/18/10	15 u
8095'	12/03/10	18 u
8300'	12/09/10	28 u
8310'	12/09/10	96 u
8397'	12/12/10	20 u
8600'	12/14/10	29 u
8791'	12/16/10	21 u
8901'	12/20/10	29 u
9020'	12/23/10	25 u

LITHOLOGIC DESCRIPTIONS

Tertiary Volcanics: Volcaniclastic lithic fragments. Quartz clasts are fairly common. See reference photo A. The typical volcanic description:



Reference Photo A

Volcaniclastics: orange, pink, light gray to white/off white, moderately firm to hard, medium-fine crystalline, with phenocrysts of quartz and minor biotite, pumice fragments present as well

Sandstone: clear, hard, coarse sub-angular to sub-round totally consolidated grains

Green River Formation: Generally characterized by calcareous mudstones and sandstones and condensed silicified limestone, moderately friable. See reference photo B. The typical Green River description:

Reference Photo B

Sandstone: clear to off-white, moderately well sorted, fine to medium grain, angular to sub-angular, mostly unconsolidated, but some moderately well cemented, transparent to translu-cent quartz grains

Limestone: off-white/white to pink and tan, moderately hard, mottled, blocky, crypto-crystalline

Colton Formation: Predominantly bentonitic mudstones and sandstones, moder-ately calcareous, somewhat friable. See reference photo C. The typical Colton description:

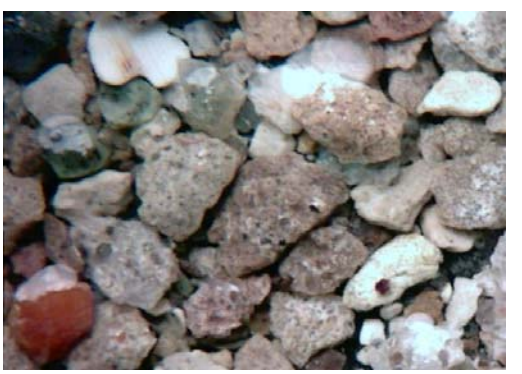
Reference Photo C

Shale: green, medium to dark gray, somewhat soft/friable, blocky to chunky, predominantly argillaceous, some slightly silty, moderately effervescent/calcareous

Limestone: off-white/white to pink/ cream, moderately firm to hard, blocky, micro/crypto-crystalline, homogenous texture

Flagstaff Formation: Mostly thick-bedded micritic limestone grading to a some-what sandy limestone toward the bottom. Calcareous shale and mudstones are also common. See reference photo D and E. The typical Flagstaff description:

Reference Photo D



Reference Photo E

Limestone: white/off-white, light to medium gray, some pink/cream, relatively firm, blocky, very fine to medium grain grading to a limey-quartz sandstone

Sandstone: off-white, red gray, clear, moderately sorted, medium to fine grain, moderately well cemented with calcareous cement, angular to sub-round, some transparent quartz grains

Shale: light to medium gray/green, cream/tan, moderately soft, blocky to chunky, mottled, moderately argillaceous, moderately effervescent

North Horn Formation: Orange-red to reddish-brown mudstone and sandstone. Although seen in offset wells, no conglomeratic sections were seen in this well. See reference photo F. The typical North Horn description:

Reference Photo F

Shale: dark gray to brownish red, moderately hard, sub-fissile, shardy, very calcareous, marly dolomitic

Sandstone: white to light gray, red, clear grains, moderately well cemented, moderately calcareous, fine to very fine-grained

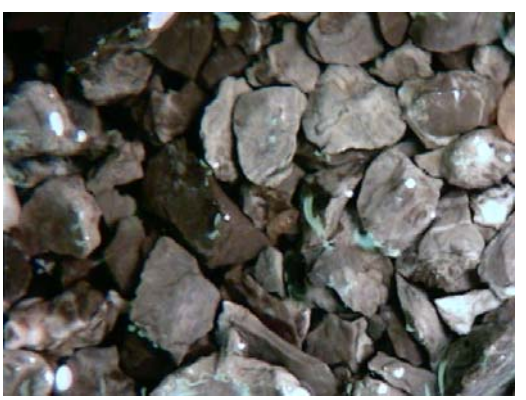
Arapien Formation: Generally soft to moderately resistant marine shale, mudstone, limestone and sandstone. See reference photo G. The typical Arapien description:

Reference Photo G

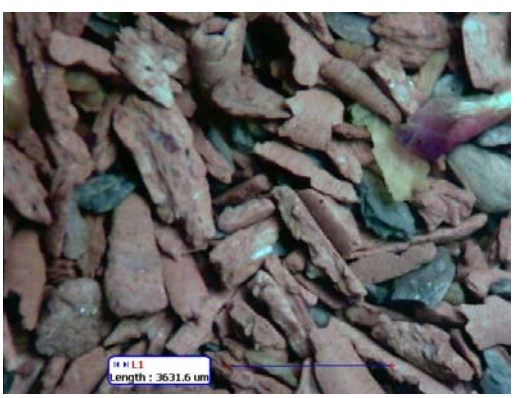
Shale: light to medium gray, some red/brown, sub-firm to moderately firm, sub-blocky to sub-platy, mottled, very argillaceous, slightly fissile, very fine laminations, moderately effervescent – dolomitic

Dolomite: medium to dark gray/brown, hard, massive, dense, brittle, crypto-crystalline, splintery to sub-blocky, slightly oolitic with trace of white, crystalline limestone: micro-vein fill/ interstitial cement for oolites

Twin Creek Formation: Predominantly oolitic dolomite and red mudstones. Heavy gypsum/anhydrite content is common, especially in the lower repeated section. See reference photo H and I. The typical Twin Creek description:



Reference Photo H



Reference Photo I

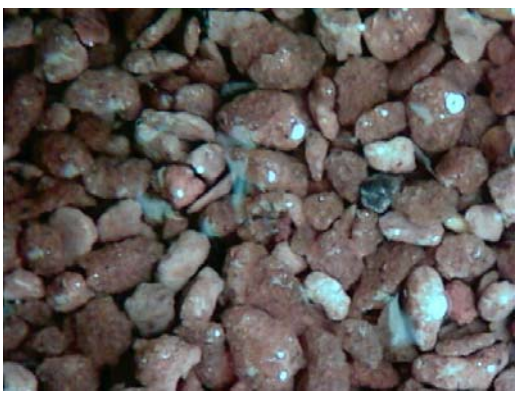
Dolomite: medium to dark gray, mottled, white, oolitc, somewhat soft, crypto-crystalline, with minor white crystalline limestone fracture-fill

Sandstone: off-white to light gray, cream, moderately soft to slightly firm, some slightly hard, very fine grained, well sorted, poor porosity, calcareous

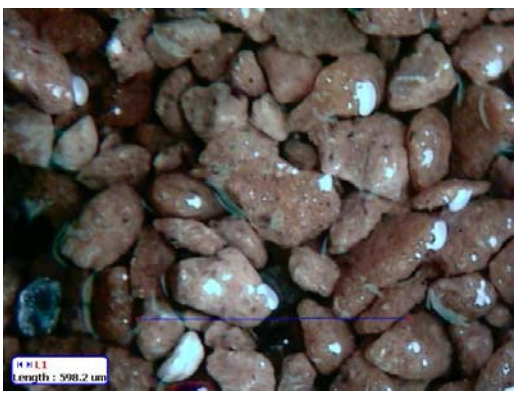
Shale: reddish-brown, firm to slightly soft, blocky, fissile, micro-laminated

Gypsum / Anhydrite: white to off-white, blocky, splintery, non-crystalline

Navajo Formation: Very well cemented, fine-grained eolian sandstone. Moderate anhydrite/gypsum stringers were encountered while drilling. See reference photo J and K. The typical Navajo description:



Reference Photo J



Reference Photo K

Sandstone: pink orange-red, white, very hard, well sorted, sub-round to angular, fine grained, moderately well cemented/indurated

Gypsum / Anhydrite: white to off-white, blocky, splintery, non-crystalline

SUMMARY

The South Hills Federal 6-1 spudded on September 22, 2010. This wildcat well is located in Section 6, Township 16 South, Range 1 West in Juab County, Utah. A 17.5" surface hole was drilled to 4357 feet using water-based mud and 13.375" casing was set at 4340 feet.

A 12.25" hole was drilled from surface case to a depth of 8257 feet with 8.9 – 9.2 ppg mud. 9.875" Casing was set and cemented at 8247 feet. Open hole wireline logging was conducted prior to casing. An 8.5" production hole was drilled to a total depth of 9031 feet with 8.9 – 9.1 ppg mud. Wireline logging was conducted prior to plugging well.

Small shows were noted in both the upper and lower Navajo Sandstone Formation sections. Trip gas was insignificant during and after wireline runs, the highest reading being 39 units. Selman and Associates, Ltd. unit was released December 23, 2010.

SELMAN AND ASSOCIATES, LTD.
GEOLOGICAL CONSULTING / SURFACE LOGGING SERVICES

Morning Report

Company: PIONEER NATURAL RESOURCES USA, INC. Date: 9/16/2010 Day: 1

Well Name: SOUTH HILLS FEDERAL 6-1 Prepared by: JED JENKINS

Current Operations: RIG UP SELMAN Unit Phone Number: 432/385-4428 - 432/288-2228

TD: 80' Time: 0500 Drill Rate: N/A Min/Ft N/A Ft/Hr

Current BGG: Max Last 24 hrs: Conn Gas: Trip Gas: Survey/DT Gas:

Current Lag Time @ ' = Minutes or Lag Strokes

Made ' in the last 24 hours. Company Representative called: CALEB POLLOCK @ 0800 a.m./p.m.

Lithology (Last Sample) @: Last Previous Change @:

% %

% %

% %

Show/Drilling Breaks

Interval	ROP	Lithology	Gas	% Fluorescence	Cut	Porosity
-						
-						
-						
-						

Gas

Current BGG:		Max Last 24 hrs:		Conn Gas:		Trip Gas:		Survey/DT Gas:	
C-1	%	C-1	%	C-1	%	C-1	%	C-1	%
C-2	%	C-2	%	C-2	%	C-2	%	C-2	%
C-3	%	C-3	%	C-3	%	C-3	%	C-3	%
1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%
N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%

Correlations: Top of @ ', -
We are ' high/low to
Top of @ ', -
We are ' high/low to

Expecting Top of: TERTIARY VOLCANICS @ 200 ', -

Drilling Conditions:

@	@	Trip: Hrs	Deviation
HOB	WT	@	° @ '
WOB	vis	Reason:	° @ '
RPM	pH		° @ '
PP	CL	NB#:	° @ '
SPM	WL	Type:	° @ '

Driller's Log

Time 0500 - 0500	Operation RIG UP SELMAN TRAILER AND MET WITH GEOLOGIST

Calibrations:

TOTAL GAS
Catalytic Combustion
1% Methane

units		
volts		
	before	after

CALIBRATIONS
Thermal Conduct
10% Methane

units		
volts		
	before	after

CHROMATOGRAPH

Div.	Sec.	%
C-1		
C-2		
C-3		
C-4		
NC-4		

Filament Change: type , ' time.

Gas Trap:
Rig Air Motor ELECTRIC
Transfer Time 120 SEC
Trap Cleaned (date)

Chromatograph Settings:
Carrier Air Pressure 5.96 psi,
Cycle Time 280 sec.

Logging Team: Team Leader: TOM SELMAN Team Lead Logger: JED JENKINS Team Logger: GUY CONLEY

Comments: CALLED OUT BY COM. MAN DEAN BAKER TO START LOGGING.

SELMAN AND ASSOCIATES, LTD.
GEOLOGICAL CONSULTING / SURFACE LOGGING SERVICES

Morning Report

Company: PIONEER NATURAL RESOURCES USA, INC. Date: 9/17/2010 Day: 2

Well Name: SOUTH HILLS FEDERAL 6-1 Prepared by: JED JENKINS

Current Operations: WORKING ON RIG Unit Phone Number: 432/385-4428 - 432/288-2228

TD: 80' Time: 0500 Drill Rate: N/A Min/Ft N/A Ft/Hr

Current BGG: Max Last 24 hrs: Conn Gas: Trip Gas: Survey/DT Gas:

Current Lag Time @ ' = Minutes or Lag Strokes

Made ' in the last 24 hours. Company Representative called: CALEB POLLOCK @ 0800 a.m./p.m.

Lithology (Last Sample) @: Last Previous Change @:

% % % %

% % % %

Show/Drilling Breaks

Interval	ROP	Lithology	Gas	% Fluorescence	Cut	Porosity
-						
-						
-						
-						

Gas

Current BGG:		Max Last 24 hrs:		Conn Gas:		Trip Gas:		Survey/DT Gas:	
C-1	%	C-1	%	C-1	%	C-1	%	C-1	%
C-2	%	C-2	%	C-2	%	C-2	%	C-2	%
C-3	%	C-3	%	C-3	%	C-3	%	C-3	%
1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%
N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%

Correlations: Top of @ ', -
We are ' high/low to
Top of @ ', -
We are ' high/low to

Expecting Top of: TERTIARY VOLCANICS @ 200 ', -

Drilling Conditions:

@	@	Trip: Hrs	Deviation
HOB	WT	@	° @ '
WOB	vis	Reason:	° @ '
RPM	pH		° @ '
PP	CL	NB#:	° @ '
SPM	WL	Type:	° @ '

Driller's Log

Time 0500 - 0500	Operation WORKING ON RIG

Calibrations:

TOTAL GAS
Catalytic Combustion
1% Methane

units		
volts		
	before	after

CALIBRATIONS
Thermal Conduct
10% Methane

units		
volts		
	before	after

CHROMATOGRAPH

Div.	Sec.	%
C-1		
C-2		
C-3		
C-4		
NC-4		

Filament Change: type , ' time.

Gas Trap:
Rig Air Motor ELECTRIC
Transfer Time 120 SEC
Trap Cleaned (date)

Chromatograph Settings:
Carrier Air Pressure 5.96 psi,
Cycle Time 280 sec.

Logging Team: Team Leader: TOM SELMAN Team Lead Logger: JED JENKINS Team Logger: GUY CONLEY

Comments:

SELMAN AND ASSOCIATES, LTD.
GEOLOGICAL CONSULTING / SURFACE LOGGING SERVICES

Morning Report

Company: PIONEER NATURAL RESOURCES USA, INC. Date: 9/18/2010 Day: 3

Well Name: SOUTH HILLS FEDERAL 6-1 Prepared by: JED JENKINS

Current Operations: RIGGING UP NABORS #169 Unit Phone Number: 432/385-4428 - 432/288-2228

TD: 80' Time: 0500 Drill Rate: N/A Min/Ft N/A Ft/Hr

Current BGG: Max Last 24 hrs: Conn Gas: Trip Gas: Survey/DT Gas:

Current Lag Time @ ' = Minutes or Lag Strokes

Made ' in the last 24 hours. Company Representative called: CALEB POLLOCK @ 0800 a.m./p.m.

Lithology (Last Sample) @: Last Previous Change @:

% %

% %

% %

Show/Drilling Breaks

Interval	ROP	Lithology	Gas	% Fluorescence	Cut	Porosity
-						
-						
-						
-						

Gas

Current BGG:		Max Last 24 hrs:		Conn Gas:		Trip Gas:		Survey/DT Gas:	
C-1	%	C-1	%	C-1	%	C-1	%	C-1	%
C-2	%	C-2	%	C-2	%	C-2	%	C-2	%
C-3	%	C-3	%	C-3	%	C-3	%	C-3	%
1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%
N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%

Correlations: Top of @ ', -
We are ' high/low to
Top of @ ', -
We are ' high/low to

Expecting Top of: TERTIARY VOLCANICS @ 200 ', -

Drilling Conditions:

@	@	Trip: Hrs	Deviation
HOB	WT	@	° @ '
WOB	vis	Reason:	° @ '
RPM	pH		° @ '
PP	CL	NB#:	° @ '
SPM	WL	Type:	° @ '

Driller's Log

Time 0500 - 0500	Operation WORKING ON RIG

Calibrations:

TOTAL GAS
Catalytic Combustion
1% Methane

units	115	100
volts	-2.085mV	2.665mV
	before	after

CALIBRATIONS
Thermal Conduct
10% Methane

units	2533	1000
volts	2.665mV	3.307mV
	before	after

CHROMATOGRAPH

Div.	Sec.	%
C-1	5.0-30.0	100
C-2	33.0-65.25	200
C-3	68.0-115.5	300
C-4	128.0-181.5	400
NC-4	191.5-251.25	400

Filament Change: type METAL , GREEN ' METAL time.

Gas Trap:
Rig Air Motor ELECTRIC
Transfer Time 120 SEC
Trap Cleaned (date)

Chromatograph Settings:
Carrier Air Pressure 5.96 psi,
Cycle Time 280 sec.

Logging Team: Team Leader: TOM SELMAN Team Lead Logger: JED JENKINS Team Logger: GUY CONLEY

Comments: PROJECTING DERRICK UP TOMORROW

SELMAN AND ASSOCIATES, LTD.
GEOLOGICAL CONSULTING / SURFACE LOGGING SERVICES

Morning Report

Company: PIONEER NATURAL RESOURCES USA, INC. Date: 9/19/2010 Day: 4

Well Name: SOUTH HILLS FEDERAL 6-1 Prepared by: JED JENKINS

Current Operations: RAISING DERRICK Unit Phone Number: 432/385-4428 - 432/288-2228

TD: 80' Time: 0500 Drill Rate: N/A Min/Ft N/A Ft/Hr

Current BGG: Max Last 24 hrs: Conn Gas: Trip Gas: Survey/DT Gas:

Current Lag Time @ ' = Minutes or Lag Strokes

Made ' in the last 24 hours. Company Representative called: CALEB POLLOCK @ 0800 a.m./p.m.

Lithology (Last Sample) @: Last Previous Change @:

% % % %

% % % %

Show/Drilling Breaks

Interval	ROP	Lithology	Gas	% Fluorescence	Cut	Porosity
-						
-						
-						
-						

Gas

Current BGG:		Max Last 24 hrs:		Conn Gas:		Trip Gas:		Survey/DT Gas:	
C-1	%	C-1	%	C-1	%	C-1	%	C-1	%
C-2	%	C-2	%	C-2	%	C-2	%	C-2	%
C-3	%	C-3	%	C-3	%	C-3	%	C-3	%
1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%
N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%

Correlations: Top of @ ', -
We are ' high/low to
Top of @ ', -
We are ' high/low to

Expecting Top of: TERTIARY VOLCANICS @ 200 ', -

Drilling Conditions:

@	@	Trip: Hrs	Deviation
HOB	WT	@	° @ '
WOB	vis	Reason:	° @ '
RPM	pH		° @ '
PP	CL	NB#:	° @ '
SPM	WL	Type:	° @ '

Driller's Log

Time 0500 - 0500	Operation RAISE DERRICK

Calibrations:

TOTAL GAS
Catalytic Combustion
1% Methane

units	115	100
volts	-2.085mV	2.665mV
	before	after

CALIBRATIONS
Thermal Conduct
10% Methane

units	2533	1000
volts	2.665mV	3.307mV
	before	after

CHROMATOGRAPH

Div.	Sec.	%
C-1	5.0-30.0	100
C-2	33.0-65.25	200
C-3	68.0-115.5	300
C-4	128.0-181.5	400
NC-4	191.5-251.25	400

Filament Change: type METAL , GREEN ' METAL time.

Gas Trap:
Rig Air Motor ELECTRIC
Transfer Time 120 SEC
Trap Cleaned (date)

Chromatograph Settings:
Carrier Air Pressure 5.96 psi,
Cycle Time 280 sec.

Logging Team: Team Leader: TOM SELMAN Team Lead Logger: JED JENKINS Team Logger: GUY CONLEY

Comments: DERRICK RAISED EARLY PM

SELMAN AND ASSOCIATES, LTD.
GEOLOGICAL CONSULTING / SURFACE LOGGING SERVICES

Morning Report

Company: PIONEER NATURAL RESOURCES USA, INC. Date: 9/20/2010 Day: 5

Well Name: SOUTH HILLS FEDERAL 6-1 Prepared by: JED JENKINS

Current Operations: WORK ON TOP DRIVE Unit Phone Number: 432/385-4428 - 432/288-2228

TD: 80' Time: 0500 Drill Rate: N/A Min/Ft N/A Ft/Hr

Current BGG: Max Last 24 hrs: Conn Gas: Trip Gas: Survey/DT Gas:

Current Lag Time @ ' = Minutes or Lag Strokes

Made ' in the last 24 hours. Company Representative called: CALEB POLLOCK @ 0800 a.m./p.m.

Lithology (Last Sample) @: Last Previous Change @:

% % % %

Show/Drilling Breaks

Interval	ROP	Lithology	Gas	% Fluorescence	Cut	Porosity
-						
-						
-						
-						

Gas

Current BGG:		Max Last 24 hrs:		Conn Gas:		Trip Gas:		Survey/DT Gas:	
C-1	%	C-1	%	C-1	%	C-1	%	C-1	%
C-2	%	C-2	%	C-2	%	C-2	%	C-2	%
C-3	%	C-3	%	C-3	%	C-3	%	C-3	%
1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%
N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%

Correlations: Top of @ ', -
We are ' high/low to
Top of @ ', -
We are ' high/low to

Expecting Top of: TERTIARY VOLCANICS @ 200 ', -

Drilling Conditions:

@	@	Trip: Hrs	Deviation
HOB	WT	@	° @ '
WOB	vis	Reason:	° @ '
RPM	pH		° @ '
PP	CL	NB#:	° @ '
SPM	WL	Type:	° @ '

Driller's Log

Time	Operation
0500 - 1200	WORKING ON TOP DRIVE
1200 - 0600	WORKING ON CAT WALK & MONKEY BOARD
1200 - 0600	CALIBRATE EQUIPMENT
0600 - 0500	RIG MAINTENANCE

Calibrations:

TOTAL GAS
Catalytic Combustion
1% Methane

units	115	100
volts	-2.085mV	2.665mV
	before	after

CALIBRATIONS
Thermal Conduct
10% Methane

units	2533	1000
volts	2.665mV	3.307mV
	before	after

CHROMATOGRAPH

Div.	Sec.	%
C-1	5.0-30.0	100
C-2	33.0-65.25	200
C-3	68.0-115.5	300
C-4	128.0-181.5	400
NC-4	191.5-251.25	400

Filament Change: type METAL , GREEN ' METAL time.

Gas Trap:
Rig Air Motor ELECTRIC
Transfer Time 120 SEC
Trap Cleaned (date)

Chromatograph Settings:
Carrier Air Pressure 5.96 psi,
Cycle Time 280 sec.

Logging Team: Team Leader: TOM SELMAN Team Lead Logger: JED JENKINS Team Logger: GUY CONLEY

Comments:

SELMAN AND ASSOCIATES, LTD.
GEOLOGICAL CONSULTING / SURFACE LOGGING SERVICES

Morning Report

Company: PIONEER NATURAL RESOURCES USA, INC. Date: 9/21/2010 Day: 6

Well Name: SOUTH HILLS FEDERAL 6-1 Prepared by: JED JENKINS

Current Operations: WORK ON RIG Unit Phone Number: 432/385-4428 - 432/288-2228

TD: 80' Time: 0500 Drill Rate: N/A Min/Ft N/A Ft/Hr

Current BGG: Max Last 24 hrs: Conn Gas: Trip Gas: Survey/DT Gas:

Current Lag Time @ ' = Minutes or Lag Strokes

Made ' in the last 24 hours. Company Representative called: CALEB POLLOCK @ 0800 a.m./p.m.

Lithology (Last Sample) @: Last Previous Change @:

% % % %

% % % %

Show/Drilling Breaks

Interval	ROP	Lithology	Gas	% Fluorescence	Cut	Porosity
-						
-						
-						
-						

Gas

Current BGG:		Max Last 24 hrs:		Conn Gas:		Trip Gas:		Survey/DT Gas:	
C-1	%	C-1	%	C-1	%	C-1	%	C-1	%
C-2	%	C-2	%	C-2	%	C-2	%	C-2	%
C-3	%	C-3	%	C-3	%	C-3	%	C-3	%
1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%
N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%

Correlations: Top of @ ', -
We are ' high/low to
Top of @ ', -
We are ' high/low to

Expecting Top of: TERTIARY VOLCANICS @ 200 ', -

Drilling Conditions:

@	@	Trip: Hrs	Deviation
HOB	WT	@	° @ '
WOB	vis	Reason:	° @ '
RPM	pH		° @ '
PP	CL	NB#:	° @ '
SPM	WL	Type:	° @ '

Driller's Log

Time 0500 - 0500	Operation WORKING ON BHA X-OVER & WORKING ON MUD

Calibrations:

TOTAL GAS
Catalytic Combustion
1% Methane

units	115	100
volts	-2.085mV	2.665mV
	before	after

CALIBRATIONS
Thermal Conduct
10% Methane

units	2533	1000
volts	2.665mV	3.307mV
	before	after

CHROMATOGRAPH

Div.	Sec.	%
C-1	5.0-30.0	100
C-2	33.0-65.25	200
C-3	68.0-115.5	300
C-4	128.0-181.5	400
NC-4	191.5-251.25	400

Filament Change: type METAL , GREEN ' METAL time.

Gas Trap:
Rig Air Motor ELECTRIC
Transfer Time 120 SEC
Trap Cleaned (date)

Chromatograph Settings:
Carrier Air Pressure 5.96 psi,
Cycle Time 280 sec.

Logging Team: Team Leader: TOM SELMAN Team Lead Logger: JED JENKINS Team Logger: GUY CONLEY

Comments:

SELMAN AND ASSOCIATES, LTD.
GEOLOGICAL CONSULTING / SURFACE LOGGING SERVICES

Morning Report

Company: PIONEER NATURAL RESOURCES USA, INC. Date: 9/22/2010 Day: 7

Well Name: SOUTH HILLS FEDERAL 6-1 Prepared by: JED JENKINS

Current Operations: CUT AND SPLICE DRILL LINE Unit Phone Number: 432/385-4428 - 432/288-2228

TD: 80' Time: 0500 Drill Rate: N/A Min/Ft N/A Ft/Hr

Current BGG: Max Last 24 hrs: Conn Gas: Trip Gas: Survey/DT Gas:

Current Lag Time @ ' = Minutes or Lag Strokes

Made ' in the last 24 hours. Company Representative called: CALEB POLLOCK @ 0800 a.m./p.m.

Lithology (Last Sample) @: Last Previous Change @:

% % % %

% % % %

Show/Drilling Breaks

Interval	ROP	Lithology	Gas	% Fluorescence	Cut	Porosity
-						
-						
-						
-						

Gas

Current BGG:		Max Last 24 hrs:		Conn Gas:		Trip Gas:		Survey/DT Gas:	
C-1	%	C-1	%	C-1	%	C-1	%	C-1	%
C-2	%	C-2	%	C-2	%	C-2	%	C-2	%
C-3	%	C-3	%	C-3	%	C-3	%	C-3	%
1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%
N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%

Correlations: Top of @ ', -
We are ' high/low to
Top of @ ', -
We are ' high/low to

Expecting Top of: TERTIARY VOLCANICS @ 200 ', -

Drilling Conditions:

@	@	Trip: Hrs	Deviation
HOB	WT	@	° @ '
WOB	vis	Reason:	° @ '
RPM	pH		° @ '
PP	CL	NB#:	° @ '
SPM	WL	Type:	° @ '

Driller's Log

Time	Operation
0500 - 1800	FILLING MUD TANKS & WORKING ON SHAKERS
1800 - 0500	WORKING ON BHA, CUT AND SPLICE WELL LINE

Calibrations:

TOTAL GAS
Catalytic Combustion
1% Methane

units	115	100
volts	-2.085mV	2.665mV
	before	after

CALIBRATIONS
Thermal Conduct
10% Methane

units	2533	1000
volts	2.665mV	3.307mV
	before	after

CHROMATOGRAPH

Div.	Sec.	%
C-1	5.0-30.0	100
C-2	33.0-65.25	200
C-3	68.0-115.5	300
C-4	128.0-181.5	400
NC-4	191.5-251.25	400

Filament Change: type METAL , GREEN ' METAL time.

Gas Trap:
Rig Air Motor ELECTRIC
Transfer Time 120 SEC
Trap Cleaned (date)

Chromatograph Settings:
Carrier Air Pressure 5.96 psi,
Cycle Time 280 sec.

Logging Team: Team Leader: TOM SELMAN Team Lead Logger: JED JENKINS Team Logger: GUY CONLEY

Comments:

SELMAN AND ASSOCIATES, LTD.
GEOLOGICAL CONSULTING / SURFACE LOGGING SERVICES

Morning Report

Company: PIONEER NATURAL RESOURCES USA, INC. Date: 9/23/2010 Day: 8

Well Name: SOUTH HILLS FEDERAL 6-1 Prepared by: JED JENKINS

Current Operations: MIXING MUD Unit Phone Number: 432/385-4428 - 432/288-2228

TD: 168' Time: 0500 Drill Rate: N/A Min/Ft N/A Ft/Hr

Current BGG: 4u Max Last 24 hrs: 4u Conn Gas: Trip Gas: Survey/DT Gas:

Current Lag Time @ ' = Minutes or Lag Strokes

Made 88 ' in the last 24 hours. Company Representative called: CALEB POLLOCK @ 0800 a.m./p.m.

Lithology (Last Sample) @: 160		Last Previous Change @:	
60	% SANDSTONE		%
40	% SHALE		%
	%		%

Show/Drilling Breaks

Interval	ROP	Lithology	Gas	% Fluorescence	Cut	Porosity
-						
-						
-						
-						

Gas

Current BGG:		Max Last 24 hrs:		Conn Gas:		Trip Gas:		Survey/DT Gas:	
C-1	%	C-1	%	C-1	%	C-1	%	C-1	%
C-2	%	C-2	%	C-2	%	C-2	%	C-2	%
C-3	%	C-3	%	C-3	%	C-3	%	C-3	%
1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%
N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%

Correlations: Top of @ ', -
We are ' high/low to
Top of @ ', -
We are ' high/low to

Expecting Top of: TERTIARY VOLCANICS @ 200 ', -

Drilling Conditions:

@	@ 145'	Trip: Hrs	Deviation
HOB	WT 8.4	@	° @ '
WOB	vis 28	Reason:	° @ '
RPM	pH		° @ '
PP	CL	NB#:	° @ '
SPM	WL	Type:	° @ '

Driller's Log

Time	Operation
0500 - 1610	RIGGING UP/RIH
1610 - 1700	DRILLED FROM 80' - 110'
1700 - 1805	DRILLED FROM 110' - 140'
1805 - 1810	DRILLED FROM 140' - 168'
1810 - 0500	MIXING MUD

Calibrations:

TOTAL GAS
Catalytic Combustion
1% Methane

units	115	100
volts	-2.085mV	2.665mV
	before	after

CALIBRATIONS
Thermal Conduct
10% Methane

units	2533	1000
volts	2.665mV	3.307mV
	before	after

CHROMATOGRAPH

Div.	Sec.	%
C-1	5.0-30.0	100
C-2	33.0-65.25	200
C-3	68.0-115.5	300
C-4	128.0-181.5	400
NC-4	191.5-251.25	400

Filament Change: type METAL , GREEN ' METAL time.

Gas Trap:
Rig Air Motor ELECTRIC
Transfer Time 120 SEC
Trap Cleaned (date)

Chromatograph Settings:
Carrier Air Pressure 5.96 psi,
Cycle Time 280 sec.

Logging Team: Team Leader: TOM SELMAN Team Lead Logger: JED JENKINS Team Logger: GUY CONLEY

Comments: LOST CIRCULATION @ 168', MIXING MUD TO 35 PPB

SELMAN AND ASSOCIATES, LTD.
GEOLOGICAL CONSULTING / SURFACE LOGGING SERVICES

Morning Report

Company: PIONEER NATURAL RESOURCES USA, INC. Date: 9/24/2010 Day: 9

Well Name: SOUTH HILLS FEDERAL 6-1 Prepared by: JED JENKINS

Current Operations: WAITING ON NEW MUD MOTOR Unit Phone Number: 432/385-4428 - 432/288-2228

TD: 206' Time: 0500 Drill Rate: N/A Min/Ft N/A Ft/Hr

Current BGG: 7u Max Last 24 hrs: 7u Conn Gas: Trip Gas: Survey/DT Gas:

Current Lag Time @ ' = 4.65 Minutes or 419 Lag Strokes

Made 38 ' in the last 24 hours. Company Representative called: CALEB POLLOCK @ 0830 a.m./p.m.

Lithology (Last Sample) @: 180			Last Previous Change @: 140		
80	%	SHALE	30	%	SHALE
20	%	SANDSTONE	70	%	SANDSTONE
	%			%	

Show/Drilling Breaks

Interval	ROP	Lithology	Gas	% Fluorescence	Cut	Porosity
-						
-						
-						
-						

Gas

Current BGG:		Max Last 24 hrs:		Conn Gas:		Trip Gas:		Survey/DT Gas:	
C-1	%	C-1	%	C-1	%	C-1	%	C-1	%
C-2	%	C-2	%	C-2	%	C-2	%	C-2	%
C-3	%	C-3	%	C-3	%	C-3	%	C-3	%
1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%
N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%

Correlations: Top of @ ', -
We are ' high/low to
Top of @ ', -
We are ' high/low to

Expecting Top of: TERTIARY VOLCANICS @ 200 ', -

Drilling Conditions:

@		@	145'	Trip:	Hrs	Deviation
HOB		WT	8.5	@		° @ '
WOB	N/A	vis	50	Reason:		° @ '
RPM	N/A	pH	10.5			° @ '
PP	50	CL	120	NB#:		° @ '
SPM	N/A	WL		Type:		° @ '

Driller's Log

Time	Operation
0500 - 2220	MIXING MUD
2220 - 2245	DRILLED FROM 176' - 206'
2245 - 0500	CIRCULATING WAITING FOR NEW MOTOR

Calibrations:

TOTAL GAS
Catalytic Combustion
1% Methane

units	115	100
volts	-2.085mV	2.665mV
	before	after

CALIBRATIONS
Thermal Conduct
10% Methane

units	2533	1000
volts	2.665mV	3.307mV
	before	after

CHROMATOGRAPH

Div.	Sec.	%
C-1	5.0-30.0	100
C-2	33.0-65.25	200
C-3	68.0-115.5	300
C-4	128.0-181.5	400
NC-4	191.5-251.25	400

Filament Change: type METAL , GREEN ' METAL time.

Gas Trap:
Rig Air Motor ELECTRIC
Transfer Time 120 SEC
Trap Cleaned (date)

Chromatograph Settings:
Carrier Air Pressure 5.96 psi,
Cycle Time 280 sec.

Logging Team: Team Leader: TOM SELMAN Team Lead Logger: JED JENKINS Team Logger: WALTER MOCKLER

Comments: CLOGGED MUD MOTOR, WAITING FOR A NEW ONE FROM BAKERSFIELD

SELMAN AND ASSOCIATES, LTD.
GEOLOGICAL CONSULTING / SURFACE LOGGING SERVICES

Morning Report

Company: PIONEER NATURAL RESOURCES USA, INC. Date: 9/25/2010 Day: 10

Well Name: SOUTH HILLS FEDERAL 6-1 Prepared by: JED JENKINS

Current Operations: TIH WITH NEW MOTOR Unit Phone Number: 432/385-4428 - 432/288-2228

TD: 206' Time: 0500 Drill Rate: N/A Min/Ft N/A Ft/Hr

Current BGG: 5u Max Last 24 hrs: 5u Conn Gas: Trip Gas: Survey/DT Gas:

Current Lag Time @ ' = 4.65 Minutes or 419 Lag Strokes

Made 0 ' in the last 24 hours. Company Representative called: CALEB POLLOCK @ 0830 a.m./p.m.

Lithology (Last Sample) @: 180			Last Previous Change @: 140		
80	%	SHALE	30	%	SHALE
20	%	SANDSTONE	70	%	SANDSTONE
	%			%	

Show/Drilling Breaks

Interval	ROP	Lithology	Gas	% Fluorescence	Cut	Porosity
-						
-						
-						
-						

Gas

Current BGG:		Max Last 24 hrs:		Conn Gas:		Trip Gas:		Survey/DT Gas:	
C-1	%	C-1	%	C-1	%	C-1	%	C-1	%
C-2	%	C-2	%	C-2	%	C-2	%	C-2	%
C-3	%	C-3	%	C-3	%	C-3	%	C-3	%
1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%
N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%

Correlations: Top of @ ', -
We are ' high/low to
Top of @ ', -
We are ' high/low to

Expecting Top of: TERTIARY VOLCANICS @ 200 ', -

Drilling Conditions:

@		@ 206'		Trip: Hrs		Deviation	
HOB		WT	8.5	@		° @	'
WOB	N/A	vis	46	Reason:		° @	'
RPM	N/A	pH	10.0			° @	'
PP	50	CL	120	NB#:		° @	'
SPM	N/A	WL		Type:		° @	'

Driller's Log

Time 0500 - 0500	Operation CIRCULATED LCM OUT OF HOLE

Calibrations:

TOTAL GAS
Catalytic Combustion
1% Methane

units	115	100
volts	-2.085mV	2.665mV
	before	after

CALIBRATIONS
Thermal Conduct
10% Methane

units	2533	1000
volts	2.665mV	3.307mV
	before	after

CHROMATOGRAPH

Div.	Sec.	%
C-1	5.0-30.0	100
C-2	33.0-65.25	200
C-3	68.0-115.5	300
C-4	128.0-181.5	400
NC-4	191.5-251.25	400

Filament Change: type METAL , GREEN ' METAL time.

Gas Trap:
Rig Air Motor ELECTRIC
Transfer Time 120 SEC
Trap Cleaned (date)

Chromatograph Settings:
Carrier Air Pressure 5.96 psi,
Cycle Time 280 sec.

Logging Team: Team Leader: TOM SELMAN Team Lead Logger: JED JENKINS Team Logger: WALTER MOCKLER

Comments: TIH WITH NEW MOTOR

SELMAN AND ASSOCIATES, LTD.
GEOLOGICAL CONSULTING / SURFACE LOGGING SERVICES

Morning Report

Company: PIONEER NATURAL RESOURCES USA, INC. Date: 9/26/2010 Day: 11

Well Name: SOUTH HILLS FEDERAL 6-1 Prepared by: JED JENKINS

Current Operations: DRILLING @ 1100' Unit Phone Number: 432/385-4428 - 432/288-2228

TD: 206' Time: 0500 Drill Rate: N/A Min/Ft N/A Ft/Hr

Current BGG: 5u Max Last 24 hrs: 5u Conn Gas: Trip Gas: Survey/DT Gas:

Current Lag Time @ ' = 4.65 Minutes or 2200 Lag Strokes

Made 0 ' in the last 24 hours. Company Representative called: CALEB POLLOCK @ 0830 a.m./p.m.

Lithology (Last Sample) @: 1110			Last Previous Change @: 1050		
70	%	SANDSTONE	80	%	SANDSTONE
30	%	VOLCANICS	20	%	VOLCANICS
	%			%	

Show/Drilling Breaks

Interval	ROP	Lithology	Gas	% Fluorescence	Cut	Porosity
-						
-						
-						
-						

Gas

Current BGG:		Max Last 24 hrs:		Conn Gas:		Trip Gas:		Survey/DT Gas:	
C-1	%	C-1	%	C-1	%	C-1	%	C-1	%
C-2	%	C-2	%	C-2	%	C-2	%	C-2	%
C-3	%	C-3	%	C-3	%	C-3	%	C-3	%
1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%
N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%

Correlations: Top of @ ' , -
We are ' high/low to
Top of @ ' , -
We are ' high/low to

Expecting Top of: NORTH HORN FORMATION @ 3100 ' , -

Drilling Conditions:

@		@	1011'	Trip:	Hrs	Deviation
HOB		WT	8.5	@		° @ '
WOB	N/A	vis	48	Reason:		° @ '
RPM	N/A	pH	10.0			° @ '
PP	50	CL	120	NB#:		° @ '
SPM	N/A	WL		Type:		° @ '

Driller's Log

Time	0500 - 0500	Operation	DRILLED FROM 206' - 1100'

Calibrations:

TOTAL GAS
Catalytic Combustion
1% Methane

units	115	100
volts	-2.085mV	2.665mV
	before	after

CALIBRATIONS
Thermal Conduct
10% Methane

units	2533	1000
volts	2.665mV	3.307mV
	before	after

CHROMATOGRAPH

Div.	Sec.	%
C-1	5.0-30.0	100
C-2	33.0-65.25	200
C-3	68.0-115.5	300
C-4	128.0-181.5	400
NC-4	191.5-251.25	400

Filament Change: type METAL , GREEN ' METAL time.

Gas Trap:
Rig Air Motor ELECTRIC
Transfer Time 120 SEC
Trap Cleaned (date)

Chromatograph Settings:
Carrier Air Pressure 5.96 psi,
Cycle Time 280 sec.

Logging Team: Team Leader: TOM SELMAN Team Lead Logger: JED JENKINS Team Logger: WALTER MOCKLER

Comments: DRILLING @ 1100'

SELMAN AND ASSOCIATES, LTD.
GEOLOGICAL CONSULTING / SURFACE LOGGING SERVICES

Morning Report

Company: PIONEER NATURAL RESOURCES USA, INC. Date: 9/27/2010 Day: 12

Well Name: SOUTH HILLS FEDERAL 6-1 Prepared by: JED JENKINS

Current Operations: DRILLING @ 1585' Unit Phone Number: 432/385-4428 - 432/288-2228

TD: 1590' Time: 0500 Drill Rate: 2.25 Min/Ft N/A Ft/Hr

Current BGG: 8u Max Last 24 hrs: 8u Conn Gas: Trip Gas: Survey/DT Gas:

Current Lag Time @ ' = 4.65 Minutes or 2200 Lag Strokes

Made 1384 ' in the last 24 hours. Company Representative called: CALEB POLLOCK @ 0830 a.m./p.m.

Lithology (Last Sample) @: 1570			Last Previous Change @: 1540		
35	%	SANDSTONE	25	%	SANDSTONE
65	%	VOLCANICS	75	%	VOLCANICS
	%			%	

Show/Drilling Breaks

Interval	ROP	Lithology	Gas	% Fluorescence	Cut	Porosity
-						
-						
-						
-						

Gas

Current BGG: 8u		Max Last 24 hrs:		Conn Gas:		Trip Gas:		Survey/DT Gas:	
C-1	8 %	C-1	%	C-1	%	C-1	%	C-1	%
C-2	0 %	C-2	%	C-2	%	C-2	%	C-2	%
C-3	0 %	C-3	%	C-3	%	C-3	%	C-3	%
1-C-4	0 %	1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%
N-C-4	0 %	N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%

Correlations: Top of TERTIARY VOLCANICS @ 270 ' , -
We are ' high/low to
Top of @ ' , -
We are ' high/low to

Expecting Top of: NORTH HORN FORMATION @ 3100 ' , -

Drilling Conditions:

@		@ 1011'		Trip: Hrs	Deviation
HOB		WT	8.5	@	° @ '
WOB	N/A	vis	48	Reason:	° @ '
RPM	N/A	pH	10.0		° @ '
PP	50	CL	120	NB#:	° @ '
SPM	N/A	WL		Type:	° @ '

Driller's Log

Time	Operation
0500-1400	DRILL TO 1330'
1400-2200	POOH & RIH @ 1330'
2200-0500	DRILL FROM 1330' TO 1590'

Calibrations:

TOTAL GAS
Catalytic Combustion
1% Methane

units	115	100
volts	-2.085mV	2.665mV
	before	after

CALIBRATIONS
Thermal Conduct
10% Methane

units	2533	1000
volts	2.665mV	3.307mV
	before	after

CHROMATOGRAPH

Div.	Sec.	%
C-1	19.5-34.75	100
C-2	35.00-55.25	200
C-3	67.75-94.00	300
C-4	128.3-162.00	400
NC-4	189.3-225.3	400

Filament Change: type METAL , GREEN ' METAL time.

Gas Trap:
Rig Air Motor ELECTRIC
Transfer Time 120 SEC
Trap Cleaned (date)

Chromatograph Settings:
Carrier Air Pressure 5.96 psi,
Cycle Time 280 sec.

Logging Team: Team Leader: TOM SELMAN Team Lead Logger: JED JENKINS Team Logger: WALTER MOCKLER

Comments: DRILLING @ 1590'

SELMAN AND ASSOCIATES, LTD.
GEOLOGICAL CONSULTING / SURFACE LOGGING SERVICES

Morning Report

Company: PIONEER NATURAL RESOURCES USA, INC. Date: 9/28/2010 Day: 13

Well Name: SOUTH HILLS FEDERAL 6-1 Prepared by: JED JENKINS

Current Operations: DRILLING @ 2114' Unit Phone Number: 432/385-4428 - 432/288-2228

TD: 2114' Time: 0500 Drill Rate: 2.25 Min/Ft N/A Ft/Hr

Current BGG: 14u Max Last 24 hrs: 17u Conn Gas: Trip Gas: Survey/DT Gas:

Current Lag Time @ ' = 4.65 Minutes or 2200 Lag Strokes

Made 524 ' in the last 24 hours. Company Representative called: CALEB POLLOCK @ 0830 a.m./p.m.

Lithology (Last Sample) @: 2100			Last Previous Change @: 2080		
45	%	GRANITE WASH	40	%	GRANITE WASH
30	%	SANDSTONE	30	%	SANDSTONE
25	%	LIMESTONE	30	%	LIMESTONE

Show/Drilling Breaks

Interval	ROP	Lithology	Gas	% Fluorescence	Cut	Porosity
-						
-						
-						
-						

Gas

Current BGG: 14u		Max Last 24 hrs: 17u		Conn Gas:		Trip Gas:		Survey/DT Gas:	
C-1	14 %	C-1	17 %	C-1	%	C-1	%	C-1	%
C-2	0 %	C-2	%	C-2	%	C-2	%	C-2	%
C-3	0 %	C-3	%	C-3	%	C-3	%	C-3	%
1-C-4	0 %	1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%
N-C-4	0 %	N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%

Correlations: Top of TERTIARY VOLCANICS @ 270 ', -
We are ' high/low to
Top of @ ', -
We are ' high/low to

Expecting Top of: NORTH HORN FORMATION @ 3100 ', -

Drilling Conditions:

@ 2114'	@ 1011'	Trip: Hrs	Deviation
HOB	WT 8.5	@	° @ '
WOB 7k	vis 48	Reason:	° @ '
RPM 0	pH 10.0		° @ '
PP 50	CL 120	NB#:	° @ '
SPM 218	WL	Type:	° @ '

Driller's Log

Time 0500-0500	Operation DRILL TO 1590' TO 2119'

Calibrations:

TOTAL GAS
Catalytic Combustion
1% Methane

units	115	100
volts	-2.085mV	2.665mV
	before	after

CALIBRATIONS
Thermal Conduct
10% Methane

units	2533	1000
volts	2.665mV	3.307mV
	before	after

CHROMATOGRAPH

Div.	Sec.	%
C-1	19.5-34.75	100
C-2	35.00-55.25	200
C-3	67.75-94.00	300
C-4	128.3-162.00	400
NC-4	189.3-225.3	400

Filament Change: type METAL , GREEN ' METAL time.

Gas Trap:
Rig Air Motor ELECTRIC
Transfer Time 120 SEC
Trap Cleaned (date)

Chromatograph Settings:
Carrier Air Pressure 5.96 psi,
Cycle Time 280 sec.

Logging Team: Team Leader: TOM SELMAN Team Lead Logger: JED JENKINS Team Logger: WALTER MOCKLER

Comments: DRILLING AHEAD @ 2114'

SELMAN AND ASSOCIATES, LTD.
GEOLOGICAL CONSULTING / SURFACE LOGGING SERVICES

Morning Report

Company: PIONEER NATURAL RESOURCES USA, INC. Date: 9/29/2010 Day: 14

Well Name: SOUTH HILLS FEDERAL 6-1 Prepared by: JED JENKINS

Current Operations: DRILLING 37 FT/HR @ 2409' Unit Phone Number: 432/385-4428 - 432/288-2228

TD: 2409' Time: 0500 Drill Rate: 2.25 Min/Ft N/A Ft/Hr

Current BGG: 18u Max Last 24 hrs: 554u Conn Gas: 554u Trip Gas: 18u Survey/DT Gas:

Current Lag Time @ ' = 4.65 Minutes or 4340 Lag Strokes

Made 295 ' in the last 24 hours. Company Representative called: CALEB POLLOCK @ 0830 a.m./p.m.

Lithology (Last Sample) @: 2400			Last Previous Change @: 2370		
70	%	GRANITE WASH	70	%	GRANITE WASH
30	%	SANDSTONE	30	%	SANDSTONE
	%			%	

Show/Drilling Breaks

Interval	ROP	Lithology	Gas	% Fluorescence	Cut	Porosity
-						
-						
-						
-						

Gas

Current BGG: 18u		Max Last 24 hrs: 554u		Conn Gas: 554u		Trip Gas: 18u		Survey/DT Gas:	
C-1	18 %	C-1	554 %	C-1	554 %	C-1	18 %	C-1	%
C-2	0 %	C-2	%	C-2	%	C-2	%	C-2	%
C-3	0 %	C-3	%	C-3	%	C-3	%	C-3	%
1-C-4	0 %	1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%
N-C-4	0 %	N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%

Correlations: Top of TERTIARY VOLCANICS @ 270 ' , -
We are ' high/low to
Top of @ ' , -
We are ' high/low to

Expecting Top of: NORTH HORN FORMATION @ 3100 ' , -

Drilling Conditions:

@ 2114'	@ 1011'	Trip: Hrs	Deviation
HOB	WT 8.5	@	° @ '
WOB 7k	vis 48	Reason:	° @ '
RPM 0	pH 10.0		° @ '
PP 50	CL 120	NB#:	° @ '
SPM 218	WL	Type:	° @ '

Driller's Log

Time	Operation
0500-0930	DRILL TO 2191'
0930-1010	TOOH/TIH TO SWAP OUT MUD MOTOR
1010-0500	DRILL TO 2409'

Calibrations:

TOTAL GAS
Catalytic Combustion
1% Methane

units	115	100
volts	-2.085mV	2.665mV
	before	after

CALIBRATIONS
Thermal Conduct
10% Methane

units	2533	1000
volts	2.665mV	3.307mV
	before	after

CHROMATOGRAPH

Div.	Sec.	%
C-1	19.5-34.75	100
C-2	35.00-55.25	200
C-3	67.75-94.00	300
C-4	128.3-162.00	400
NC-4	189.3-225.3	400

Filament Change: type METAL , GREEN ' METAL time.

Gas Trap:
Rig Air Motor ELECTRIC
Transfer Time 120 SEC
Trap Cleaned (date)

Chromatograph Settings:
Carrier Air Pressure 5.96 psi,
Cycle Time 280 sec.

Logging Team: Team Leader: TOM SELMAN Team Lead Logger: JED JENKINS Team Logger: WALTER MOCKLER

Comments: DRILLING AHEAD @ 2409'

SELMAN AND ASSOCIATES, LTD.
GEOLOGICAL CONSULTING / SURFACE LOGGING SERVICES

Morning Report

Company: PIONEER NATURAL RESOURCES USA, INC. Date: 9/30/2010 Day: 15

Well Name: SOUTH HILLS FEDERAL 6-1 Prepared by: JED JENKINS

Current Operations: DRILLING @ 2953' Unit Phone Number: 432/385-4428 - 432/288-2228

TD: 2953' Time: 0500 Drill Rate: 2.25 Min/Ft N/A Ft/Hr

Current BGG: 14u Max Last 24 hrs: 18u Conn Gas: 18u Trip Gas: Survey/DT Gas:

Current Lag Time @ ' = 4.65 Minutes or 4340 Lag Strokes

Made 544 ' in the last 24 hours. Company Representative called: CALEB POLLOCK @ 0830 a.m./p.m.

Lithology (Last Sample) @: 2900			Last Previous Change @: 2830		
85	%	SHALE	80	%	SHALE
15	%	LIMESTONE	20	%	LIMESTONE
	%			%	

Show/Drilling Breaks

Interval	ROP	Lithology	Gas	% Fluorescence	Cut	Porosity
-						
-						
-						
-						

Gas

Current BGG: 14u		Max Last 24 hrs: 18u		Conn Gas: 18u		Trip Gas:		Survey/DT Gas:	
C-1	14 %	C-1	18 %	C-1	18 %	C-1	%	C-1	%
C-2	0 %	C-2	%	C-2	%	C-2	%	C-2	%
C-3	0 %	C-3	%	C-3	%	C-3	%	C-3	%
1-C-4	0 %	1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%
N-C-4	0 %	N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%

Correlations: Top of TERTIARY VOLCANICS @ 270 ', -
We are ' high/low to
Top of @ ', -
We are ' high/low to

Expecting Top of: NORTH HORN FORMATION @ 3100 ', -

Drilling Conditions:

@ 2114'	@ 1011'	Trip: Hrs	Deviation
HOB	WT 8.5	@	° @ '
WOB 7k	vis 48	Reason:	° @ '
RPM 0	pH 10.0		° @ '
PP 50	CL 120	NB#:	° @ '
SPM 218	WL	Type:	° @ '

Driller's Log

Time 0500-0500	Operation DRILL FROM 2409' TO 2953'

Calibrations:

TOTAL GAS
Catalytic Combustion
1% Methane

units	115	100
volts	-2.085mV	2.665mV
	before	after

CALIBRATIONS
Thermal Conduct
10% Methane

units	2533	1000
volts	2.665mV	3.307mV
	before	after

CHROMATOGRAPH

Div.	Sec.	%
C-1	19.5-34.75	100
C-2	35.00-55.25	200
C-3	67.75-94.00	300
C-4	128.3-162.00	400
NC-4	189.3-225.3	400

Filament Change: type METAL , GREEN ' METAL time.

Gas Trap:
Rig Air Motor ELECTRIC
Transfer Time 120 SEC
Trap Cleaned (date)

Chromatograph Settings:
Carrier Air Pressure 5.96 psi,
Cycle Time 280 sec.

Logging Team: Team Leader: TOM SELMAN Team Lead Logger: JED JENKINS Team Logger: WALTER MOCKLER

Comments: DRILLING AHEAD @ 2953'

SELMAN AND ASSOCIATES, LTD.
GEOLOGICAL CONSULTING / SURFACE LOGGING SERVICES

Morning Report

Company: PIONEER NATURAL RESOURCES USA, INC. Date: 10/1/2010 Day: 16

Well Name: SOUTH HILLS FEDERAL 6-1 Prepared by: JED JENKINS

Current Operations: WORKING ON TOP DRIVE Unit Phone Number: 432/385-4428 - 432/288-2228

TD: 3447' Time: 0500 Drill Rate: N/A Min/Ft N/A Ft/Hr

Current BGG: 8u Max Last 24 hrs: 14u Conn Gas: 14u Trip Gas: Survey/DT Gas:

Current Lag Time @ ' = 4.65 Minutes or 6197 Lag Strokes

Made 494 ' in the last 24 hours. Company Representative called: CALEB POLLOCK @ 0830 a.m./p.m.

Lithology (Last Sample) @: 3440			Last Previous Change @: 3300		
85	%	LIMESTONE	85	%	LIMESTONE
15	%	SHALE	15	%	SHALE
	%			%	

Show/Drilling Breaks

Interval	ROP	Lithology	Gas	% Fluorescence	Cut	Porosity
-						
-						
-						
-						

Gas

Current BGG: 8u		Max Last 24 hrs: 14u		Conn Gas: 14u		Trip Gas:		Survey/DT Gas:	
C-1	8 %	C-1	14 %	C-1	14 %	C-1	%	C-1	%
C-2	0 %	C-2	%	C-2	%	C-2	%	C-2	%
C-3	0 %	C-3	%	C-3	%	C-3	%	C-3	%
1-C-4	0 %	1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%
N-C-4	0 %	N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%

Correlations: Top of TERTIARY VOLCANICS @ 270 ', -
We are ' high/low to
Top of @ ', -
We are ' high/low to

Expecting Top of: NORTH HORN FORMATION @ 3100 - ??? ', -

Drilling Conditions:

@ 2114'	@ 1011'	Trip: Hrs	Deviation
HOB	WT 8.5	@	° @ '
WOB 7k	vis 48	Reason:	° @ '
RPM 0	pH 10.0		° @ '
PP 50	CL 120	NB#:	° @ '
SPM 218	WL	Type:	° @ '

Driller's Log

Time	Operation
0500-1400	DRILL TO 3276'
1400-1430	RIG SERVICE
1430-0200	DRILL FROM 3276' TO 3447'
0200-0500	WORKING ON TOP DRIVE

Calibrations:

TOTAL GAS
Catalytic Combustion
1% Methane

units	115	100
volts	-2.085mV	2.665mV
	before	after

CALIBRATIONS
Thermal Conduct
10% Methane

units	2533	1000
volts	2.665mV	3.307mV
	before	after

CHROMATOGRAPH

Div.	Sec.	%
C-1	19.5-34.75	100
C-2	35.00-55.25	200
C-3	67.75-94.00	300
C-4	128.3-162.00	400
NC-4	189.3-225.3	400

Filament Change: type METAL , GREEN ' METAL time.

Gas Trap:
Rig Air Motor ELECTRIC
Transfer Time 120 SEC
Trap Cleaned (date)

Chromatograph Settings:
Carrier Air Pressure 5.96 psi,
Cycle Time 280 sec.

Logging Team: Team Leader: TOM SELMAN Team Lead Logger: JED JENKINS Team Logger: WALTER MOCKLER

Comments:

SELMAN AND ASSOCIATES, LTD.
GEOLOGICAL CONSULTING / SURFACE LOGGING SERVICES

Morning Report

Company: PIONEER NATURAL RESOURCES USA, INC. Date: 10/2/2010 Day: 17

Well Name: SOUTH HILLS FEDERAL 6-1 Prepared by: JED JENKINS

Current Operations: DRILLING @ 3465' Unit Phone Number: 432/385-4428 - 432/288-2228

TD: 3465' Time: 0500 Drill Rate: 5.2 Min/Ft 12.45 Ft/Hr

Current BGG: 8u Max Last 24 hrs: 8u Conn Gas: Trip Gas: Survey/DT Gas:

Current Lag Time @ 29.37 ' = Minutes or 6228 Lag Strokes

Made 18 ' in the last 24 hours. Company Representative called: CALEB POLLOCK @ 0830 a.m./p.m.

Lithology (Last Sample) @: 3460			Last Previous Change @: 3430		
75	%	LIMESTONE	85	%	LIMESTONE
25	%	SHALE	15	%	SHALE
	%			%	

Show/Drilling Breaks

Interval	ROP	Lithology	Gas	% Fluorescence	Cut	Porosity
-						
-						
-						
-						

Gas

Current BGG: 8u		Max Last 24 hrs: 9u		Conn Gas:		Trip Gas:		Survey/DT Gas:	
C-1	8 %	C-1	9 %	C-1	%	C-1	%	C-1	%
C-2	0 %	C-2	%	C-2	%	C-2	%	C-2	%
C-3	0 %	C-3	%	C-3	%	C-3	%	C-3	%
1-C-4	0 %	1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%
N-C-4	0 %	N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%

Correlations: Top of TERTIARY VOLCANICS @ 270 ' , -
We are ' high/low to
Top of FLAGSTAFF FORMATION @ 3250 ' , -
We are ' high/low to

Expecting Top of: NORTH HORN FORMATION @ 3850 ' , -

Drilling Conditions:

@ 3465'	@ 3447'	Trip: 3 Hrs	Deviation
HOB	WT 8.5	@ 3447'	° @ '
WOB 14.5k	vis 49	Reason: NEW MOTOR	° @ '
RPM 0	pH 9.0		° @ '
PP 2,220	CL 120	NB#: N/A	° @ '
SPM 212	WL	Type: N/A	° @ '

Driller's Log

Time	Operation
0500-0330	TOOH/RIH FOR NEW MOTOR
0330-0500	DRILL FROM 3447' TO 3465'

Calibrations:

TOTAL GAS
Catalytic Combustion
1% Methane

units	115	100
volts	-2.085mV	2.665mV
	before	after

CALIBRATIONS
Thermal Conduct
10% Methane

units	2533	1000
volts	2.665mV	3.307mV
	before	after

CHROMATOGRAPH

Div.	Sec.	%
C-1	19.5-34.75	100
C-2	35.00-55.25	200
C-3	67.75-94.00	300
C-4	128.3-162.00	400
NC-4	189.3-225.3	400

Filament Change: type METAL , GREEN ' METAL time.

Gas Trap:
Rig Air Motor ELECTRIC
Transfer Time 120 SEC
Trap Cleaned (date)

Chromatograph Settings:
Carrier Air Pressure 5.96 psi,
Cycle Time 280 sec.

Logging Team: Team Leader: TOM SELMAN Team Lead Logger: JED JENKINS Team Logger: WALTER MOCKLER

Comments:

SELMAN AND ASSOCIATES, LTD.
GEOLOGICAL CONSULTING / SURFACE LOGGING SERVICES

Morning Report

Company: PIONEER NATURAL RESOURCES USA, INC. Date: 10/3/2010 Day: 18

Well Name: SOUTH HILLS FEDERAL 6-1 Prepared by: JED JENKINS

Current Operations: DRILLING @ 3742' Unit Phone Number: 432/385-4428 - 432/288-2228

TD: 3742' Time: 0500 Drill Rate: 5.7 Min/Ft 10.3 Ft/Hr

Current BGG: 10u Max Last 24 hrs: 10u Conn Gas: Trip Gas: Survey/DT Gas:

Current Lag Time @ 33.14 ' = Minutes or 6727 Lag Strokes

Made 277 ' in the last 24 hours. Company Representative called: CALEB POLLOCK @ 0830 a.m./p.m.

Lithology (Last Sample) @: 3730			Last Previous Change @: 3720		
45	%	SANDSTONE	55	%	SANDSTONE
30	%	DOLOSTONE	30	%	DOLOSTONE
25	%	SHALE	15	%	SHALE

Show/Drilling Breaks

Interval	ROP	Lithology	Gas	% Fluorescence	Cut	Porosity
-						
-						
-						
-						

Gas

Current BGG: 10u		Max Last 24 hrs: 10u		Conn Gas:		Trip Gas:		Survey/DT Gas:	
C-1	10 %	C-1	10 %	C-1	%	C-1	%	C-1	%
C-2	0 %	C-2	%	C-2	%	C-2	%	C-2	%
C-3	0 %	C-3	%	C-3	%	C-3	%	C-3	%
1-C-4	0 %	1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%
N-C-4	0 %	N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%

Correlations: Top of TERTIARY VOLCANICS @ 270 ' , -
We are ' high/low to
Top of FLAGSTAFF FORMATION @ 3250 ' , -
We are ' high/low to

Expecting Top of: NORTH HORN FORMATION @ 3850 ' , -

Drilling Conditions:

@ 3742'	@ 3447'	Trip: 3 Hrs	Deviation
HOB	WT 8.5	@ 3447'	° @ '
WOB 22k	vis 49	Reason: NEW MOTOR	° @ '
RPM 0	pH 9.0		° @ '
PP 2,420	CL 120	NB#: N/A	° @ '
SPM 204	WL	Type: N/A	° @ '

Driller's Log

Time 0500-0500	Operation DRILL FROM 3465' TO 3742'

Calibrations:

TOTAL GAS
Catalytic Combustion
1% Methane

units	115	100
volts	-2.085mV	2.665mV
	before	after

CALIBRATIONS
Thermal Conduct
10% Methane

units	2533	1000
volts	2.665mV	3.307mV
	before	after

CHROMATOGRAPH

Div.	Sec.	%
C-1	19.5-34.75	100
C-2	35.00-55.25	200
C-3	67.75-94.00	300
C-4	128.3-162.00	400
NC-4	189.3-225.3	400

Filament Change: type METAL , GREEN ' METAL time.

Gas Trap:
Rig Air Motor ELECTRIC
Transfer Time 120 SEC
Trap Cleaned (date)

Chromatograph Settings:
Carrier Air Pressure 5.96 psi,
Cycle Time 280 sec.

Logging Team: Team Leader: TOM SELMAN Team Lead Logger: JED JENKINS Team Logger: WALTER MOCKLER

Comments:

SELMAN AND ASSOCIATES, LTD.
GEOLOGICAL CONSULTING / SURFACE LOGGING SERVICES

Morning Report

Company: PIONEER NATURAL RESOURCES USA, INC. Date: 10/4/2010 Day: 19

Well Name: SOUTH HILLS FEDERAL 6-1 Prepared by: JED JENKINS

Current Operations: DRILLING @ 3810' Unit Phone Number: 432/385-4428 - 432/288-2228

TD: 3810' Time: 0500 Drill Rate: 6.5 Min/Ft 7.6 Ft/Hr

Current BGG: 12u Max Last 24 hrs: 26u Conn Gas: Trip Gas: 26u Survey/DT Gas:

Current Lag Time @ 33.14 ' = Minutes or 6848 Lag Strokes

Made 68 ' in the last 24 hours. Company Representative called: CALEB POLLOCK @ 0830 a.m./p.m.

Lithology (Last Sample) @: 3800			Last Previous Change @: 3780		
40	%	SANDSTONE	20	%	SANDSTONE
35	%	DOLOSTONE	45	%	DOLOSTONE
25	%	SHALE	35	%	SHALE

Show/Drilling Breaks

Interval	ROP	Lithology	Gas	% Fluorescence	Cut	Porosity
-						
-						
-						
-						

Gas

Current BGG: 12u		Max Last 24 hrs: 26u		Conn Gas:		Trip Gas: 26u		Survey/DT Gas:	
C-1	12 %	C-1	26 %	C-1	%	C-1	26 %	C-1	%
C-2	0 %	C-2	%	C-2	%	C-2	%	C-2	%
C-3	0 %	C-3	%	C-3	%	C-3	%	C-3	%
1-C-4	0 %	1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%
N-C-4	0 %	N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%

Correlations: Top of TERTIARY VOLCANICS @ 270 ' , -
We are ' high/low to
Top of FLAGSTAFF FORMATION @ 3250 ' , -
We are ' high/low to

Expecting Top of: NORTH HORN FORMATION @ 3850 ' , -

Drilling Conditions:

@ 3810'	@ 3810'	Trip: 4 Hrs	Deviation
HOB	WT 8.5	@ 3754'	° @ '
WOB 22k	vis 49	Reason: NEW MOTOR/BIT	° @ '
RPM 0	pH 9.0		° @ '
PP 2,420	CL 120	NB#: 6079026	° @ '
SPM 204	WL	Type: HTC MLX-09	° @ '

Driller's Log

Time	Operation
0500-1100	TOOH/TIH W/ NEW MOTOR/BIT
1100-0500	DRILL FROM 3742' TO 3810'

Calibrations:

TOTAL GAS
Catalytic Combustion
1% Methane

units	115	100
volts	-2.085mV	2.665mV
	before	after

CALIBRATIONS
Thermal Conduct
10% Methane

units	2533	1000
volts	2.665mV	3.307mV
	before	after

CHROMATOGRAPH

Div.	Sec.	%
C-1	19.5-34.75	100
C-2	35.00-55.25	200
C-3	67.75-94.00	300
C-4	128.3-162.00	400
NC-4	189.3-225.3	400

Filament Change: type METAL , GREEN ' METAL time.

Gas Trap:
Rig Air Motor ELECTRIC
Transfer Time 120 SEC
Trap Cleaned (date)

Chromatograph Settings:
Carrier Air Pressure 5.96 psi,
Cycle Time 280 sec.

Logging Team: Team Leader: TOM SELMAN Team Lead Logger: JED JENKINS Team Logger: WALTER MOCKLER

Comments:

SELMAN AND ASSOCIATES, LTD.
GEOLOGICAL CONSULTING / SURFACE LOGGING SERVICES

Morning Report

Company: PIONEER NATURAL RESOURCES USA, INC. Date: 10/5/2010 Day: 20

Well Name: SOUTH HILLS FEDERAL 6-1 Prepared by: JED JENKINS

Current Operations: RIH @ 3881' Unit Phone Number: 432/385-4428 - 432/288-2228

TD: 3907' Time: 0500 Drill Rate: 6.5 Min/Ft 7.6 Ft/Hr

Current BGG: 11u Max Last 24 hrs: 26u Conn Gas: Trip Gas: 26u Survey/DT Gas:

Current Lag Time @ 33.14 ' = Minutes or 6848 Lag Strokes

Made 97 ' in the last 24 hours. Company Representative called: CALEB POLLOCK @ 0830 a.m./p.m.

Lithology (Last Sample) @: 3900			Last Previous Change @: 3880		
70	%	SHALE	60	%	SHALE
15	%	SANDSTONE	25	%	SANDSTONE
10	%	DOLOMITE	10	%	DOLOMITE

Show/Drilling Breaks

Interval	ROP	Lithology	Gas	% Fluorescence	Cut	Porosity
-						
-						
-						
-						

Gas

Current BGG: 12u		Max Last 24 hrs: 26u		Conn Gas:		Trip Gas: 26u		Survey/DT Gas:	
C-1	12 %	C-1	26 %	C-1	%	C-1	26 %	C-1	%
C-2	0 %	C-2	%	C-2	%	C-2	%	C-2	%
C-3	0 %	C-3	%	C-3	%	C-3	%	C-3	%
1-C-4	0 %	1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%
N-C-4	0 %	N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%

Correlations: Top of NORTH HORN FORMATION @ 3810 ' , -
We are ' high/low to
Top of FLAGSTAFF FORMATION @ 3250 ' , -
We are ' high/low to

Expecting Top of: ARAPIEN FORMATION @ 4000? ' , -

Drilling Conditions:

@ 3810'	@ 3810'	Trip: 5 Hrs	Deviation
HOB	WT 8.5	@ 3907'	° @ '
WOB 22k	vis 49	Reason: NEW MOTOR/BIT	° @ '
RPM 0	pH 9.0		° @ '
PP 2,420	CL 120	NB#:	° @ '
SPM 204	WL	Type:	° @ '

Driller's Log

Time	Operation
0500-0715	DRILL FROM 3810' TO 3907'
0715-0500	TOOH/TIH

Calibrations:

TOTAL GAS
Catalytic Combustion
1% Methane

units	115	100
volts	-2.085mV	2.665mV
	before	after

CALIBRATIONS
Thermal Conduct
10% Methane

units	2533	1000
volts	2.665mV	3.307mV
	before	after

CHROMATOGRAPH

Div.	Sec.	%
C-1	19.5-34.75	100
C-2	35.00-55.25	200
C-3	67.75-94.00	300
C-4	128.3-162.00	400
NC-4	189.3-225.3	400

Filament Change: type METAL , GREEN ' METAL time.

Gas Trap:
Rig Air Motor ELECTRIC
Transfer Time 120 SEC
Trap Cleaned (date)

Chromatograph Settings:
Carrier Air Pressure 5.96 psi,
Cycle Time 280 sec.

Logging Team: Team Leader: TOM SELMAN Team Lead Logger: JED JENKINS Team Logger: WALTER MOCKLER

Comments: ALMOST BOB @ TIME OF REPORT

SELMAN AND ASSOCIATES, LTD.
GEOLOGICAL CONSULTING / SURFACE LOGGING SERVICES

Morning Report

Company: PIONEER NATURAL RESOURCES USA, INC. Date: 10/6/2010 Day: 21

Well Name: SOUTH HILLS FEDERAL 6-1 Prepared by: JED JENKINS

Current Operations: MAKING CONNECTION @ 4,30' Unit Phone Number: 432/385-4428 - 432/288-2228

TD: 4130' Time: 0500 Drill Rate: 6.5 Min/Ft 7.6 Ft/Hr

Current BGG: 8u Max Last 24 hrs: 11u Conn Gas: Trip Gas: Survey/DT Gas:

Current Lag Time @ 36 ' = Minutes or 7425 Lag Strokes

Made 223 ' in the last 24 hours. Company Representative called: CALEB POLLOCK @ 0830 a.m./p.m.

Lithology (Last Sample) @: 4120			Last Previous Change @: 4100		
85	%	SHALE	75	%	SHALE
10	%	DOLOMITE	15	%	DOLOMITE
5	%	LIMESTONE	10	%	LIMESTONE

Show/Drilling Breaks

Interval	ROP	Lithology	Gas	% Fluorescence	Cut	Porosity
-						
-						
-						
-						

Gas

Current BGG: 8u	Max Last 24 hrs: 11u	Conn Gas:	Trip Gas:	Survey/DT Gas:
C-1 8 %	C-1 11 %	C-1 %	C-1 %	C-1 %
C-2 %	C-2 %	C-2 %	C-2 %	C-2 %
C-3 %	C-3 %	C-3 %	C-3 %	C-3 %
1-C-4 %	1-C-4 %	1-C-4 %	1-C-4 %	1-C-4 %
N-C-4 %	N-C-4 %	N-C-4 %	N-C-4 %	N-C-4 %

Correlations: Top of NORTH HORN FORMATION @ 3810 ' , -
We are ' high/low to
Top of FLAGSTAFF FORMATION @ 3250 ' , -
We are ' high/low to

Expecting Top of: ARAPIEN FORMATION @ 4300??? ' , -

Drilling Conditions:

@ 4130'	@ 4120'	Trip: Hrs	Deviation
HOB	WT 8.5	@	° @ '
WOB N/A	vis 52	Reason:	° @ '
RPM N/A	pH		° @ '
PP N/A	CL	NB#:	° @ '
SPM N/A	WL	Type:	° @ '

Driller's Log

Time	Operation
0500-0715	TIH W/ NEW BIT
0715-0500	DRILLING FROM 3907' TO 4130'

Calibrations:

TOTAL GAS
Catalytic Combustion
1% Methane

units	115	100
volts	-2.085mV	2.665mV
	before	after

CALIBRATIONS
Thermal Conduct
10% Methane

units	2533	1000
volts	2.665mV	3.307mV
	before	after

CHROMATOGRAPH

Div.	Sec.	%
C-1	19.5-34.75	100
C-2	35.00-55.25	200
C-3	67.75-94.00	300
C-4	128.3-162.00	400
NC-4	189.3-225.3	400

Filament Change: type METAL , GREEN ' METAL time.

Gas Trap:
Rig Air Motor ELECTRIC
Transfer Time 120 SECS
Trap Cleaned (date)

Chromatograph Settings:
Carrier Air Pressure 5.96 psi,
Cycle Time 280 sec.

Logging Team: Team Leader: TOM SELMAN Team Lead Logger: JED JENKINS Team Logger: WALTER MOCKLER

Comments:

SELMAN AND ASSOCIATES, LTD.
GEOLOGICAL CONSULTING / SURFACE LOGGING SERVICES

Morning Report

Company: PIONEER NATURAL RESOURCES USA, INC. Date: 10/7/2010 Day: 22

Well Name: SOUTH HILLS FEDERAL 6-1 Prepared by: JED JENKINS

Current Operations: CIRCULATING OFF BOTTOM @ 4298' Unit Phone Number: 432/385-4428 - 432/288-2228

TD: 4298' Time: 0500 Drill Rate: 7 Min/Ft 3 Ft/Hr

Current BGG: 10u Max Last 24 hrs: 14u Conn Gas: 14u Trip Gas: Survey/DT Gas:

Current Lag Time @ 37.6 ' = Minutes or 7764 Lag Strokes

Made 168 ' in the last 24 hours. Company Representative called: CALEB POLLOCK @ 0830 a.m./p.m.

Lithology (Last Sample) @: 4280			Last Previous Change @: 4260		
80	%	DOLOMITE	75	%	DOLOMITE
15	%	LIMESTONE	15	%	LIMESTONE
5	%	SHALE	10	%	SAHLE

Show/Drilling Breaks

Interval	ROP	Lithology	Gas	% Fluorescence	Cut	Porosity
-						
-						
-						
-						

Gas

Current BGG: 10u		Max Last 24 hrs: 14u		Conn Gas: 14u		Trip Gas:		Survey/DT Gas:	
C-1	10 %	C-1	14 %	C-1	14 %	C-1	%	C-1	%
C-2	%	C-2	%	C-2	%	C-2	%	C-2	%
C-3	%	C-3	%	C-3	%	C-3	%	C-3	%
1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%
N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%

Correlations: Top of NORTH HORN FORMATION @ 3810 ' , -
We are ' high/low to
Top of FLAGSTAFF FORMATION @ 3250 ' , -
We are ' high/low to

Expecting Top of: ARAPIEN FORMATION @ 4700 ??? ' , -

Drilling Conditions:

@ 4298'	@ 4298'	Trip: Hrs	Deviation
HOB	WT 8.5	@	° @ '
WOB N/A	vis 52	Reason:	° @ '
RPM N/A	pH		° @ '
PP N/A	CL	NB#:	° @ '
SPM N/A	WL	Type:	° @ '

Driller's Log

Time	Operation
0500-1810	DRILL TO 4280'
1810-0230	RIG SERVICE - MUD PUMPS DOWN
0230-0500	DRILL FROM 4280' TO 4298'

Calibrations:

TOTAL GAS
Catalytic Combustion
1% Methane

units	115	100
volts	-2.085mV	2.665mV
	before	after

CALIBRATIONS
Thermal Conduct
10% Methane

units	2533	1000
volts	2.665mV	3.307mV
	before	after

CHROMATOGRAPH

Div.	Sec.	%
C-1	19.5-34.75	100
C-2	35.00-55.25	200
C-3	67.75-94.00	300
C-4	128.3-162.00	400
NC-4	189.3-225.3	400

Filament Change: type METAL , GREEN ' METAL time.

Gas Trap:
Rig Air Motor ELECTRIC
Transfer Time 120 SECS
Trap Cleaned (date)

Chromatograph Settings:
Carrier Air Pressure 5.96 psi,
Cycle Time 280 sec.

Logging Team: Team Leader: TOM SELMAN Team Lead Logger: JED JENKINS Team Logger: WALTER MOCKLER

Comments: CIRCULATING OFF BOTTOM

SELMAN AND ASSOCIATES, LTD.
GEOLOGICAL CONSULTING / SURFACE LOGGING SERVICES

Morning Report

Company: PIONEER NATURAL RESOURCES USA, INC. Date: 10/8/2010 Day: 23

Well Name: SOUTH HILLS FEDERAL 6-1 Prepared by: JED JENKINS

Current Operations: WAITING TO RIH Unit Phone Number: 432/385-4428 - 432/288-2228

TD: 4313' Time: 0500 Drill Rate: N/A Min/Ft N/A Ft/Hr

Current BGG: 11u Max Last 24 hrs: 11u Conn Gas: Trip Gas: Survey/DT Gas:

Current Lag Time @ 37.8 ' = Minutes or 7795 Lag Strokes

Made 15 ' in the last 24 hours. Company Representative called: CALEB POLLOCK @ 0830 a.m./p.m.

Lithology (Last Sample) @: 4310			Last Previous Change @: 4300		
75	%	DOLOMITE	85	%	SHALE
10	%	LIMESTONE	10	%	DOLOMITE
15	%	SHALE	5	%	LIMESTONE

Show/Drilling Breaks

Interval	ROP	Lithology	Gas	% Fluorescence	Cut	Porosity
-						
-						
-						
-						

Gas

Current BGG: 11u		Max Last 24 hrs: 11u		Conn Gas:		Trip Gas:		Survey/DT Gas:	
C-1	11 %	C-1	11 %	C-1	%	C-1	%	C-1	%
C-2	%	C-2	%	C-2	%	C-2	%	C-2	%
C-3	%	C-3	%	C-3	%	C-3	%	C-3	%
1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%
N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%

Correlations: Top of NORTH HORN FORMATION @ 3810 ' , -
We are ' high/low to
Top of FLAGSTAFF FORMATION @ 3250 ' , -
We are ' high/low to

Expecting Top of: ARAPIEN FORMATION @ 4800 ??? ' , -

Drilling Conditions:

@ 4313'	@ 4313'	Trip: Hrs	Deviation
HOB	WT 8.5	@ 4313'	° @ '
WOB N/A	vis 51	Reason: NEW MOTOR	° @ '
RPM N/A	pH		° @ '
PP N/A	CL	NB#:	° @ '
SPM N/A	WL	Type:	° @ '

Driller's Log

Time	Operation
0500-1130	DRILL TO 4313'
1130-0500	TOOH

Calibrations:

TOTAL GAS
Catalytic Combustion
1% Methane

units	115	100
volts	-2.085mV	2.665mV
	before	after

CALIBRATIONS
Thermal Conduct
10% Methane

units	2533	1000
volts	2.665mV	3.307mV
	before	after

CHROMATOGRAPH

Div.	Sec.	%
C-1	19.5-34.75	100
C-2	35.00-55.25	200
C-3	67.75-94.00	300
C-4	128.3-162.00	400
NC-4	189.3-225.3	400

Filament Change: type METAL , GREEN ' METAL time.

Gas Trap:
Rig Air Motor ELECTRIC
Transfer Time 120 SECS
Trap Cleaned (date)

Chromatograph Settings:
Carrier Air Pressure 5.96 psi,
Cycle Time 280 sec.

Logging Team: Team Leader: TOM SELMAN Team Lead Logger: JED JENKINS Team Logger: WALTER MOCKLER

Comments:

SELMAN AND ASSOCIATES, LTD.
GEOLOGICAL CONSULTING / SURFACE LOGGING SERVICES

Morning Report

Company: PIONEER NATURAL RESOURCES USA, INC. Date: 10/9/2010 Day: 24

Well Name: SOUTH HILLS FEDERAL 6-1 Prepared by: JED JENKINS

Current Operations: DRILLING AHEAD @ 4335' Unit Phone Number: 432/385-4428 - 432/288-2228

TD: 4335' Time: 0500 Drill Rate: N/A Min/Ft 3.9 Ft/Hr

Current BGG: 13u Max Last 24 hrs: 15u Conn Gas: Trip Gas: 15u Survey/DT Gas:

Current Lag Time @ 37.8 ' = Minutes or 7795 Lag Strokes

Made 22 ' in the last 24 hours. Company Representative called: CALEB POLLOCK @ 0830 a.m./p.m.

Lithology (Last Sample) @: 4330			Last Previous Change @: 4320		
60	%	SHALE	45	%	SHALE
30	%	DOLOMITE	45	%	DOLOMITE
10	%	LIMESTONE	10	%	LIMESTONE

Show/Drilling Breaks

Interval	ROP	Lithology	Gas	% Fluorescence	Cut	Porosity
-						
-						
-						
-						

Gas

Current BGG: 13u		Max Last 24 hrs: 15u		Conn Gas:		Trip Gas: 15u		Survey/DT Gas:	
C-1	13 %	C-1	15 %	C-1	%	C-1	15 %	C-1	%
C-2	%	C-2	%	C-2	%	C-2	%	C-2	%
C-3	%	C-3	%	C-3	%	C-3	%	C-3	%
1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%
N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%

Correlations: Top of NORTH HORN FORMATION @ 3810 ' , -
We are ' high/low to
Top of FLAGSTAFF FORMATION @ 3250 ' , -
We are ' high/low to

Expecting Top of: ARAPIEN FORMATION @ 4800 ??? ' , -

Drilling Conditions:

@ 4335'	@ 4320'	Trip: Hrs	Deviation
HOB	WT 8.6	@ 4313'	° @ '
WOB 28.5	vis 52	Reason: NEW MOTOR	° @ '
RPM 0	pH		° @ '
PP 2,200	CL	NB#:	° @ '
SPM 190	WL	Type:	° @ '

Driller's Log

Time	Operation
0500-1945	TIH
1945-0500	DRILL FROM 4313' TO 4335' / WORK ON MUD PUMPS

Calibrations:

TOTAL GAS
Catalytic Combustion
1% Methane

units	115	100
volts	-2.085mV	2.665mV
	before	after

CALIBRATIONS
Thermal Conduct
10% Methane

units	2533	1000
volts	2.665mV	3.307mV
	before	after

CHROMATOGRAPH

Div.	Sec.	%
C-1	19.5-34.75	100
C-2	35.00-55.25	200
C-3	67.75-94.00	300
C-4	128.3-162.00	400
NC-4	189.3-225.3	400

Filament Change: type METAL , GREEN ' METAL time.

Gas Trap:
Rig Air Motor ELECTRIC
Transfer Time 120 SECS
Trap Cleaned (date)

Chromatograph Settings:
Carrier Air Pressure 5.96 psi,
Cycle Time 280 sec.

Logging Team: Team Leader: TOM SELMAN Team Lead Logger: JED JENKINS Team Logger: WALTER MOCKLER

Comments:

SELMAN AND ASSOCIATES, LTD.
GEOLOGICAL CONSULTING / SURFACE LOGGING SERVICES

Morning Report

Company: PIONEER NATURAL RESOURCES USA, INC. Date: 10/10/2010 Day: 25

Well Name: SOUTH HILLS FEDERAL 6-1 Prepared by: JED JENKINS

Current Operations: TD'D FOR SURFACE CASING Unit Phone Number: 432/385-4428 - 432/288-2228

TD: 4345' Time: 0500 Drill Rate: N/A Min/Ft N/A Ft/Hr

Current BGG: 15u Max Last 24 hrs: 15u Conn Gas: Trip Gas: Survey/DT Gas:

Current Lag Time @ 38.1 ' = Minutes or 7848 Lag Strokes

Made 10 ' in the last 24 hours. Company Representative called: CALEB POLLOCK @ 0830 a.m./p.m.

Lithology (Last Sample) @: 4340			Last Previous Change @: 4330		
90	%	SHALE	60	%	SHALE
5	%	DOLOMITE	30	%	DOLOMITE
5	%	GYPSUM	15	%	GYPSUM

Show/Drilling Breaks

Interval	ROP	Lithology	Gas	% Fluorescence	Cut	Porosity
-						
-						
-						
-						

Gas

Current BGG: 15u		Max Last 24 hrs: 15u		Conn Gas:		Trip Gas:		Survey/DT Gas:	
C-1	15 %	C-1	15 %	C-1	%	C-1	%	C-1	%
C-2	%	C-2	%	C-2	%	C-2	%	C-2	%
C-3	%	C-3	%	C-3	%	C-3	%	C-3	%
1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%
N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%

Correlations: Top of ARAPIEN FORMATION @ 4320 ' , -
We are ' high/low to
Top of NORTH HORN FORMATION @ 3810 ' , -
We are ' high/low to

Expecting Top of: TWIN CREEK FORMATION @ 8220 ' , -

Drilling Conditions:

@ 4345'	@ 4345'	Trip: Hrs	Deviation
HOB	WT 8.6	@ 4345'	° @ '
WOB N/A	vis 52	Reason: SET SURFACE CASING	° @ '
RPM N/A	pH		° @ '
PP N/A	CL	NB#:	° @ '
SPM N/A	WL	Type:	° @ '

Driller's Log

Time	Operation
0500-0900	DRILL TO 4345'
0900-0500	TOOH TO RUN SURFACE CASING

Calibrations:

TOTAL GAS
Catalytic Combustion
1% Methane

units	115	100
volts	-2.085mV	2.665mV
	before	after

CALIBRATIONS
Thermal Conduct
10% Methane

units	2533	1000
volts	2.665mV	3.307mV
	before	after

CHROMATOGRAPH

Div.	Sec.	%
C-1	19.5-34.75	100
C-2	35.00-55.25	200
C-3	67.75-94.00	300
C-4	128.3-162.00	400
NC-4	189.3-225.3	400

Filament Change: type METAL , GREEN ' METAL time.

Gas Trap:
Rig Air Motor ELECTRIC
Transfer Time 120 SECS
Trap Cleaned (date)

Chromatograph Settings:
Carrier Air Pressure 5.96 psi,
Cycle Time 280 sec.

Logging Team: Team Leader: TOM SELMAN Team Lead Logger: JED JENKINS Team Logger: WALTER MOCKLER

Comments:

SELMAN AND ASSOCIATES, LTD.
GEOLOGICAL CONSULTING / SURFACE LOGGING SERVICES

Morning Report

Company: PIONEER NATURAL RESOURCES USA, INC. Date: 10/11/2010 Day: 26

Well Name: SOUTH HILLS FEDERAL 6-1 Prepared by: JED JENKINS

Current Operations: CASING AND CEMENTING Unit Phone Number: 432/385-4428 - 432/288-2228

TD: 4345' Time: 0500 Drill Rate: N/A Min/Ft N/A Ft/Hr

Current BGG: 12u Max Last 24 hrs: 12u Conn Gas: Trip Gas: Survey/DT Gas:

Current Lag Time @ 38.1 ' = Minutes or 7900 Lag Strokes

Made 0 ' in the last 24 hours. Company Representative called: CALEB POLLOCK @ 0830 a.m./p.m.

Lithology (Last Sample) @: 4340			Last Previous Change @: 4330		
90	%	SHALE	60	%	SHALE
5	%	DOLOMITE	30	%	DOLOMITE
5	%	GYPSUM	15	%	GYPSUM

Show/Drilling Breaks

Interval	ROP	Lithology	Gas	% Fluorescence	Cut	Porosity
-						
-						
-						
-						

Gas

Current BGG: 12u		Max Last 24 hrs: 12u		Conn Gas:		Trip Gas:		Survey/DT Gas:	
C-1	12 %	C-1	12 %	C-1	%	C-1	%	C-1	%
C-2	%	C-2	%	C-2	%	C-2	%	C-2	%
C-3	%	C-3	%	C-3	%	C-3	%	C-3	%
1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%
N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%

Correlations: Top of ARAPIEN FORMATION @ 4320 ' , -
We are ' high/low to
Top of NORTH HORN FORMATION @ 3810 ' , -
We are ' high/low to

Expecting Top of: TWIN CREEK FORMATION @ 8220 ' , -

Drilling Conditions:

@ 4345'	@ 4345'	Trip: Hrs	Deviation
HOB	WT 8.6	@ 4345'	° @ '
WOB N/A	vis 35	Reason: SET SURFACE CASING	° @ '
RPM N/A	pH		° @ '
PP N/A	CL	NB#:	° @ '
SPM N/A	WL	Type:	° @ '

Driller's Log

Time 0500-0500	Operation RUN SURFACE CASING AND CEMENT

Calibrations:

TOTAL GAS
Catalytic Combustion
1% Methane

units	115	100
volts	-2.085mV	2.665mV
	before	after

CALIBRATIONS
Thermal Conduct
10% Methane

units	2533	1000
volts	2.665mV	3.307mV
	before	after

CHROMATOGRAPH

Div.	Sec.	%
C-1	19.5-34.75	100
C-2	35.00-55.25	200
C-3	67.75-94.00	300
C-4	128.3-162.00	400
NC-4	189.3-225.3	400

Filament Change: type METAL , GREEN ' METAL time.

Gas Trap:
Rig Air Motor ELECTRIC
Transfer Time 120 SECS
Trap Cleaned (date)

Chromatograph Settings:
Carrier Air Pressure 5.96 psi,
Cycle Time 280 sec.

Logging Team: Team Leader: TOM SELMAN Team Lead Logger: JED JENKINS Team Logger: WALTER MOCKLER

Comments:

SELMAN AND ASSOCIATES, LTD.
GEOLOGICAL CONSULTING / SURFACE LOGGING SERVICES

Morning Report

Company: PIONEER NATURAL RESOURCES USA, INC. Date: 10/12/2010 Day: 27

Well Name: SOUTH HILLS FEDERAL 6-1 Prepared by: JED JENKINS

Current Operations: NIPPLE UP Unit Phone Number: 432/385-4428 - 432/288-2228

TD: 4345' Time: 0500 Drill Rate: N/A Min/Ft N/A Ft/Hr

Current BGG: 12u Max Last 24 hrs: 12u Conn Gas: Trip Gas: Survey/DT Gas:

Current Lag Time @ 38.1 ' = Minutes or 7900 Lag Strokes

Made 0 ' in the last 24 hours. Company Representative called: CALEB POLLOCK @ 0830 a.m./p.m.

Lithology (Last Sample) @: 4340			Last Previous Change @: 4330		
90	%	SHALE	60	%	SHALE
5	%	DOLOMITE	30	%	DOLOMITE
5	%	GYPSUM	15	%	GYPSUM

Show/Drilling Breaks

Interval	ROP	Lithology	Gas	% Fluorescence	Cut	Porosity
-						
-						
-						
-						

Gas

Current BGG: 12u		Max Last 24 hrs: 12u		Conn Gas:		Trip Gas:		Survey/DT Gas:	
C-1	12 %	C-1	12 %	C-1	%	C-1	%	C-1	%
C-2	%	C-2	%	C-2	%	C-2	%	C-2	%
C-3	%	C-3	%	C-3	%	C-3	%	C-3	%
1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%
N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%

Correlations: Top of ARAPIEN FORMATION @ 4320 ' , -
We are ' high/low to
Top of NORTH HORN FORMATION @ 3810 ' , -
We are ' high/low to

Expecting Top of: TWIN CREEK FORMATION @ 8220 ' , -

Drilling Conditions:

@ 4345'	@ 4345'	Trip: Hrs	Deviation
HOB	WT 8.6	@ 4345'	° @ '
WOB N/A	vis 35	Reason: SET SURFACE CASING	° @ '
RPM N/A	pH		° @ '
PP N/A	CL	NB#:	° @ '
SPM N/A	WL	Type:	° @ '

Driller's Log

Time 0500-0500	Operation FINISH CEMENTING CASING AND NIPPLING UP

Calibrations:

TOTAL GAS
Catalytic Combustion
1% Methane

units	115	100
volts	-2.085mV	2.665mV
	before	after

CALIBRATIONS
Thermal Conduct
10% Methane

units	2533	1000
volts	2.665mV	3.307mV
	before	after

CHROMATOGRAPH

Div.	Sec.	%
C-1	19.5-34.75	100
C-2	35.00-55.25	200
C-3	67.75-94.00	300
C-4	128.3-162.00	400
NC-4	189.3-225.3	400

Filament Change: type METAL , GREEN ' METAL time.

Gas Trap:
Rig Air Motor ELECTRIC
Transfer Time 120 SECS
Trap Cleaned (date)

Chromatograph Settings:
Carrier Air Pressure 5.96 psi,
Cycle Time 280 sec.

Logging Team: Team Leader: TOM SELMAN Team Lead Logger: JED JENKINS Team Logger: WALTER MOCKLER

Comments:

SELMAN AND ASSOCIATES, LTD.
GEOLOGICAL CONSULTING / SURFACE LOGGING SERVICES

Morning Report

Company: PIONEER NATURAL RESOURCES USA, INC. Date: 10/13/2010 Day: 28

Well Name: SOUTH HILLS FEDERAL 6-1 Prepared by: JED JENKINS

Current Operations: TESTING BOP Unit Phone Number: 432/385-4428 - 432/288-2228

TD: 4345' Time: 0500 Drill Rate: N/A Min/Ft N/A Ft/Hr

Current BGG: 12u Max Last 24 hrs: 12u Conn Gas: Trip Gas: Survey/DT Gas:

Current Lag Time @ 38.1 ' = Minutes or 7900 Lag Strokes

Made 0 ' in the last 24 hours. Company Representative called: CALEB POLLOCK @ 0830 a.m./p.m.

Lithology (Last Sample) @: 4340			Last Previous Change @: 4330		
90	%	SHALE	60	%	SHALE
5	%	DOLOMITE	30	%	DOLOMITE
5	%	GYPSUM	15	%	GYPSUM

Show/Drilling Breaks

Interval	ROP	Lithology	Gas	% Fluorescence	Cut	Porosity
-						
-						
-						
-						

Gas

Current BGG: 12u		Max Last 24 hrs: 12u		Conn Gas:		Trip Gas:		Survey/DT Gas:	
C-1	12 %	C-1	12 %	C-1	%	C-1	%	C-1	%
C-2	%	C-2	%	C-2	%	C-2	%	C-2	%
C-3	%	C-3	%	C-3	%	C-3	%	C-3	%
1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%
N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%

Correlations: Top of ARAPIEN FORMATION @ 4320 ' , -
We are ' high/low to
Top of NORTH HORN FORMATION @ 3810 ' , -
We are ' high/low to

Expecting Top of: TWIN CREEK FORMATION @ 8220 ' , -

Drilling Conditions:

@ 4345'	@ 4345'	Trip: Hrs	Deviation
HOB	WT 8.6	@ 4345'	° @ '
WOB N/A	vis 35	Reason: SET SURFACE CASING	° @ '
RPM N/A	pH		° @ '
PP N/A	CL	NB#:	° @ '
SPM N/A	WL	Type:	° @ '

Driller's Log

Time	Operation
0500-0400	SETTING UP BOP
0400-0500	TESTING BOP

Calibrations:

TOTAL GAS
Catalytic Combustion
1% Methane

units	115	100
volts	-2.085mV	2.665mV
	before	after

CALIBRATIONS
Thermal Conduct
10% Methane

units	2533	1000
volts	2.665mV	3.307mV
	before	after

CHROMATOGRAPH

Div.	Sec.	%
C-1	19.5-34.75	100
C-2	35.00-55.25	200
C-3	67.75-94.00	300
C-4	128.3-162.00	400
NC-4	189.3-225.3	400

Filament Change: type METAL , GREEN ' METAL time.

Gas Trap:
Rig Air Motor ELECTRIC
Transfer Time 120 SECS
Trap Cleaned (date)

Chromatograph Settings:
Carrier Air Pressure 5.96 psi,
Cycle Time 280 sec.

Logging Team: Team Leader: TOM SELMAN Team Lead Logger: JED JENKINS Team Logger: WALTER MOCKLER

Comments: STARTED TESTING BOP @ 4:00 AM

SELMAN AND ASSOCIATES, LTD.
GEOLOGICAL CONSULTING / SURFACE LOGGING SERVICES

Morning Report

Company: PIONEER NATURAL RESOURCES USA, INC. Date: 10/14/2010 Day: 29

Well Name: SOUTH HILLS FEDERAL 6-1 Prepared by: JED JENKINS

Current Operations: RIH Unit Phone Number: 432/385-4428 - 432/288-2228

TD: 4345' Time: 0500 Drill Rate: N/A Min/Ft N/A Ft/Hr

Current BGG: 12u Max Last 24 hrs: 12u Conn Gas: Trip Gas: Survey/DT Gas:

Current Lag Time @ 38.1 ' = Minutes or 7900 Lag Strokes

Made 0 ' in the last 24 hours. Company Representative called: CALEB POLLOCK @ 0830 a.m./p.m.

Lithology (Last Sample) @: 4340			Last Previous Change @: 4330		
90	%	SHALE	60	%	SHALE
5	%	DOLOMITE	30	%	DOLOMITE
5	%	GYPSUM	15	%	GYPSUM

Show/Drilling Breaks

Interval	ROP	Lithology	Gas	% Fluorescence	Cut	Porosity
-						
-						
-						
-						

Gas

Current BGG: 12u		Max Last 24 hrs: 12u		Conn Gas:		Trip Gas:		Survey/DT Gas:	
C-1	12 %	C-1	12 %	C-1	%	C-1	%	C-1	%
C-2	%	C-2	%	C-2	%	C-2	%	C-2	%
C-3	%	C-3	%	C-3	%	C-3	%	C-3	%
1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%
N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%

Correlations: Top of ARAPIEN FORMATION @ 4320 ' , -
We are ' high/low to
Top of NORTH HORN FORMATION @ 3810 ' , -
We are ' high/low to

Expecting Top of: TWIN CREEK FORMATION @ 8220 ' , -

Drilling Conditions:

@ 4345'	@ 4345'	Trip: Hrs	Deviation
HOB	WT 8.6	@ 4345'	° @ '
WOB N/A	vis 35	Reason: SET SURFACE CASING	° @ '
RPM N/A	pH		° @ '
PP N/A	CL	NB#:	° @ '
SPM N/A	WL	Type:	° @ '

Driller's Log

Time	Operation
0500-0230	RIG SERVICE
0230-0500	RIH

Calibrations:

TOTAL GAS
Catalytic Combustion
1% Methane

units	115	100
volts	-2.085mV	2.665mV
	before	after

CALIBRATIONS
Thermal Conduct
10% Methane

units	2533	1000
volts	2.665mV	3.307mV
	before	after

CHROMATOGRAPH

Div.	Sec.	%
C-1	19.5-34.75	100
C-2	35.00-55.25	200
C-3	67.75-94.00	300
C-4	128.3-162.00	400
NC-4	189.3-225.3	400

Filament Change: type METAL , GREEN ' METAL time.

Gas Trap:
Rig Air Motor ELECTRIC
Transfer Time 120 SECS
Trap Cleaned (date)

Chromatograph Settings:
Carrier Air Pressure 5.96 psi,
Cycle Time 280 sec.

Logging Team: Team Leader: TOM SELMAN Team Lead Logger: JED JENKINS Team Logger: WALTER MOCKLER

Comments: STARTED RIH @ 2:30 AM

SELMAN AND ASSOCIATES, LTD.
GEOLOGICAL CONSULTING / SURFACE LOGGING SERVICES

Morning Report

Company: PIONEER NATURAL RESOURCES USA, INC. Date: 10/15/2010 Day: 30

Well Name: SOUTH HILLS FEDERAL 6-1 Prepared by: JED JENKINS

Current Operations: BUILDING BHA Unit Phone Number: 432/385-4428 - 432/288-2228

TD: 4355' Time: 0500 Drill Rate: N/A Min/Ft N/A Ft/Hr

Current BGG: 10u Max Last 24 hrs: 1096u Conn Gas: Trip Gas: 1096u Survey/DT Gas:

Current Lag Time @ 38.1 ' = Minutes or 7900 Lag Strokes

Made 10 ' in the last 24 hours. Company Representative called: CALEB POLLOCK @ 0830 a.m./p.m.

Lithology (Last Sample) @: 4355			Last Previous Change @: 4345		
85	%	SHALE	90	%	SHALE
10	%	SANDSTONE	5	%	DOLOMITE
5	%	GYPSUM	5	%	GYPSUM

Show/Drilling Breaks

Interval	ROP	Lithology	Gas	% Fluorescence	Cut	Porosity
-						
-						
-						
-						

Gas

Current BGG: 10u		Max Last 24 hrs: 1096u		Conn Gas:		Trip Gas: 1096u		Survey/DT Gas:	
C-1	10 %	C-1	1096 %	C-1	%	C-1	1096 %	C-1	%
C-2	%	C-2	%	C-2	%	C-2	%	C-2	%
C-3	%	C-3	%	C-3	%	C-3	%	C-3	%
1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%
N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%

Correlations: Top of ARAPIEN FORMATION @ 4320 ' , -
We are ' high/low to
Top of NORTH HORN FORMATION @ 3810 ' , -
We are ' high/low to

Expecting Top of: TWIN CREEK FORMATION @ 8220 ' , -

Drilling Conditions:

@ 4355'	@ 4355'	Trip: Hrs	Deviation
HOB	WT 8.6	@ 4355'	° @ '
WOB N/A	vis 35	Reason: SWITCH TO OBM	° @ '
RPM N/A	pH		° @ '
PP N/A	CL	NB#:	° @ '
SPM N/A	WL	Type:	° @ '

Driller's Log

Time	Operation
0500-1420	RIH
1420-1525	DRILL FROM 4345' - 4355'
1525-0500	POOH

Calibrations:

TOTAL GAS
Catalytic Combustion
1% Methane

units	115	100
volts	-2.085mV	2.665mV
	before	after

CALIBRATIONS
Thermal Conduct
10% Methane

units	2533	1000
volts	2.665mV	3.307mV
	before	after

CHROMATOGRAPH

Div.	Sec.	%
C-1	19.5-34.75	100
C-2	35.00-55.25	200
C-3	67.75-94.00	300
C-4	128.3-162.00	400
NC-4	189.3-225.3	400

Filament Change: type METAL , GREEN ' METAL time.

Gas Trap:
Rig Air Motor ELECTRIC
Transfer Time 120 SECS
Trap Cleaned (date)

Chromatograph Settings:
Carrier Air Pressure 5.96 psi,
Cycle Time 280 sec.

Logging Team: Team Leader: TOM SELMAN Team Lead Logger: JED JENKINS Team Logger: WALTER MOCKLER

Comments: BUILDING BHA TO RIH

SELMAN AND ASSOCIATES, LTD.
GEOLOGICAL CONSULTING / SURFACE LOGGING SERVICES

Morning Report

Company: PIONEER NATURAL RESOURCES USA, INC. Date: 10/16/2010 Day: 31

Well Name: SOUTH HILLS FEDERAL 6-1 Prepared by: JED JENKINS

Current Operations: PREPARING FOR OBM Unit Phone Number: 432/385-4428 - 432/288-2228

TD: 4355' Time: 0500 Drill Rate: N/A Min/Ft N/A Ft/Hr

Current BGG: 10u Max Last 24 hrs: 10u Conn Gas: Trip Gas: 10u Survey/DT Gas:

Current Lag Time @ 38.1 ' = Minutes or 7900 Lag Strokes

Made 0 ' in the last 24 hours. Company Representative called: CALEB POLLOCK @ 0830 a.m./p.m.

Lithology (Last Sample) @: 4355			Last Previous Change @: 4345		
85	%	SHALE	90	%	SHALE
10	%	SANDSTONE	5	%	DOLOMITE
5	%	GYPSUM	5	%	GYPSUM

Show/Drilling Breaks

Interval	ROP	Lithology	Gas	% Fluorescence	Cut	Porosity
-						
-						
-						
-						

Gas

Current BGG: 10u		Max Last 24 hrs: 10u		Conn Gas:		Trip Gas:		Survey/DT Gas:	
C-1	10 %	C-1	10 %	C-1	%	C-1	%	C-1	%
C-2	%	C-2	%	C-2	%	C-2	%	C-2	%
C-3	%	C-3	%	C-3	%	C-3	%	C-3	%
1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%
N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%

Correlations: Top of ARAPIEN FORMATION @ 4320 ' , -
We are ' high/low to
Top of NORTH HORN FORMATION @ 3810 ' , -
We are ' high/low to

Expecting Top of: TWIN CREEK FORMATION @ 8220 ' , -

Drilling Conditions:

@ 4355'	@ 4355'	Trip: Hrs	Deviation
HOB	WT 8.6	@ 4355'	° @ '
WOB N/A	vis 35	Reason: SWITCH TO OBM	° @ '
RPM N/A	pH		° @ '
PP N/A	CL	NB#:	° @ '
SPM N/A	WL	Type:	° @ '

Driller's Log

Time	Operation
0500-1400	RIH TO 4314'
1400-0500	PREPARE FOR OBM

Calibrations:

TOTAL GAS
Catalytic Combustion
1% Methane

units	115	100
volts	-2.085mV	2.665mV
	before	after

CALIBRATIONS
Thermal Conduct
10% Methane

units	2533	1000
volts	2.665mV	3.307mV
	before	after

CHROMATOGRAPH

Div.	Sec.	%
C-1	19.5-34.75	100
C-2	35.00-55.25	200
C-3	67.75-94.00	300
C-4	128.3-162.00	400
NC-4	189.3-225.3	400

Filament Change: type METAL , GREEN ' METAL time.

Gas Trap:
Rig Air Motor ELECTRIC
Transfer Time 120 SECS
Trap Cleaned (date)

Chromatograph Settings:
Carrier Air Pressure 5.96 psi,
Cycle Time 280 sec.

Logging Team: Team Leader: TOM SELMAN Team Lead Logger: JED JENKINS Team Logger: WALTER MOCKLER

Comments: SWITCHING TO OBM

SELMAN AND ASSOCIATES, LTD.
GEOLOGICAL CONSULTING / SURFACE LOGGING SERVICES

Morning Report

Company: PIONEER NATURAL RESOURCES USA, INC. Date: 10/17/2010 Day: 32

Well Name: SOUTH HILLS FEDERAL 6-1 Prepared by: JED JENKINS

Current Operations: FILL MUD TANKS WITH OBM Unit Phone Number: 432/385-4428 - 432/288-2228

TD: 4355' Time: 0500 Drill Rate: N/A Min/Ft N/A Ft/Hr

Current BGG: 10u Max Last 24 hrs: 10u Conn Gas: Trip Gas: 10u Survey/DT Gas:

Current Lag Time @ 29 ' = Minutes or 6120 Lag Strokes

Made 0 ' in the last 24 hours. Company Representative called: CALEB POLLOCK @ 0830 a.m./p.m.

Lithology (Last Sample) @: 4355			Last Previous Change @: 4345		
85	%	SHALE	90	%	SHALE
10	%	SANDSTONE	5	%	DOLOMITE
5	%	GYPSUM	5	%	GYPSUM

Show/Drilling Breaks

Interval	ROP	Lithology	Gas	% Fluorescence	Cut	Porosity
-						
-						
-						
-						

Gas

Current BGG: 10		Max Last 24 hrs: 10		Conn Gas:		Trip Gas:		Survey/DT Gas:	
C-1	10 %	C-1	10 %	C-1	%	C-1	%	C-1	%
C-2	%	C-2	%	C-2	%	C-2	%	C-2	%
C-3	%	C-3	%	C-3	%	C-3	%	C-3	%
1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%
N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%

Correlations: Top of ARAPIEN FORMATION @ 4320 ', -
We are ' high/low to
Top of NORTH HORN FORMATION @ 3810 ', -
We are ' high/low to

Expecting Top of: TWIN CREEK FORMATION @ 8220 ', -

Drilling Conditions:

@ 4355'	@ 4355'	Trip: Hrs	Deviation
HOB	WT 8.6	@ 4355'	° @ '
WOB N/A	vis 35	Reason: SWITCH TO OBM	° @ '
RPM N/A	pH		° @ '
PP N/A	CL	NB#:	° @ '
SPM N/A	WL	Type:	° @ '

Driller's Log

Time 0500-0500	Operation FILL MUD TANKS WITH OBM

Calibrations:

TOTAL GAS
Catalytic Combustion
1% Methane

units	115	100
volts	-2.085mV	2.665mV
	before	after

CALIBRATIONS
Thermal Conduct
10% Methane

units	2533	1000
volts	2.665mV	3.307mV
	before	after

CHROMATOGRAPH

Div.	Sec.	%
C-1	19.5-34.75	100
C-2	35.00-55.25	200
C-3	67.75-94.00	300
C-4	128.3-162.00	400
NC-4	189.3-225.3	400

Filament Change: type METAL , GREEN ' METAL time.

Gas Trap:
Rig Air Motor ELECTRIC
Transfer Time 120 SECS
Trap Cleaned (date)

Chromatograph Settings:
Carrier Air Pressure 5.96 psi,
Cycle Time 280 sec.

Logging Team: Team Leader: TOM SELMAN Team Lead Logger: JED JENKINS Team Logger: WALTER MOCKLER

Comments: SWITCHING TO OBM

SELMAN AND ASSOCIATES, LTD.
GEOLOGICAL CONSULTING / SURFACE LOGGING SERVICES

Morning Report

Company: PIONEER NATURAL RESOURCES USA, INC. Date: 10/18/2010 Day: 33

Well Name: SOUTH HILLS FEDERAL 6-1 Prepared by: JED JENKINS

Current Operations: MAKING A CONNECTION Unit Phone Number: 432/385-4428 - 432/288-2228

TD: 4597' Time: 0500 Drill Rate: N/A Min/Ft N/A Ft/Hr

Current BGG: 68u Max Last 24 hrs: 82u Conn Gas: 62u Trip Gas: Survey/DT Gas:

Current Lag Time @ 35 ' = Minutes or 6350 Lag Strokes

Made 242 ' in the last 24 hours. Company Representative called: CALEB POLLOCK @ 0830 a.m./p.m.

Lithology (Last Sample) @: 4580			Last Previous Change @: 4560		
65	%	DOLOMITE	70	%	DOLOMITE
30	%	LIMESTONE	15	%	LIMESTONE
5	%	SHALE	15	%	SHALE

Show/Drilling Breaks

Interval	ROP	Lithology	Gas	% Fluorescence	Cut	Porosity
-						
-						
-						
-						

Gas

Current BGG: 68u		Max Last 24 hrs: 82u		Conn Gas: 62u		Trip Gas:		Survey/DT Gas:	
C-1	68 %	C-1	82 %	C-1	62 %	C-1	%	C-1	%
C-2	%	C-2	%	C-2	%	C-2	%	C-2	%
C-3	%	C-3	%	C-3	%	C-3	%	C-3	%
1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%
N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%

Correlations: Top of ARAPIEN FORMATION @ 4320 ' , -
We are ' high/low to
Top of NORTH HORN FORMATION @ 3810 ' , -
We are ' high/low to

Expecting Top of: TWIN CREEK FORMATION @ 8220 ' , -

Drilling Conditions:

@ 4597'	@ 4597'	Trip: Hrs	Deviation
HOB	WT 9.9	@ 4355'	° @ '
WOB N/A	vis 45	Reason: SWITCH TO OBM	° @ '
RPM 0	pH		° @ '
PP 2,660	CL	NB#:	° @ '
SPM 180	WL	Type:	° @ '

Driller's Log

Time	Operation
0500-0900	CIRCULATING OBM/DISPLACING WBM
0900-0500	DRILLING FROM 3455' - 3597'

Calibrations:

TOTAL GAS
Catalytic Combustion
1% Methane

units	115	100
volts	-2.085mV	2.665mV
	before	after

CALIBRATIONS
Thermal Conduct
10% Methane

units	2533	1000
volts	2.665mV	3.307mV
	before	after

CHROMATOGRAPH

Div.	Sec.	%
C-1	19.5-34.75	100
C-2	35.00-55.25	200
C-3	67.75-94.00	300
C-4	128.3-162.00	400
NC-4	189.3-225.3	400

Filament Change: type METAL , GREEN ' METAL time.

Gas Trap:
Rig Air Motor ELECTRIC
Transfer Time 120 SECS
Trap Cleaned (date)

Chromatograph Settings:
Carrier Air Pressure 5.96 psi,
Cycle Time 280 sec.

Logging Team: Team Leader: TOM SELMAN Team Lead Logger: JED JENKINS Team Logger: WALTER MOCKLER

Comments: MAKING CONNECTION/SURVEY

SELMAN AND ASSOCIATES, LTD.
GEOLOGICAL CONSULTING / SURFACE LOGGING SERVICES

Morning Report

Company: PIONEER NATURAL RESOURCES USA, INC. Date: 10/19/2010 Day: 34

Well Name: SOUTH HILLS FEDERAL 6-1 Prepared by: JED JENKINS

Current Operations: DRILLING AHEAD @ 4903' Unit Phone Number: 432/385-4428 - 432/288-2228

TD: 4903' Time: 0500 Drill Rate: N/A Min/Ft N/A Ft/Hr

Current BGG: 63u Max Last 24 hrs: 86u Conn Gas: 86u Trip Gas: Survey/DT Gas:

Current Lag Time @ 42 ' = Minutes or 6776 Lag Strokes

Made 306 ' in the last 24 hours. Company Representative called: CALEB POLLOCK @ 0830 a.m./p.m.

Lithology (Last Sample) @: 4880			Last Previous Change @: 4860		
40	%	SANDSTONE	40	%	SANDSTONE
35	%	SHALE	35	%	SHALE
15	%	DOLOMITE	15	%	DOLOMITE

Show/Drilling Breaks

Interval	ROP	Lithology	Gas	% Fluorescence	Cut	Porosity
-						
-						
-						
-						

Gas

Current BGG: 63u		Max Last 24 hrs: 86u		Conn Gas: 86u		Trip Gas:		Survey/DT Gas:	
C-1	63 %	C-1	86 %	C-1	86 %	C-1	%	C-1	%
C-2	%	C-2	%	C-2	%	C-2	%	C-2	%
C-3	%	C-3	%	C-3	%	C-3	%	C-3	%
1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%
N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%

Correlations: Top of ARAPIEN FORMATION @ 4320 ' , -
We are ' high/low to
Top of NORTH HORN FORMATION @ 3810 ' , -
We are ' high/low to

Expecting Top of: TWIN CREEK FORMATION @ 8220 ' , -

Drilling Conditions:

@ 4903'	@ 4903'	Trip: Hrs	Deviation
HOB	WT 12	@ 4355'	° @ '
WOB N/A	vis 43	Reason: SWITCH TO OBM	° @ '
RPM 0	pH		° @ '
PP 2,820	CL	NB#:	° @ '
SPM 180	WL	Type:	° @ '

Driller's Log

Time	Operation
0500-0915	MUD UP TO 10.7 PPG
0915-0100	DRILL FROM 4597' - 4690'
0100-1820	DRILL FROM 4690' - 4786'
1820-2150	MUD UP TO 12.0 PPG
2150-0500	DRILL FROM 4786' - 4903'

Calibrations:

TOTAL GAS
Catalytic Combustion
1% Methane

units	115	100
volts	-2.085mV	2.665mV
	before	after

CALIBRATIONS
Thermal Conduct
10% Methane

units	2533	1000
volts	2.665mV	3.307mV
	before	after

CHROMATOGRAPH

Div.	Sec.	%
C-1	19.5-34.75	100
C-2	35.00-55.25	200
C-3	67.75-94.00	300
C-4	128.3-162.00	400
NC-4	189.3-225.3	400

Filament Change: type METAL , GREEN ' METAL time.

Gas Trap:
Rig Air Motor ELECTRIC
Transfer Time 120 SECS
Trap Cleaned (date)

Chromatograph Settings:
Carrier Air Pressure 5.96 psi,
Cycle Time 280 sec.

Logging Team: Team Leader: TOM SELMAN Team Lead Logger: JED JENKINS Team Logger: WALTER MOCKLER

Comments:

SELMAN AND ASSOCIATES, LTD.
GEOLOGICAL CONSULTING / SURFACE LOGGING SERVICES

Morning Report

Company: PIONEER NATURAL RESOURCES USA, INC. Date: 10/20/2010 Day: 35

Well Name: SOUTH HILLS FEDERAL 6-1 Prepared by: JED JENKINS

Current Operations: RIG SERVICE - MUD PUMPS Unit Phone Number: 432/385-4428 - 432/288-2228

TD: 5162' Time: 0500 Drill Rate: N/A Min/Ft N/A Ft/Hr

Current BGG: 48u Max Last 24 hrs: 94u Conn Gas: 94u Trip Gas: Survey/DT Gas:

Current Lag Time @ 51 ' = Minutes or 7144 Lag Strokes

Made 259 ' in the last 24 hours. Company Representative called: CALEB POLLOCK @ 0830 a.m./p.m.

Lithology (Last Sample) @: 5160			Last Previous Change @: 5140		
85	%	SHALE	90	%	SHALE
10	%	DOLOMITE	5	%	DOLOMITE
5	%	LIMESTONE	5	%	LIMESTONE

Show/Drilling Breaks

Interval	ROP	Lithology	Gas	% Fluorescence	Cut	Porosity
-						
-						
-						
-						

Gas

Current BGG: 48u		Max Last 24 hrs: 94u		Conn Gas: 94u		Trip Gas:		Survey/DT Gas:	
C-1	48 %	C-1	94 %	C-1	94 %	C-1	%	C-1	%
C-2	%	C-2	%	C-2	%	C-2	%	C-2	%
C-3	%	C-3	%	C-3	%	C-3	%	C-3	%
1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%
N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%

Correlations: Top of ARAPIEN FORMATION @ 4320 ', -
We are ' high/low to
Top of NORTH HORN FORMATION @ 3810 ', -
We are ' high/low to

Expecting Top of: TWIN CREEK FORMATION @ 8220 ', -

Drilling Conditions:

@ 5162'	@ 5162'	Trip: Hrs	Deviation
HOB	WT 12.3	@ 4355'	° @ '
WOB N/A	vis 46	Reason: SWITCH TO OBM	° @ '
RPM 0	pH		° @ '
PP 2,820	CL	NB#:	° @ '
SPM 180	WL	Type:	° @ '

Driller's Log

Time	Operation
0500-0715	DRILL FROM 4903' - 4930'
0715-0800	RIG SERVICE - MUD PUMPS
0800-0300	DRILL FROM 4903' - 5162'
0300-0500	RIG SERVICE - MUD PUMPS

Calibrations:

TOTAL GAS
Catalytic Combustion
1% Methane

units	115	100
volts	-2.085mV	2.665mV
	before	after

CALIBRATIONS
Thermal Conduct
10% Methane

units	2533	1000
volts	2.665mV	3.307mV
	before	after

CHROMATOGRAPH

Div.	Sec.	%
C-1	19.5-34.75	100
C-2	35.00-55.25	200
C-3	67.75-94.00	300
C-4	128.3-162.00	400
NC-4	189.3-225.3	400

Filament Change: type METAL , GREEN ' METAL time.

Gas Trap:
Rig Air Motor ELECTRIC
Transfer Time 120 SECS
Trap Cleaned (date)

Chromatograph Settings:
Carrier Air Pressure 5.96 psi,
Cycle Time 280 sec.

Logging Team: Team Leader: TOM SELMAN Team Lead Logger: JED JENKINS Team Logger: WALTER MOCKLER

Comments: PREPARING TO POOH @ KELLY DOWN

SELMAN AND ASSOCIATES, LTD.
GEOLOGICAL CONSULTING / SURFACE LOGGING SERVICES

Morning Report

Company: PIONEER NATURAL RESOURCES USA, INC. Date: 10/21/2010 Day: 36

Well Name: SOUTH HILLS FEDERAL 6-1 Prepared by: JED JENKINS

Current Operations: DRILLING AHEAD @ 5180' Unit Phone Number: 432/385-4428 - 432/288-2228

TD: 5180' Time: 0500 Drill Rate: _____ Min/Ft 19.1 Ft/Hr

Current BGG: 70u Max Last 24 hrs: 70u Conn Gas: _____ Trip Gas: _____ Survey/DT Gas: _____

Current Lag Time @ _____ ' = _____ Minutes or _____ Lag Strokes

Made 18 ' in the last 24 hours. Company Representative called: CALEB POLLOCK @ 0830 a.m./p.m.

Lithology (Last Sample) @: 5160			Last Previous Change @: 5150		
90	%	SHALE	85	%	SHALE
5	%	DOLOMITE	10	%	DOLOMITE
5	%	LIMESTONE	5	%	LIMESTONE

Show/Drilling Breaks

Interval	ROP	Lithology	Gas	% Fluorescence	Cut	Porosity
-						
-						
-						
-						

Gas

Current BGG: 70u		Max Last 24 hrs: 70u		Conn Gas:		Trip Gas:		Survey/DT Gas:	
C-1	70 %	C-1	70 %	C-1	%	C-1	%	C-1	%
C-2	%	C-2	%	C-2	%	C-2	%	C-2	%
C-3	%	C-3	%	C-3	%	C-3	%	C-3	%
1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%
N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%

Correlations: Top of ARAPIEN FORMATION @ 4320 ' , -
We are _____ ' high/low to
Top of NORTH HORN FORMATION @ 3810 ' , -
We are _____ ' high/low to

Expecting Top of: TWIN CREEK FORMATION @ 8200??? ' , - _____

Drilling Conditions:

@ 5180'	@ 5180'	Trip: Hrs	Deviation
HOB	WT 12.6	@	° @ '
WOB 27	vis 53	Reason:	° @ '
RPM 0	pH		° @ '
PP 3000	CL	NB#:	° @ '
SPM 184	WL	Type:	° @ '

Driller's Log

Time	Operation
0500-0300	TOOH/RIH - WORK ON MUD PUMPS
0300-0500	DRILL FROM 5165' - 5180'

Calibrations:

TOTAL GAS
Catalytic Combustion
1% Methane

	before	after
units		
volts		

CALIBRATIONS
Thermal Conduct
10% Methane

	before	after
units		
volts		

CHROMATOGRAPH

Div.	Sec.	%
C-1		
C-2		
C-3		
C-4		
NC-4		

Filament Change: type METAL , GREEN ' METAL time.

Gas Trap:
Rig Air Motor _____
Transfer Time _____
Trap Cleaned (date) _____

Chromatograph Settings:
Carrier Air Pressure _____ psi,
Cycle Time _____ sec.

Logging Team: Team Leader: TOM SELMAN Team Lead Logger: JED JENKINS Team Logger: WALTER MOCKLER

Comments:

SELMAN AND ASSOCIATES, LTD.
GEOLOGICAL CONSULTING / SURFACE LOGGING SERVICES

Morning Report

Company: PIONEER NATURAL RESOURCES USA, INC. Date: 10/22/2010 Day: 37

Well Name: SOUTH HILLS FEDERAL 6-1 Prepared by: JED JENKINS

Current Operations: RIG SERVICE/MUD PUMP Unit Phone Number: 432/385-4428 - 432/288-2228

TD: 5420' Time: 0500 Drill Rate: N/A Min/Ft N/A Ft/Hr

Current BGG: 43u Max Last 24 hrs: 340u Conn Gas: 340u Trip Gas: Survey/DT Gas:

Current Lag Time @ ' = Minutes or Lag Strokes

Made 240 ' in the last 24 hours. Company Representative called: CALEB POLLOCK @ 0830 a.m./p.m.

Lithology (Last Sample) @: 5400			Last Previous Change @: 5380		
65	%	DOLOMITE	85	%	DOLOMITE
30	%	SHALE	10	%	SHALE
5	%	LIMESTONE	5	%	LIMESTONE

Show/Drilling Breaks

Interval	ROP	Lithology	Gas	% Fluorescence	Cut	Porosity
-						
-						
-						
-						

Gas

Current BGG: 43u		Max Last 24 hrs: 340u		Conn Gas: 340u		Trip Gas:		Survey/DT Gas:	
C-1	43 %	C-1	340 %	C-1	340 %	C-1	%	C-1	%
C-2	%	C-2	%	C-2	%	C-2	%	C-2	%
C-3	%	C-3	%	C-3	%	C-3	%	C-3	%
1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%
N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%

Correlations: Top of ARAPIEN FORMATION @ 4320 ' , -
We are ' high/low to
Top of NORTH HORN FORMATION @ 3810 ' , -
We are ' high/low to

Expecting Top of: TWIN CREEK FORMATION @ 8200??? ' , -

Drilling Conditions:

@ 5420'	@ 5420'	Trip: Hrs	Deviation
HOB	WT 12.8	@	° @ '
WOB 0	vis 48	Reason:	° @ '
RPM 0	pH		° @ '
PP 860	CL	NB#:	° @ '
SPM 96	WL	Type:	° @ '

Driller's Log

Time	Operation
0500-0125	DRILL FROM 5180' - 5420'
0125-0500	RIG SERVICE/MUD PUMP

Calibrations:

TOTAL GAS
Catalytic Combustion
1% Methane

units	105	100
volts	2.04	2.04
	before	after

CALIBRATIONS
Thermal Conduct
10% Methane

units	1124	1000
volts	1.74	1.74
	before	after

CHROMATOGRAPH

Div.	Sec.	%
C-1		1
C-2		1
C-3		1
C-4		1
NC-4		1

Filament Change: type METAL , GREEN ' METAL time.

Gas Trap:
Rig Air Motor
Transfer Time 3MIN
Trap Cleaned (date)

Chromatograph Settings:
Carrier Air Pressure psi,
Cycle Time 260SEC sec.

Logging Team: Team Leader: TOM SELMAN Team Lead Logger: JED JENKINS Team Logger: WALTER MOCKLER

Comments:

SELMAN AND ASSOCIATES, LTD.
GEOLOGICAL CONSULTING / SURFACE LOGGING SERVICES

Morning Report

Company: PIONEER NATURAL RESOURCES USA, INC. Date: 10/23/2010 Day: 38

Well Name: SOUTH HILLS FEDERAL 6-1 Prepared by: JED JENKINS

Current Operations: CIRCULATING @ 5441' Unit Phone Number: 432/385-4428 - 432/288-2228

TD: 5441' Time: 0500 Drill Rate: NA Min/Ft NA Ft/Hr

Current BGG: 35u Max Last 24 hrs: 35u Conn Gas: Trip Gas: Survey/DT Gas:

Current Lag Time @ ' = Minutes or Lag Strokes

Made 21 ' in the last 24 hours. Company Representative called: CALEB POLLOCK @ 0830 a.m./p.m.

Lithology (Last Sample) @: 5420			Last Previous Change @: 5400		
55	%	DOLOMITE	65	%	DOLOMITE
40	%	SHALE	30	%	SHALE
5	%	LIMESTONE	5	%	LIMESTONE

Show/Drilling Breaks

Interval	ROP	Lithology	Gas	% Fluorescence	Cut	Porosity
-						
-						
-						
-						

Gas

Current BGG: 35u		Max Last 24 hrs: 35u		Conn Gas:		Trip Gas:		Survey/DT Gas:	
C-1	35 %	C-1	35 %	C-1	%	C-1	%	C-1	%
C-2	%	C-2	%	C-2	%	C-2	%	C-2	%
C-3	%	C-3	%	C-3	%	C-3	%	C-3	%
1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%
N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%

Correlations: Top of ARAPIEN FORMATION @ 4320 ' , -
We are ' high/low to
Top of NORTH HORN FORMATION @ 3810 ' , -
We are ' high/low to

Expecting Top of: TWIN CREEK FORMATION @ 8200??? ' , -

Drilling Conditions:

@ 5441'	@ 5441'	Trip: Hrs	Deviation
HOB	WT 12.8	@	° @ '
WOB 0	vis 51	Reason:	° @ '
RPM 0	pH		° @ '
PP 943	CL	NB#:	° @ '
SPM 92	WL	Type:	° @ '

Driller's Log

Time	Operation
0500-0245	TOOH/TIH RIG SERVICE - REPAIR MUD PUMP MODULE
0245-0500	DRILL FROM 5420' - 5441'

Calibrations:

TOTAL GAS
Catalytic Combustion
1% Methane

units	105	100
volts	2.05	2.04
	before	after

CALIBRATIONS
Thermal Conduct
10% Methane

units	1798	1000
volts	1.74	1.74
	before	after

CHROMATOGRAPH

Div.	Sec.	%
C-1	13.5	1
C-2	32.25	1
C-3	59.25	1
C-4	103	1
NC-4	169	1

Filament Change: type METAL , GREEN ' METAL time.

Gas Trap:
Rig Air Motor
Transfer Time 3MIN
Trap Cleaned (date)

Chromatograph Settings:
Carrier Air Pressure 5.08 psi,
Cycle Time 260SECS sec.

Logging Team: Team Leader: TOM SELMAN Team Lead Logger: JED JENKINS Team Logger: WALTER MOCKLER

Comments:

SELMAN AND ASSOCIATES, LTD.
GEOLOGICAL CONSULTING / SURFACE LOGGING SERVICES

Morning Report

Company: PIONEER NATURAL RESOURCES USA, INC. Date: 10/24/2010 Day: 39

Well Name: SOUTH HILLS FEDERAL 6-1 Prepared by: JED JENKINS

Current Operations: LOST CIRCULATION @ 5638' BUILDING MUD Unit Phone Number: 432/385-4428 - 432/288-2228

TD: 5638' Time: 0500 Drill Rate: NA Min/Ft NA Ft/Hr

Current BGG: 16u Max Last 24 hrs: 107u Conn Gas: Trip Gas: 107u Survey/DT Gas:

Current Lag Time @ ' = 49 Minutes or 8810 Lag Strokes

Made 197 ' in the last 24 hours. Company Representative called: CALEB POLLOCK @ 0830 a.m./p.m.

Lithology (Last Sample) @: 5620			Last Previous Change @: 5600		
80	%	DOLOMITE	100	%	DOLOMITE
20	%	SHALE		%	
	%			%	

Show/Drilling Breaks

Interval	ROP	Lithology	Gas	% Fluorescence	Cut	Porosity
-						
-						
-						
-						

Gas

Current BGG: 16u		Max Last 24 hrs: 107u		Conn Gas:		Trip Gas: 107u		Survey/DT Gas:	
C-1	16 %	C-1	107 %	C-1	%	C-1	107 %	C-1	%
C-2	%	C-2	%	C-2	%	C-2	%	C-2	%
C-3	%	C-3	%	C-3	%	C-3	%	C-3	%
1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%
N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%

Correlations: Top of ARAPIEN FORMATION @ 4320 ', -
We are ' high/low to
Top of NORTH HORN FORMATION @ 3810 ', -
We are ' high/low to

Expecting Top of: TWIN CREEK FORMATION @ 8200??? ', -

Drilling Conditions:

@ 5638'	@ 5638'	Trip: Hrs	Deviation
HOB	WT 12.8	@	° @ '
WOB 0	vis 45	Reason:	° @ '
RPM 0	pH		° @ '
PP 943	CL	NB#:	° @ '
SPM 92	WL	Type:	° @ '

Driller's Log

Time	Operation
0500-2035	DRILL FROM 5441' TO 5638'
2035-0500	SHORT TRIP FOR LOSS OF CIRCULATION

Calibrations:

TOTAL GAS
Catalytic Combustion
1% Methane

units	105	100
volts	2.05	2.04
	before	after

CALIBRATIONS
Thermal Conduct
10% Methane

units	1798	1000
volts	1.74	1.74
	before	after

CHROMATOGRAPH

Div.	Sec.	%
C-1	13.5	1
C-2	32.25	1
C-3	59.25	1
C-4	103	1
NC-4	169	1

Filament Change: type METAL , GREEN ' METAL time.

Gas Trap:
Rig Air Motor
Transfer Time 3MIN
Trap Cleaned (date)

Chromatograph Settings:
Carrier Air Pressure 5.08 psi,
Cycle Time 260SECS sec.

Logging Team: Team Leader: TOM SELMAN Team Lead Logger: JED JENKINS Team Logger: WALTER MOCKLER

Comments:

SELMAN AND ASSOCIATES, LTD.
GEOLOGICAL CONSULTING / SURFACE LOGGING SERVICES

Morning Report

Company: PIONEER NATURAL RESOURCES USA, INC. Date: 10/25/2010 Day: 40

Well Name: SOUTH HILLS FEDERAL 6-1 Prepared by: JED JENKINS

Current Operations: LOST CIRCULATION @ 5638' BUILDING MUD Unit Phone Number: 432/385-4428 - 432/288-2228

TD: 5638' Time: 0500 Drill Rate: NA Min/Ft NA Ft/Hr

Current BGG: 16u Max Last 24 hrs: 16u Conn Gas: Trip Gas: Survey/DT Gas:

Current Lag Time @ ' = 49 Minutes or 8810 Lag Strokes

Made 0 ' in the last 24 hours. Company Representative called: CALEB POLLOCK @ 0830 a.m./p.m.

Lithology (Last Sample) @: 5620			Last Previous Change @: 5600		
80	%	DOLOMITE	100	%	OOLITIC DOLOMITE
20	%	SHALE		%	
	%			%	

Show/Drilling Breaks

Interval	ROP	Lithology	Gas	% Fluorescence	Cut	Porosity
-						
-						
-						
-						

Gas

Current BGG: 16u		Max Last 24 hrs: 16u		Conn Gas:		Trip Gas:		Survey/DT Gas:	
C-1	16 %	C-1	16 %	C-1	%	C-1	%	C-1	%
C-2	%	C-2	%	C-2	%	C-2	%	C-2	%
C-3	%	C-3	%	C-3	%	C-3	%	C-3	%
1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%
N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%

Correlations: Top of ARAPIEN FORMATION @ 4320 ', -
We are ' high/low to
Top of NORTH HORN FORMATION @ 3810 ', -
We are ' high/low to

Expecting Top of: TWIN CREEK FORMATION @ 8200??? ', -

Drilling Conditions:

@ 5638'	@ 5638'	Trip: Hrs	Deviation
HOB	WT 12.8	@	° @ '
WOB 0	vis 45	Reason:	° @ '
RPM 0	pH		° @ '
PP 943	CL	NB#:	° @ '
SPM 92	WL	Type:	° @ '

Driller's Log

Time 0500-0500	Operation RIH/TOOH

Calibrations:

TOTAL GAS
Catalytic Combustion
1% Methane

units	105	100
volts	2.05	2.04
	before	after

CALIBRATIONS
Thermal Conduct
10% Methane

units	1798	1000
volts	1.74	1.74
	before	after

CHROMATOGRAPH

Div.	Sec.	%
C-1	13.5	1
C-2	32.25	1
C-3	59.25	1
C-4	103	1
NC-4	169	1

Filament Change: type METAL , GREEN ' METAL time.

Gas Trap:
Rig Air Motor
Transfer Time 3MIN
Trap Cleaned (date)

Chromatograph Settings:
Carrier Air Pressure 5.08 psi,
Cycle Time 260SECS sec.

Logging Team: Team Leader: TOM SELMAN Team Lead Logger: JED JENKINS Team Logger: WALTER MOCKLER

Comments:

SELMAN AND ASSOCIATES, LTD.
GEOLOGICAL CONSULTING / SURFACE LOGGING SERVICES

Morning Report

Company: PIONEER NATURAL RESOURCES USA, INC. Date: 10/26/2010 Day: 41

Well Name: SOUTH HILLS FEDERAL 6-1 Prepared by: JED JENKINS

Current Operations: LOST CIRCULATION @ 5638' BUILDING MUD Unit Phone Number: 432/385-4428 - 432/288-2228

TD: 5638' Time: 0500 Drill Rate: NA Min/Ft NA Ft/Hr

Current BGG: 16u Max Last 24 hrs: 16u Conn Gas: Trip Gas: Survey/DT Gas:

Current Lag Time @ ' = 49 Minutes or 8810 Lag Strokes

Made 0 ' in the last 24 hours. Company Representative called: CALEB POLLOCK @ 0830 a.m./p.m.

Lithology (Last Sample) @: 5620			Last Previous Change @: 5600		
80	%	DOLOMITE	100	%	OOLITIC DOLOMITE
20	%	SHALE		%	
	%			%	

Show/Drilling Breaks

Interval	ROP	Lithology	Gas	% Fluorescence	Cut	Porosity
-						
-						
-						
-						

Gas

Current BGG: 16u		Max Last 24 hrs: 16u		Conn Gas:		Trip Gas:		Survey/DT Gas:	
C-1	16 %	C-1	16 %	C-1	%	C-1	%	C-1	%
C-2	%	C-2	%	C-2	%	C-2	%	C-2	%
C-3	%	C-3	%	C-3	%	C-3	%	C-3	%
1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%
N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%

Correlations: Top of ARAPIEN FORMATION @ 4320 ', -
We are ' high/low to
Top of NORTH HORN FORMATION @ 3810 ', -
We are ' high/low to

Expecting Top of: TWIN CREEK FORMATION @ 8200??? ', -

Drilling Conditions:

@ 5638'	@ 5638'	Trip: Hrs	Deviation
HOB	WT 12.8	@	° @ '
WOB 0	vis 45	Reason:	° @ '
RPM 0	pH		° @ '
PP 943	CL	NB#:	° @ '
SPM 92	WL	Type:	° @ '

Driller's Log

Time	Operation
	LOGGERS ON STANDBY

Calibrations:

TOTAL GAS
Catalytic Combustion
1% Methane

units	105	100
volts	2.05	2.04
	before	after

CALIBRATIONS
Thermal Conduct
10% Methane

units	1798	1000
volts	1.74	1.74
	before	after

CHROMATOGRAPH

Div.	Sec.	%
C-1	13.5	1
C-2	32.25	1
C-3	59.25	1
C-4	103	1
NC-4	169	1

Filament Change: type METAL , GREEN ' METAL time.

Gas Trap:
Rig Air Motor
Transfer Time 3MIN
Trap Cleaned (date)

Chromatograph Settings:
Carrier Air Pressure 5.08 psi,
Cycle Time 260SECS sec.

Logging Team: Team Leader: TOM SELMAN Team Lead Logger: JED JENKINS Team Logger: WALTER MOCKLER

Comments:

SELMAN AND ASSOCIATES, LTD.
GEOLOGICAL CONSULTING / SURFACE LOGGING SERVICES

Morning Report

Company: PIONEER NATURAL RESOURCES USA, INC. Date: 10/29/2010 Day: 44

Well Name: SOUTH HILLS FEDERAL 6-1 Prepared by: JED JENKINS

Current Operations: DRILLING AHEAD @ 5748' Unit Phone Number: 432/385-4428 - 432/288-2228

TD: 5748' Time: 0500 Drill Rate: _____ Min/Ft _____ Ft/Hr

Current BGG: 17u Max Last 24 hrs: 1609u Conn Gas: _____ Trip Gas: 1609u Survey/DT Gas: _____

Current Lag Time @ _____ ' = _____ Minutes or 8979 Lag Strokes

Made 110 ' in the last 24 hours. Company Representative called: CALEB POLLOCK @ 0830 a.m./p.m.

Lithology (Last Sample) @: 5720			Last Previous Change @: 5700		
100	%	SANDSTONE	100	%	SANDSTONE
	%			%	
	%			%	

Show/Drilling Breaks

Interval	ROP	Lithology	Gas	% Fluorescence	Cut	Porosity
-						
-						
-						
-						

Gas

Current BGG: 17u		Max Last 24 hrs: 1609u		Conn Gas:		Trip Gas: 1609u		Survey/DT Gas:	
C-1	17 %	C-1	1609 %	C-1	%	C-1	1609 %	C-1	%
C-2	%	C-2	%	C-2	%	C-2	%	C-2	%
C-3	%	C-3	%	C-3	%	C-3	%	C-3	%
1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%
N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%

Correlations: Top of ARAPIEN @ 4320 ' , -
We are _____ ' high/low to
Top of NORTH HORN FORMATION @ 3810 ' , -
We are _____ ' high/low to

Expecting Top of: TWIN CREEK FORMATION @ 8200??? ' , - _____

Drilling Conditions:

@ 5748'	@ 5748'	Trip: Hrs	Deviation
HOB	WT 10.1	@	° @ '
WOB 29	vis 44	Reason:	° @ '
RPM 0	pH		° @ '
PP 2,300	CL	NB#:	° @ '
SPM 180	WL	Type:	° @ '

Driller's Log

Time	Operation
0500-1700	RIG SERVICE/ MUD PUMP - RIH
1700-0500	DRILL FROM 5640' - 5748'

Calibrations:

TOTAL GAS
Catalytic Combustion
1% Methane

units	105	100
volts	2.05	2.04
	before	after

CALIBRATIONS
Thermal Conduct
10% Methane

units	1798	1000
volts	1.74	1.74
	before	after

CHROMATOGRAPH

Div.	Sec.	%
C-1	13.5	1
C-2	32.25	1
C-3	59.25	1
C-4	103	1
NC-4	169	1

Filament Change: type METAL , GREEN ' METAL time.

Gas Trap:
Rig Air Motor _____
Transfer Time 3MIN
Trap Cleaned (date) _____

Chromatograph Settings:
Carrier Air Pressure 5.08 psi,
Cycle Time 260SECS sec.

Logging Team: Team Leader: TOM SELMAN Team Lead Logger: JED JENKINS Team Logger: WALTER MOCKLER

Comments:

SELMAN AND ASSOCIATES, LTD.
GEOLOGICAL CONSULTING / SURFACE LOGGING SERVICES

Morning Report

Company: PIONEER NATURAL RESOURCES USA, INC. Date: 10/30/2010 Day: 45

Well Name: SOUTH HILLS FEDERAL 6-1 Prepared by: JED JENKINS

Current Operations: DRILLING AHEAD @ 5912' Unit Phone Number: 432/385-4428 - 432/288-2228

TD: 5912' Time: 0500 Drill Rate: 4.4 Min/Ft Ft/Hr

Current BGG: 23u Max Last 24 hrs: 30u Conn Gas: Trip Gas: Survey/DT Gas:

Current Lag Time @ ' = 52 Minutes or 9338 Lag Strokes

Made 164 ' in the last 24 hours. Company Representative called: CALEB POLLOCK @ 0830 a.m./p.m.

Lithology (Last Sample) @: 5900			Last Previous Change @: 5880		
80	%	SHALE	15	%	SHALE
20	%	SANDSTONE	85	%	SANDSTONE
	%			%	

Show/Drilling Breaks

Interval	ROP	Lithology	Gas	% Fluorescence	Cut	Porosity
-						
-						
-						
-						

Gas

Current BGG: 23u		Max Last 24 hrs: 30u		Conn Gas:		Trip Gas:		Survey/DT Gas:	
C-1	23 %	C-1	30 %	C-1	%	C-1	%	C-1	%
C-2	%	C-2	%	C-2	%	C-2	%	C-2	%
C-3	%	C-3	%	C-3	%	C-3	%	C-3	%
1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%
N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%

Correlations: Top of ARAPIEN @ 4320 ' , -
We are ' high/low to
Top of NORTH HORN FORMATION @ 3810 ' , -
We are ' high/low to

Expecting Top of: TWIN CREEK FORMATION @ 8200??? ' , -

Drilling Conditions:

@ 5912'	@ 5912'	Trip: Hrs	Deviation
HOB	WT 9.7	@	° @ '
WOB 29	vis 42	Reason:	° @ '
RPM 0	pH		° @ '
PP 2,200	CL	NB#:	° @ '
SPM 180	WL	Type:	° @ '

Driller's Log

Time 0500-0500	Operation DRILL FROM 5748' - 5912'

Calibrations:

TOTAL GAS
Catalytic Combustion
1% Methane

units	105	100
volts	2.05	2.04
	before	after

CALIBRATIONS
Thermal Conduct
10% Methane

units	1798	1000
volts	1.74	1.74
	before	after

CHROMATOGRAPH

Div.	Sec.	%
C-1	13.5	1
C-2	32.25	1
C-3	59.25	1
C-4	103	1
NC-4	169	1

Filament Change: type METAL , GREEN ' METAL time.

Gas Trap:
Rig Air Motor
Transfer Time 3MIN
Trap Cleaned (date)

Chromatograph Settings:
Carrier Air Pressure 5.08 psi,
Cycle Time 260SECS sec.

Logging Team: Team Leader: TOM SELMAN Team Lead Logger: JED JENKINS Team Logger: WALTER MOCKLER

Comments:

SELMAN AND ASSOCIATES, LTD.
GEOLOGICAL CONSULTING / SURFACE LOGGING SERVICES

Morning Report

Company: PIONEER NATURAL RESOURCES USA, INC. Date: 10/31/2010 Day: 46

Well Name: SOUTH HILLS FEDERAL 6-1 Prepared by: JED JENKINS

Current Operations: CIRCULATING @ 5,926' Unit Phone Number: 432/385-4428 - 432/288-2228

TD: 5958' Time: 0500 Drill Rate: NA Min/Ft NA Ft/Hr

Current BGG: 11u Max Last 24 hrs: 11u Conn Gas: Trip Gas: Survey/DT Gas:

Current Lag Time @ ' = 52 Minutes or 9338 Lag Strokes

Made 46 ' in the last 24 hours. Company Representative called: CALEB POLLOCK @ 0830 a.m./p.m.

Lithology (Last Sample) @: 5940			Last Previous Change @: 5920		
85	%	SHALE	90	%	SHALE
15	%	LIMESTONE	10	%	LIMESTONE
	%			%	

Show/Drilling Breaks

Interval	ROP	Lithology	Gas	% Fluorescence	Cut	Porosity
-						
-						
-						
-						

Gas

Current BGG: 11u		Max Last 24 hrs: 11u		Conn Gas:		Trip Gas:		Survey/DT Gas:	
C-1	11 %	C-1	11 %	C-1	%	C-1	%	C-1	%
C-2	%	C-2	%	C-2	%	C-2	%	C-2	%
C-3	%	C-3	%	C-3	%	C-3	%	C-3	%
1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%
N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%

Correlations: Top of ARAPIEN @ 4320 ' , -
We are ' high/low to
Top of NORTH HORN FORMATION @ 3810 ' , -
We are ' high/low to

Expecting Top of: TWIN CREEK FORMATION @ 8200??? ' , -

Drilling Conditions:

@ 5958'	@ 5958'	Trip: Hrs	Deviation
HOB	WT 9.4	@	° @ '
WOB 0	vis 42	Reason:	° @ '
RPM 0	pH		° @ '
PP	CL	NB#:	° @ '
SPM	WL	Type:	° @ '

Driller's Log

Time	Operation
0500-0830	DRILL FROM 5913' - 5958'
0830-0500	SHORT TRIP UP INTO SURF. CSING DUE TO MASSIVE LOSS OF CIRC./TIH - CIRC @ 5928'

Calibrations:

TOTAL GAS
Catalytic Combustion
1% Methane

units	105	100
volts	2.05	2.04
	before	after

CALIBRATIONS
Thermal Conduct
10% Methane

units	1798	1000
volts	1.74	1.74
	before	after

CHROMATOGRAPH

Div.	Sec.	%
C-1	13.5	1
C-2	32.25	1
C-3	59.25	1
C-4	103	1
NC-4	169	1

Filament Change: type METAL , GREEN ' METAL time.

Gas Trap:
Rig Air Motor
Transfer Time 3MIN
Trap Cleaned (date)

Chromatograph Settings:
Carrier Air Pressure 5.08 psi,
Cycle Time 260SECS sec.

Logging Team: Team Leader: TOM SELMAN Team Lead Logger: JED JENKINS Team Logger: WALTER MOCKLER

Comments:

SELMAN AND ASSOCIATES, LTD.
GEOLOGICAL CONSULTING / SURFACE LOGGING SERVICES

Morning Report

Company: PIONEER NATURAL RESOURCES USA, INC. Date: 11/1/2010 Day: 47

Well Name: SOUTH HILLS FEDERAL 6-1 Prepared by: JED JENKINS

Current Operations: TIH WITH NEW MOTOR Unit Phone Number: 432/385-4428 - 432/288-2228

TD: 5960' Time: 0500 Drill Rate: NA Min/Ft NA Ft/Hr

Current BGG: 6u Max Last 24 hrs: 6u Conn Gas: Trip Gas: Survey/DT Gas:

Current Lag Time @ ' = 52 Minutes or 9338 Lag Strokes

Made 2 ' in the last 24 hours. Company Representative called: CALEB POLLOCK @ 0830 a.m./p.m.

Lithology (Last Sample) @: 5940			Last Previous Change @: 5920		
85	%	SHALE	90	%	SHALE
15	%	LIMESTONE	10	%	LIMESTONE
	%			%	

Show/Drilling Breaks

Interval	ROP	Lithology	Gas	% Fluorescence	Cut	Porosity
-						
-						
-						
-						

Gas

Current BGG: 11u		Max Last 24 hrs: 11u		Conn Gas:		Trip Gas:		Survey/DT Gas:	
C-1	11 %	C-1	11 %	C-1	%	C-1	%	C-1	%
C-2	%	C-2	%	C-2	%	C-2	%	C-2	%
C-3	%	C-3	%	C-3	%	C-3	%	C-3	%
1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%
N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%

Correlations: Top of ARAPIEN @ 4320 ', -
We are ' high/low to
Top of NORTH HORN FORMATION @ 3810 ', -
We are ' high/low to

Expecting Top of: TWIN CREEK FORMATION @ 8200??? ', -

Drilling Conditions:

@ 5958'	@ 5958'	Trip: Hrs	Deviation
HOB	WT 9.4	@	° @ '
WOB 0	vis 42	Reason:	° @ '
RPM 0	pH		° @ '
PP	CL	NB#:	° @ '
SPM	WL	Type:	° @ '

Driller's Log

Time	Operation
0500-1600	CIRCULATE - TIH
1600-1620	DRILL FROM 5958' - 5960'
1620-0500	TOOH - SWAP NEW MOTOR - TIH

Calibrations:

TOTAL GAS
Catalytic Combustion
1% Methane

units	105	100
volts	2.05	2.04
	before	after

CALIBRATIONS
Thermal Conduct
10% Methane

units	1798	1000
volts	1.74	1.74
	before	after

CHROMATOGRAPH

Div.	Sec.	%
C-1	13.5	1
C-2	32.25	1
C-3	59.25	1
C-4	103	1
NC-4	169	1

Filament Change: type METAL , GREEN ' METAL time.

Gas Trap:
Rig Air Motor
Transfer Time 3MIN
Trap Cleaned (date)

Chromatograph Settings:
Carrier Air Pressure 5.08 psi,
Cycle Time 260SECS sec.

Logging Team: Team Leader: TOM SELMAN Team Lead Logger: JED JENKINS Team Logger: WALTER MOCKLER

Comments:

SELMAN AND ASSOCIATES, LTD.
GEOLOGICAL CONSULTING / SURFACE LOGGING SERVICES

Morning Report

Company: PIONEER NATURAL RESOURCES USA, INC. Date: 11/2/2010 Day: 48

Well Name: SOUTH HILLS FEDERAL 6-1 Prepared by: JED JENKINS

Current Operations: TIH WITH NEW MOTOR Unit Phone Number: 432/385-4428 - 432/288-2228

TD: 5960' Time: 0500 Drill Rate: NA Min/Ft NA Ft/Hr

Current BGG: 6u Max Last 24 hrs: 6u Conn Gas: Trip Gas: Survey/DT Gas:

Current Lag Time @ ' = 52 Minutes or 9338 Lag Strokes

Made 0 ' in the last 24 hours. Company Representative called: CALEB POLLOCK @ 0830 a.m./p.m.

Lithology (Last Sample) @: 5940			Last Previous Change @: 5920		
85	%	SHALE	90	%	SHALE
15	%	LIMESTONE	10	%	LIMESTONE
	%			%	

Show/Drilling Breaks

Interval	ROP	Lithology	Gas	% Fluorescence	Cut	Porosity
-						
-						
-						
-						

Gas

Current BGG: 6u		Max Last 24 hrs: 6u		Conn Gas:		Trip Gas:		Survey/DT Gas:	
C-1	6 %	C-1	6 %	C-1	%	C-1	%	C-1	%
C-2	%	C-2	%	C-2	%	C-2	%	C-2	%
C-3	%	C-3	%	C-3	%	C-3	%	C-3	%
1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%
N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%

Correlations: Top of ARAPIEN @ 4320 ', -
We are ' high/low to
Top of NORTH HORN FORMATION @ 3810 ', -
We are ' high/low to

Expecting Top of: TWIN CREEK FORMATION @ 8200??? ', -

Drilling Conditions:

@ 5960'	@ 5960'	Trip: Hrs	Deviation
HOB	WT 9.4	@	° @ '
WOB 0	vis 42	Reason:	° @ '
RPM 0	pH		° @ '
PP -	CL	NB#:	° @ '
SPM -	WL	Type:	° @ '

Driller's Log

Time 0500-0500	Operation CIRCULATE / RIH WITH NEW MOTOR

Calibrations:

TOTAL GAS
Catalytic Combustion
1% Methane

units	105	100
volts	2.05	2.04
	before	after

CALIBRATIONS
Thermal Conduct
10% Methane

units	1798	1000
volts	1.74	1.74
	before	after

CHROMATOGRAPH

Div.	Sec.	%
C-1	13.5	1
C-2	32.25	1
C-3	59.25	1
C-4	103	1
NC-4	169	1

Filament Change: type METAL , GREEN ' METAL time.

Gas Trap:
Rig Air Motor
Transfer Time 3MIN
Trap Cleaned (date)

Chromatograph Settings:
Carrier Air Pressure 5.08 psi,
Cycle Time 260SECS sec.

Logging Team: Team Leader: TOM SELMAN Team Lead Logger: JED JENKINS Team Logger: WALTER MOCKLER

Comments:

SELMAN AND ASSOCIATES, LTD.
GEOLOGICAL CONSULTING / SURFACE LOGGING SERVICES

Morning Report

Company: PIONEER NATURAL RESOURCES USA, INC. Date: 11/3/2010 Day: 49

Well Name: SOUTH HILLS FEDERAL 6-1 Prepared by: JED JENKINS

Current Operations: DRILLING @5977' Unit Phone Number: 432/385-4428 - 432/288-2228

TD: 5977' Time: 0500 Drill Rate: NA Min/Ft NA Ft/Hr

Current BGG: 10u Max Last 24 hrs: 10u Conn Gas: Trip Gas: Survey/DT Gas:

Current Lag Time @ ' = 52 Minutes or 9338 Lag Strokes

Made 17 ' in the last 24 hours. Company Representative called: CALEB POLLOCK @ 0830 a.m./p.m.

Lithology (Last Sample) @: 5940			Last Previous Change @: 5920		
85	%	SHALE	90	%	SHALE
15	%	LIMESTONE	10	%	LIMESTONE
	%			%	

Show/Drilling Breaks

Interval	ROP	Lithology	Gas	% Fluorescence	Cut	Porosity
-						
-						
-						
-						

Gas

Current BGG: 6u		Max Last 24 hrs: 6u		Conn Gas:		Trip Gas:		Survey/DT Gas:	
C-1	6 %	C-1	6 %	C-1	%	C-1	%	C-1	%
C-2	%	C-2	%	C-2	%	C-2	%	C-2	%
C-3	%	C-3	%	C-3	%	C-3	%	C-3	%
1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%
N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%

Correlations: Top of ARAPIEN @ 4320 ', -
We are ' high/low to
Top of NORTH HORN FORMATION @ 3810 ', -
We are ' high/low to

Expecting Top of: TWIN CREEK FORMATION @ 8200??? ', -

Drilling Conditions:

@ 5977'	@ 5977'	Trip: Hrs	Deviation
HOB	WT 9.4	@	° @ '
WOB 0	vis 42	Reason:	° @ '
RPM 0	pH		° @ '
PP	CL	NB#:	° @ '
SPM	WL	Type:	° @ '

Driller's Log

Time	Operation
0500-0320	RIH
0320-0500	DRILL FROM 5960' - 5977'

Calibrations:

TOTAL GAS
Catalytic Combustion
1% Methane

units	105	100
volts	2.05	2.04
	before	after

CALIBRATIONS
Thermal Conduct
10% Methane

units	1798	1000
volts	1.74	1.74
	before	after

CHROMATOGRAPH

Div.	Sec.	%
C-1	13.5	1
C-2	32.25	1
C-3	59.25	1
C-4	103	1
NC-4	169	1

Filament Change: type METAL , GREEN ' METAL time.

Gas Trap:
Rig Air Motor
Transfer Time 3MIN
Trap Cleaned (date)

Chromatograph Settings:
Carrier Air Pressure 5.08 psi,
Cycle Time 260SECS sec.

Logging Team: Team Leader: TOM SELMAN Team Lead Logger: JED JENKINS Team Logger: WALTER MOCKLER

Comments:

SELMAN AND ASSOCIATES, LTD.
GEOLOGICAL CONSULTING / SURFACE LOGGING SERVICES

Morning Report

Company: PIONEER NATURAL RESOURCES USA, INC. Date: 11/4/2010 Day: 50

Well Name: SOUTH HILLS FEDERAL 6-1 Prepared by: JED JENKINS

Current Operations: DRILLING @ 6023' Unit Phone Number: 432/385-4428 - 432/288-2228

TD: 6023' Time: 0500 Drill Rate: NA Min/Ft NA Ft/Hr

Current BGG: 121u Max Last 24 hrs: 1188u Conn Gas: Trip Gas: 32u Survey/DT Gas:

Current Lag Time @ ' = 58 Minutes or 9751 Lag Strokes

Made 46 ' in the last 24 hours. Company Representative called: CALEB POLLOCK @ 0830 a.m./p.m.

Lithology (Last Sample) @: 6020			Last Previous Change @: 6010		
85	%	SANDSTONE	85	%	SANDSTONE
15	%	SHALE	15	%	SHALE
	%			%	

Show/Drilling Breaks

Interval	ROP	Lithology	Gas	% Fluorescence	Cut	Porosity
-						
-						
-						
-						

Gas

Current BGG: 121u		Max Last 24 hrs: 1188u		Conn Gas:		Trip Gas: 32u		Survey/DT Gas:	
C-1	121 %	C-1	1188 %	C-1	%	C-1	32 %	C-1	%
C-2	%	C-2	%	C-2	%	C-2	%	C-2	%
C-3	%	C-3	%	C-3	%	C-3	%	C-3	%
1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%
N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%

Correlations: Top of ARAPIEN @ 4320' ', -
We are ' high/low to
Top of NORTH HORN FORMATION @ 3810' ', -
We are ' high/low to

Expecting Top of: TWIN CREEK FORMATION @ 8200'? ', -

Drilling Conditions:

@ 6023'	@ 6023'	Trip: Hrs	Deviation
HOB	WT 9.1	@	° @ '
WOB 23	vis 43	Reason:	° @ '
RPM 0	pH		° @ '
PP 1,680	CL	NB#:	° @ '
SPM 170	WL	Type:	° @ '

Driller's Log

Time	Operation
0500-0940	DRILL FROM 5977' - 5994'
0940-1120	RIG SERVICE - CHANGE TO COARSE SCREENS ON SHAKERS
1120-0500	DRILL FROM 5994' - 6023'

Calibrations:

TOTAL GAS
Catalytic Combustion
1% Methane

units	105	100
volts	2.05	2.04
	before	after

CALIBRATIONS
Thermal Conduct
10% Methane

units	1798	1000
volts	1.74	1.74
	before	after

CHROMATOGRAPH

Div.	Sec.	%
C-1	13.5	1
C-2	32.25	1
C-3	59.25	1
C-4	103	1
NC-4	169	1

Filament Change: type METAL , GREEN ' METAL time.

Gas Trap:
Rig Air Motor
Transfer Time 3
Trap Cleaned (date)

Chromatograph Settings:
Carrier Air Pressure 5.08 psi,
Cycle Time 260 sec.

Logging Team: Team Leader: TOM SELMAN Team Lead Logger: JED JENKINS Team Logger: WALTER MOCKLER

Comments: PUMPING LCM SWEEPS ALMOST NONSTOP

SELMAN AND ASSOCIATES, LTD.
GEOLOGICAL CONSULTING / SURFACE LOGGING SERVICES

Morning Report

Company: PIONEER NATURAL RESOURCES USA, INC. Date: 11/5/2010 Day: 51

Well Name: SOUTH HILLS FEDERAL 6-1 Prepared by: JED JENKINS

Current Operations: RIH W/ NEW BIT & DIRECTIONAL TOOLS Unit Phone Number: 432/385-4428 - 432/288-2228

TD: 6023' Time: 0500 Drill Rate: NA Min/Ft NA Ft/Hr

Current BGG: 3u Max Last 24 hrs: 11u Conn Gas: Trip Gas: Survey/DT Gas:

Current Lag Time @ ' = 58 Minutes or 9751 Lag Strokes

Made ' in the last 24 hours. Company Representative called: CALEB POLLOCK @ 0830 a.m./p.m.

Lithology (Last Sample) @: 6020			Last Previous Change @: 6010		
85	%	SANDSTONE	85	%	SANDSTONE
15	%	SHALE	15	%	SHALE
	%			%	

Show/Drilling Breaks

Interval	ROP	Lithology	Gas	% Fluorescence	Cut	Porosity
-						
-						
-						
-						

Gas

Current BGG: 3u		Max Last 24 hrs: 11u		Conn Gas:		Trip Gas:		Survey/DT Gas:	
C-1	3 %	C-1	11 %	C-1	%	C-1	%	C-1	%
C-2	%	C-2	%	C-2	%	C-2	%	C-2	%
C-3	%	C-3	%	C-3	%	C-3	%	C-3	%
1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%
N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%

Correlations: Top of ARAPIEN @ 4320' ', -
We are ' high/low to
Top of NORTH HORN FORMATION @ 3810' ', -
We are ' high/low to

Expecting Top of: TWIN CREEK FORMATION @ 8200'? ', -

Drilling Conditions:

@ 6023'	@ 6023'	Trip: Hrs	Deviation
HOB	WT 9.1	@	° @ '
WOB 23	vis 43	Reason:	° @ '
RPM 0	pH		° @ '
PP 1,680	CL	NB#:	° @ '
SPM 170	WL	Type:	° @ '

Driller's Log

Time 0500-0500	Operation POOH / RIH NEW BIT & DIRECTIONAL TOOLS

Calibrations:

TOTAL GAS
Catalytic Combustion
1% Methane

units	105	100
volts	2.05	2.04
	before	after

CALIBRATIONS
Thermal Conduct
10% Methane

units	1798	1000
volts	1.74	1.74
	before	after

CHROMATOGRAPH

Div.	Sec.	%
C-1	13.5	1
C-2	32.25	1
C-3	59.25	1
C-4	103	1
NC-4	169	1

Filament Change: type METAL , GREEN ' METAL time.

Gas Trap:
Rig Air Motor
Transfer Time 3
Trap Cleaned (date)

Chromatograph Settings:
Carrier Air Pressure 5.08 psi,
Cycle Time 260 sec.

Logging Team: Team Leader: TOM SELMAN Team Lead Logger: JED JENKINS Team Logger: WALTER MOCKLER

Comments: RIH WITH DIRECTIONAL TOOLS - G/L UNDER CONTROL

SELMAN AND ASSOCIATES, LTD.
GEOLOGICAL CONSULTING / SURFACE LOGGING SERVICES

Morning Report

Company: PIONEER NATURAL RESOURCES USA, INC. Date: 11/6/2010 Day: 52

Well Name: SOUTH HILLS FEDERAL 6-1 Prepared by: JED JENKINS

Current Operations: PREPARING TO RIH W/ NEW BIT Unit Phone Number: 432/385-4428 - 432/288-2228

TD: 6028' Time: 0500 Drill Rate: NA Min/Ft NA Ft/Hr

Current BGG: 7u Max Last 24 hrs: 39u Conn Gas: Trip Gas: Survey/DT Gas:

Current Lag Time @ ' = 58 Minutes or 9751 Lag Strokes

Made 5 ' in the last 24 hours. Company Representative called: CALEB POLLOCK @ 0830 a.m./p.m.

Lithology (Last Sample) @: 6025			Last Previous Change @: 6020		
85	%	LIMESTONE	85	%	SANDSTONE
10	%	SANDSTONE	15	%	SHALE
5	%	SHALE		%	

Show/Drilling Breaks

Interval	ROP	Lithology	Gas	% Fluorescence	Cut	Porosity
-						
-						
-						
-						

Gas

Current BGG: 7u		Max Last 24 hrs: 39u		Conn Gas:		Trip Gas:		Survey/DT Gas:	
C-1	7 %	C-1	39 %	C-1	%	C-1	%	C-1	%
C-2	%	C-2	%	C-2	%	C-2	%	C-2	%
C-3	%	C-3	%	C-3	%	C-3	%	C-3	%
1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%
N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%

Correlations: Top of ARAPIEN @ 4320' ', -
We are ' high/low to
Top of NORTH HORN FORMATION @ 3810' ', -
We are ' high/low to

Expecting Top of: TWIN CREEK FORMATION @ 8200'? ', -

Drilling Conditions:

@ 6028'	@ 6028'	Trip: Hrs	Deviation
HOB	WT 9.3	@	° @ '
WOB 0	vis 42	Reason:	° @ '
RPM 0	pH		° @ '
PP 0	CL	NB#:	° @ '
SPM 0	WL	Type:	° @ '

Driller's Log

Time	Operation
0500-1520	RIH W/ NEW BIT TO CLEAN HOLE
1520-1820	DRILL FROM 6023' - 6028'
1820-0500	POOH FOR NEW BIT

Calibrations:

TOTAL GAS
Catalytic Combustion
1% Methane

units	105	100
volts	2.05	2.04
	before	after

CALIBRATIONS
Thermal Conduct
10% Methane

units	1798	1000
volts	1.74	1.74
	before	after

CHROMATOGRAPH

Div.	Sec.	%
C-1	13.5	1
C-2	32.25	1
C-3	59.25	1
C-4	103	1
NC-4	169	1

Filament Change: type METAL , GREEN ' METAL time.

Gas Trap:
Rig Air Motor
Transfer Time 3
Trap Cleaned (date)

Chromatograph Settings:
Carrier Air Pressure 5.08 psi,
Cycle Time 260 sec.

Logging Team: Team Leader: TOM SELMAN Team Lead Logger: JED JENKINS Team Logger: WALTER MOCKLER

Comments:

SELMAN AND ASSOCIATES, LTD.
GEOLOGICAL CONSULTING / SURFACE LOGGING SERVICES

Morning Report

Company: PIONEER NATURAL RESOURCES USA, INC. Date: 11/7/2010 Day: 53

Well Name: SOUTH HILLS FEDERAL 6-1 Prepared by: JED JENKINS

Current Operations: DRILLING @ 6152' Unit Phone Number: 432/385-4428 - 432/288-2228

TD: 6152' Time: 0500 Drill Rate: Min/Ft 8.9 Ft/Hr

Current BGG: 22u Max Last 24 hrs: 34u Conn Gas: Trip Gas: 34u Survey/DT Gas:

Current Lag Time @ ' = 56 Minutes or 9967 Lag Strokes

Made 124 ' in the last 24 hours. Company Representative called: CALEB POLLOCK @ 0830 a.m./p.m.

Lithology (Last Sample) @: 6130			Last Previous Change @: 6120		
90	%	SANDSTONE	90	%	SANDSTONE
10	%	LIMESTONE	10	%	LIMESTONE
	%			%	

Show/Drilling Breaks

Interval	ROP	Lithology	Gas	% Fluorescence	Cut	Porosity
-						
-						
-						
-						

Gas

Current BGG: 22u		Max Last 24 hrs: 239u		Conn Gas:		Trip Gas: 239u		Survey/DT Gas:	
C-1	22 %	C-1	239 %	C-1	%	C-1	239 %	C-1	%
C-2	%	C-2	%	C-2	%	C-2	%	C-2	%
C-3	%	C-3	%	C-3	%	C-3	%	C-3	%
1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%
N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%

Correlations: Top of ARAPIEN @ 4320' ', -
We are ' high/low to
Top of NORTH HORN FORMATION @ 3810' ', -
We are ' high/low to

Expecting Top of: TWIN CREEK FORMATION @ 8200'? ', -

Drilling Conditions:

@ 6152'	@ 6152'	Trip: Hrs	Deviation
HOB	WT 9.3	@ 6028	° @ '
WOB 35	vis 48	Reason: NBIT/MOTOR	° @ '
RPM 0	pH		° @ '
PP 2,910	CL	NB#:	° @ '
SPM 190	WL	Type:	° @ '

Driller's Log

Time	Operation
0500-1800	RIH W/ NBIT/MOTOR
1800-2015	DRILL FROM 6028' - 6053'
2015-2120	RIG SERVICE - PUMP #1
2120-0500	DRILL FROM 6053' - 6153'

Calibrations:

TOTAL GAS
Catalytic Combustion
1% Methane

units	105	100
volts	2.05	2.04
	before	after

CALIBRATIONS
Thermal Conduct
10% Methane

units	1798	1000
volts	1.74	1.74
	before	after

CHROMATOGRAPH

Div.	Sec.	%
C-1	13.5	1
C-2	32.25	1
C-3	59.25	1
C-4	103	1
NC-4	169	1

Filament Change: type METAL , GREEN ' METAL time.

Gas Trap:
Rig Air Motor
Transfer Time 3
Trap Cleaned (date)

Chromatograph Settings:
Carrier Air Pressure 5.08 psi,
Cycle Time 260 sec.

Logging Team: Team Leader: TOM SELMAN Team Lead Logger: JED JENKINS Team Logger: WALTER MOCKLER

Comments:

SELMAN AND ASSOCIATES, LTD.
GEOLOGICAL CONSULTING / SURFACE LOGGING SERVICES

Morning Report

Company: PIONEER NATURAL RESOURCES USA, INC. Date: 11/8/2010 Day: 54

Well Name: SOUTH HILLS FEDERAL 6-1 Prepared by: JED JENKINS

Current Operations: DRILLING @ 6332' Unit Phone Number: 432/385-4428 - 432/288-2228

TD: 6332' Time: 0500 Drill Rate: Min/Ft 3 Ft/Hr

Current BGG: 33u Max Last 24 hrs: 33u Conn Gas: Trip Gas: Survey/DT Gas:

Current Lag Time @ ' = 56 Minutes or 9967 Lag Strokes

Made 180 ' in the last 24 hours. Company Representative called: CALEB POLLOCK @ 0830 a.m./p.m.

Lithology (Last Sample) @: 6330

100 % SANDSTONE

% %

% %

Last Previous Change @: 6320

100 % SANDSTONE

% %

% %

Show/Drilling Breaks

Interval	ROP	Lithology	Gas	% Fluorescence	Cut	Porosity
-						
-						
-						
-						

Gas

Current BGG: 33u		Max Last 24 hrs: 33u		Conn Gas:		Trip Gas:		Survey/DT Gas:	
C-1	33 %	C-1	33 %	C-1	%	C-1	%	C-1	%
C-2	%	C-2	%	C-2	%	C-2	%	C-2	%
C-3	%	C-3	%	C-3	%	C-3	%	C-3	%
1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%
N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%

Correlations: Top of ARAPIEN @ 4320' ', -

We are ' high/low to

Top of NORTH HORN FORMATION @ 3810' ', -

We are ' high/low to

Expecting Top of: TWIN CREEK FORMATION @ 8200'? ', -

Drilling Conditions:

@ 6333'	@ 6333'	Trip: Hrs	Deviation
HOB	WT 9.2	@	° @ '
WOB 35	vis 45	Reason:	° @ '
RPM 0	pH		° @ '
PP 2680	CL	NB#:	° @ '
SPM 190	WL	Type:	° @ '

Driller's Log

Time	Operation
0500-1150	DRILL FROM 6153' - 6205'
1150-1300	RIG SERVICE - CHECK PUMPS
1300-0500	DRILL FROM 6205' - 6332'

Calibrations:

TOTAL GAS
Catalytic Combustion
1% Methane

units	105	100
volts	2.05	2.04
	before	after

CALIBRATIONS
Thermal Conduct
10% Methane

units	1798	1000
volts	1.74	1.74
	before	after

CHROMATOGRAPH

Div.	Sec.	%
C-1	13.5	1
C-2	32.25	1
C-3	59.25	1
C-4	103	1
NC-4	169	1

Filament Change: type METAL , GREEN ' METAL time.

Gas Trap:
Rig Air Motor
Transfer Time 3
Trap Cleaned (date)

Chromatograph Settings:
Carrier Air Pressure 5.08 psi,
Cycle Time 260 sec.

Logging Team: Team Leader: TOM SELMAN Team Lead Logger: JED JENKINS Team Logger: WALTER MOCKLER

Comments:

SELMAN AND ASSOCIATES, LTD.
GEOLOGICAL CONSULTING / SURFACE LOGGING SERVICES

Morning Report

Company: PIONEER NATURAL RESOURCES USA, INC. Date: 11/9/2010 Day: 55

Well Name: SOUTH HILLS FEDERAL 6-1 Prepared by: JED JENKINS

Current Operations: TIH/CIRCULATING @ 6302' Unit Phone Number: 432/385-4428 - 432/288-2228

TD: 6338' Time: 0500 Drill Rate: _____ Min/Ft _____ Ft/Hr

Current BGG: 16u Max Last 24 hrs: 20u Conn Gas: _____ Trip Gas: _____ Survey/DT Gas: _____

Current Lag Time @ _____ ' = 54 Minutes or 10277 Lag Strokes

Made 6 ' in the last 24 hours. Company Representative called: CALEB POLLOCK @ 0830 a.m./p.m.

Lithology (Last Sample) @: 6340			Last Previous Change @: 6330		
100	%	SANDSTONE	100	%	SANDSTONE
	%			%	
	%			%	

Show/Drilling Breaks

Interval	ROP	Lithology	Gas	% Fluorescence	Cut	Porosity
-						
-						
-						
-						

Gas

Current BGG: 16u		Max Last 24 hrs: 20u		Conn Gas:		Trip Gas:		Survey/DT Gas:	
C-1	16 %	C-1	20 %	C-1	%	C-1	%	C-1	%
C-2	%	C-2	%	C-2	%	C-2	%	C-2	%
C-3	%	C-3	%	C-3	%	C-3	%	C-3	%
1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%
N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%

Correlations: Top of ARAPIEN @ 4320' ' , -
We are _____ ' high/low to
Top of NORTH HORN FORMATION @ 3810' ' , -
We are _____ ' high/low to

Expecting Top of: TWIN CREEK FORMATION @ 8200'? ' , - _____

Drilling Conditions:

@ 6338'	@ 6338'	Trip: Hrs	Deviation
HOB	WT 9.2	@	° @ '
WOB 35	vis 45	Reason:	° @ '
RPM 0	pH		° @ '
PP 2680	CL	NB#:	° @ '
SPM 190	WL	Type:	° @ '

Driller's Log

Time	Operation
0500-0815	SHORT TRIP/REAM HOLE
0815-1315	DRILL FROM 6332' - 6338'
1315-0500	POOH/RIH

Calibrations:

TOTAL GAS
Catalytic Combustion
1% Methane

units	105	100
volts	2.05	2.04
	before	after

CALIBRATIONS
Thermal Conduct
10% Methane

units	1798	1000
volts	1.74	1.74
	before	after

CHROMATOGRAPH

Div.	Sec.	%
C-1	13.5	1
C-2	32.25	1
C-3	59.25	1
C-4	103	1
NC-4	169	1

Filament Change: type METAL , GREEN ' METAL time.

Gas Trap:
Rig Air Motor _____
Transfer Time 3
Trap Cleaned (date) _____

Chromatograph Settings:
Carrier Air Pressure 5.08 psi,
Cycle Time 260 sec.

Logging Team: Team Leader: TOM SELMAN Team Lead Logger: JED JENKINS Team Logger: WALTER MOCKLER

Comments:

SELMAN AND ASSOCIATES, LTD.
GEOLOGICAL CONSULTING / SURFACE LOGGING SERVICES

Morning Report

Company: PIONEER NATURAL RESOURCES USA, INC. Date: 11/10/2010 Day: 56

Well Name: SOUTH HILLS FEDERAL 6-1 Prepared by: JED JENKINS

Current Operations: TIH W/ NEW BIT Unit Phone Number: 432/385-4428 - 432/288-2228

TD: 6356' Time: 0500 Drill Rate: _____ Min/Ft _____ Ft/Hr

Current BGG: 10u Max Last 24 hrs: 37u Conn Gas: _____ Trip Gas: _____ Survey/DT Gas: _____

Current Lag Time @ _____ ' = 54 Minutes or 10277 Lag Strokes

Made 18 ' in the last 24 hours. Company Representative called: CALEB POLLOCK @ 0830 a.m./p.m.

Lithology (Last Sample) @: 6350			Last Previous Change @: 6340		
100	%	SANDSTONE	100	%	SANDSTONE
	%			%	
	%			%	

Show/Drilling Breaks

Interval	ROP	Lithology	Gas	% Fluorescence	Cut	Porosity
-						
-						
-						
-						

Gas

Current BGG: 10u		Max Last 24 hrs: 37u		Conn Gas:		Trip Gas:		Survey/DT Gas:	
C-1	10 %	C-1	37 %	C-1	%	C-1	%	C-1	%
C-2	%	C-2	%	C-2	%	C-2	%	C-2	%
C-3	%	C-3	%	C-3	%	C-3	%	C-3	%
1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%
N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%

Correlations: Top of ARAPIEN @ 4320' ' , -
We are _____ ' high/low to
Top of NORTH HORN FORMATION @ 3810' ' , -
We are _____ ' high/low to

Expecting Top of: TWIN CREEK FORMATION @ 8200'? ' , - _____

Drilling Conditions:

@ 6356'	@ 6356'	Trip: Hrs	Deviation
HOB	WT 9.0	@	° @ '
WOB 0	vis 50	Reason:	° @ '
RPM 0	pH		° @ '
PP 0	CL	NB#:	° @ '
SPM 0	WL	Type:	° @ '

Driller's Log

Time	Operation
0500-1645	DRILL FROM 6338' - 6356'
1645-0500	POOH/RIH W/ NEW BIT

Calibrations:

TOTAL GAS
Catalytic Combustion
1% Methane

units	105	100
volts	2.05	2.04
	before	after

CALIBRATIONS
Thermal Conduct
10% Methane

units	1798	1000
volts	1.74	1.74
	before	after

CHROMATOGRAPH

Div.	Sec.	%
C-1	13.5	1
C-2	32.25	1
C-3	59.25	1
C-4	103	1
NC-4	169	1

Filament Change: type METAL , GREEN ' METAL time.

Gas Trap:
Rig Air Motor _____
Transfer Time 3
Trap Cleaned (date) _____

Chromatograph Settings:
Carrier Air Pressure 5.08 psi,
Cycle Time 260 sec.

Logging Team: Team Leader: TOM SELMAN Team Lead Logger: JED JENKINS Team Logger: WALTER MOCKLER

Comments:

SELMAN AND ASSOCIATES, LTD.
GEOLOGICAL CONSULTING / SURFACE LOGGING SERVICES

Morning Report

Company: PIONEER NATURAL RESOURCES USA, INC. Date: 11/11/2010 Day: 57

Well Name: SOUTH HILLS FEDERAL 6-1 Prepared by: JED JENKINS

Current Operations: DRILLING AHEAD @ 6432' Unit Phone Number: 432/385-4428 - 432/288-2228

TD: 6432' Time: 0500 Drill Rate: _____ Min/Ft _____ Ft/Hr

Current BGG: 28u Max Last 24 hrs: 37u Conn Gas: _____ Trip Gas: _____ Survey/DT Gas: _____

Current Lag Time @ _____ ' = 54 Minutes or 10277 Lag Strokes

Made 76 ' in the last 24 hours. Company Representative called: CALEB POLLOCK @ 0830 a.m./p.m.

Lithology (Last Sample) @: 6420			Last Previous Change @: 6400		
90	%	SANDSTONE	100	%	SANDSTONE
10	%	DOLOMITE		%	
	%			%	

Show/Drilling Breaks

Interval	ROP	Lithology	Gas	% Fluorescence	Cut	Porosity
-						
-						
-						
-						

Gas

Current BGG: 28u		Max Last 24 hrs: 37u		Conn Gas:		Trip Gas:		Survey/DT Gas:	
C-1	28 %	C-1	37 %	C-1	%	C-1	%	C-1	%
C-2	%	C-2	%	C-2	%	C-2	%	C-2	%
C-3	%	C-3	%	C-3	%	C-3	%	C-3	%
1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%
N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%

Correlations: Top of ARAPIEN @ 4320' ' , -
We are _____ ' high/low to
Top of NORTH HORN FORMATION @ 3810' ' , -
We are _____ ' high/low to

Expecting Top of: TWIN CREEK FORMATION @ 8200'? ' , - _____

Drilling Conditions:

@ 6432'	@ 6432'	Trip: Hrs	Deviation
HOB	WT 9.1	@	° @ '
WOB 0	vis 51	Reason:	° @ '
RPM 0	pH		° @ '
PP 0	CL	NB#:	° @ '
SPM 0	WL	Type:	° @ '

Driller's Log

Time	Operation
0500-1140	TIH W/ NEW BIT & MOTOR
1140-0500	DRILL FROM 6356' - 6432'

Calibrations:

TOTAL GAS
Catalytic Combustion
1% Methane

units	105	100
volts	2.05	2.04
	before	after

CALIBRATIONS
Thermal Conduct
10% Methane

units	1798	1000
volts	1.74	1.74
	before	after

CHROMATOGRAPH

Div.	Sec.	%
C-1	13.5	1
C-2	32.25	1
C-3	59.25	1
C-4	103	1
NC-4	169	1

Filament Change: type METAL , GREEN ' METAL time.

Gas Trap:
Rig Air Motor _____
Transfer Time 3
Trap Cleaned (date) _____

Chromatograph Settings:
Carrier Air Pressure 5.08 psi,
Cycle Time 260 sec.

Logging Team: Team Leader: TOM SELMAN Team Lead Logger: JED JENKINS Team Logger: WALTER MOCKLER

Comments:

SELMAN AND ASSOCIATES, LTD.
GEOLOGICAL CONSULTING / SURFACE LOGGING SERVICES

Morning Report

Company: PIONEER NATURAL RESOURCES USA, INC. Date: 11/12/2010 Day: 58

Well Name: SOUTH HILLS FEDERAL 6-1 Prepared by: JED JENKINS

Current Operations: DRILLING AHEAD @ 6,505' Unit Phone Number: 432/385-4428 - 432/288-2228

TD: 6505' Time: 0500 Drill Rate: Min/Ft 3 Ft/Hr

Current BGG: 18u Max Last 24 hrs: 32u Conn Gas: Trip Gas: Survey/DT Gas:

Current Lag Time @ ' = 56 Minutes or 10530 Lag Strokes

Made 73 ' in the last 24 hours. Company Representative called: CALEB POLLOCK @ 0830 a.m./p.m.

Lithology (Last Sample) @: 6500			Last Previous Change @: 6490		
95	%	SANDSTONE	95	%	SANDSTONE
5	%	SHALE	5	%	SHALE
	%			%	

Show/Drilling Breaks

Interval	ROP	Lithology	Gas	% Fluorescence	Cut	Porosity
-						
-						
-						
-						

Gas

Current BGG: 18u		Max Last 24 hrs: 32u		Conn Gas:		Trip Gas:		Survey/DT Gas:	
C-1	18 %	C-1	32 %	C-1	%	C-1	%	C-1	%
C-2	%	C-2	%	C-2	%	C-2	%	C-2	%
C-3	%	C-3	%	C-3	%	C-3	%	C-3	%
1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%
N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%

Correlations: Top of ARAPIEN @ 4320' ', -
We are ' high/low to
Top of NORTH HORN FORMATION @ 3810' ', -
We are ' high/low to

Expecting Top of: TWIN CREEK FORMATION @ 8200'? ', -

Drilling Conditions:

@ 6505'	@ 6505'	Trip: Hrs	Deviation
HOB	WT 9.1	@	° @ '
WOB 0	vis 51	Reason:	° @ '
RPM 0	pH		° @ '
PP 0	CL	NB#:	° @ '
SPM 0	WL	Type:	° @ '

Driller's Log

Time	Operation
0500-1730	DRILL FROM 6432' - 6481'
1730-1950	RIG SERVICE - PUMP #2
1950-0500	DRILL FROM 6481' - 6505'

Calibrations:

TOTAL GAS
Catalytic Combustion
1% Methane

units	105	100
volts	2.05	2.04
	before	after

CALIBRATIONS
Thermal Conduct
10% Methane

units	1798	1000
volts	1.74	1.74
	before	after

CHROMATOGRAPH

Div.	Sec.	%
C-1	13.5	1
C-2	32.25	1
C-3	59.25	1
C-4	103	1
NC-4	169	1

Filament Change: type METAL , GREEN ' METAL time.

Gas Trap:
Rig Air Motor
Transfer Time 3
Trap Cleaned (date)

Chromatograph Settings:
Carrier Air Pressure 5.08 psi,
Cycle Time 260 sec.

Logging Team: Team Leader: TOM SELMAN Team Lead Logger: JED JENKINS Team Logger: WALTER MOCKLER

Comments:

SELMAN AND ASSOCIATES, LTD.
GEOLOGICAL CONSULTING / SURFACE LOGGING SERVICES

Morning Report

Company: PIONEER NATURAL RESOURCES USA, INC. Date: 11/13/2010 Day: 59

Well Name: SOUTH HILLS FEDERAL 6-1 Prepared by: JED JENKINS

Current Operations: DRILLING AHEAD @ 6,601' Unit Phone Number: 432/385-4428 - 432/288-2228

TD: 6601' Time: 0500 Drill Rate: Min/Ft 4 Ft/Hr

Current BGG: 18u Max Last 24 hrs: 28u Conn Gas: Trip Gas: Survey/DT Gas:

Current Lag Time @ ' = 112 Minutes or 10900 Lag Strokes

Made 96 ' in the last 24 hours. Company Representative called: CALEB POLLOCK @ 0830 a.m./p.m.

Lithology (Last Sample) @: 6690			Last Previous Change @: 6680		
100	%	SANDSTONE	100	%	SANDSTONE
	%			%	
	%			%	

Show/Drilling Breaks

Interval	ROP	Lithology	Gas	% Fluorescence	Cut	Porosity
-						
-						
-						
-						

Gas

Current BGG: 18u		Max Last 24 hrs: 28u		Conn Gas:		Trip Gas:		Survey/DT Gas:	
C-1	18 %	C-1	28 %	C-1	%	C-1	%	C-1	%
C-2	%	C-2	%	C-2	%	C-2	%	C-2	%
C-3	%	C-3	%	C-3	%	C-3	%	C-3	%
1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%
N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%

Correlations: Top of ARAPIEN @ 4320' ', -
We are ' high/low to
Top of NORTH HORN FORMATION @ 3810' ', -
We are ' high/low to

Expecting Top of: TWIN CREEK FORMATION @ 8200'? ', -

Drilling Conditions:

@ 6601'	@ 6601'	Trip: Hrs	Deviation
HOB	WT 9.0+	@	° @ '
WOB 58	vis 53	Reason:	° @ '
RPM 35	pH		° @ '
PP 2780	CL	NB#:	° @ '
SPM 96	WL	Type:	° @ '

Driller's Log

Time	Operation
0500-1735	DRILL FROM 6505' - 6552'
1735-1840	RIG SERVICE & CONNECTION
1840-0500	DRILL FROM 6552' - 6601'

Calibrations:

TOTAL GAS
Catalytic Combustion
1% Methane

units	105	100
volts	2.05	2.04
	before	after

CALIBRATIONS
Thermal Conduct
10% Methane

units	1798	1000
volts	1.74	1.74
	before	after

CHROMATOGRAPH

Div.	Sec.	%
C-1	13.5	1
C-2	32.25	1
C-3	59.25	1
C-4	103	1
NC-4	169	1

Filament Change: type METAL , GREEN ' METAL time.

Gas Trap:
Rig Air Motor
Transfer Time 3
Trap Cleaned (date)

Chromatograph Settings:
Carrier Air Pressure 5.08 psi,
Cycle Time 260 sec.

Logging Team: Team Leader: TOM SELMAN Team Lead Logger: JED JENKINS Team Logger: WALTER MOCKLER

Comments:

SELMAN AND ASSOCIATES, LTD.
GEOLOGICAL CONSULTING / SURFACE LOGGING SERVICES

Morning Report

Company: PIONEER NATURAL RESOURCES USA, INC. Date: 11/14/2010 Day: 60

Well Name: SOUTH HILLS FEDERAL 6-1 Prepared by: JED JENKINS

Current Operations: RIH WITH NEW BIT/BHA Unit Phone Number: 432/385-4428 - 432/288-2228

TD: 6631' Time: 0500 Drill Rate: Min/Ft 0 Ft/Hr

Current BGG: 15u Max Last 24 hrs: 28u Conn Gas: Trip Gas: Survey/DT Gas:

Current Lag Time @ ' = 112 Minutes or 10900 Lag Strokes

Made 30 ' in the last 24 hours. Company Representative called: CALEB POLLOCK @ 0830 a.m./p.m.

Lithology (Last Sample) @: 6620			Last Previous Change @: 6610		
85	%	SANDSTONE	100	%	SANDSTONE
15	%	SHALE		%	
	%			%	

Show/Drilling Breaks

Interval	ROP	Lithology	Gas	% Fluorescence	Cut	Porosity
-						
-						
-						
-						

Gas

Current BGG: 15u		Max Last 24 hrs: 28u		Conn Gas:		Trip Gas:		Survey/DT Gas:	
C-1	15 %	C-1	28 %	C-1	%	C-1	%	C-1	%
C-2	%	C-2	%	C-2	%	C-2	%	C-2	%
C-3	%	C-3	%	C-3	%	C-3	%	C-3	%
1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%
N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%

Correlations: Top of ARAPIEN @ 4320' ', -
We are ' high/low to
Top of NORTH HORN FORMATION @ 3810' ', -
We are ' high/low to

Expecting Top of: TWIN CREEK FORMATION @ 8200'? ', -

Drilling Conditions:

@ 6631'	@ 6631'	Trip: Hrs	Deviation
HOB	WT 9.0+	@	° @ '
WOB 58	vis 53	Reason:	° @ '
RPM 35	pH		° @ '
PP 2780	CL	NB#:	° @ '
SPM 96	WL	Type:	° @ '

Driller's Log

Time	Operation
0500-1300	DRILL FROM 6601' - 6631'
1300-0500	POOH / RIH W/ NEW BIT/BHA

Calibrations:

TOTAL GAS
Catalytic Combustion
1% Methane

units	105	100
volts	2.05	2.04
	before	after

CALIBRATIONS
Thermal Conduct
10% Methane

units	1798	1000
volts	1.74	1.74
	before	after

CHROMATOGRAPH

Div.	Sec.	%
C-1	13.5	1
C-2	32.25	1
C-3	59.25	1
C-4	103	1
NC-4	169	1

Filament Change: type METAL , GREEN ' METAL time.

Gas Trap:
Rig Air Motor
Transfer Time 3
Trap Cleaned (date)

Chromatograph Settings:
Carrier Air Pressure 5.08 psi,
Cycle Time 260 sec.

Logging Team: Team Leader: TOM SELMAN Team Lead Logger: JED JENKINS Team Logger: WALTER MOCKLER

Comments:

SELMAN AND ASSOCIATES, LTD.
GEOLOGICAL CONSULTING / SURFACE LOGGING SERVICES

Morning Report

Company: PIONEER NATURAL RESOURCES USA, INC. Date: 11/15/2010 Day: 61

Well Name: SOUTH HILLS FEDERAL 6-1 Prepared by: JED JENKINS

Current Operations: DRILLING AHEAD @ 6754' Unit Phone Number: 432/385-4428 - 432/288-2228

TD: 6754' Time: 0500 Drill Rate: Min/Ft 4.3 Ft/Hr

Current BGG: 25u Max Last 24 hrs: 37u Conn Gas: Trip Gas: Survey/DT Gas:

Current Lag Time @ ' = 58 Minutes or 11306 Lag Strokes

Made 123 ' in the last 24 hours. Company Representative called: CALEB POLLOCK @ 0830 a.m./p.m.

Lithology (Last Sample) @: 6740			Last Previous Change @: 6720		
95	%	SANDSTONE	95	%	SANDSTONE
5	%	SHALE	5	%	SHALE
	%		5	%	LIMESTONE

Show/Drilling Breaks

Interval	ROP	Lithology	Gas	% Fluorescence	Cut	Porosity
-						
-						
-						
-						

Gas

Current BGG: 25u		Max Last 24 hrs: 37u		Conn Gas:		Trip Gas:		Survey/DT Gas:	
C-1	25 %	C-1	37 %	C-1	%	C-1	%	C-1	%
C-2	%	C-2	%	C-2	%	C-2	%	C-2	%
C-3	%	C-3	%	C-3	%	C-3	%	C-3	%
1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%
N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%

Correlations: Top of ARAPIEN @ 4320' ', -
We are ' high/low to
Top of NORTH HORN FORMATION @ 3810' ', -
We are ' high/low to

Expecting Top of: TWIN CREEK FORMATION @ 8200'? ', -

Drilling Conditions:

@ 6754'	@ 6754'	Trip: Hrs	Deviation
HOB	WT 9.1	@	° @ '
WOB 64	vis 55	Reason:	° @ '
RPM 105	pH		° @ '
PP 2800	CL	NB#:	° @ '
SPM 196	WL	Type:	° @ '

Driller's Log

Time 0500-0500	Operation DRILL FROM 6631' - 6754'

Calibrations:

TOTAL GAS
Catalytic Combustion
1% Methane

units	105	100
volts	2.05	2.04
	before	after

CALIBRATIONS
Thermal Conduct
10% Methane

units	1798	1000
volts	1.74	1.74
	before	after

CHROMATOGRAPH

Div.	Sec.	%
C-1	13.5	1
C-2	32.25	1
C-3	59.25	1
C-4	103	1
NC-4	169	1

Filament Change: type METAL , GREEN ' METAL time.

Gas Trap:
Rig Air Motor
Transfer Time 3
Trap Cleaned (date)

Chromatograph Settings:
Carrier Air Pressure 5.08 psi,
Cycle Time 260 sec.

Logging Team: Team Leader: TOM SELMAN Team Lead Logger: JED JENKINS Team Logger: WALTER MOCKLER

Comments:

SELMAN AND ASSOCIATES, LTD.
GEOLOGICAL CONSULTING / SURFACE LOGGING SERVICES

Morning Report

Company: PIONEER NATURAL RESOURCES USA, INC. Date: 11/16/2010 Day: 62

Well Name: SOUTH HILLS FEDERAL 6-1 Prepared by: JED JENKINS

Current Operations: DRILLING AHEAD @ 6845' Unit Phone Number: 432/385-4428 - 432/288-2228

TD: 6845' Time: 0500 Drill Rate: Min/Ft 5.1 Ft/Hr

Current BGG: 19u Max Last 24 hrs: 38u Conn Gas: 38u Trip Gas: NA Survey/DT Gas: NA

Current Lag Time @ ' = 61 Minutes or 11465 Lag Strokes

Made 91 ' in the last 24 hours. Company Representative called: CALEB POLLOCK @ 0830 a.m./p.m.

Lithology (Last Sample) @: 6840

100 % SANDSTONE

% %

% %

Last Previous Change @: 6830

100 % SANDSTONE

% %

% %

Show/Drilling Breaks

Interval	ROP	Lithology	Gas	% Fluorescence	Cut	Porosity
-						
-						
-						
-						

Gas

Current BGG: 19u	Max Last 24 hrs: 38u	Conn Gas: 38u	Trip Gas: NA	Survey/DT Gas: NA
C-1 19 %	C-1 38 %	C-1 38 %	C-1 %	C-1 %
C-2 %	C-2 %	C-2 %	C-2 %	C-2 %
C-3 %	C-3 %	C-3 %	C-3 %	C-3 %
1-C-4 %	1-C-4 %	1-C-4 %	1-C-4 %	1-C-4 %
N-C-4 %	N-C-4 %	N-C-4 %	N-C-4 %	N-C-4 %

Correlations: Top of ARAPIEN @ 4320' ', -

We are ' high/low to

Top of NORTH HORN FORMATION @ 3810' ', -

We are ' high/low to

Expecting Top of: TWIN CREEK FORMATION @ 8200'? ', -

Drilling Conditions:

@ 6846'	@ 6846'	Trip: Hrs	Deviation
HOB	WT 9.0	@	° @ '
WOB 60	vis 55	Reason:	° @ '
RPM 71	pH		° @ '
PP 2700	CL	NB#:	° @ '
SPM 190	WL	Type:	° @ '

Driller's Log

Time 0500-0500	Operation DRILL FROM 6754' - 6845' / PUMP SERVICE WHILE DRILLING WITH 2 PUMPS

Calibrations:

TOTAL GAS
Catalytic Combustion
1% Methane

units	105	100
volts	2.05	2.04
	before	after

CALIBRATIONS
Thermal Conduct
10% Methane

units	1798	1000
volts	1.74	1.74
	before	after

CHROMATOGRAPH

Div.	Sec.	%
C-1	13.5	1
C-2	32.25	1
C-3	59.25	1
C-4	103	1
NC-4	169	1

Filament Change: type METAL , GREEN ' METAL time.

Gas Trap:
Rig Air Motor
Transfer Time 3
Trap Cleaned (date)

Chromatograph Settings:
Carrier Air Pressure 5.08 psi,
Cycle Time 260 sec.

Logging Team: Team Leader: TOM SELMAN Team Lead Logger: JED JENKINS Team Logger: WALTER MOCKLER

Comments:

SELMAN AND ASSOCIATES, LTD.
GEOLOGICAL CONSULTING / SURFACE LOGGING SERVICES

Morning Report

Company: PIONEER NATURAL RESOURCES USA, INC. Date: 11/17/2010 Day: 63

Well Name: SOUTH HILLS FEDERAL 6-1 Prepared by: JED JENKINS

Current Operations: DRILLING AHEAD @ 6929' Unit Phone Number: 432/385-4428 - 432/288-2228

TD: 6929' Time: 0500 Drill Rate: Min/Ft 4.3 Ft/Hr

Current BGG: 22u Max Last 24 hrs: 200u Conn Gas: 200u Trip Gas: NA Survey/DT Gas: NA

Current Lag Time @ ' = 61 Minutes or 11650 Lag Strokes

Made 84 ' in the last 24 hours. Company Representative called: CALEB POLLOCK @ 0830 a.m./p.m.

Lithology (Last Sample) @: 6920			Last Previous Change @: 6910		
100	%	SANDSTONE	100	%	SANDSTONE
	%			%	
	%			%	

Show/Drilling Breaks

Interval	ROP	Lithology	Gas	% Fluorescence	Cut	Porosity
-						
-						
-						
-						

Gas

Current BGG: 22u		Max Last 24 hrs: 200u		Conn Gas: 200u		Trip Gas: NA		Survey/DT Gas: NA	
C-1	22 %	C-1	200 %	C-1	200 %	C-1	%	C-1	%
C-2	%	C-2	%	C-2	%	C-2	%	C-2	%
C-3	%	C-3	%	C-3	%	C-3	%	C-3	%
1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%
N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%

Correlations: Top of ARAPIEN @ 4320' ', -
We are ' high/low to
Top of NORTH HORN FORMATION @ 3810' ', -
We are ' high/low to

Expecting Top of: TWIN CREEK FORMATION @ 8200'? ', -

Drilling Conditions:

@ 6929'	@ 6929'	Trip: Hrs	Deviation
HOB	WT 9.0	@	° @ '
WOB 62	vis 59	Reason:	° @ '
RPM 112	pH		° @ '
PP 2,800	CL	NB#:	° @ '
SPM 190	WL	Type:	° @ '

Driller's Log

Time	Operation
0500-0810	DRILL FROM 6845' - 6859'
0810-0930	MAKE CONNECTION / SURVEY
0930-0500	DRILL FROM 6859' - 6929'

Calibrations:

TOTAL GAS
Catalytic Combustion
1% Methane

units	105	100
volts	2.05	2.04
	before	after

CALIBRATIONS
Thermal Conduct
10% Methane

units	1798	1000
volts	1.74	1.74
	before	after

CHROMATOGRAPH

Div.	Sec.	%
C-1	13.5	1
C-2	32.25	1
C-3	59.25	1
C-4	103	1
NC-4	169	1

Filament Change: type METAL , GREEN ' METAL time.

Gas Trap:
Rig Air Motor
Transfer Time 3
Trap Cleaned (date)

Chromatograph Settings:
Carrier Air Pressure 5.08 psi,
Cycle Time 260 sec.

Logging Team: Team Leader: TOM SELMAN Team Lead Logger: JED JENKINS Team Logger: WALTER MOCKLER

Comments:

SELMAN AND ASSOCIATES, LTD.
GEOLOGICAL CONSULTING / SURFACE LOGGING SERVICES

Morning Report

Company: PIONEER NATURAL RESOURCES USA, INC. Date: 11/18/2010 Day: 64

Well Name: SOUTH HILLS FEDERAL 6-1 Prepared by: JED JENKINS

Current Operations: DRILLING AHEAD @ 7034' Unit Phone Number: 432/385-4428 - 432/288-2228

TD: 7034' Time: 0500 Drill Rate: Min/Ft 5.8 Ft/Hr

Current BGG: 13u Max Last 24 hrs: 39u Conn Gas: 39u Trip Gas: NA Survey/DT Gas: NA

Current Lag Time @ ' = 79 Minutes or 11825 Lag Strokes

Made 105 ' in the last 24 hours. Company Representative called: CALEB POLLOCK @ 0830 a.m./p.m.

Lithology (Last Sample) @: 7030			Last Previous Change @: 7020		
95	%	SANDSTONE	100	%	SANDSTONE
5	%	LIMESTONE		%	
	%			%	

Show/Drilling Breaks

Interval	ROP	Lithology	Gas	% Fluorescence	Cut	Porosity
-						
-						
-						
-						

Gas

Current BGG: 13u		Max Last 24 hrs: 39u		Conn Gas: 39u		Trip Gas: NA		Survey/DT Gas: NA	
C-1	13 %	C-1	39 %	C-1	39 %	C-1	%	C-1	%
C-2	%	C-2	%	C-2	%	C-2	%	C-2	%
C-3	%	C-3	%	C-3	%	C-3	%	C-3	%
1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%
N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%

Correlations: Top of ARAPIEN @ 4320' ', -
We are ' high/low to
Top of NORTH HORN FORMATION @ 3810' ', -
We are ' high/low to

Expecting Top of: TWIN CREEK FORMATION @ 8200'? ', -

Drilling Conditions:

@ 7034'	@ 7034'	Trip: Hrs	Deviation
HOB	WT 9.0	@	° @ '
WOB 60	vis 59	Reason:	° @ '
RPM 97	pH		° @ '
PP 1,780	CL	NB#:	° @ '
SPM 150	WL	Type:	° @ '

Driller's Log

Time	Operation
0500-1045	DRILL FROM 6929' - 6954'
1045-1225	MAKE CONNECTION / SURVEY
1225-2350	DRILL FROM 6954' - 7014' / DRILL THROUGH FAULT #2 (6983') @ 1905 HRS
2350-0220	DRILL FROM 7014' - 7022' - SERVICE PUMPS / DRILL W/ ROTATING PUMPS
0220-0500	DRILL FROM 7022' - 7034'

Calibrations:

TOTAL GAS
Catalytic Combustion
1% Methane

units	105	100
volts	2.05	2.04
	before	after

CALIBRATIONS
Thermal Conduct
10% Methane

units	1798	1000
volts	1.74	1.74
	before	after

CHROMATOGRAPH

Div.	Sec.	%
C-1	13.5	1
C-2	32.25	1
C-3	59.25	1
C-4	103	1
NC-4	169	1

Filament Change: type METAL , GREEN ' METAL time.

Gas Trap:
Rig Air Motor
Transfer Time 3
Trap Cleaned (date)

Chromatograph Settings:
Carrier Air Pressure 5.08 psi,
Cycle Time 260 sec.

Logging Team: Team Leader: TOM SELMAN Team Lead Logger: JED JENKINS Team Logger: WALTER MOCKLER

Comments:

SELMAN AND ASSOCIATES, LTD.
GEOLOGICAL CONSULTING / SURFACE LOGGING SERVICES

Morning Report

Company: PIONEER NATURAL RESOURCES USA, INC. Date: 11/19/2010 Day: 65

Well Name: SOUTH HILLS FEDERAL 6-1 Prepared by: JED JENKINS

Current Operations: DRILLING AHEAD @ 7104' Unit Phone Number: 432/385-4428 - 432/288-2228

TD: 7109' Time: 0500 Drill Rate: Min/Ft NA Ft/Hr

Current BGG: 13u Max Last 24 hrs: 36u Conn Gas: 22u Trip Gas: NA Survey/DT Gas: NA

Current Lag Time @ ' = 72 Minutes or 11951 Lag Strokes

Made 75 ' in the last 24 hours. Company Representative called: CALEB POLLOCK @ 0830 a.m./p.m.

Lithology (Last Sample) @: 7105			Last Previous Change @: 7100		
60	%	DOLOMITE	100	%	SANDSTONE
25	%	LIMESTONE		%	
15	%	SANDSTONE		%	

Show/Drilling Breaks

Interval	ROP	Lithology	Gas	% Fluorescence	Cut	Porosity
-						
-						
-						
-						

Gas

Current BGG: 13u		Max Last 24 hrs: 36u		Conn Gas: 22u		Trip Gas: NA		Survey/DT Gas: NA	
C-1	13 %	C-1	36 %	C-1	22 %	C-1	%	C-1	%
C-2	%	C-2	%	C-2	%	C-2	%	C-2	%
C-3	%	C-3	%	C-3	%	C-3	%	C-3	%
1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%
N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%

Correlations: Top of ARAPIEN @ 4320' ', -
We are ' high/low to
Top of NORTH HORN FORMATION @ 3810' ', -
We are ' high/low to

Expecting Top of: TWIN CREEK FORMATION @ 8200'? ', -

Drilling Conditions:

@ 7109'	@ 7109'	Trip: Hrs	Deviation
HOB	WT 9.1	@	° @ '
WOB 0	vis 55	Reason:	° @ '
RPM 93	pH		° @ '
PP 2070	CL	NB#:	° @ '
SPM 160	WL	Type:	° @ '

Driller's Log

Time	Operation
0500-0730	DRILL FROM 7034' - 7048'
0730-0910	MAKE CONNECTION / SURVEY
0910-0500	DRILL FROM 7048' - 7109' / DRILL AHEAD SWITCHING PUMPS ON HOLE

Calibrations:

TOTAL GAS
Catalytic Combustion
1% Methane

units	105	100
volts	2.05	2.04
	before	after

CALIBRATIONS
Thermal Conduct
10% Methane

units	1798	1000
volts	1.74	1.74
	before	after

CHROMATOGRAPH

Div.	Sec.	%
C-1	13.5	1
C-2	32.25	1
C-3	59.25	1
C-4	103	1
NC-4	169	1

Filament Change: type METAL , GREEN ' METAL time.

Gas Trap:
Rig Air Motor
Transfer Time 3
Trap Cleaned (date)

Chromatograph Settings:
Carrier Air Pressure 5.08 psi,
Cycle Time 260 sec.

Logging Team: Team Leader: TOM SELMAN Team Lead Logger: JED JENKINS Team Logger: WALTER MOCKLER

Comments:

SELMAN AND ASSOCIATES, LTD.
GEOLOGICAL CONSULTING / SURFACE LOGGING SERVICES

Morning Report

Company: PIONEER NATURAL RESOURCES USA, INC. Date: 11/20/2010 Day: 66

Well Name: SOUTH HILLS FEDERAL 6-1 Prepared by: JED JENKINS

Current Operations: DRILLING AHEAD @ 7119' Unit Phone Number: 432/385-4428 - 432/288-2228

TD: 7119' Time: 0500 Drill Rate: Min/Ft 2.0 Ft/Hr

Current BGG: 14u Max Last 24 hrs: 63u Conn Gas: NA Trip Gas: 63u Survey/DT Gas: NA

Current Lag Time @ ' = 74 Minutes or 11959 Lag Strokes

Made 10 ' in the last 24 hours. Company Representative called: CALEB POLLOCK @ 0830 a.m./p.m.

Lithology (Last Sample) @:	7110	Last Previous Change @:	7105
65 %	DOLOMITE	60 %	DOLOMITE
30 %	LIMESTONE	25 %	LIMESTONE
5 %	SANDSTONE	15 %	SANDSTONE

Show/Drilling Breaks

Interval	ROP	Lithology	Gas	% Fluorescence	Cut	Porosity
-						
-						
-						
-						

Gas

Current BGG: 14u	Max Last 24 hrs: 63u	Conn Gas: NA	Trip Gas: 63u	Survey/DT Gas: NA
C-1 14 %	C-1 63 %	C-1 %	C-1 63 %	C-1 %
C-2 %	C-2 %	C-2 %	C-2 %	C-2 %
C-3 %	C-3 %	C-3 %	C-3 %	C-3 %
1-C-4 %	1-C-4 %	1-C-4 %	1-C-4 %	1-C-4 %
N-C-4 %	N-C-4 %	N-C-4 %	N-C-4 %	N-C-4 %

Correlations: Top of TWIN CREEK FORMATION ? @ 7105' ', -
We are ' high/low to
Top of NAVAJO FORMATION @ 5960' ', -
We are ' high/low to

Expecting Top of: TWIN CREEK FORMATION @ 8200'? ', -

Drilling Conditions:

@ 7119'	@ 7119'	Trip: Hrs	Deviation
HOB	WT 9.2	@	° @ '
WOB 50	vis 61	Reason:	° @ '
RPM 56	pH		° @ '
PP 1920	CL	NB#:	° @ '
SPM 160	WL	Type:	° @ '

Driller's Log

Time	Operation
0500-0630	DRILL FROM 7109' - 7112'
0630-0805	CIRCULATE BOTTOMS UP SAMPLE
0805-0310	POOH/TIH W/ NEW BIT
0310-0500	DRILL FROM 7112' - 7119'

Calibrations:

TOTAL GAS
Catalytic Combustion
1% Methane

units	105	100
volts	2.05	2.04
	before	after

CALIBRATIONS
Thermal Conduct
10% Methane

units	1798	1000
volts	1.74	1.74
	before	after

CHROMATOGRAPH

Div.	Sec.	%
C-1	13.5	1
C-2	32.25	1
C-3	59.25	1
C-4	103	1
NC-4	169	1

Filament Change: type METAL , GREEN ' METAL time.

Gas Trap:
Rig Air Motor
Transfer Time 3
Trap Cleaned (date)

Chromatograph Settings:
Carrier Air Pressure 5.08 psi,
Cycle Time 260 sec.

Logging Team: Team Leader: TOM SELMAN Team Lead Logger: JED JENKINS Team Logger: WALTER MOCKLER

Comments:

SELMAN AND ASSOCIATES, LTD.
GEOLOGICAL CONSULTING / SURFACE LOGGING SERVICES

Morning Report

Company: PIONEER NATURAL RESOURCES USA, INC. Date: 11/21/2010 Day: 67

Well Name: SOUTH HILLS FEDERAL 6-1 Prepared by: JED JENKINS

Current Operations: DRILLING AHEAD @ 7,242' Unit Phone Number: 432/385-4428 - 432/288-2228

TD: 7242' Time: 0500 Drill Rate: Min/Ft 4.9 Ft/Hr

Current BGG: 16u Max Last 24 hrs: 18u Conn Gas: NA Trip Gas: NA Survey/DT Gas: NA

Current Lag Time @ ' = 76 Minutes or 12226 Lag Strokes

Made 123 ' in the last 24 hours. Company Representative called: CALEB POLLOCK @ 0830 a.m./p.m.

Lithology (Last Sample) @: 7230			Last Previous Change @: 7220		
70	%	DOLOMITE	65	%	DOLOMITE
30	%	LIMESTONE	35	%	LIMESTONE
	%			%	

Show/Drilling Breaks

Interval	ROP	Lithology	Gas	% Fluorescence	Cut	Porosity
-						
-						
-						
-						

Gas

Current BGG: 16u	Max Last 24 hrs: 18u	Conn Gas: NA	Trip Gas: NA	Survey/DT Gas: NA
C-1 16 %	C-1 18 %	C-1 %	C-1 %	C-1 %
C-2 %	C-2 %	C-2 %	C-2 %	C-2 %
C-3 %	C-3 %	C-3 %	C-3 %	C-3 %
1-C-4 %	1-C-4 %	1-C-4 %	1-C-4 %	1-C-4 %
N-C-4 %	N-C-4 %	N-C-4 %	N-C-4 %	N-C-4 %

Correlations: Top of TWIN CREEK FORMATION ? @ 7105' ', -
We are ' high/low to
Top of NAVAJO FORMATION @ 5960' ', -
We are ' high/low to

Expecting Top of: TWIN CREEK FORMATION @ 8200'? ', -

Drilling Conditions:

@ 7243'	@ 7243'	Trip: Hrs	Deviation
HOB	WT 9.0	@	° @ '
WOB 46	vis 61	Reason:	° @ '
RPM 144	pH		° @ '
PP 1920	CL	NB#:	° @ '
SPM 160	WL	Type:	° @ '

Driller's Log

Time	Operation
0500-0940	DRILL FROM 7119' - 7146'
0940-1105	MAKE CONNECTION / RUN WIRELINE SURVEY
1105-0445	DRILL FROM 7146' - 7241'
0445-0500	MAKING CONNECTION

Calibrations:

TOTAL GAS
Catalytic Combustion
1% Methane

units	105	100
volts	2.05	2.04
	before	after

CALIBRATIONS
Thermal Conduct
10% Methane

units	1798	1000
volts	1.74	1.74
	before	after

CHROMATOGRAPH

Div.	Sec.	%
C-1	13.5	1
C-2	32.25	1
C-3	59.25	1
C-4	103	1
NC-4	169	1

Filament Change: type METAL , GREEN ' METAL time.

Gas Trap:
Rig Air Motor
Transfer Time 3
Trap Cleaned (date)

Chromatograph Settings:
Carrier Air Pressure 5.08 psi,
Cycle Time 260 sec.

Logging Team: Team Leader: TOM SELMAN Team Lead Logger: JED JENKINS Team Logger: WALTER MOCKLER

Comments:

SELMAN AND ASSOCIATES, LTD.
GEOLOGICAL CONSULTING / SURFACE LOGGING SERVICES

Morning Report

Company: PIONEER NATURAL RESOURCES USA, INC. Date: 11/22/2010 Day: 68

Well Name: SOUTH HILLS FEDERAL 6-1 Prepared by: JED JENKINS

Current Operations: TD'D @ 7300' Unit Phone Number: 432/385-4428 - 432/288-2228

TD: 7300' Time: 0500 Drill Rate: _____ Min/Ft NA Ft/Hr

Current BGG: 14u Max Last 24 hrs: 19u Conn Gas: 18u Trip Gas: NA Survey/DT Gas: NA

Current Lag Time @ _____ ' = 76 Minutes or 12324 Lag Strokes

Made 58' ' in the last 24 hours. Company Representative called: CALEB POLLOCK @ 0830 a.m./p.m.

Lithology (Last Sample) @: 7300			Last Previous Change @: 7290		
90	%	DOLOMITE	85	%	DOLOMITE
10	%	LIMESTONE	15	%	LIMESTONE
	%			%	

Show/Drilling Breaks

Interval	ROP	Lithology	Gas	% Fluorescence	Cut	Porosity
-						
-						
-						
-						

Gas

Current BGG: 14u		Max Last 24 hrs: 19u		Conn Gas: 18u		Trip Gas: NA		Survey/DT Gas: NA	
C-1	14 %	C-1	19 %	C-1	18 %	C-1	%	C-1	%
C-2	%	C-2	%	C-2	%	C-2	%	C-2	%
C-3	%	C-3	%	C-3	%	C-3	%	C-3	%
1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%
N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%

Correlations: Top of TWIN CREEK FORMATION ? @ 7105' ' , -

We are _____ ' high/low to

Top of NAVAJO FORMATION @ 5960' ' , -

We are _____ ' high/low to

Expecting Top of: TWIN CREEK FORMATION @ 8200'? ' , - _____

Drilling Conditions:

@ 7300'	@ 7300'	Trip: Hrs	Deviation
HOB	WT 9.0	@	° @ '
WOB 46	vis 61	Reason:	° @ '
RPM 144	pH		° @ '
PP 1920	CL	NB#:	° @ '
SPM 160	WL	Type:	° @ '

Driller's Log

Time	Operation
0500-1710	DRILL FROM 7241' - 7300'
1710-1935	SHORT TRIP OUT / SHORT TRIP IN
1935-2150	CIRCULATE HOLE
2150-0500	POOH

Calibrations:

TOTAL GAS
Catalytic Combustion
1% Methane

units	105	100
volts	2.05	2.04
	before	after

CALIBRATIONS
Thermal Conduct
10% Methane

units	1798	1000
volts	1.74	1.74
	before	after

CHROMATOGRAPH

Div.	Sec.	%
C-1	13.5	1
C-2	32.25	1
C-3	59.25	1
C-4	103	1
NC-4	169	1

Filament Change: type METAL , GREEN ' METAL time.

Gas Trap:
Rig Air Motor _____
Transfer Time 3
Trap Cleaned (date) _____

Chromatograph Settings:
Carrier Air Pressure 5.08 psi,
Cycle Time 260 sec.

Logging Team: Team Leader: TOM SELMAN Team Lead Logger: JED JENKINS Team Logger: WALTER MOCKLER

Comments:

SELMAN AND ASSOCIATES, LTD.
GEOLOGICAL CONSULTING / SURFACE LOGGING SERVICES

Morning Report

Company: PIONEER NATURAL RESOURCES USA, INC. Date: 11/28/2010 Day: 74

Well Name: SOUTH HILLS FEDERAL 6-1 Prepared by: JED JENKINS

Current Operations: DRILLING AHEAD @ 7306' Unit Phone Number: 432/385-4428 - 432/288-2228

TD: 7306' Time: 0500 Drill Rate: Min/Ft 18.4 Ft/Hr

Current BGG: 18u Max Last 24 hrs: 20u Conn Gas: NA Trip Gas: NA Survey/DT Gas: NA

Current Lag Time @ ' = 68 Minutes or 12334 Lag Strokes

Made 6 ' in the last 24 hours. Company Representative called: CALEB POLLOCK @ 0830 a.m./p.m.

Lithology (Last Sample) @: 7300			Last Previous Change @: 7290		
90	%	DOLOMITE	85	%	DOLOMITE
10	%	LIMESTONE	15	%	LIMESTONE
	%			%	

Show/Drilling Breaks

Interval	ROP	Lithology	Gas	% Fluorescence	Cut	Porosity
-						
-						
-						
-						

Gas

Current BGG: 14u		Max Last 24 hrs: 19u		Conn Gas: 18u		Trip Gas: NA		Survey/DT Gas: NA	
C-1	14 %	C-1	19 %	C-1	18 %	C-1	%	C-1	%
C-2	%	C-2	%	C-2	%	C-2	%	C-2	%
C-3	%	C-3	%	C-3	%	C-3	%	C-3	%
1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%
N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%

Correlations: Top of TWIN CREEK FORMATION ? @ 7105' ', -
We are ' high/low to
Top of NAVAJO FORMATION @ 5960' ', -
We are ' high/low to

Expecting Top of: TWIN CREEK FORMATION @ 8200'? ', -

Drilling Conditions:

@ 7300'	@ 7300'	Trip: Hrs	Deviation
HOB	WT 9.0	@	° @ '
WOB 46	vis 61	Reason:	° @ '
RPM 144	pH		° @ '
PP 1920	CL	NB#:	° @ '
SPM 160	WL	Type:	° @ '

Driller's Log

Time 0500-0500	Operation TIH / TEST EVERY CONNECTION

Calibrations:

TOTAL GAS
Catalytic Combustion
1% Methane

units	105	100
volts	2.05	2.04
	before	after

CALIBRATIONS
Thermal Conduct
10% Methane

units	1798	1000
volts	1.74	1.74
	before	after

CHROMATOGRAPH

Div.	Sec.	%
C-1	13.5	1
C-2	32.25	1
C-3	59.25	1
C-4	103	1
NC-4	169	1

Filament Change: type METAL , GREEN ' METAL time.

Gas Trap:
Rig Air Motor
Transfer Time 3
Trap Cleaned (date)

Chromatograph Settings:
Carrier Air Pressure 5.08 psi,
Cycle Time 260 sec.

Logging Team: Team Leader: TOM SELMAN Team Lead Logger: JED JENKINS Team Logger: WALTER MOCKLER

Comments:

SELMAN AND ASSOCIATES, LTD.
GEOLOGICAL CONSULTING / SURFACE LOGGING SERVICES

Morning Report

Company: PIONEER NATURAL RESOURCES USA, INC. Date: 11/29/2010 Day: 75

Well Name: SOUTH HILLS FEDERAL 6-1 Prepared by: JED JENKINS

Current Operations: TOOH FOR TRUETRAK MOTOR Unit Phone Number: 432/385-4428 - 432/288-2228

TD: 7554' Time: 0500 Drill Rate: Min/Ft NA Ft/Hr

Current BGG: 12u Max Last 24 hrs: 20u Conn Gas: NA Trip Gas: NA Survey/DT Gas: NA

Current Lag Time @ ' = 71 Minutes or 12758 Lag Strokes

Made 248 ' in the last 24 hours. Company Representative called: CALEB POLLOCK @ 0830 a.m./p.m.

Lithology (Last Sample) @: 7540			Last Previous Change @: 7520		
75	%	DOLOMITE	75	%	DOLOMITE
5	%	LIMESTONE	5	%	LIMESTONE
20	%	SHALE	20	%	SHALE

Show/Drilling Breaks

Interval	ROP	Lithology	Gas	% Fluorescence	Cut	Porosity
-						
-						
-						
-						

Gas

Current BGG: 12u		Max Last 24 hrs: 20u		Conn Gas: NA		Trip Gas: NA		Survey/DT Gas: NA	
C-1	12 %	C-1	20 %	C-1	%	C-1	%	C-1	%
C-2	%	C-2	%	C-2	%	C-2	%	C-2	%
C-3	%	C-3	%	C-3	%	C-3	%	C-3	%
1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%
N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%

Correlations: Top of TWIN CREEK FORMATION ? @ 7105' ', -
We are ' high/low to
Top of NAVAJO FORMATION @ 5960' ', -
We are ' high/low to

Expecting Top of: TWIN CREEK FORMATION @ 8200'? ', -

Drilling Conditions:

@ 7554'	@ 7554'	Trip: Hrs	Deviation
HOB	WT 9.0	@	° @ '
WOB NA	vis 57	Reason:	° @ '
RPM NA	pH		° @ '
PP NA	CL	NB#:	° @ '
SPM NA	WL	Type:	° @ '

Driller's Log

Time	Operation
0500-0735	DRILL FROM 7307' - 7347'
0735-0820	RUN SURVEY = 2 DEG
0820-1240	DRILL FROM 7347' - 7442'
1240-0000	DRILL FROM 7442' - 7554' RUN SURVEY @ 7442' - 7463' - 7518'
0000-0500	POOH FOR NEW MOTOR

Calibrations:

TOTAL GAS
Catalytic Combustion
1% Methane

units	105	100
volts	2.05	2.04
	before	after

CALIBRATIONS
Thermal Conduct
10% Methane

units	1798	1000
volts	1.74	1.74
	before	after

CHROMATOGRAPH

Div.	Sec.	%
C-1	13.5	1
C-2	32.25	1
C-3	59.25	1
C-4	103	1
NC-4	169	1

Filament Change: type METAL , GREEN ' METAL time.

Gas Trap:
Rig Air Motor
Transfer Time 3
Trap Cleaned (date)

Chromatograph Settings:
Carrier Air Pressure 5.08 psi,
Cycle Time 260 sec.

Logging Team: Team Leader: TOM SELMAN Team Lead Logger: JED JENKINS Team Logger: WALTER MOCKLER

Comments:

SELMAN AND ASSOCIATES, LTD.
GEOLOGICAL CONSULTING / SURFACE LOGGING SERVICES

Morning Report

Company: PIONEER NATURAL RESOURCES USA, INC. Date: 11/30/2010 Day: 76

Well Name: SOUTH HILLS FEDERAL 6-1 Prepared by: JED JENKINS

Current Operations: TIH WITH NEW BHA Unit Phone Number: 432/385-4428 - 432/288-2228

TD: 7554' Time: 0500 Drill Rate: Min/Ft NA Ft/Hr

Current BGG: 11u Max Last 24 hrs: 12u Conn Gas: NA Trip Gas: NA Survey/DT Gas: NA

Current Lag Time @ ' = 71 Minutes or 12758 Lag Strokes

Made 0 ' in the last 24 hours. Company Representative called: CALEB POLLOCK @ 0830 a.m./p.m.

Lithology (Last Sample) @: 7540			Last Previous Change @: 7520		
75	%	DOLOMITE	75	%	DOLOMITE
5	%	LIMESTONE	5	%	LIMESTONE
20	%	SHALE	20	%	SHALE

Show/Drilling Breaks

Interval	ROP	Lithology	Gas	% Fluorescence	Cut	Porosity
-						
-						
-						
-						

Gas

Current BGG: 11u	Max Last 24 hrs: 12u	Conn Gas: NA	Trip Gas: NA	Survey/DT Gas: NA
C-1 11 %	C-1 12 %	C-1 %	C-1 %	C-1 %
C-2 %	C-2 %	C-2 %	C-2 %	C-2 %
C-3 %	C-3 %	C-3 %	C-3 %	C-3 %
1-C-4 %	1-C-4 %	1-C-4 %	1-C-4 %	1-C-4 %
N-C-4 %	N-C-4 %	N-C-4 %	N-C-4 %	N-C-4 %

Correlations: Top of TWIN CREEK FORMATION ? @ 7105' ', -
We are ' high/low to
Top of NAVAJO FORMATION @ 5960' ', -
We are ' high/low to

Expecting Top of: TWIN CREEK FORMATION @ 8200'? ', -

Drilling Conditions:

@ 7554'	@ 7554'	Trip: Hrs	Deviation
HOB	WT 9.0	@	° @ '
WOB NA	vis 57	Reason:	° @ '
RPM NA	pH		° @ '
PP NA	CL	NB#:	° @ '
SPM NA	WL	Type:	° @ '

Driller's Log

Time 0500-0500	Operation TOOH / TIH

Calibrations:

TOTAL GAS
Catalytic Combustion
1% Methane

units	105	100
volts	2.05	2.04
	before	after

CALIBRATIONS
Thermal Conduct
10% Methane

units	1798	1000
volts	1.74	1.74
	before	after

CHROMATOGRAPH

Div.	Sec.	%
C-1	13.5	1
C-2	32.25	1
C-3	59.25	1
C-4	103	1
NC-4	169	1

Filament Change: type METAL , GREEN ' METAL time.

Gas Trap:
Rig Air Motor
Transfer Time 3
Trap Cleaned (date)

Chromatograph Settings:
Carrier Air Pressure 5.08 psi,
Cycle Time 260 sec.

Logging Team: Team Leader: TOM SELMAN Team Lead Logger: JED JENKINS Team Logger: WALTER MOCKLER

Comments:

SELMAN AND ASSOCIATES, LTD.
GEOLOGICAL CONSULTING / SURFACE LOGGING SERVICES

Morning Report

Company: PIONEER NATURAL RESOURCES USA, INC. Date: 12/1/2010 Day: 77

Well Name: SOUTH HILLS FEDERAL 6-1 Prepared by: JED JENKINS

Current Operations: DRILLING AHEAD @ 7715' Unit Phone Number: 432/385-4428 - 432/288-2228

TD: 7715' Time: 0500 Drill Rate: Min/Ft 44 Ft/Hr

Current BGG: 27u Max Last 24 hrs: 34u Conn Gas: NA Trip Gas: 34u Survey/DT Gas: NA

Current Lag Time @ ' = 71 Minutes or 13031 Lag Strokes

Made 161' ' in the last 24 hours. Company Representative called: CALEB POLLOCK @ 0830 a.m./p.m.

Lithology (Last Sample) @: 7660			Last Previous Change @: 7640		
75	%	DOLOMITE	80	%	DOLOMITE
25	%	LIMESTONE	20	%	LIMESTONE
	%			%	

Show/Drilling Breaks

Interval	ROP	Lithology	Gas	% Fluorescence	Cut	Porosity
-						
-						
-						
-						

Gas

Current BGG: 27u		Max Last 24 hrs: 34u		Conn Gas: NA		Trip Gas: 34u		Survey/DT Gas: NA	
C-1	27 %	C-1	34 %	C-1	%	C-1	34 %	C-1	%
C-2	%	C-2	%	C-2	%	C-2	%	C-2	%
C-3	%	C-3	%	C-3	%	C-3	%	C-3	%
1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%
N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%

Correlations: Top of TWIN CREEK FORMATION ? @ 7105' ' , -
We are ' high/low to
Top of NAVAJO FORMATION @ 5960' ' , -
We are ' high/low to

Expecting Top of: TWIN CREEK FORMATION @ 8200'? ' , -

Drilling Conditions:

@ 7715'	@ 7715'	Trip: Hrs	Deviation
HOB	WT 9.0	@	° @ '
WOB NA	vis 57	Reason:	° @ '
RPM NA	pH		° @ '
PP NA	CL	NB#:	° @ '
SPM NA	WL	Type:	° @ '

Driller's Log

Time	Operation
0500-1730	TIH W/ NEW BHA
1730-0500	DRILL FROM 7554' - 7715'

Calibrations:

TOTAL GAS
Catalytic Combustion
1% Methane

units	105	100
volts	2.05	2.04
	before	after

CALIBRATIONS
Thermal Conduct
10% Methane

units	1798	1000
volts	1.74	1.74
	before	after

CHROMATOGRAPH

Div.	Sec.	%
C-1	13.5	1
C-2	32.25	1
C-3	59.25	1
C-4	103	1
NC-4	169	1

Filament Change: type METAL , GREEN ' METAL time.

Gas Trap:
Rig Air Motor
Transfer Time 3
Trap Cleaned (date)

Chromatograph Settings:
Carrier Air Pressure 5.08 psi,
Cycle Time 260 sec.

Logging Team: Team Leader: TOM SELMAN Team Lead Logger: JED JENKINS Team Logger: WALTER MOCKLER

Comments:

SELMAN AND ASSOCIATES, LTD.
GEOLOGICAL CONSULTING / SURFACE LOGGING SERVICES

Morning Report

Company: PIONEER NATURAL RESOURCES USA, INC. Date: 12/2/2010 Day: 78

Well Name: SOUTH HILLS FEDERAL 6-1 Prepared by: JED JENKINS

Current Operations: TOOH FOR NEW MOTOR Unit Phone Number: 432/385-4428 - 432/288-2228

TD: 7982' Time: 0500 Drill Rate: Min/Ft NA Ft/Hr

Current BGG: 12u Max Last 24 hrs: 39u Conn Gas: 39u Trip Gas: NA Survey/DT Gas: NA

Current Lag Time @ ' = 75 Minutes or 13553 Lag Strokes

Made 267 ' in the last 24 hours. Company Representative called: CALEB POLLOCK @ 0830 a.m./p.m.

Lithology (Last Sample) @: 7960			Last Previous Change @: 7920		
90	%	DOLOMITE	90	%	DOLOMITE
5	%	LIMESTONE	5	%	LIMESTONE
5	%	SHALE	5	%	SHALE

Show/Drilling Breaks

Interval	ROP	Lithology	Gas	% Fluorescence	Cut	Porosity
-						
-						
-						
-						

Gas

Current BGG: 12u		Max Last 24 hrs: 39u		Conn Gas: 39u		Trip Gas: NA		Survey/DT Gas: NA	
C-1	12 %	C-1	39 %	C-1	39 %	C-1	NA %	C-1	%
C-2	%	C-2	%	C-2	%	C-2	%	C-2	%
C-3	%	C-3	%	C-3	%	C-3	%	C-3	%
1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%
N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%

Correlations: Top of TWIN CREEK FORMATION ? @ 7105' ', -
We are ' high/low to
Top of NAVAJO FORMATION @ 5960' ', -
We are ' high/low to

Expecting Top of: TWIN CREEK FORMATION @ 8200'? ', -

Drilling Conditions:

@ 7982'	@ 7982'	Trip: Hrs	Deviation
HOB	WT 9.0	@	° @ '
WOB NA	vis 57	Reason:	° @ '
RPM NA	pH		° @ '
PP NA	CL	NB#:	° @ '
SPM NA	WL	Type:	° @ '

Driller's Log

Time	Operation
0500-1720	DRILL FROM 7715' - 7982'
1720-1830	RUN WIRELINE LOG
1830-0500	TOOH FOR NEW MOTOR

Calibrations:

TOTAL GAS
Catalytic Combustion
1% Methane

units	105	100
volts	2.05	2.04
	before	after

CALIBRATIONS
Thermal Conduct
10% Methane

units	1798	1000
volts	1.74	1.74
	before	after

CHROMATOGRAPH

Div.	Sec.	%
C-1	13.5	1
C-2	32.25	1
C-3	59.25	1
C-4	103	1
NC-4	169	1

Filament Change: type METAL , GREEN ' METAL time.

Gas Trap:
Rig Air Motor
Transfer Time 3
Trap Cleaned (date)

Chromatograph Settings:
Carrier Air Pressure 5.08 psi,
Cycle Time 260 sec.

Logging Team: Team Leader: TOM SELMAN Team Lead Logger: JED JENKINS Team Logger: WALTER MOCKLER

Comments:

SELMAN AND ASSOCIATES, LTD.
GEOLOGICAL CONSULTING / SURFACE LOGGING SERVICES

Morning Report

Company: PIONEER NATURAL RESOURCES USA, INC. Date: 12/3/2010 Day: 79

Well Name: SOUTH HILLS FEDERAL 6-1 Prepared by: JED JENKINS

Current Operations: DRILLING AHEAD WITHOUT EDR Unit Phone Number: 432/385-4428 - 432/288-2228

TD: 8130' + Time: 0500 Drill Rate: Min/Ft NA Ft/Hr

Current BGG: 28u Max Last 24 hrs: 108u Conn Gas: NA Trip Gas: 108u Survey/DT Gas: NA

Current Lag Time @ ' = 75 Minutes or 13486 Lag Strokes

Made 148+ ' in the last 24 hours. Company Representative called: CALEB POLLOCK @ 0830 a.m./p.m.

Lithology (Last Sample) @:	????	Last Previous Change @:	8080
60 %	DOLOMITE	85 %	DOLOMITE
20 %	LIMESTONE	10 %	LIMESTONE
20 %	SHALE	5 %	SHALE

Show/Drilling Breaks

Interval	ROP	Lithology	Gas	% Fluorescence	Cut	Porosity
-						
-						
-						
-						

Gas

Current BGG: 28u	Max Last 24 hrs: 108u	Conn Gas: NA	Trip Gas: 108u	Survey/DT Gas: NA
C-1 28 %	C-1 108 %	C-1 %	C-1 108 %	C-1 %
C-2 %	C-2 %	C-2 %	C-2 %	C-2 %
C-3 %	C-3 %	C-3 %	C-3 %	C-3 %
1-C-4 %	1-C-4 %	1-C-4 %	1-C-4 %	1-C-4 %
N-C-4 %	N-C-4 %	N-C-4 %	N-C-4 %	N-C-4 %

Correlations: Top of TWIN CREEK FORMATION ? @ 7105' ', -
We are ' high/low to
Top of NAVAJO FORMATION @ 5960' ', -
We are ' high/low to

Expecting Top of: TWIN CREEK FORMATION @ 8200'? ', -

Drilling Conditions:

@ 8130' +	@ 8130' +	Trip: Hrs	Deviation
HOB	WT 9.1	@	° @ '
WOB NA	vis 51	Reason:	° @ '
RPM NA	pH		° @ '
PP NA	CL	NB#:	° @ '
SPM NA	WL	Type:	° @ '

Driller's Log

Time	Operation
0500-1450	TIH W/ NEW TRUTRAK MOTOR
1450-2110	DRILL FROM 7982' - 8081'
2110-2150	MAKE CONNECTION / TRANSFER MUD
2150-0125	DRILL FROM 8081' - 8130'
0125-0500	DRILL BEYOND 8081' WITHOUT EDR

Calibrations:

TOTAL GAS
Catalytic Combustion
1% Methane

units	105	100
volts	2.05	2.04
	before	after

CALIBRATIONS
Thermal Conduct
10% Methane

units	1798	1000
volts	1.74	1.74
	before	after

CHROMATOGRAPH

Div.	Sec.	%
C-1	13.5	1
C-2	32.25	1
C-3	59.25	1
C-4	103	1
NC-4	169	1

Filament Change: type METAL , GREEN ' METAL time.

Gas Trap:
Rig Air Motor
Transfer Time 3
Trap Cleaned (date)

Chromatograph Settings:
Carrier Air Pressure 5.08 psi,
Cycle Time 260 sec.

Logging Team: Team Leader: TOM SELMAN Team Lead Logger: JED JENKINS Team Logger: WALTER MOCKLER

Comments:

SELMAN AND ASSOCIATES, LTD.
GEOLOGICAL CONSULTING / SURFACE LOGGING SERVICES

Morning Report

Company: PIONEER NATURAL RESOURCES USA, INC. Date: 12/4/2010 Day: 80

Well Name: SOUTH HILLS FEDERAL 6-1 Prepared by: JED JENKINS

Current Operations: OFF BOTTOM CIRCULATING @ 8254' Unit Phone Number: 432/385-4428 - 432/288-2228

TD: 8257' Time: 0500 Drill Rate: Min/Ft NA Ft/Hr

Current BGG: 22u Max Last 24 hrs: 67u Conn Gas: 39u Trip Gas: NA Survey/DT Gas: NA

Current Lag Time @ ' = 88 Minutes or 14000 Lag Strokes

Made 127 ' in the last 24 hours. Company Representative called: CALEB POLLOCK @ 0830 a.m./p.m.

Lithology (Last Sample) @: 8255			Last Previous Change @: 8250		
60	%	SHALE	80	%	SHALE
40	%	DOLOMITE	10	%	DOLOMITE
	%		5	%	SANDSTONE

Show/Drilling Breaks

Interval	ROP	Lithology	Gas	% Fluorescence	Cut	Porosity
-						
-						
-						
-						

Gas

Current BGG: 22u		Max Last 24 hrs: 68u		Conn Gas: 39u		Trip Gas: NA		Survey/DT Gas: NA	
C-1	22 %	C-1	68 %	C-1	39 %	C-1	%	C-1	%
C-2	%	C-2	%	C-2	%	C-2	%	C-2	%
C-3	%	C-3	%	C-3	%	C-3	%	C-3	%
1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%
N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%

Correlations: Top of TWIN CREEK FORMATION ? @ 7105' ', -
We are ' high/low to
Top of NAVAJO FORMATION @ 5960' ', -
We are ' high/low to

Expecting Top of: TWIN CREEK FORMATION @ 8200'? ', -

Drilling Conditions:

@ 8257'	@ 8257'	Trip: Hrs	Deviation
HOB	WT 9.1	@	° @ '
WOB NA	vis 51	Reason:	° @ '
RPM NA	pH		° @ '
PP NA	CL	NB#:	° @ '
SPM NA	WL	Type:	° @ '

Driller's Log

Time	Operation
0500-1650	DRILL FROM ~ 8130' - 8226'
1650-1955	LEVEL RIG WITH JACK
1955-0500	DRILL FROM 8226' - 8257'

Calibrations:

TOTAL GAS
Catalytic Combustion
1% Methane

units	105	100
volts	2.05	2.04
	before	after

CALIBRATIONS
Thermal Conduct
10% Methane

units	1798	1000
volts	1.74	1.74
	before	after

CHROMATOGRAPH

Div.	Sec.	%
C-1	13.5	1
C-2	32.25	1
C-3	59.25	1
C-4	103	1
NC-4	169	1

Filament Change: type METAL , GREEN ' METAL time.

Gas Trap:
Rig Air Motor
Transfer Time 3
Trap Cleaned (date)

Chromatograph Settings:
Carrier Air Pressure 5.08 psi,
Cycle Time 260 sec.

Logging Team: Team Leader: TOM SELMAN Team Lead Logger: JED JENKINS Team Logger: WALTER MOCKLER

Comments:

SELMAN AND ASSOCIATES, LTD.
GEOLOGICAL CONSULTING / SURFACE LOGGING SERVICES

Morning Report

Company: PIONEER NATURAL RESOURCES USA, INC. Date: 12/9/2010 Day: 85

Well Name: SOUTH HILLS FEDERAL 6-1 Prepared by: JED JENKINS

Current Operations: DRILLING AHEAD @ 8321' Unit Phone Number: 432/385-4428 - 432/288-2228

TD: 8321' Time: 0500 Drill Rate: Min/Ft 1.9 Ft/Hr

Current BGG: 23u Max Last 24 hrs: 92u Conn Gas: 63u Trip Gas: 59u Survey/DT Gas: NA

Current Lag Time @ ' = 47 Minutes or 7000 Lag Strokes

Made 64 ' in the last 24 hours. Company Representative called: CALEB POLLOCK @ 0830 a.m./p.m.

Lithology (Last Sample) @: 8310			Last Previous Change @: 8300		
80	%	DOLOMITE	70	%	DOLOMITE
10	%	SHALE	15	%	SHALE
5	%	SANDSTONE	5	%	SANDSTONE

Show/Drilling Breaks

Interval	ROP	Lithology	Gas	% Fluorescence	Cut	Porosity
-						
-						
-						
-						

Gas

Current BGG: 19u		Max Last 24 hrs: 92u		Conn Gas: 63u		Trip Gas: 59u		Survey/DT Gas: NA	
C-1	19 %	C-1	92 %	C-1	63 %	C-1	59 %	C-1	%
C-2	%	C-2	%	C-2	%	C-2	%	C-2	%
C-3	%	C-3	%	C-3	%	C-3	%	C-3	%
1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%
N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%

Correlations: Top of TWIN CREEK FORMATION ? @ 7105' ' , -
We are ' high/low to
Top of NAVAJO FORMATION @ 5960' ' , -
We are ' high/low to

Expecting Top of: NAVAJO FORMATION @ 8500'? ' , -

Drilling Conditions:

@ 8321'	@ 8321'	Trip: Hrs	Deviation
HOB	WT 9.0	@	° @ '
WOB 17.6	vis 48	Reason:	° @ '
RPM 63	pH		° @ '
PP 2,930	CL	NB#:	° @ '
SPM 155	WL	Type:	° @ '

Driller's Log

Time	Operation
0500-0825	TIH W/ NEW 8.5" BIT / DRILL OUT SHOE
0825-0915	DRILL FROM 8257' - 8267'
0915-1135	CIRC/CLEAN HOLE - TEST FORMATION PRESSURE
1135-1350	DRILL FROM 8267' - 8286'
1350-0500	MAKE CONNECTION / RESTART BIT - DRILL FROM 8286' - 8321'

Calibrations:

TOTAL GAS
Catalytic Combustion
1% Methane

units	105	100
volts	2.05	2.04
	before	after

CALIBRATIONS
Thermal Conduct
10% Methane

units	1798	1000
volts	1.74	1.74
	before	after

CHROMATOGRAPH

Div.	Sec.	%
C-1	13.5	1
C-2	32.25	1
C-3	59.25	1
C-4	103	1
NC-4	169	1

Filament Change: type METAL , GREEN ' METAL time.

Gas Trap:
Rig Air Motor
Transfer Time 3
Trap Cleaned (date)

Chromatograph Settings:
Carrier Air Pressure 5.08 psi,
Cycle Time 260 sec.

Logging Team: Team Leader: TOM SELMAN Team Lead Logger: JED JENKINS Team Logger: WALTER MOCKLER

Comments:

SELMAN AND ASSOCIATES, LTD.
GEOLOGICAL CONSULTING / SURFACE LOGGING SERVICES

Morning Report

Company: PIONEER NATURAL RESOURCES USA, INC. Date: 12/10/2010 Day: 86

Well Name: SOUTH HILLS FEDERAL 6-1 Prepared by: JED JENKINS

Current Operations: TIH W/ NEW BIT Unit Phone Number: 432/385-4428 - 432/288-2228

TD: 8338' Time: 0500 Drill Rate: Min/Ft NA Ft/Hr

Current BGG: 5u Max Last 24 hrs: 48u Conn Gas: NA Trip Gas: NA Survey/DT Gas: NA

Current Lag Time @ ' = 47 Minutes or 7000 Lag Strokes

Made 17 ' in the last 24 hours. Company Representative called: CALEB POLLOCK @ 0830 a.m./p.m.

Lithology (Last Sample) @: 8338			Last Previous Change @: 8330		
60	%	DOLOMITE	80	%	DOLOMITE
20	%	ANHYDRITE/GYPSUM	10	%	SHALE
10	%	SHALE	10	%	LIMESTONE

Show/Drilling Breaks

Interval	ROP	Lithology	Gas	% Fluorescence	Cut	Porosity
-						
-						
-						
-						

Gas

Current BGG: 5u		Max Last 24 hrs: 48u		Conn Gas: NA		Trip Gas: NA		Survey/DT Gas: NA	
C-1	5 %	C-1	48 %	C-1	%	C-1	%	C-1	%
C-2	%	C-2	%	C-2	%	C-2	%	C-2	%
C-3	%	C-3	%	C-3	%	C-3	%	C-3	%
1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%
N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%

Correlations: Top of TWIN CREEK FORMATION ? @ 7105' ' , -
We are ' high/low to
Top of NAVAJO FORMATION @ 5960' ' , -
We are ' high/low to

Expecting Top of: NAVAJO FORMATION @ 8500'? ' , -

Drilling Conditions:

@ 8338'	@ 8338'	Trip: Hrs	Deviation
HOB	WT 8.9	@	° @ '
WOB NA	vis 52	Reason:	° @ '
RPM NA	pH		° @ '
PP NA	CL	NB#:	° @ '
SPM NA	WL	Type:	° @ '

Driller's Log

Time	Operation
0500-1410	DRILL FROM 8321' - 8338' W/ RESTART BIT OFTEN
1410-1515	CIRC BTTMS UP
1515-2215	TOOH
2215-0500	TIH W/ NEW REED INSERT BIT

Calibrations:

TOTAL GAS
Catalytic Combustion
1% Methane

units	105	100
volts	2.05	2.04
	before	after

CALIBRATIONS
Thermal Conduct
10% Methane

units	1798	1000
volts	1.74	1.74
	before	after

CHROMATOGRAPH

Div.	Sec.	%
C-1	13.5	1
C-2	32.25	1
C-3	59.25	1
C-4	103	1
NC-4	169	1

Filament Change: type METAL , GREEN ' METAL time.

Gas Trap:
Rig Air Motor
Transfer Time 3
Trap Cleaned (date)

Chromatograph Settings:
Carrier Air Pressure 5.08 psi,
Cycle Time 260 sec.

Logging Team: Team Leader: TOM SELMAN Team Lead Logger: JED JENKINS Team Logger: WALTER MOCKLER

Comments:

SELMAN AND ASSOCIATES, LTD.
GEOLOGICAL CONSULTING / SURFACE LOGGING SERVICES

Morning Report

Company: PIONEER NATURAL RESOURCES USA, INC. Date: 12/11/2010 Day: 87

Well Name: SOUTH HILLS FEDERAL 6-1 Prepared by: JED JENKINS

Current Operations: DRILLING AHEAD @ 8,393' Unit Phone Number: 432/385-4428 - 432/288-2228

TD: 8393' Time: 0500 Drill Rate: _____ Min/Ft NA Ft/Hr

Current BGG: 8u Max Last 24 hrs: 18u Conn Gas: NA Trip Gas: 16u Survey/DT Gas: NA

Current Lag Time @ _____ ' = 47 Minutes or 7000 Lag Strokes

Made 55 ' in the last 24 hours. Company Representative called: CALEB POLLOCK @ 0830 a.m./p.m.

Lithology (Last Sample) @:	8390	Last Previous Change @:	8380
35 %	ANHYDRITE/GYPSUM	65 %	SANDSTONE
25 %	DOLOMITE	25 %	DOLOMITE
25 %	SANDSTONE	5 %	SHALE

Show/Drilling Breaks

Interval	ROP	Lithology	Gas	% Fluorescence	Cut	Porosity
-						
-						
-						
-						

Gas

Current BGG: 8u		Max Last 24 hrs: 18u		Conn Gas: NA		Trip Gas: 16u		Survey/DT Gas: NA	
C-1	8 %	C-1	18 %	C-1	%	C-1	16 %	C-1	%
C-2	%	C-2	%	C-2	%	C-2	%	C-2	%
C-3	%	C-3	%	C-3	%	C-3	%	C-3	%
1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%
N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%

Correlations: Top of TWIN CREEK FORMATION ? @ 7105' ' , -
We are _____ ' high/low to
Top of NAVAJO FORMATION @ 5960' ' , -
We are _____ ' high/low to

Expecting Top of: NAVAJO FORMATION @ 8500'? ' , - _____

Drilling Conditions:

@ 8338'	@ 8338'	Trip: Hrs	Deviation
HOB	WT 8.9	@ _____	° @ '
WOB NA	vis 52	Reason: _____	° @ '
RPM NA	pH	_____	° @ '
PP NA	CL	NB#: _____	° @ '
SPM NA	WL	Type:	° @ '

Driller's Log

Time	Operation
0500-0855	TIH W/ NEW BUTTON BIT
0855-2205	DRILL FROM 8338' - 8383'
2205-2250	OFF BOTTOM - RESTART BIT
2250-0500	DRILL FROM 8383' - 8393'

Calibrations:

TOTAL GAS
Catalytic Combustion
1% Methane

units	105	100
volts	2.05	2.04
	before	after

CALIBRATIONS
Thermal Conduct
10% Methane

units	1798	1000
volts	1.74	1.74
	before	after

CHROMATOGRAPH

Div.	Sec.	%
C-1	13.5	1
C-2	32.25	1
C-3	59.25	1
C-4	103	1
NC-4	169	1

Filament Change: type METAL , GREEN ' METAL time.

Gas Trap:
Rig Air Motor _____
Transfer Time 3
Trap Cleaned (date) _____

Chromatograph Settings:
Carrier Air Pressure 5.08 psi,
Cycle Time 260 sec.

Logging Team: Team Leader: TOM SELMAN Team Lead Logger: JED JENKINS Team Logger: WALTER MOCKLER

Comments:

SELMAN AND ASSOCIATES, LTD.
GEOLOGICAL CONSULTING / SURFACE LOGGING SERVICES

Morning Report

Company: PIONEER NATURAL RESOURCES USA, INC. Date: 12/12/2010 Day: 88

Well Name: SOUTH HILLS FEDERAL 6-1 Prepared by: JED JENKINS

Current Operations: WASHING AND REAMING BACK TO BOTTOM Unit Phone Number: 432/385-4428 - 432/288-2228

TD: 8395' Time: 0500 Drill Rate: Min/Ft NA Ft/Hr

Current BGG: 14u Max Last 24 hrs: 16u Conn Gas: NA Trip Gas: NA Survey/DT Gas: NA

Current Lag Time @ ' = 47 Minutes or 7000 Lag Strokes

Made 2 ' in the last 24 hours. Company Representative called: CALEB POLLOCK @ 0830 a.m./p.m.

Lithology (Last Sample) @:	8395	Last Previous Change @:	8390
45 %	DOLOMITE	35 %	ANHYDRITE/GYPSUM
20 %	SANDSTONE	25 %	DOLOMITE
20 %	ANHYDRITE/GYPSUM	25 %	SANDSTONE

Show/Drilling Breaks

Interval	ROP	Lithology	Gas	% Fluorescence	Cut	Porosity
-						
-						
-						
-						

Gas

Current BGG: 14u	Max Last 24 hrs: 16u	Conn Gas: NA	Trip Gas: NA	Survey/DT Gas: NA
C-1 14 %	C-1 16 %	C-1 %	C-1 %	C-1 %
C-2 %	C-2 %	C-2 %	C-2 %	C-2 %
C-3 %	C-3 %	C-3 %	C-3 %	C-3 %
1-C-4 %	1-C-4 %	1-C-4 %	1-C-4 %	1-C-4 %
N-C-4 %	N-C-4 %	N-C-4 %	N-C-4 %	N-C-4 %

Correlations: Top of TWIN CREEK FORMATION ? @ 7105' ', -
We are ' high/low to
Top of NAVAJO FORMATION @ 5960' ', -
We are ' high/low to

Expecting Top of: NAVAJO FORMATION @ 8500'? ', -

Drilling Conditions:

@ 8338'	@ 8338'	Trip: Hrs	Deviation
HOB	WT 8.9	@	° @ '
WOB NA	vis 52	Reason:	° @ '
RPM NA	pH		° @ '
PP NA	CL	NB#:	° @ '
SPM NA	WL	Type:	° @ '

Driller's Log

Time	Operation
0500-0620	DRILL FROM 8393' - 8395'
0855-2020	TOOH / TIH W/ NEW BIT TO 8290'
2020-0500	WASH AND REAM TO BOTTOM

Calibrations:

TOTAL GAS
Catalytic Combustion
1% Methane

units	105	100
volts	2.05	2.04
	before	after

CALIBRATIONS
Thermal Conduct
10% Methane

units	1798	1000
volts	1.74	1.74
	before	after

CHROMATOGRAPH

Div.	Sec.	%
C-1	13.5	1
C-2	32.25	1
C-3	59.25	1
C-4	103	1
NC-4	169	1

Filament Change: type METAL , GREEN ' METAL time.

Gas Trap:
Rig Air Motor
Transfer Time 3
Trap Cleaned (date)

Chromatograph Settings:
Carrier Air Pressure 5.08 psi,
Cycle Time 260 sec.

Logging Team: Team Leader: TOM SELMAN Team Lead Logger: JED JENKINS Team Logger: WALTER MOCKLER

Comments:

SELMAN AND ASSOCIATES, LTD.
GEOLOGICAL CONSULTING / SURFACE LOGGING SERVICES

Morning Report

Company: PIONEER NATURAL RESOURCES USA, INC. Date: 12/13/2010 Day: 89

Well Name: SOUTH HILLS FEDERAL 6-1 Prepared by: JED JENKINS

Current Operations: TIH W/ NEW BHA Unit Phone Number: 432/385-4428 - 432/288-2228

TD: 8396' Time: 0500 Drill Rate: Min/Ft NA Ft/Hr

Current BGG: 12u Max Last 24 hrs: 14u Conn Gas: NA Trip Gas: NA Survey/DT Gas: NA

Current Lag Time @ ' = 47 Minutes or 7000 Lag Strokes

Made 1 ' in the last 24 hours. Company Representative called: CALEB POLLOCK @ 0830 a.m./p.m.

Lithology (Last Sample) @:	8395	Last Previous Change @:	8390
45 %	DOLOMITE	35 %	ANHYDRITE/GYPSUM
20 %	SANDSTONE	25 %	DOLOMITE
20 %	ANHYDRITE/GYPSUM	25 %	SANDSTONE

Show/Drilling Breaks

Interval	ROP	Lithology	Gas	% Fluorescence	Cut	Porosity
-						
-						
-						
-						

Gas

Current BGG: 12u	Max Last 24 hrs: 14u	Conn Gas: NA	Trip Gas: NA	Survey/DT Gas: NA
C-1 12 %	C-1 14 %	C-1 %	C-1 %	C-1 %
C-2 %	C-2 %	C-2 %	C-2 %	C-2 %
C-3 %	C-3 %	C-3 %	C-3 %	C-3 %
1-C-4 %	1-C-4 %	1-C-4 %	1-C-4 %	1-C-4 %
N-C-4 %	N-C-4 %	N-C-4 %	N-C-4 %	N-C-4 %

Correlations: Top of TWIN CREEK FORMATION ? @ 7105' ', -
We are ' high/low to
Top of NAVAJO FORMATION @ 5960' ', -
We are ' high/low to

Expecting Top of: NAVAJO FORMATION @ 8500'? ', -

Drilling Conditions:

@ 8396'	@ 8396'	Trip: Hrs	Deviation
HOB	WT 9.1	@	° @ '
WOB NA	vis 59	Reason:	° @ '
RPM NA	pH		° @ '
PP NA	CL	NB#:	° @ '
SPM NA	WL	Type:	° @ '

Driller's Log

Time	Operation
0500-0840	WASH AND REAM TO BOTTOM
0840-1400	DRILL FROM 8395' - 8396'
1400-0500	POOH / TIH W/ NEW BHA

Calibrations:

TOTAL GAS
Catalytic Combustion
1% Methane

units	105	100
volts	2.05	2.04
	before	after

CALIBRATIONS
Thermal Conduct
10% Methane

units	1798	1000
volts	1.74	1.74
	before	after

CHROMATOGRAPH

Div.	Sec.	%
C-1	13.5	1
C-2	32.25	1
C-3	59.25	1
C-4	103	1
NC-4	169	1

Filament Change: type METAL , GREEN ' METAL time.

Gas Trap:
Rig Air Motor
Transfer Time 3
Trap Cleaned (date)

Chromatograph Settings:
Carrier Air Pressure 5.08 psi,
Cycle Time 260 sec.

Logging Team: Team Leader: TOM SELMAN Team Lead Logger: JED JENKINS Team Logger: WALTER MOCKLER

Comments:

SELMAN AND ASSOCIATES, LTD.
GEOLOGICAL CONSULTING / SURFACE LOGGING SERVICES

Morning Report

Company: PIONEER NATURAL RESOURCES USA, INC. Date: 12/14/2010 Day: 90

Well Name: SOUTH HILLS FEDERAL 6-1 Prepared by: JED JENKINS

Current Operations: DRILLING AHEAD @ 8,632' Unit Phone Number: 432/385-4428 - 432/288-2228

TD: 8632' Time: 0500 Drill Rate: Min/Ft 17.6 Ft/Hr

Current BGG: 27u Max Last 24 hrs: 27u Conn Gas: NA Trip Gas: 20u Survey/DT Gas: NA

Current Lag Time @ ' = 38 Minutes or 7202 Lag Strokes

Made 236 ' in the last 24 hours. Company Representative called: CALEB POLLOCK @ 0830 a.m./p.m.

Lithology (Last Sample) @:	8600	Last Previous Change @:	8580
45 %	ANHYDRITE/GYPSUM	80 %	SANDSTONE
30 %	SHALE	10 %	DOLOMITE
10 %	SANDSTONE	5 %	ANHYDRITE/GYPSUM

Show/Drilling Breaks

Interval	ROP	Lithology	Gas	% Fluorescence	Cut	Porosity
-						
-						
-						
-						

Gas

Current BGG: 27u	Max Last 24 hrs: 27u	Conn Gas: NA	Trip Gas: 20u	Survey/DT Gas: NA
C-1 27 %	C-1 27 %	C-1 %	C-1 20 %	C-1 %
C-2 %	C-2 %	C-2 %	C-2 %	C-2 %
C-3 %	C-3 %	C-3 %	C-3 %	C-3 %
1-C-4 %	1-C-4 %	1-C-4 %	1-C-4 %	1-C-4 %
N-C-4 %	N-C-4 %	N-C-4 %	N-C-4 %	N-C-4 %

Correlations: Top of TWIN CREEK FORMATION ? @ 7105' ', -
We are ' high/low to
Top of NAVAJO FORMATION @ 5960' ', -
We are ' high/low to

Expecting Top of: NAVAJO FORMATION @ 8500'? ', -

Drilling Conditions:

@ 8632'	@ 8632'	Trip: Hrs	Deviation
HOB	WT 9.0+	@	° @ '
WOB 23	vis 51	Reason:	° @ '
RPM 101	pH		° @ '
PP 2620	CL	NB#:	° @ '
SPM 190	WL	Type:	° @ '

Driller's Log

Time	Operation
0500-0730	TIH W/ NEW BIT/BHA
0730-1430	DRILL FROM 8396' - 8474'
1430-1550	MAKE CONNECTION
1550-2250	DRILL FROM 8474' - 8570' --- WIRELINE SURVEY/CONNECTION TIL 0020
2250-0500	WIRELINE SURVEY / CONNECTION TIL 0020 --- DRILL FROM 8570' - 8632'

Calibrations:

TOTAL GAS
Catalytic Combustion
1% Methane

units	105	100
volts	2.05	2.04
	before	after

CALIBRATIONS
Thermal Conduct
10% Methane

units	1798	1000
volts	1.74	1.74
	before	after

CHROMATOGRAPH

Div.	Sec.	%
C-1	13.5	1
C-2	32.25	1
C-3	59.25	1
C-4	103	1
NC-4	169	1

Filament Change: type METAL , GREEN ' METAL time.

Gas Trap:
Rig Air Motor
Transfer Time 3
Trap Cleaned (date)

Chromatograph Settings:
Carrier Air Pressure 5.08 psi,
Cycle Time 260 sec.

Logging Team: Team Leader: TOM SELMAN Team Lead Logger: JED JENKINS Team Logger: WALTER MOCKLER

Comments:

SELMAN AND ASSOCIATES, LTD.
GEOLOGICAL CONSULTING / SURFACE LOGGING SERVICES

Morning Report

Company: PIONEER NATURAL RESOURCES USA, INC. Date: 12/15/2010 Day: 91

Well Name: SOUTH HILLS FEDERAL 6-1 Prepared by: JED JENKINS

Current Operations: TIH W/ NEW BIT Unit Phone Number: 432/385-4428 - 432/288-2228

TD: 8698' Time: 0500 Drill Rate: Min/Ft NA Ft/Hr

Current BGG: 5u Max Last 24 hrs: 54u Conn Gas: 54u Trip Gas: NA Survey/DT Gas: NA

Current Lag Time @ ' = 38 Minutes or 7202 Lag Strokes

Made 66 ' in the last 24 hours. Company Representative called: CALEB POLLOCK @ 0830 a.m./p.m.

Lithology (Last Sample) @: 8698			Last Previous Change @: 8690		
55	%	SANDSTONE	65	%	SANDSTONE
25	%	DOLOMITE	20	%	DOLOMITE
10	%	SHALE	5	%	SHALE

Show/Drilling Breaks

Interval	ROP	Lithology	Gas	% Fluorescence	Cut	Porosity
-						
-						
-						
-						

Gas

Current BGG: 5u		Max Last 24 hrs: 54u		Conn Gas: 54u		Trip Gas: NA		Survey/DT Gas: NA	
C-1	5 %	C-1	54 %	C-1	54 %	C-1	%	C-1	%
C-2	%	C-2	%	C-2	%	C-2	%	C-2	%
C-3	%	C-3	%	C-3	%	C-3	%	C-3	%
1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%
N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%

Correlations: Top of TWIN CREEK FORMATION ? @ 7105' ', -
We are ' high/low to
Top of NAVAJO FORMATION @ 5960' ', -
We are ' high/low to

Expecting Top of: NAVAJO FORMATION @ 8500'? ', -

Drilling Conditions:

@ 8698'	@ 8698'	Trip: Hrs	Deviation
HOB	WT 9.0+	@	° @ '
WOB NA	vis 51	Reason:	° @ '
RPM NA	pH		° @ '
PP NA	CL	NB#:	° @ '
SPM NA	WL	Type:	° @ '

Driller's Log

Time	Operation
0500-0810	DRILL FROM 8632' - 8666'
0810-0920	RUN WIRELINE SURVEY / MAKE CONNECTION
0920-1830	DRILL FROM 8666' - 8698'
1830-0500	TOH FOR NEW BIT

Calibrations:

TOTAL GAS
Catalytic Combustion
1% Methane

units	105	100
volts	2.05	2.04
	before	after

CALIBRATIONS
Thermal Conduct
10% Methane

units	1798	1000
volts	1.74	1.74
	before	after

CHROMATOGRAPH

Div.	Sec.	%
C-1	13.5	1
C-2	32.25	1
C-3	59.25	1
C-4	103	1
NC-4	169	1

Filament Change: type METAL , GREEN ' METAL time.

Gas Trap:
Rig Air Motor
Transfer Time 3
Trap Cleaned (date)

Chromatograph Settings:
Carrier Air Pressure 5.08 psi,
Cycle Time 260 sec.

Logging Team: Team Leader: TOM SELMAN Team Lead Logger: JED JENKINS Team Logger: WALTER MOCKLER

Comments:

SELMAN AND ASSOCIATES, LTD.
GEOLOGICAL CONSULTING / SURFACE LOGGING SERVICES

Morning Report

Company: PIONEER NATURAL RESOURCES USA, INC. Date: 12/16/2010 Day: 92

Well Name: SOUTH HILLS FEDERAL 6-1 Prepared by: JED JENKINS

Current Operations: MAKING CONNECTION @ 8758' Unit Phone Number: 432/385-4428 - 432/288-2228

TD: 8758' Time: 0500 Drill Rate: Min/Ft NA Ft/Hr

Current BGG: 5u Max Last 24 hrs: 20u Conn Gas: 18u Trip Gas: 20u Survey/DT Gas: NA

Current Lag Time @ ' = 38 Minutes or 7202 Lag Strokes

Made 60 ' in the last 24 hours. Company Representative called: CALEB POLLOCK @ 0830 a.m./p.m.

Lithology (Last Sample) @: 8750			Last Previous Change @: 8740		
85	%	SANDSTONE	85	%	SANDSTONE
5	%	DOLOMITE	5	%	DOLOMITE
5	%	SHALE	5	%	SHALE

Show/Drilling Breaks

Interval	ROP	Lithology	Gas	% Fluorescence	Cut	Porosity
-						
-						
-						
-						

Gas

Current BGG: 5u		Max Last 24 hrs: 20u		Conn Gas: 18u		Trip Gas: 20u		Survey/DT Gas: NA	
C-1	5 %	C-1	20 %	C-1	18 %	C-1	20 %	C-1	%
C-2	%	C-2	%	C-2	%	C-2	%	C-2	%
C-3	%	C-3	%	C-3	%	C-3	%	C-3	%
1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%
N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%

Correlations: Top of NAVAJO FORMATION @ 8665' ', -
We are ' high/low to
Top of @ ', -
We are ' high/low to

Expecting Top of: CHINLE FORMATION @ 9700' ', -

Drilling Conditions:

@ 8760'	@ 8760'	Trip: Hrs	Deviation
HOB	WT 9.0	@	° @ '
WOB NA	vis 51	Reason:	° @ '
RPM NA	pH		° @ '
PP NA	CL	NB#:	° @ '
SPM NA	WL	Type:	° @ '

Driller's Log

Time	Operation
0500-1130	TIH W/ NEW BIT
1130-0310	DRILL FROM 8698'- 8758'
0310-0500	MAKE CONNECTION / SURVEY

Calibrations:

TOTAL GAS
Catalytic Combustion
1% Methane

units	105	100
volts	2.05	2.04
	before	after

CALIBRATIONS
Thermal Conduct
10% Methane

units	1798	1000
volts	1.74	1.74
	before	after

CHROMATOGRAPH

Div.	Sec.	%
C-1	13.5	1
C-2	32.25	1
C-3	59.25	1
C-4	103	1
NC-4	169	1

Filament Change: type METAL , GREEN ' METAL time.

Gas Trap:
Rig Air Motor
Transfer Time 3
Trap Cleaned (date)

Chromatograph Settings:
Carrier Air Pressure 5.08 psi,
Cycle Time 260 sec.

Logging Team: Team Leader: TOM SELMAN Team Lead Logger: JED JENKINS Team Logger: WALTER MOCKLER

Comments:

SELMAN AND ASSOCIATES, LTD.
GEOLOGICAL CONSULTING / SURFACE LOGGING SERVICES

Morning Report

Company: PIONEER NATURAL RESOURCES USA, INC. Date: 12/17/2010 Day: 93

Well Name: SOUTH HILLS FEDERAL 6-1 Prepared by: JED JENKINS

Current Operations: MAKING CONNECTION / WIRELINE SURVEY Unit Phone Number: 432/385-4428 - 432/288-2228

TD: 8856' Time: 0500 Drill Rate: Min/Ft NA Ft/Hr

Current BGG: 15u Max Last 24 hrs: 20u Conn Gas: NA Trip Gas: NA Survey/DT Gas: NA

Current Lag Time @ ' = 39 Minutes or 7416 Lag Strokes

Made 98 ' in the last 24 hours. Company Representative called: CALEB POLLOCK @ 0830 a.m./p.m.

Lithology (Last Sample) @: 8850			Last Previous Change @: 8840		
80	%	SANDSTONE	75	%	SANDSTONE
10	%	GYPSUM/ANHYDRITE	15	%	GYPSUM/ANHYDRITE
5	%	SHALE	5	%	SHALE

Show/Drilling Breaks

Interval	ROP	Lithology	Gas	% Fluorescence	Cut	Porosity
-						
-						
-						
-						

Gas

Current BGG: 16u		Max Last 24 hrs: 20u		Conn Gas: NA		Trip Gas: NA		Survey/DT Gas: NA	
C-1	16 %	C-1	20 %	C-1	%	C-1	%	C-1	%
C-2	%	C-2	%	C-2	%	C-2	%	C-2	%
C-3	%	C-3	%	C-3	%	C-3	%	C-3	%
1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%
N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%

Correlations: Top of NAVAJO FORMATION @ 8665' ', -
We are ' high/low to
Top of @ ', -
We are ' high/low to

Expecting Top of: CHINLE FORMATION @ 9700' ', -

Drilling Conditions:

@ 8856'	@ 8856'	Trip: Hrs	Deviation
HOB	WT 9.0	@	° @ '
WOB NA	vis 52	Reason:	° @ '
RPM NA	pH		° @ '
PP NA	CL	NB#:	° @ '
SPM NA	WL	Type:	° @ '

Driller's Log

Time	Operation
0500-0150	DRILL FROM 8758' - 8856'
0150-0500	MAKING CONNECTION / WIRELINE SURVEY

Calibrations:

TOTAL GAS
Catalytic Combustion
1% Methane

units	105	100
volts	2.05	2.04
	before	after

CALIBRATIONS
Thermal Conduct
10% Methane

units	1798	1000
volts	1.74	1.74
	before	after

CHROMATOGRAPH

Div.	Sec.	%
C-1	13.5	1
C-2	32.25	1
C-3	59.25	1
C-4	103	1
NC-4	169	1

Filament Change: type METAL , GREEN ' METAL time.

Gas Trap:
Rig Air Motor
Transfer Time 3
Trap Cleaned (date)

Chromatograph Settings:
Carrier Air Pressure 5.08 psi,
Cycle Time 260 sec.

Logging Team: Team Leader: TOM SELMAN Team Lead Logger: JED JENKINS Team Logger: WALTER MOCKLER

Comments: EARLY THIS MORNING REPLACE MUCH OF GASLINE DUE TO FREEZING

SELMAN AND ASSOCIATES, LTD.
GEOLOGICAL CONSULTING / SURFACE LOGGING SERVICES

Morning Report

Company: PIONEER NATURAL RESOURCES USA, INC. Date: 12/18/2010 Day: 94

Well Name: SOUTH HILLS FEDERAL 6-1 Prepared by: JED JENKINS

Current Operations: TOOH FOR NEW BIT Unit Phone Number: 432/385-4428 - 432/288-2228

TD: 8887' Time: 0500 Drill Rate: Min/Ft NA Ft/Hr

Current BGG: 10u Max Last 24 hrs: 123u Conn Gas: 27u Trip Gas: NA Survey/DT Gas: NA

Current Lag Time @ ' = 39 Minutes or 7416 Lag Strokes

Made 31 ' in the last 24 hours. Company Representative called: CALEB POLLOCK @ 0830 a.m./p.m.

Lithology (Last Sample) @:	8886	Last Previous Change @:	8880
85 %	SANDSTONE	75 %	SANDSTONE
10 %	GYPSUM/ANHYDRITE	15 %	GYPSUM/ANHYDRITE
5 %	SHALE	5 %	SHALE

Show/Drilling Breaks

Interval	ROP	Lithology	Gas	% Fluorescence	Cut	Porosity
-						
-						
-						
-						

Gas

Current BGG: 10u	Max Last 24 hrs: 123u	Conn Gas: 26u	Trip Gas: NA	Survey/DT Gas: NA
C-1 10 %	C-1 45.8 %	C-1 26 %	C-1 %	C-1 %
C-2 %	C-2 0.3 %	C-2 %	C-2 %	C-2 %
C-3 %	C-3 3.2 %	C-3 %	C-3 %	C-3 %
1-C-4 %	1-C-4 17.5 %	1-C-4 %	1-C-4 %	1-C-4 %
N-C-4 %	N-C-4 %	N-C-4 %	N-C-4 %	N-C-4 %

Correlations: Top of NAVAJO FORMATION @ 8665' ', -
We are ' high/low to
Top of @ ', -
We are ' high/low to

Expecting Top of: CHINLE FORMATION @ 9700' ', -

Drilling Conditions:

@ 8887'	@ 8887'	Trip: Hrs	Deviation
HOB	WT 8.9	@	° @ '
WOB NA	vis 66	Reason:	° @ '
RPM NA	pH		° @ '
PP NA	CL	NB#:	° @ '
SPM NA	WL	Type:	° @ '

Driller's Log

Time	Operation
0500-1735	DRILL FROM 8856' - 8887'
1735-0500	TOOH FOR NEW BIT

Calibrations:

TOTAL GAS
Catalytic Combustion
1% Methane

units	105	100
volts	2.05	2.04
	before	after

CALIBRATIONS
Thermal Conduct
10% Methane

units	1798	1000
volts	1.74	1.74
	before	after

CHROMATOGRAPH

Div.	Sec.	%
C-1	13.5	1
C-2	32.25	1
C-3	59.25	1
C-4	103	1
NC-4	169	1

Filament Change: type METAL , GREEN ' METAL time.

Gas Trap:
Rig Air Motor
Transfer Time 3
Trap Cleaned (date)

Chromatograph Settings:
Carrier Air Pressure 5.08 psi,
Cycle Time 260 sec.

Logging Team: Team Leader: TOM SELMAN Team Lead Logger: JED JENKINS Team Logger: WALTER MOCKLER

Comments:

SELMAN AND ASSOCIATES, LTD.
GEOLOGICAL CONSULTING / SURFACE LOGGING SERVICES

Morning Report

Company: PIONEER NATURAL RESOURCES USA, INC. Date: 12/19/2010 Day: 95

Well Name: SOUTH HILLS FEDERAL 6-1 Prepared by: JED JENKINS

Current Operations: GONE FISHING Unit Phone Number: 432/385-4428 - 432/288-2228

TD: 8887' Time: 0500 Drill Rate: Min/Ft NA Ft/Hr

Current BGG: 10u Max Last 24 hrs: 123u Conn Gas: NA Trip Gas: NA Survey/DT Gas: NA

Current Lag Time @ ' = 39 Minutes or 7416 Lag Strokes

Made 0 ' in the last 24 hours. Company Representative called: CALEB POLLOCK @ 0830 a.m./p.m.

Lithology (Last Sample) @: 8886			Last Previous Change @: 8880		
85	%	SANDSTONE	75	%	SANDSTONE
10	%	GYPSUM/ANHYDRITE	15	%	GYPSUM/ANHYDRITE
5	%	SHALE	5	%	SHALE

Show/Drilling Breaks

Interval	ROP	Lithology	Gas	% Fluorescence	Cut	Porosity
-						
-						
-						
-						

Gas

Current BGG: 10u		Max Last 24 hrs: 10u		Conn Gas: NA		Trip Gas: NA		Survey/DT Gas: NA	
C-1	10 %	C-1	10 %	C-1	%	C-1	%	C-1	%
C-2	%	C-2	%	C-2	%	C-2	%	C-2	%
C-3	%	C-3	%	C-3	%	C-3	%	C-3	%
1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%
N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%

Correlations: Top of NAVAJO FORMATION @ 8665' ', -
We are ' high/low to
Top of @ ', -
We are ' high/low to

Expecting Top of: CHINLE FORMATION @ 9700' ', -

Drilling Conditions:

@ 8887'	@ 8887'	Trip: Hrs	Deviation
HOB	WT 8.9	@	° @ '
WOB NA	vis 66	Reason:	° @ '
RPM NA	pH		° @ '
PP NA	CL	NB#:	° @ '
SPM NA	WL	Type:	° @ '

Driller's Log

Time	Operation
0500-1530	WAIT FOR TOOLS TO ARRIVE / TIH WITH FISHING TOOLS
1530-2400	TOOH / CLEAN JUNK BASKET
2400-0500	TIH W/ FISHING TOOLS

Calibrations:

TOTAL GAS
Catalytic Combustion
1% Methane

units	105	100
volts	2.05	2.04
	before	after

CALIBRATIONS
Thermal Conduct
10% Methane

units	1798	1000
volts	1.74	1.74
	before	after

CHROMATOGRAPH

Div.	Sec.	%
C-1	13.5	1
C-2	32.25	1
C-3	59.25	1
C-4	103	1
NC-4	169	1

Filament Change: type METAL , GREEN ' METAL time.

Gas Trap:
Rig Air Motor
Transfer Time 3
Trap Cleaned (date)

Chromatograph Settings:
Carrier Air Pressure 5.08 psi,
Cycle Time 260 sec.

Logging Team: Team Leader: TOM SELMAN Team Lead Logger: JED JENKINS Team Logger: WALTER MOCKLER

Comments:

SELMAN AND ASSOCIATES, LTD.
GEOLOGICAL CONSULTING / SURFACE LOGGING SERVICES

Morning Report

Company: PIONEER NATURAL RESOURCES USA, INC. Date: 12/20/2010 Day: 96

Well Name: SOUTH HILLS FEDERAL 6-1 Prepared by: JED JENKINS

Current Operations: BREAKING IN BIT Unit Phone Number: 432/385-4428 - 432/288-2228

TD: 8887' Time: 0500 Drill Rate: Min/Ft 1 Ft/Hr

Current BGG: 20u Max Last 24 hrs: 37u Conn Gas: NA Trip Gas: 37u Survey/DT Gas: NA

Current Lag Time @ ' = 39 Minutes or 7416 Lag Strokes

Made 0 ' in the last 24 hours. Company Representative called: CALEB POLLOCK @ 0830 a.m./p.m.

Lithology (Last Sample) @: 8886			Last Previous Change @: 8880		
85	%	SANDSTONE	75	%	SANDSTONE
10	%	GYPSUM/ANHYDRITE	15	%	GYPSUM/ANHYDRITE
5	%	SHALE	5	%	SHALE

Show/Drilling Breaks

Interval	ROP	Lithology	Gas	% Fluorescence	Cut	Porosity
-						
-						
-						
-						

Gas

Current BGG: 20u		Max Last 24 hrs: 37u		Conn Gas: NA		Trip Gas: 37u		Survey/DT Gas: NA	
C-1	20 %	C-1	37 %	C-1	%	C-1	37 %	C-1	%
C-2	%	C-2	%	C-2	%	C-2	%	C-2	%
C-3	%	C-3	%	C-3	%	C-3	%	C-3	%
1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%
N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%

Correlations: Top of NAVAJO FORMATION @ 8665' ', -
We are ' high/low to
Top of @ ', -
We are ' high/low to

Expecting Top of: CHINLE FORMATION @ 9700' ', -

Drilling Conditions:

@ 8887'	@ 8887'	Trip: Hrs	Deviation
HOB	WT 8.9	@	° @ '
WOB NA	vis 66	Reason:	° @ '
RPM NA	pH		° @ '
PP NA	CL	NB#:	° @ '
SPM NA	WL	Type:	° @ '

Driller's Log

Time	Operation
0500-1100	TOH WITH JUNK BASKET FULL
1100-1845	SORT THROUGH JUNK / AWAIT DECISION ON BIT
1845-0000	TIH W/ NEW BIT/BHA
0000-0500	REAM TO BOTTOM / BREAK IN BIT

Calibrations:

TOTAL GAS
Catalytic Combustion
1% Methane

units	105	100
volts	2.05	2.04
	before	after

CALIBRATIONS
Thermal Conduct
10% Methane

units	1798	1000
volts	1.74	1.74
	before	after

CHROMATOGRAPH

Div.	Sec.	%
C-1	13.5	1
C-2	32.25	1
C-3	59.25	1
C-4	103	1
NC-4	169	1

Filament Change: type METAL , GREEN ' METAL time.

Gas Trap:
Rig Air Motor
Transfer Time 3
Trap Cleaned (date)

Chromatograph Settings:
Carrier Air Pressure 5.08 psi,
Cycle Time 260 sec.

Logging Team: Team Leader: TOM SELMAN Team Lead Logger: JED JENKINS Team Logger: WALTER MOCKLER

Comments:

SELMAN AND ASSOCIATES, LTD.
GEOLOGICAL CONSULTING / SURFACE LOGGING SERVICES

Morning Report

Company: PIONEER NATURAL RESOURCES USA, INC. Date: 12/21/2010 Day: 97

Well Name: SOUTH HILLS FEDERAL 6-1 Prepared by: JED JENKINS

Current Operations: MAKING CONNECTION @ 8958' Unit Phone Number: 432/385-4428 - 432/288-2228

TD: 8958' Time: 0500 Drill Rate: Min/Ft NA Ft/Hr

Current BGG: 24u Max Last 24 hrs: 36u Conn Gas: NA Trip Gas: NA Survey/DT Gas: NA

Current Lag Time @ ' = 39 Minutes or 7416 Lag Strokes

Made 71 ' in the last 24 hours. Company Representative called: CALEB POLLOCK @ 0830 a.m./p.m.

Lithology (Last Sample) @: 8950			Last Previous Change @: 8940		
90	%	SANDSTONE	85	%	SANDSTONE
10	%	GYPSUM/ANHYDRITE	15	%	GYPSUM/ANHYDRITE
	%			%	

Show/Drilling Breaks

Interval	ROP	Lithology	Gas	% Fluorescence	Cut	Porosity
-						
-						
-						
-						

Gas

Current BGG: 24u		Max Last 24 hrs: 36u		Conn Gas: NA		Trip Gas: NA		Survey/DT Gas: NA	
C-1	24 %	C-1	36 %	C-1	%	C-1	%	C-1	%
C-2	%	C-2	%	C-2	%	C-2	%	C-2	%
C-3	%	C-3	%	C-3	%	C-3	%	C-3	%
1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%
N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%

Correlations: Top of NAVAJO FORMATION @ 8665' ', -
We are ' high/low to
Top of @ ', -
We are ' high/low to

Expecting Top of: CHINLE FORMATION @ 9700' ', -

Drilling Conditions:

@ 8	@ 8958'	Trip: Hrs	Deviation
HOB	WT 9.0	@	° @ '
WOB NA	vis 64	Reason:	° @ '
RPM NA	pH		° @ '
PP NA	CL	NB#:	° @ '
SPM NA	WL	Type:	° @ '

Driller's Log

Time	Operation
0500-0435	DRILL FROM 8887' - 8958'
0435-0500	WIRELINE SURVEY / MAKE CONNECTION

Calibrations:

TOTAL GAS
Catalytic Combustion
1% Methane

units	105	100
volts	2.05	2.04
	before	after

CALIBRATIONS
Thermal Conduct
10% Methane

units	1798	1000
volts	1.74	1.74
	before	after

CHROMATOGRAPH

Div.	Sec.	%
C-1	13.5	1
C-2	32.25	1
C-3	59.25	1
C-4	103	1
NC-4	169	1

Filament Change: type METAL , GREEN ' METAL time.

Gas Trap:
Rig Air Motor
Transfer Time 3
Trap Cleaned (date)

Chromatograph Settings:
Carrier Air Pressure 5.08 psi,
Cycle Time 260 sec.

Logging Team: Team Leader: TOM SELMAN Team Lead Logger: JED JENKINS Team Logger: WALTER MOCKLER

Comments:

SELMAN AND ASSOCIATES, LTD.
GEOLOGICAL CONSULTING / SURFACE LOGGING SERVICES

Morning Report

Company: PIONEER NATURAL RESOURCES USA, INC. Date: 12/22/2010 Day: 98

Well Name: SOUTH HILLS FEDERAL 6-1 Prepared by: JED JENKINS

Current Operations: TRIPPING IN HOLE WITH NEW BIT' Unit Phone Number: 432/385-4428 - 432/288-2228

TD: 8973' Time: 0500 Drill Rate: Min/Ft NA Ft/Hr

Current BGG: 17u Max Last 24 hrs: 41u Conn Gas: NA Trip Gas: NA Survey/DT Gas: NA

Current Lag Time @ ' = 39 Minutes or 7416 Lag Strokes

Made 15 ' in the last 24 hours. Company Representative called: CALEB POLLOCK @ 0830 a.m./p.m.

Lithology (Last Sample) @: 8973			Last Previous Change @: 8960		
80	%	SANDSTONE	80	%	SANDSTONE
20	%	GYPSUM/ANHYDRITE	15	%	GYPSUM/ANHYDRITE
	%		5	%	SHALE

Show/Drilling Breaks

Interval	ROP	Lithology	Gas	% Fluorescence	Cut	Porosity
-						
-						
-						
-						

Gas

Current BGG: 17u		Max Last 24 hrs: 41u		Conn Gas: NA		Trip Gas: NA		Survey/DT Gas: NA	
C-1	17 %	C-1	41 %	C-1	%	C-1	%	C-1	%
C-2	%	C-2	%	C-2	%	C-2	%	C-2	%
C-3	%	C-3	%	C-3	%	C-3	%	C-3	%
1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%
N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%

Correlations: Top of NAVAJO FORMATION @ 8665' ', -
We are ' high/low to
Top of @ ', -
We are ' high/low to

Expecting Top of: CHINLE FORMATION @ 9700' ', -

Drilling Conditions:

@ 8973'	@ 8973'	Trip: Hrs	Deviation
HOB	WT 9.0	@	° @ '
WOB NA	vis 62	Reason:	° @ '
RPM NA	pH		° @ '
PP NA	CL	NB#:	° @ '
SPM NA	WL	Type:	° @ '

Driller's Log

Time	Operation
0500-0540	WIRELINE SURVEY / MAKE CONNECTION
0540-1145	DRILL FROM 8958' - 8973'
1145-0030	TOOH
0030-0500	TIH WITH NEW BIT

Calibrations:

TOTAL GAS
Catalytic Combustion
1% Methane

units	105	100
volts	2.05	2.04
	before	after

CALIBRATIONS
Thermal Conduct
10% Methane

units	1798	1000
volts	1.74	1.74
	before	after

CHROMATOGRAPH

Div.	Sec.	%
C-1	13.5	1
C-2	32.25	1
C-3	59.25	1
C-4	103	1
NC-4	169	1

Filament Change: type METAL , GREEN ' METAL time.

Gas Trap:
Rig Air Motor
Transfer Time 3
Trap Cleaned (date)

Chromatograph Settings:
Carrier Air Pressure 5.08 psi,
Cycle Time 260 sec.

Logging Team: Team Leader: TOM SELMAN Team Lead Logger: JED JENKINS Team Logger: WALTER MOCKLER

Comments:

SELMAN AND ASSOCIATES, LTD.
GEOLOGICAL CONSULTING / SURFACE LOGGING SERVICES

Morning Report

Company: PIONEER NATURAL RESOURCES USA, INC. Date: 12/23/2010 Day: 99

Well Name: SOUTH HILLS FEDERAL 6-1 Prepared by: JED JENKINS

Current Operations: POOH FOR E-LOGS Unit Phone Number: 432/385-4428 - 432/288-2228

TD: 9030' Time: 0500 Drill Rate: Min/Ft NA Ft/Hr

Current BGG: 21u Max Last 24 hrs: 35u Conn Gas: NA Trip Gas: NA Survey/DT Gas: NA

Current Lag Time @ ' = 39 Minutes or 7416 Lag Strokes

Made 57 ' in the last 24 hours. Company Representative called: CALEB POLLOCK @ 0830 a.m./p.m.

Lithology (Last Sample) @: 9030			Last Previous Change @: 9020		
90	%	SANDSTONE	90	%	SANDSTONE
10	%	GYPSUM/ANHYDRITE	10	%	GYPSUM/ANHYDRITE
	%			%	

Show/Drilling Breaks

Interval	ROP	Lithology	Gas	% Fluorescence	Cut	Porosity
-						
-						
-						
-						

Gas

Current BGG: 21u		Max Last 24 hrs: 35u		Conn Gas: NA		Trip Gas: NA		Survey/DT Gas: NA	
C-1	21 %	C-1	35 %	C-1	%	C-1	%	C-1	%
C-2	%	C-2	%	C-2	%	C-2	%	C-2	%
C-3	%	C-3	%	C-3	%	C-3	%	C-3	%
1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%	1-C-4	%
N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%	N-C-4	%

Correlations: Top of NAVAJO FORMATION @ 8665' ', -
We are ' high/low to
Top of @ ', -
We are ' high/low to

Expecting Top of: CHINLE FORMATION @ 9700' ', -

Drilling Conditions:

@ 9030'	@ 9030'	Trip: Hrs	Deviation
HOB	WT 9.0	@	° @ '
WOB NA	vis 64	Reason:	° @ '
RPM NA	pH		° @ '
PP NA	CL	NB#:	° @ '
SPM NA	WL	Type:	° @ '

Driller's Log

Time	Operation
0500-0630	TIH WITH NEW BIT
0630-1200	DRILL FROM 8973' - 8985'
1200-1220	MAKE CONNECTION
1220-0300	DRILL FROM 8985' - 9030'
0300-0500	CIRCULATE BOTTOMS UP / TOOH FOR E-LOGS

Calibrations:

TOTAL GAS
Catalytic Combustion
1% Methane

units	105	100
volts	2.05	2.04
	before	after

CALIBRATIONS
Thermal Conduct
10% Methane

units	1798	1000
volts	1.74	1.74
	before	after

CHROMATOGRAPH

Div.	Sec.	%
C-1	13.5	1
C-2	32.25	1
C-3	59.25	1
C-4	103	1
NC-4	169	1

Filament Change: type METAL , GREEN ' METAL time.

Gas Trap:
Rig Air Motor
Transfer Time 3
Trap Cleaned (date)

Chromatograph Settings:
Carrier Air Pressure 5.08 psi,
Cycle Time 260 sec.

Logging Team: Team Leader: TOM SELMAN Team Lead Logger: JED JENKINS Team Logger: WALTER MOCKLER

Comments:

LITHOLOGIES

100 120
CALLED ON TO LOCATION BY COMPANY MAN DEAN BAKER ON 9/16/10. BEGAN 2-MAN MUDLOGGING OPS @ 4:10 PM ON 9/23/10 @ 80' DRLNG OUT FROM CONDUCTOR PIPE. NABORS #169. BIT#1: 17.5" HTC HCD 507 Z PDC. DRLNG/FRESHWATER MUD & MUDMOTOR^

120 140 SANDSTONE
CLR WH GY ORANGE WSRT FGRN UNCONS TRANSP-TRANSL & OP SBRND-SBANG QTZ & ABNDT VOLCANIC LITHIC FRAGS VCALC & DOLOMITIC. /*SHALE: WH TAN GN SLTY CALC-DOLOMITIC MODFRM-MODSFT SBFISS LMPY-BLKY^

140 160 SANDSTONE
CLR PSRT VCRS- FGRN UNCONS TRANSP-TRANSL SBRND-SBANG QTZ & ABNDT VOLCANIC LITHIC FRAGS VCALC & DOLOMITIC. /*SHALE: WH TAN GN SLTY CALC-DOLOMITIC MODFRM-MODSFT SBFISS LMPY-BLKY^

160 180 SHALE
WH TAN GN SLTY CALC-DOLOMITIC MODFRM-MODSFT SBFISS LMPY-BLKY /*SANDSTONE: CLR MODSRT MED- FGRN UNCONS TRANSP-TRANSL SBRND-SBANG QTZ & ABNDT VOLCANIC LITHIC FRAGS VCALC & DOLOMITIC.^

180 200 SHALE
WH TAN GN SLTY CALC-DOLOMITIC MODFRM-MODSFT SBFISS LMPY-BLKY /*SANDSTONE: CLR MODSRT MED- FGRN UNCONS TRANSP-TRANSL SBRND-SBANG QTZ & ABNDT VOLCANIC LITHIC FRAGS VCALC & DOLOMITIC.^

200 220 SHALE
WH TAN GN SLTY CALC-DOLOMITIC MODFRM-MODSFT SBFISS LMPY-BLKY /*SANDSTONE: CLR MODSRT MED- FGRN UNCONS TRANSP-TRANSL SBRND-SBANG QTZ & ABNDT VOLCANIC LITHIC FRAGS VCALC & DOLOMITIC.^

220 240 DOLOMITE
OFF WH TAN CRYPTXLN BLKY TRANSL IP HD/*SANDSTONE: CLR MED-CRS GRN UNCONS TRANSL SBRND QTZ & ABNDT VOLCANIC LITHIC FRAGS VCALC & DOLOMITIC.^

240 260 DOLOMITE
OFF WH TAN CRYPTXLN BLKY TRANSL IP HD/*SANDSTONE: CLR MED-CRS GRN UNCONS TRANSL SBRND QTZ & ABNDT VOLCANIC LITHIC FRAGS VCALC & DOLOMITIC.^

260 280 SANDSTONE
CLR MED-CRS GRN UNCONS TRANSL-TRANSP SBANG-SBRND QTZ TR SHALE, LIMESTONE & DOLOMITE/*/*GRANITE WASH: MOD FRESH PART WEATHERED VOLCANOCLASTICS ABNDT EXTRUSIVE LITHIC FRAGS^

280 300 SANDSTONE
OFF WHT-PINK LT ORNG SLT&PEPP BLK BIOTITE MATX SUPP CONGL MOD FRM-HRD SBANG-ANG/*SANDSTONE: CLR UNCNSL QTZ GRNS HRD SBANG/*SHALE: OFF WHT TAN ARG CALC-DOLOMITIC MOD FRM V EFF BLKY^

300 320 SANDSTONE

CLR UNCNSL QTZ MED-CRS GR HRD SBANG-SBRND MOD SRT TRANSP TR SH & LS/*GRANITE WASH: VOLCLAS: WHT PINK- RED ORNG S&P BLK MATX SUPP CONGL MOD FRM-HRD SBANG-ANG/*DOLOMITE: WH GY HD BLKY CRYPTXLN OP-TRANSL/*^

320 340 SANDSTONE
CLR UNCNSL QTZ MED-CRS GR HRD SBANG-SBRND MOD SRT TRANSP TR SH & LS/*GRANITE WASH: VOLCLAS: WHT PINK-RED ORNG S&P BLK MATX SUPP CONGL MOD FRM-HRD SBANG-ANG/*DOLOMITE: WH GY HD BLKY CRYPTXLN OP-TRANSL/*^

340 360 SANDSTONE
CLR UNCNSL QTZ MED-CRS GR HRD SBANG-SBRND MOD SRT TRANSP TR SH & LS/*GRANITE WASH: VOLCLAS: WHT PINK- RED ORNG S&P BLK MATX SUPP CONGL MOD FRM-HRD SBANG-ANG/*DOLOMITE: WH GY HD BLKY CRYPTXLN OP-TRANSL/*^

360 380 SANDSTONE
CLR UNCNSL QTZ MED-CRS GR HRD SBANG-SBRND MOD SRT TRANSP /*GRANITE WASH: VOLCLAS: WHT PINK- RED ORNG S&P BLK MATX SUPP CONGL MOD FRM-HRD SBANG-ANG/*DOLOMITE: WH GY HD BLKY CRYPTXLN OP-TRANSL/*^

380 400 SANDSTONE
CLR UNCNSL QTZ MED-CRS GR HRD SBANG-SBRND MOD SRT TRANSP /*GRANITE WASH: VOLCLAS: WHT PINK- RED ORNG S&P BLK MATX SUPP CONGL MOD FRM-HRD SBANG-ANG/*DOLOMITE: WH GY HD BLKY CRYPTXLN OP-TRANSL/*^

400 420 SANDSTONE
CLR WSRT MED-FGRN UNCONS SBRND-SBANG TRANSP CLN QTZ MINOR VOLCANOCLASTIC LITHIC FRAGS & WH HD CRYPTXLN DOLOMITE^

420 440 SANDSTONE
CLR WSRT MED-FGRN UNCONS SBRND-SBANG TRANSP CLN QTZ MINOR VOLCANOCLASTIC LITHIC FRAGS & WH HD CRYPTXLN DOLOMITE^

440 460 SANDSTONE
CLR WSRT MED-FGRN UNCONS SBRND-SBANG TRANSP CLN QTZ MINOR VOLCANOCLASTIC LITHIC FRAGS & WH HD CRYPTXLN DOLOMITE^

460 480 SANDSTONE
CLR WSRT MED-FGRN UNCONS SBRND-SBANG TRANSP CLN QTZ MINOR VOLCANOCLASTIC LITHIC FRAGS & WH HD CRYPTXLN DOLOMITE^

480 500 SANDSTONE
CLR WSRT MED-FGRN UNCONS SBRND-SBANG TRANSP CLN QTZ MINOR VOLCANOCLASTIC LITHIC FRAGS & WH HD CRYPTXLN DOLOMITE^

500 520 SANDSTONE
CLR WSRT MED-FGRN UNCONS SBANG-SBRND TRANSP CLN QTZ TR DOLOMITE & VOLCANOCLASTICS^

520 540 SANDSTONE
CLR WSRT MED-FGRN UNCONS SBANG-SBRND TRANSP CLN QTZ TR DOLOMITE & VOLCANOCLASTICS^

540 560 SANDSTONE

CLR WSRT MED-FGRN UNCONS SBANG-SBRND TRANSP CLN QTZ TR DOLOMITE & VOLCANOCLASTICS^

560 580 SANDSTONE
CLR WSRT MED-FGRN UNCONS SBANG-SBRND TRANSP CLN QTZ TR DOLOMITE & VOLCANOCLASTICS^

580 600 SANDSTONE
CLR WSRT MED-FGRN UNCONS SBANG-SBRND TRANSP CLN QTZ TR DOLOMITE & VOLCANOCLASTICS^

600 620 SANDSTONE
CLR WSRT FGRN MODCMT/CALC CMT IP UNCONS IP ANG-SBRND TRANSP CLN QTZ MINOR VOLCANOCLASTIC LITHIC FRAGS & TR DOLOMITE^

620 640 SANDSTONE
CLR WSRT FGRN MODCMT/CALC CMT IP UNCONS IP ANG-SBRND TRANSP CLN QTZ MINOR VOLCANOCLASTIC LITHIC FRAGS & TR DOLOMITE^

640 660 SANDSTONE
CLR WSRT FGRN MODCMT/CALC CMT IP UNCONS IP ANG-SBRND TRANSP CLN QTZ MINOR VOLCANOCLASTIC LITHIC FRAGS & TR DOLOMITE^

660 680 SANDSTONE
CLR WSRT FGRN MODCMT/CALC CMT IP UNCONS IP ANG-SBRND TRANSP CLN QTZ MINOR VOLCANOCLASTIC LITHIC FRAGS & TR DOLOMITE^

680 700 SANDSTONE
CLR WSRT FGRN MODCMT/CALC CMT IP UNCONS IP ANG-SBRND TRANSP CLN QTZ MINOR VOLCANOCLASTIC LITHIC FRAGS & TR DOLOMITE^

700 720 SANDSTONE
CLR WSRT FGRN/TR MEDGRN UNCONS/TR MODCMT/CALC CMT SBANG-SBRND TRANSP-TRANSL CLN QTZ MINOR REDORANGE VOLCANOCLASTIC LITHIC FRAGS & TR WH OP CRYPTXLN HD BLKY DOLOMITE^

720 740 SANDSTONE
CLR WSRT FGRN/TR MEDGRN UNCONS/TR MODCMT/CALC CMT SBANG-SBRND TRANSP-TRANSL CLN QTZ MINOR REDORANGE VOLCANOCLASTIC LITHIC FRAGS & TR WH OP CRYPTXLN HD BLKY DOLOMITE^

740 760 SANDSTONE
CLR WSRT FGRN/TR MEDGRN UNCONS/TR MODCMT/CALC CMT SBANG-SBRND TRANSP-TRANSL CLN QTZ MINOR REDORANGE VOLCANOCLASTIC LITHIC FRAGS & TR WH OP CRYPTXLN HD BLKY DOLOMITE^

760 780 SANDSTONE
CLR WSRT FGRN/TR MEDGRN UNCONS/TR MODCMT/CALC CMT SBANG-SBRND TRANSP-TRANSL CLN QTZ MINOR REDORANGE VOLCANOCLASTIC LITHIC FRAGS & TR WH OP CRYPTXLN HD BLKY DOLOMITE^

780 800 SANDSTONE
CLR WSRT FGRN/TR MEDGRN UNCONS/TR MODCMT/CALC CMT SBANG-SBRND TRANSP-TRANSL CLN QTZ MINOR REDORANGE VOLCANOCLASTIC LITHIC FRAGS & TR WH OP CRYPTXLN HD BLKY DOLOMITE^

800 820 SANDSTONE
CLR WSRT F-MEDGRN UNCONS TR MODCMT/CALC CMT SBANG-SBRND TRANSP-TRANSL CLN QTZ TR WH PNK HD BLKY CRYPTXLN DOLOMITE & REDORANGE BLK VOLCANOCLASTIC LITHIC FRAGS^

820 840 SANDSTONE
CLR WSRT F-MEDGRN UNCONS TR MODCMT/CALC CMT SBANG-SBRND TRANSP-TRANSL CLN QTZ TR WH PNK HD BLKY CRYPTXLN DOLOMITE & REDORANGE BLK VOLCANOCLASTIC LITHIC FRAGS^

840 860 SANDSTONE
CLR WSRT F-MEDGRN UNCONS TR MODCMT/CALC CMT SBANG-SBRND TRANSP-TRANSL CLN QTZ TR WH PNK HD BLKY CRYPTXLN DOLOMITE & REDORANGE BLK VOLCANOCLASTIC LITHIC FRAGS^

860 880 SANDSTONE
CLR WSRT F-MEDGRN UNCONS TR MODCMT/CALC CMT SBANG-SBRND TRANSP-TRANSL CLN QTZ TR WH PNK HD BLKY CRYPTXLN DOLOMITE & REDORANGE BLK VOLCANOCLASTIC LITHIC FRAGS^

880 900 SANDSTONE
CLR WSRT F-MEDGRN UNCONS TR MODCMT/CALC CMT SBANG-SBRND TRANSP-TRANSL CLN QTZ TR WH PNK HD BLKY CRYPTXLN DOLOMITE & REDORANGE BLK VOLCANOCLASTIC LITHIC FRAGS^

900 920 SANDSTONE
CLR WSRT F-MEDGRN UNCONS TR MODCMT/CALC CMT SBANG-SBRND TRANSP-TRANSL CLN QTZ TR WH PNK HD BLKY CRYPTXLN DOLOMITE & REDORANGE BLK VOLCANOCLASTIC LITHIC FRAGS^

920 940 SANDSTONE
CLR WSRT F-MEDGRN UNCONS TR MODCMT/CALC CMT SBANG-SBRND TRANSP-TRANSL CLN QTZ TR WH PNK HD BLKY CRYPTXLN DOLOMITE & REDORANGE BLK VOLCANOCLASTIC LITHIC FRAGS^

940 960 SANDSTONE
CLR WSRT F-MEDGRN UNCONS TR MODCMT/CALC CMT SBANG-SBRND TRANSP-TRANSL CLN QTZ TR WH PNK HD BLKY CRYPTXLN DOLOMITE & REDORANGE BLK VOLCANOCLASTIC LITHIC FRAGS^

960 980 SANDSTONE
CLR WSRT F-MEDGRN UNCONS TR MODCMT/CALC CMT SBANG-SBRND TRANSP-TRANSL CLN QTZ TR WH PNK HD BLKY CRYPTXLN DOLOMITE & REDORANGE BLK VOLCANOCLASTIC LITHIC FRAGS^

980 1000 SANDSTONE
CLR WSRT F-MEDGRN UNCONS TR MODCMT/CALC CMT SBANG-SBRND TRANSP-TRANSL CLN QTZ TR WH PNK HD BLKY CRYPTXLN DOLOMITE & REDORANGE BLK VOLCANOCLASTIC LITHIC FRAGS^

1000 1020 SANDSTONE
CLR WSRT GRN UNCONS TR MODCMT/CALC CMT SBRND TRANSP-TRANSL CLN QTZ TR WH PNK HD BLKY CRYPTXLN DOLOMITE & REDORANGE BLK VOLCANOCLASTIC LITHIC FRAGS & CONGLOMERATE^

1020 1040 SANDSTONE

CLR WSRT GRN UNCONS TR MODCMT/CALC CMT SBRND TRANSP-TRANSL CLN QTZ TR WH PNK HD BLKY CRYPTXLN DOLOMITE & REDORANGE BLK VOLCANOCLASTIC LITHIC FRAGS & CONGLOMERATE^

1040 1060 SANDSTONE
CLR WSRT GRN UNCONS TR MODCMT/CALC CMT SBRND TRANSP-TRANSL CLN QTZ TR WH PNK HD BLKY CRYPTXLN DOLOMITE & REDORANGE BLK VOLCANOCLASTIC LITHIC FRAGS & CONGLOMERATE^

1060 1080 SANDSTONE
CLR WSRT GRN UNCONS TR MODCMT/CALC CMT SBRND TRANSP-TRANSL CLN QTZ TR WH PNK HD BLKY CRYPTXLN DOLOMITE & REDORANGE BLK VOLCANOCLASTIC LITHIC FRAGS & CONGLOMERATE^

1080 1100 SANDSTONE
CLR WSRT GRN UNCONS TR MODCMT/CALC CMT SBRND TRANSP-TRANSL CLN QTZ TR WH PNK HD BLKY CRYPTXLN DOLOMITE & REDORANGE BLK VOLCANOCLASTIC LITHIC FRAGS & CONGLOMERATE^

1100 1120 SANDSTONE
CLR WSRT GRN UNCONS TR MOD CMT SBRND TRANSP-TRANSL CLN QTZ TR WH PNK HD BLKY RED ORANGE BLK VOLCANICLASTIC LITHIC FRAGS & CONGLOMERATE^

1120 1140 SANDSTONE
CLR WSRT GRN UNCONS TR MOD CMT SBRND TRANSP-TRANSL CLN QTZ TR WH PNK HD BLKY RED ORANGE BLK VOLCANICLASTIC LITHIC FRAGS & CONGLOMERATE^

1140 1160 SANDSTONE
CLR WSRT GRN UNCONS TR MOD CMT SBRND TRANSP-TRANSL CLN QTZ TR WH PNK HD BLKY RED ORANGE BLK VOLCANICLASTIC LITHIC FRAGS & CONGLOMERATE^

1160 1180 SANDSTONE
CLR WSRT GRN UNCONS TR MOD CMT SBRND TRANSP-TRANSL CLN QTZ TR WH PNK HD BLKY RED ORANGE BLK VOLCANICLASTIC LITHIC FRAGS & CONGLOMERATE^

1180 1200 SANDSTONE
CLR WSRT GRN UNCONS TR MOD CMT SBRND TRANSP-TRANSL CLN QTZ TR WH PNK HD BLKY RED ORANGE BLK VOLCANICLASTIC LITHIC FRAGS & CONGLOMERATE^

1200 1220 SANDSTONE
CLR WSRT GRN UNCONS TR MOD CMT SBRND TRANSP-TRANSL CLN QTZ TR WH PNK HD BLKY RED ORANGE MED GRY BLK BIOTITE SLT & PEPP VOLCANICLASTIC LITHIC FRAGS & CONGLOMERATE^

1220 1240 SANDSTONE
CLR WSRT GRN UNCONS TR MOD CMT SBRND TRANSP-TRANSL CLN QTZ TR WH PNK HD BLKY RED ORANGE MED GRY BLK BIOTITE SLT & PEPP VOLCANICLASTIC LITHIC FRAGS & CONGLOMERATE^

1240 1260 SANDSTONE

CLR WSRT GRN UNCONS TR MOD CMT SBRND TRANSP-TRANSL CLN QTZ TR WH PNK HD BLKY RED ORANGE MED GRY BLK BIOTITE SLT & PEPP VOLCANICLASTIC LITHIC FRAGS & CONGLOMERATE^

1260 1280 SANDSTONE
CLR WSRT GRN UNCONS TR MOD CMT SBRND TRANSP-TRANSL CLN QTZ TR WH PNK HD BLKY RED ORANGE BLK VOLCANICLASTIC LITHIC FRAGS & CONGLOMERATE^

1280 1300 SANDSTONE
CLR WSRT GRN UNCONS TR MOD CMT SBRND TRANSP-TRANSL CLN QTZ TR WH PNK HD BLKY RED ORANGE BLK VOLCANICLASTIC LITHIC FRAGS & CONGLOMERATE^

1300 1320 GRANITE WASH
MULTICOLORED VOLCANOCLASTIC LITH FRAGS: WH PNK ORANGEPNK TAN GN DKGY REDBRN DKBRN BLK SBRND HD-SFT CALC IP PRED SIL. /*SANDSTONE: CLR WH PSRT CRS-FGRN UNCONS-PCMT/CLY MATRIX ANG-SBRND OCC/BLK INCLUS^

1320 1340
TRIP TO CHECK BIT @ 1330' @ 1:50 PM ON 9/26/10. ROP DROPPED TO 2'/HR FROM 3'/MIN. BIT CAME OUT AS ONE BIG CLAY BALL-BUT OTHERWISE OKAY. CLEAN OFF BIT & RUN SAME BACK IN HOLE. BOB@ 9:54 PM ON 9/26/10^

1340 1360 GRANITE WASH
ORANGEPNK WH GY GN MOD HD BLKY OP VOLCANOCLASTICS, TR LS & SS^

1360 1380 GRANITE WASH
ORANGEPNK WH GY GN MOD HD BLKY OP VOLCANOCLASTICS, TR LS & SS^

1380 1400 GRANITE WASH
ORANGEPNK WH GY GN MOD HD BLKY OP VOLCANOCLASTICS, TR LS & SS^

1400 1420 GRANITE WASH
VOLCANOCLASTIC LITH FRAGS: ORANGEPNK WH GY GN MOD HD BLKY OP TR LIMESTONE & SANDSTONE^

1420 1440 GRANITE WASH
VOLCANOCLASTIC LITH FRAGS: ORANGEPNK WH GY GN MOD HD BLKY OP TR LIMESTONE & SANDSTONE^

1440 1460 GRANITE WASH
VOLCANOCLASTIC LITH FRAGS: ORANGEPNK WH GY GN MOD HD BLKY OP TR LIMESTONE & SANDSTONE^

1460 1480 GRANITE WASH
VOLCANOCLASTIC LITH FRAGS: ORANGEPNK WH GY GN MOD HD BLKY OP TR LIMESTONE & SANDSTONE^

1480 1500 GRANITE WASH
VOLCANOCLASTIC LITH FRAGS: ORANGEPNK WH GY GN MOD HD BLKY OP TR LIMESTONE SANDSTONE: CLR CRS GRN ANG-SBANG PARTIALLY/ FRESH SHARP FRAC EDGES UNCONS^

1500 1520 GRANITE WASH

OFF WH-LT GY WH V HD BLKY OP VOCANOCLASTICS TR LIMESTONE & CLR CRSGRN ANG-SBANG UNCONS SANDSTONE^

1520 1540 GRANITE WASH
OFF WH-LT GY WH V HD BLKY OP VOCANOCLASTICS TR LIMESTONE & CLR CRSGRN ANG-SBANG UNCONS SANDSTONE^

1540 1560 GRANITE WASH
OFF WH-LT GY WH V HD BLKY OP VOCANOCLASTICS TR LIMESTONE & CLR CRSGRN ANG-SBANG UNCONS SANDSTONE^

1560 1580 GRANITE WASH
OFF WH-LT GY WH V HD BLKY OP VOCANOCLASTICS TR LIMESTONE & CLR CRSGRN ANG-SBANG UNCONS SANDSTONE^

1580 1600 GRANITE WASH
OFF WH-LT GY WH V HD BLKY OP VOCANOCLASTICS TR LIMESTONE & CLR CRSGRN ANG-SBANG UNCONS SANDSTONE^

1600 1620 GRANITE WASH
OFF WH-WH SLI ORNG SM SLT&PEPP W/ BIOTITE MOD HD BLKY OP VOLCANICLASTIC /*/*QUARTZ GRN CLR CRSGRN ANG-SBANG TOT UNCONS SANDSTONE^

1620 1640 GRANITE WASH
OFF WH-WH SLI ORNG SM SLT&PEPP W/ BIOTITE MOD HD BLKY OP VOLCANICLASTIC /*/*QUARTZ GRN CLR CRSGRN ANG-SBANG TOT UNCONS SANDSTONE^

1640 1660 GRANITE WASH
GRN MINERAL COAT OFF WH-WH SLI ORNG SM SLT&PEPP W/ BIOTITE MOD HD BLKY OP VOLCANICLASTIC /*/*QUARTZ GRN CLR CRSGRN ANG-SBANG TOT UNCONS SANDSTONE^

1660 1680 GRANITE WASH
GRN MINERAL COAT OFF WH-WH SLI ORNG SM SLT&PEPP W/ BIOTITE MOD HD BLKY OP VOLCANICLASTIC /*/*QUARTZ GRN CLR CRSGRN ANG-SBANG TOT UNCONS SANDSTONE^

1680 1700 GRANITE WASH
GRN MINERAL COAT OFF WH-WH SLI ORNG SM SLT&PEPP W/ BIOTITE MOD HD BLKY OP VOLCANICLASTIC /*/*QUARTZ GRN CLR CRSGRN ANG-SBANG TOT UNCONS SANDSTONE^

1700 1720 GRANITE WASH
GRN MINERAL COAT OFF WH-WH SLI ORNG SM SLT&PEPP W/ BIOTITE MOD HD BLKY OP VOLCANICLASTIC /*/*QUARTZ GRN CLR CRSGRN ANG-SBANG TOT UNCONS SANDSTONE^

1720 1740 GRANITE WASH
GRN MINERAL COAT OFF WH-WH SLI ORNG SM SLT&PEPP W/ BIOTITE MOD HD BLKY OP VOLCANICLASTIC /*/*QUARTZ GRN CLR CRSGRN ANG-SBANG TOT UNCONS SANDSTONE^

1740 1760 GRANITE WASH

GRN MINERAL COAT OFF WH-WH SLI ORNG SM SLT&PEPP W/ BIOTITE MOD HD BLKY OP VOLCANICLASTIC /*/*QUARTZ GRN CLR CRSGRN ANG-SBANG TOT UNCONS SANDSTONE^

1760 1780 GRANITE WASH
VARICOL VOLCANOCLASTIC LITHIC FRAGS HD SBRND TR LIMESTONE/*SANDSTONE: CLR PSRT CRS-FGRN UNCONS ANG-SBANG TRANSP QTZ OCC WITH BLK INCLUS PARTIALLY WITH FRESH FRAC SHARP EDGES^

1780 1800 GRANITE WASH
VARICOL VOLCANOCLASTIC LITHIC FRAGS HD SBRND TR LIMESTONE/*SANDSTONE: CLR PSRT CRS-FGRN UNCONS ANG-SBANG TRANSP QTZ OCC WITH BLK INCLUS PARTIALLY WITH FRESH FRAC SHARP EDGES^

1800 1820 GRANITE WASH
VARICOLORED VOLCANICS HD BLKY-SBRND OP TR MICA PNK WH TAN HD BLKY CRYPTXLN LIMESTONE: PNK WH TAN HD BLKY CRYPTXLN /*SANDSTONE: CLR WH WSRT F-MEDGRN MODCMT/CALC CMT-UNCONS TRANSP-TRANSL ANG-SBRND QTZ^

1820 1840 GRANITE WASH
VARICOLORED VOLCANICS HD BLKY-SBRND OP TR MICA /*LIMESTONE: PNK WH TAN HD BLKY CRYPTXLN /*SANDSTONE: CLR WH WSRT F-MEDGRN MODCMT/CALC CMT-UNCONS TRANSP-TRANSL ANG-SBRND QTZ^

1840 1860 SANDSTONE
CLR WH WSRT F-MEDGRN MODCMT/CALC CMT-UNCONS TRANSP-TRANSL ANG-SBRND QTZ/*LIMESTONE: PNK WH TAN HD BLKY CRYPTXLN/*VARICOLORED VOLCANICS HD BLKY-SBRND OP TR MICA^

1860 1880 SANDSTONE
CLR WH WSRT F-MEDGRN MODCMT/CALC CMT-UNCONS TRANSP-TRANSL ANG-SBRND QTZ/*LIMESTONE: PNK WH TAN HD BLKY CRYPTXLN/*VARICOLORED VOLCANICS HD BLKY-SBRND OP TR MICA^

1880 1900 SANDSTONE
CLR WH WSRT F-MEDGRN MODCMT/CALC CMT-UNCONS TRANSP-TRANSL ANG-SBRND QTZ/*LIMESTONE: PNK WH TAN HD BLKY CRYPTXLN/*VARICOLORED VOLCANICS HD BLKY-SBRND OP TR MICA^

1900 1920 SANDSTONE
CLR WH WSRT F-MEDGRN MODCMT/CALC CMT-UNCONS TRANSP-TRANSL ANG-SBRND QTZ/*LIMESTONE: PNK WH TAN HD BLKY CRYPTXLN/*VARICOLORED VOLCANICS HD BLKY-SBRND OP TR MICA^

1920 1940 SANDSTONE
CLR WH WSRT F-MEDGRN MODCMT/CALC CMT-UNCONS TRANSP-TRANSL ANG-SBRND QTZ/*LIMESTONE: PNK WH TAN HD BLKY CRYPTXLN/*VARICOLORED VOLCANICS HD BLKY-SBRND OP TR MICA^

1940 1960 SANDSTONE
CLR WH WSRT F-MEDGRN MODCMT/CALC CMT-UNCONS TRANSP-TRANSL ANG-SBRND QTZ/*LIMESTONE: PNK WH TAN HD BLKY CRYPTXLN/*VARICOLORED VOLCANICS HD BLKY-SBRND OP TR MICA^

1960 1980 SANDSTONE

CLR WH WSRT F-MEDGRN MODCMT/CALC CMT-UNCONS TRANSP-TRANSL ANG-SBRND QTZ/*LIMESTONE: OFFWH/WH TAN HD BLKY CRYPTXLN/*VARICOLORED VOLCANICS LT GRY HD BLKY-SBRND OP TR MICA^

1980 2000 SANDSTONE
CLR WH WSRT F-MEDGRN MODCMT/CALC CMT-UNCONS TRANSP-TRANSL ANG-SBRND QTZ/*LIMESTONE: OFFWH/WH TAN HD BLKY CRYPTXLN/*VARICOLORED VOLCANICS LT GRY HD BLKY-SBRND OP TR MICA^

2000 2020 LIMESTONE
OFFWH/WH TAN HD BLKY CRYPTXLN/*SANDSTONE: CLR WH WSRT F-MEDGRN MODCMT/CALC CMT-UNCONS TRANSP-TRANSL ANG-SBRND QTZ/*VARICOLORED VOLCANICS LT GRY HD BLKY-SBRND OP TR MICA^

2020 2040 LIMESTONE
OFFWH/WH TAN HD BLKY CRYPTXLN/*SANDSTONE: CLR WH WSRT F-MEDGRN MODCMT/CALC CMT-UNCONS TRANSP-TRANSL ANG-SBRND QTZ/*VARICOLORED VOLCANICS LT GRY HD BLKY-SBRND OP TR MICA^

2040 2060 GRANITE WASH
VARICOLORED VOLCANICS LT GRY HD BLKY-SBRND OP TR MICA/*LIMESTONE: OFFWH/WH TAN HD BLKY CRYPTXLN/*SANDSTONE: CLR WH WSRT F-MEDGRN UNCONS TRANSP-TRANSL ANG-SBRND QTZ^

2060 2080 GRANITE WASH
VARICOLORED VOLCANICS LT GRY HD BLKY-SBRND OP TR MICA/*LIMESTONE: OFFWH/WH TAN HD BLKY CRYPTXLN/*SANDSTONE: CLR WH WSRT F-MEDGRN UNCONS TRANSP-TRANSL ANG-SBRND QTZ^

2080 2100 GRANITE WASH
VARICOLORED VOLCANICS LT GRY HD BLKY-SBRND OP TR MICA/*LIMESTONE: OFFWH/WH TAN HD BLKY CRYPTXLN/*SANDSTONE: CLR WH WSRT F-MEDGRN UNCONS TRANSP-TRANSL ANG-SBRND QTZ^

2100 2120 GRANITE WASH
LT GRY MED ORNG VOLCANIC LITHICS HD BLKY-SBRND OP TR MICA/*LIMESTONE: OFFWH/WH TAN HD BLKY CRYPTXLN/*SANDSTONE: CLR WH WSRT F-MEDGRN UNCONS TRANSP-TRANSL ANG-SBRND QTZ GRNS^

2120 2140 GRANITE WASH
LT GRY MED ORNG VOLCANIC LITHICS HD BLKY-SBRND OP TR MICA/*LIMESTONE: OFFWH/WH TAN HD BLKY CRYPTXLN/*SANDSTONE: CLR WH WSRT F-MEDGRN UNCONS TRANSP-TRANSL ANG-SBRND QTZ GRNS^

2140 2160 GRANITE WASH
LT GRY MED ORNG VOLCANIC LITHICS HD BLKY-SBRND OP TR MICA/*LIMESTONE: OFFWH/WH TAN HD BLKY CRYPTXLN/*SANDSTONE: CLR WH WSRT F-MEDGRN UNCONS TRANSP-TRANSL ANG-SBRND QTZ GRNS^

2160 2180 GRANITE WASH
LT GRY MED ORNG VOLCANIC LITHICS HD BLKY-SBRND OP TR MICA/*LIMESTONE: OFFWH/WH TAN HD BLKY CRYPTXLN/*SANDSTONE: CLR WH WSRT F-MEDGRN UNCONS TRANSP-TRANSL ANG-SBRND QTZ GRNS^

2180 2200

TRIP TO SWAP MUD MOTORS @ 2,191' @ 9:30 PM ON 9/28/10. RAN SAME BIT BACK IN HOLE. BOB @ 8:10 PM ON 9/28/10^

2200 2220 GRANITE WASH
PNK MOD FRM PEBBL-GRNUL CONGL-MATX SUPPRT/*LIMESTONE: V LT PINK-CRM MOD FRM MICR-CRYP XTL/*SANDSTONE: CLR UNCONSL QTZ GRN V HRD F-MED GRN/*^

2220 2240 GRANITE WASH
PNK MOD FRM PEBBL-GRNUL CONGL-MATX SUPPRT/*LIMESTONE: V LT PINK-CRM MOD FRM MICR-CRYP XTL/*SANDSTONE: CLR UNCONSL QTZ GRN V HRD F-MED GRN/*SHALE: GRN-GRY SLI SFT FRIBL MOD CALC/*^

2240 2260 GRANITE WASH
PNK MOD FRM PEBBL-GRNUL CONGL-MATX SUPPRT/*LIMESTONE: V LT PINK-CRM MOD FRM MICR-CRYP XTL/*SANDSTONE: CLR UNCONSL QTZ GRN V HRD F-MED GRN/*SHALE: GRN-GRY SLI SFT FRIBL MOD CALC/*^

2260 2280 SHALE
GRN-GRY SLI SFT FRIBL MOD CALC/*GRANIT WASH: PNK MOD FRM PEBBL-GRNUL CONGL-MATX SUPPRT/*LIMESTONE: V LT PINK-CRM MOD FRM MICR-CRYP XTL/*^

2280 2300 SHALE
GRN-GRY SLI SFT FRIBL MOD CALC/*GRANIT WASH: PNK MOD FRM PEBBL-GRNUL CONGL-MATX SUPPRT/*LIMESTONE: V LT PINK-CRM MOD FRM MICR-CRYP XTL/*^

2300 2320 SHALE
GRN-GRY SLI SFT FRIBL MOD SLTY MOD CALC/*GRANIT WASH: PNK MOD FRM PEBBL-GRNUL CONGL-MATX SUPPRT/*LIMESTONE: V LT PINK-CRM MOD FRM MICR-CRYP XTL/*^

2320 2340 SHALE
GRN-GRY SLI SFT FRIBL MOD SLTY MOD CALC/*GRANIT WASH: PNK MOD FRM PEBBL-GRNUL CONGL-MATX SUPPRT/*LIMESTONE: V LT PINK-CRM MOD FRM MICR-CRYP XTL/*^

2340 2360 SHALE
GRN-GRY SLI SFT FRIBL MOD SLTY MOD CALC/*GRANIT WASH: PNK MOD FRM PEBBL-GRNUL CONGL-MATX SUPPRT/*LIMESTONE: V LT PINK-CRM MOD FRM MICR-CRYP XTL/*^

2360 2380 SHALE
GRN-GRY SLI SFT FRIBL MOD SLTY MOD CALC/*LIMESTONE: V LT PINK-CRM MOD FRM MICR-CRYP XTL/*^

2380 2400 SHALE
GRN-GRY SLI SFT FRIBL MOD SLTY MOD CALC/*LIMESTONE: V LT PINK-CRM MOD FRM MICR-CRYP XTL/*^

2400 2420 SHALE
GRN MED-DRK GRY SLI SFT/FRIBL BLKY-CHNKY SM SLI SLTY MOD EFF/CALC/*LIMESTONE: PNK-CRM MOD FRM BLKY MICR-CRYP XLN^

2420 2440 SHALE
GRN MED-DRK GRY SLI SFT/FRIBL BLKY-CHNKY SM SLI SLTY MOD EFF/CALC/*LIMESTONE: PNK-CRM MOD FRM BLKY MICR-CRYP XLN^

2440 2460 SHALE
GRN MED-DRK GRY SLI SFT/FRIBL BLKY-CHNKY SM SLI SLTY MOD
EFF/CALC/*LIMESTONE: PNK-CRM MOD FRM BLKY MICR-CRYP XLN^

2460 2480 SHALE
GRN MED-DRK GRY SLI SFT/VRY FRIBL BLKY-CHNKY SMWT SLTY MOD
EFF/CALC/*LIMESTONE: OFF WH SM PNK-CRM MOD FRM BLKY MICR-CRYP XLN^

2480 2500 SHALE
GRN MED-DRK GRY SLI SFT/VRY FRIBL BLKY-CHNKY SMWT SLTY MOD
EFF/CALC/*LIMESTONE: OFF WH SM PNK-CRM MOD FRM BLKY MICR-CRYP XLN^

2500 2520 SHALE
GRN MED-DRK GRY SLI SFT/VRY FRIBL BLKY-CHNKY SMWT SLTY MOD
EFF/CALC/*LIMESTONE: OFF WH SM PNK-CRM MOD FRM BLKY MICR-CRYP XLN^

2520 2540 SHALE
GRN MED-DRK GRY SLI SFT/VRY FRIBL BLKY-CHNKY SMWT SLTY MOD
EFF/CALC/*LIMESTONE: OFF WH SM PNK-CRM MOD FRM BLKY MICR-CRYP XLN^

2540 2560 SHALE
GRN MED-DRK GRY SLI SFT/VRY FRIBL BLKY-CHNKY SMWT SLTY MOD
EFF/CALC/*LIMESTONE: OFF WH SM PNK-CRM MOD FRM BLKY MICR-CRYP XLN^

2560 2580 SHALE
OFF WHT-V LT GRY SLI SFT/VV FRIBL BLKY-CHNKY SMWT SLTY TR
EFF/*LIMESTONE: OFF WH SM PNK-CRM MOD FRM BLKY MICR-CRYP
XLN/*SANDSTONE: CLR OFF WHT HRD TRANSL-MLKY NO EFF^

2580 2600 SHALE
OFF WHT-V LT GRY SLI SFT/VV FRIBL BLKY-CHNKY SMWT SLTY TR
EFF/*LIMESTONE: OFF WH SM PNK-CRM MOD FRM BLKY MICR-CRYP
XLN/*SANDSTONE: CLR OFF WHT HRD TRANSL-MLKY NO EFF^

2600 2620 SHALE
OFF WHT-PNK/CRM VV SFT/FRIBL BLKY-CHNKY MOTTL SM SLTY TR
EFF/*LIMESTONE: OFF WH SM PNK-CRM MOD FRM BLKY MICR-CRYP
XLN/*SANDSTONE: CLR OFF WHT HRD TRANSL-MLKY NO EFF^

2620 2640 SHALE
OFF WHT-PNK/CRM VV SFT/FRIBL BLKY-CHNKY MOTTL SM SLTY TR
EFF/*LIMESTONE: OFF WH SM PNK-CRM MOD FRM BLKY MICR-CRYP
XLN/*SANDSTONE: CLR OFF WHT HRD TRANSL-MLKY NO EFF^

2640 2660 SHALE
OFF WHT-PNK/CRM VV SFT/FRIBL BLKY-CHNKY MOTTL SM SLTY TR
EFF/*LIMESTONE: OFF WH SM PNK-CRM MOD FRM BLKY MICR-CRYP
XLN/*SANDSTONE: CLR OFF WHT HRD TRANSL-MLKY NO EFF^

2660 2680 SHALE
OFF WHT-V LT GRY SLI SFT/VV FRIBL BLKY-CHNKY SMWT SLTY TR
EFF/*LIMESTONE: OFF WH SM PNK-CRM MOD FRM BLKY MICR-CRYP
XLN/*SANDSTONE: CLR OFF WHT HRD TRANSL- MLKY NO EFF^

2680 2700 SHALE

OFF WHT-V LT GRY SLI SFT/VV FRIBL BLKY-CHNKY SMWT SLTY TR EFF/*LIMESTONE: OFF WH SM PNK-CRM MOD FRM BLKY MICR-CRYP XLN/*SANDSTONE: CLR OFF WHT HRD TRANSL- MLKY NO EFF^

2700 2720 SHALE
OFF WHT-V LT GRY SLI SFT/VV FRIBL BLKY-CHNKY SMWT SLTY TR EFF/*LIMESTONE: OFF WH SM PNK-CRM MOD FRM BLKY MICR-CRYP XLN/*SANDSTONE: CLR OFF WHT HRD TRANSL- MLKY NO EFF^

2720 2740 SHALE
MED-DRK GRN/ MED GRY REL FRM FRIBL BLKY-CHNKY MOD SLTY/*LIMESTONE: OFF WH SM PNK-CRM MOD FRM BLKY MICR-CRYP XLN/*SANDSTONE: CLR OFF WHT HRD TRANSL- MLKY NO EFF^

2740 2760 SHALE
MED-DRK GRN/ MED GRY REL FRM FRIBL BLKY-CHNKY MOD SLTY/*LIMESTONE: OFF WH SM PNK-CRM MOD FRM BLKY MICR-CRYP XLN/*SANDSTONE: CLR OFF WHT HRD TRANSL- MLKY NO EFF^

2760 2780 SHALE
MED-DRK GRN/ MED GRY REL FRM FRIBL MOTTL BLKY-CHNKY MOD SLTY/*LIMESTONE: OFF WH SM PNK-CRM MOD FRM BLKY MICR-CRYP XLN/*SANDSTONE: CLR OFF WHT HRD TRANSL- MLKY NO EFF^

2780 2800 SHALE
MED-DRK GRN/ MED GRY REL FRM FRIBL MOTTL BLKY-CHNKY MOD SLTY/*LIMESTONE: OFF WH SM PNK-CRM MOD FRM BLKY MICR-CRYP XLN/*SANDSTONE: CLR OFF WHT HRD TRANSL- MLKY NO EFF^

2800 2820 SHALE
MED-DRK GRN/MED-DRK GRY REL SFT FRIBL MOTTL BLKY-CHNKY MOD SLTY V EFF/*LIMESTONE: OFF WH SM PNK-CRM MOD FRM BLKY MICR-CRYP XLN^

2820 2840 SHALE
MED-DRK GRN/MED-DRK GRY REL SFT FRIBL MOTTL BLKY-CHNKY MOD SLTY V EFF/*LIMESTONE: OFF WH SM PNK-CRM MOD FRM BLKY MICR-CRYP XLN^

2840 2860 SHALE
MED-DRK GRN/MED-DRK GRY REL SFT FRIBL MOTTL BLKY-CHNKY MOD SLTY V EFF/*LIMESTONE: OFF WH SM PNK-CRM MOD FRM BLKY MICR-CRYP XLN^

2860 2880 SHALE
MED-DRK GRN/MED-DRK GRY REL SFT FRIBL MOTTL BLKY-CHNKY MOD SLTY V EFF/*LIMESTONE: OFF WH SM PNK-CRM MOD FRM BLKY MICR-CRYP XLN^

2880 2900 SHALE
MED-DRK GRN/MED-DRK GRY REL SFT FRIBL MOTTL BLKY-CHNKY MOD SLTY V EFF/*LIMESTONE: OFF WH SM PNK-CRM MOD FRM BLKY MICR-CRYP XLN^

2900 2920 SHALE
MED-DRK GRN/DRK GRY SM PNK REL SFT FRIBL MOTTL BLKY-CHNKY MOD SLTY V EFF/*LIMESTONE: OFF WH SM PNK-CRM MOD FRM BLKY MICR-CRYP XLN^

2920 2940 SHALE
MED-DRK GRN/DRK GRY SM PNK REL SFT FRIBL MOTTL BLKY-CHNKY MOD SLTY V EFF/*LIMESTONE: OFF WH SM PNK-CRM MOD FRM BLKY MICR-CRYP XLN^

2940 2960 SHALE
MED-DRK GRN/DRK GRY SM PNK REL SFT FRIBL MOTTL BLKY-CHNKY MOD SLTY V EFF/*LIMESTONE: OFF WH SM PNK-CRM MOD FRM BLKY MICR-CRYP XLN^

2960 2980 SHALE
MED-DRK GRN/DRK GRY SM PNK REL SFT FRIBL MOTTL BLKY-CHNKY MOD SLTY V EFF/*LIMESTONE: OFF WH SM PNK-CRM MOD FRM BLKY MICR-CRYP XLN^

2980 3000 SHALE
MED-DRK GRN/DRK GRY SM PNK REL SFT FRIBL MOTTL BLKY-CHNKY MOD SLTY V EFF/*LIMESTONE: OFF WH SM PNK-CRM MOD FRM BLKY MICR-CRYP XLN^

3000 3020 SHALE
PNK-CREAM/TAN SM LT-MED GRY V SFT/V FRIBL MOTTL BLKY-CHNKY MOD ARG V EFF/*LIMESTONE: OFF WH/BRT WHT SM PNK-CRM MOD FRM BLKY MICR-CRYP XLN^

3020 3040 SHALE
PNK-CREAM/TAN SM LT-MED GRY V SFT/V FRIBL MOTTL BLKY-CHNKY MOD ARG V EFF/*LIMESTONE: OFF WH/BRT WHT SM PNK-CRM MOD FRM BLKY MICR-CRYP XLN^

3040 3060 SHALE
PNK-CREAM/TAN SM LT-MED GRY V SFT/V FRIBL MOTTL BLKY-CHNKY MOD ARG V EFF/*LIMESTONE: OFF WH/BRT WHT SM PNK-CRM MOD FRM BLKY MICR-CRYP XLN^

3060 3080 SHALE
PNK-CREAM/TAN SM LT-MED GRY V SFT/V FRIBL MOTTL BLKY-CHNKY MOD ARG V EFF/*LIMESTONE: OFF WH/BRT WHT SM PNK-CRM MOD FRM BLKY MICR-CRYP XLN^

3080 3100 SHALE
PNK-CREAM/TAN SM LT-MED GRY V SFT/V FRIBL MOTTL BLKY-CHNKY MOD ARG V EFF/*LIMESTONE: OFF WH/BRT WHT SM PNK-CRM MOD FRM BLKY MICR-CRYP XLN^

3100 3120 SHALE
PNK-CREAM/TAN SM LT-MED GRY/GRN V SFT/V FRIBL MOTTL BLKY-CHNKY MOD ARG V EFF/*LIMESTONE: OFF WH/BRT WHT SM PNK-CRM SLI FRM BLKY MICR-CRYP XLN^

3120 3140 SHALE
PNK-CREAM/TAN SM LT-MED GRY/GRN V SFT/V FRIBL MOTTL BLKY-CHNKY MOD ARG V EFF/*LIMESTONE: OFF WH/BRT WHT SM PNK-CRM SLI FRM BLKY MICR-CRYP XLN^

3140 3160 SHALE
PNK-CREAM/TAN SM LT-MED GRY/GRN V SFT/V FRIBL MOTTL BLKY-CHNKY MOD ARG V EFF/*LIMESTONE: OFF WH/BRT WHT SM PNK-CRM SLI FRM BLKY MICR-CRYP XLN^

3160 3180 SHALE
PNK-CREAM/TAN SM LT-MED GRY/GRN V SFT/V FRIBL MOTTL BLKY-CHNKY MOD ARG V EFF/*LIMESTONE: OFF WH/BRT WHT SM PNK-CRM SLI FRM BLKY MICR-CRYP XLN^

3180 3200 SHALE

PNK-CREAM/TAN SM LT-MED GRY/GRN V SFT/V FRIBL MOTTL BLKY-CHNKY MOD ARG V EFF/*LIMESTONE: OFF WH/BRT WHT SM PNK-CRM SLI FRM BLKY MICR-CRYP XLN^

3200 3220 SHALE
PNK-CREAM/TAN SM LT-MED GRY/GRN V SFT/V FRIBL MOTTL BLKY-CHNKY MOD ARG V EFF/*LIMESTONE: OFF WH/BRT WHT SM PNK-CRM SLI FRM BLKY MICR-CRYP XLN^

3220 3240 SHALE
PNK-CREAM/TAN SM LT-MED GRY/GRN V SFT/V FRIBL MOTTL BLKY-CHNKY MOD ARG V EFF/*LIMESTONE: OFF WH/BRT WHT SM PNK-CRM SLI FRM BLKY MICR-CRYP XLN^

3240 3260 SHALE
PNK-CREAM/TAN SM LT-MED GRY/GRN V SFT/V FRIBL MOTTL BLKY-CHNKY MOD ARG V EFF/*LIMESTONE: OFF WH/BRT WHT SM PNK-CRM SLI FRM BLKY MICR-CRYP XLN^

3260 3280 SHALE
CREAM/TAN SM LT-MED GRY/GRN V SFT/V FRIBL MOTTL BLKY-CHNKY MOD ARG V EFF/*LIMESTONE: OFF WH/BRT WHT SM PNK-CRM SLI FRM BLKY MICR-CRYP XLN^

3280 3300 SHALE
CREAM/TAN SM LT-MED GRY V SFT/V FRIBL MOTTL BLKY-CHNKY MOD ARG V EFF/*LIMESTONE: OFF WH-MED GRY SM PNK-CRM REL FRM BLKY VF-MICR XLN^

3300 3320 LIMESTONE
OFF WH-MED GRY SM PNK-CRM REL FRM BLKY VF-MICR XLN/*SHALE: CREAM/TAN SM LT-MED GRY/GRN SFT MOTTL BLKY-CHNKY MOD ARG V EFF^

3320 3340 LIMESTONE
OFF WH-MED GRY SM PNK-CRM REL FRM BLKY VF-MICR XLN/*SHALE: CREAM/TAN SM LT-MED GRY/GRN SFT MOTTL BLKY-CHNKY MOD ARG V EFF^

3340 3360 LIMESTONE
OFF WH-MED GRY SM PNK-CRM REL FRM BLKY VF-MICR XLN/*SHALE: CREAM/TAN SM LT-MED GRY/GRN SFT MOTTL BLKY-CHNKY MOD ARG V EFF^

3360 3380 LIMESTONE
OFF WH-MED GRY SM PNK-CRM REL FRM BLKY VF-MICR XLN/*SHALE: CREAM/TAN SM LT-MED GRY/GRN SFT MOTTL BLKY-CHNKY MOD ARG V EFF^

3380 3400 LIMESTONE
OFF WH-MED GRY SM PNK-CRM REL FRM BLKY VF-MICR XLN/*SHALE: CREAM/TAN SM LT-MED GRY/GRN SFT MOTTL BLKY-CHNKY MOD ARG V EFF^

3400 3420 LIMESTONE
OFF WH-MED GRY SM PNK-CRM REL FRM BLKY VF-MICR XLN/*SHALE: CREAM/TAN SM LT-MED GRY/GRN SFT MOTTL BLKY-CHNKY MOD ARG V EFF^

3420 3440 LIMESTONE
OFF WH-MED GRY SM PNK-CRM REL FRM BLKY VF-MICR XLN/*SHALE: CREAM/TAN SM LT-MED GRY/GRN SFT MOTTL BLKY-CHNKY MOD ARG V EFF^

3440 3460

T.O.O.H. TO SWAP OUT MUD MOTORS @ 3,447' @ 11:50 AM ON 10/1/10. RAN SAME BIT BACK IN HOLE. BOB @ 2:00 AM ON 10/2/10^

3460 3480 LIMESTONE
BRIGT WHT-OFF WHT SM PNK-CRM REL FRM BLKY VF-MED XLN/*SHALE: CREAM/TAN SM LT-MED GRY/GRN SFT MOTTL BLKY-CHNKY MOD ARG MOD EFF^

3480 3500 LIMESTONE
BRIGT WHT-OFF WHT SM PNK-CRM REL FRM BLKY VF-MED XLN GRADING TO SANDY LIMESTONE/*SHALE: CREAM/TAN SM LT-MED GRY/GRN SFT MOTTL BLKY-CHNKY MOD ARG MOD EFF^

3500 3520 LIMESTONE
BRIGT WHT-OFF WHT SM PNK-CRM REL FRM BLKY VF-MED XLN GRADING TO SANDY LIMESTONE/*SHALE: CREAM/TAN SM LT-MED GRY/GRN SFT MOTTL BLKY-CHNKY MOD ARG MOD EFF^

3520 3540 LIMESTONE
BRIGT WHT-OFF WHT SM PNK-CRM REL FRM BLKY VF-MED XLN GRADING TO SANDY LIMESTONE/*SHALE: CREAM/TAN SM LT-MED GRY/GRN SFT MOTTL BLKY-CHNKY MOD ARG MOD EFF^

3540 3560 LIMESTONE
BRIGT WHT-OFF WHT SM PNK-CRM REL FRM BLKY VF-MED XLN GRADING TO SANDY LIMESTONE/*SHALE: CREAM/TAN SM LT-MED GRY/GRN SFT MOTTL BLKY-CHNKY MOD ARG MOD EFF^

3560 3580 SANDSTONE
WH RED GY CLR MODSRT MED-FGRN MODWCMT/CARBONATE CMT ANG-SBRND TRANSP QTZ TR VOLCANICS, PYR, LS, DOLO MINOR SHALE RARE TRANSP-TRANSL MLKYWH-CLR NEAR PERFECT EUHEDRAL DOGTOOTH SPAR CALCITE XLS^

3580 3600 SANDSTONE
WH RED GY CLR MODSRT MED-FGRN MODWCMT/CARBONATE CMT ANG-SBRND TRANSP QTZ TR VOLCANICS, PYR, LS, DOLO /*SHALE: GY REDBRN BLGN WH FRM FISS-SBFISS PLTY-LMPY WH SFT CHLKY CLY POSS KAOLINITE^

3600 3620 SANDSTONE
WH RED GY CLR MODSRT MED-FGRN MODWCMT/CARBONATE CMT ANG-SBRND TRANSP QTZ TR VOLCANICS, PYR, LS, DOLO /*SHALE: GY REDBRN BLGN WH FRM FISS-SBFISS PLTY-LMPY WH SFT CHLKY CLY POSS KAOLINITE^

3620 3640 SANDSTONE
WH-LT GY CLR MODSRT FGRN MODWCMT/CARBONATE CMT ANG-SBRND TRANSP QTZ TR VOLCANICS, PYR/*SHALE: GY BRN BLGN WH FRM FISS-SBFISS PLTY-LMPY WH SFT /*DOLOMITE: OFFWH-LT GRY SLI FRM MOD ARG-SLI SLTY^

3640 3660 SANDSTONE
WH-LT GY CLR MODSRT FGRN MODWCMT/CARBONATE CMT ANG-SBRND TRANSP QTZ TR VOLCANICS, PYR/*SHALE: GY BRN BLGN WH FRM FISS-SBFISS PLTY-LMPY WH SFT /*DOLOMITE: OFFWH-LT GRY SLI FRM MOD ARG-SLI SLTY^

3660 3680 SANDSTONE
WH-LT GY CLR MODSRT FGRN MODWCMT/CARBONATE CMT ANG-SBRND TRANSP QTZ TR VOLCANICS, PYR/*SHALE: GY BRN BLGN WH FRM FISS-SBFISS PLTY-LMPY WH SFT /*DOLOMITE: OFFWH-LT GRY SLI FRM MOD ARG-SLI SLTY^

3680 3700 SANDSTONE
WH-LT GY CLR MODSRT FGRN MODWCMT/CARBONATE CMT ANG-SBRND TRANSP QTZ TR VOLCANICS, PYR/*SHALE: GY BRN BLGN WH FRM FISS-SBFISS PLTY-LMPY WH SFT /*DOLOMITE: OFFWH-LT GRY SLI FRM MOD ARG-SLI SLTY^

3700 3720 SANDSTONE
WH-LT GY CLR MODSRT FGRN MODWCMT/CARBONATE CMT ANG-SBRND TRANSP QTZ TR VOLCANICS, PYR/*DOLOMITE: OFFWH-LT GRY SLI FRM MOD ARG-SLI SLTY/*SHALE: GY GRN WH FRM FISS-SBFISS PLTY-LMPY WH SFT^

3720 3740 SANDSTONE
WH-LT GY CLR MODSRT FGRN MODWCMT/CARBONATE CMT ANG-SBRND TRANSP QTZ TR VOLCANICS, PYR/*DOLOMITE: OFFWH-LT GRY SLI FRM MOD ARG-SLI SLTY/*SHALE: GY GRN WH FRM FISS-SBFISS PLTY-LMPY WH SFT^

3740 3760
T.O.O.H. FOR NEW MUD MOTOR @ 3,754' @ 8:00 AM ON 10/3/10 OBIT#1 MADE 3752' IN 111.8 HRS.NBIT #2: 17.5" HTC MLX-09. BOB @ 11:10 PM ON 10/3/10^

3760 3780 DOLOMITE
OFFWH-LT GRY SLI FRM MOD ARG-SLI SLTY/*SHALE: GY GRN WH FRM FISS-SBFISS PLTY-LMPY WH SFT/*SANDSONE: WH-LT GY CLR MODSRT FGRN MODWCMT/CARBONATE CMT ANG-SBRND TRANSP QTZ TR VOLCANICS^

3780 3800 DOLOMITE
OFFWH-LT GRY SLI FRM MOD ARG-SLI SLTY/*SHALE: GY GRN WH FRM FISS-SBFISS PLTY-LMPY WH SFT/*SANDSONE: WH-LT GY CLR MODSRT FGRN MODWCMT/CARBONATE CMT ANG-SBRND TRANSP QTZ TR VOLCANICS^

3800 3820 SHALE
MED RED-ORNG RED-BRN GY WH FRM FISS-SBFISS PLTY-LMPY VCALC/DOLOMITIC/*SANDSONE: WH-LT GY CLR MODSRT FGRN MODWCMT/CARBONATE CMT ANG-SBRND TRANSP QTZ^

3820 3840 SHALE
MED RED-ORNG RED-BRN GY WH FRM FISS-SBFISS PLTY-LMPY VCALC/DOLOMITIC/*SANDSONE: WH-LT GY CLR MODSRT FGRN MODWCMT/CARBONATE CMT ANG-SBRND TRANSP QTZ^

3840 3860 SHALE
MED RED-ORNG RED-BRN GY WH FRM FISS-SBFISS PLTY-LMPY VCALC/DOLOMITIC/*SANDSONE: WH-LT GY CLR MODSRT FGRN MODWCMT/CARBONATE CMT ANG-SBRND TRANSP QTZ^

3860 3880 SHALE
RED PURPLE YEL WH ORANGE FRM-CHLKY SBFISS-FISS LMPY-SHARDY VCALC/DOLOMITIC. SANDSTONE: RED YEL WH CLR MODSRT F-MEDGRN WCMT/DOLO-CALC CMT OP MATRIX TRANSP-TRANSL ANG-SBANG QTZ CLASTS^

3880 3900 SHALE
RED PURPLE YEL WH ORANGE FRM-CHLKY SBFISS-FISS LMPY-SHARDY VCALC/DOLOMITIC. SANDSTONE: RED YEL WH CLR MODSRT F-MEDGRN WCMT/DOLO-CALC CMT OP MATRIX TRANSP-TRANSL ANG-SBANG QTZ CLASTS^

3900 3920

T.O.O.H. FOR NEW BIT @ 3,907' @ 7:20 PM ON 10/4/10. RRBIT #1, OBIT#2 MADE 155' IN 21 HRS. B.O.B. @ 7:00 AM ON 10/5/10^

3920 3940 SHALE
RED PURPL OFFWH ORNG FRM-CHLKY SBFISS-FISS LMPY-SHARDY VCALC/DOLOMITIC. /*SANDSTONE: RED YEL WH CLR MODSRT F-MEDGRN WCMT/DOLO-CALC CMT OP MATRIX TRANSP-TRANSL ANG-SBANG QTZ CLASTS^

3940 3960 SHALE
RED PURPL OFFWH ORNG FRM-CHLKY SBFISS-FISS LMPY-SHARDY VCALC/DOLOMITIC. /*SANDSTONE: RED YEL WH CLR MODSRT F-MEDGRN WCMT/DOLO-CALC CMT OP MATRIX TRANSP-TRANSL ANG-SBANG QTZ CLASTS^

3960 3980 DOLOMITE
GY GYBRN HD MASS CRYPTXLN BLKY-PLTY MARLY. MINOR WH CHLKY CRYPTXLN LIMESTONE & REDBED SANDSTONES AND SHALES^

3980 4000 DOLOMITE
GY GYBRN HD MASS CRYPTXLN BLKY-PLTY MARLY. MINOR WH CHLKY CRYPT-MICROXLN LIMESTONE & REDBED SANDSTONES AND SHALES TR PYR^

4000 4020 DOLOMITE
GY HD BLKY-PLTY MARLY CRYPTXLN MINOR WH CHLKY-XLN LIMESTONE TR SHALE & SANDSTONE^

4020 4040 SANDSTONE
WH RED GY CLR MODCMT CALC F-VFGRN. SHALE: RED WH YEL GY CALC LMPY MODFRM SBFISS MINOR LIMESTONE & DOLOMITE^

4040 4060 SHALE
DKGYBRN HD SHARDY CRYPTXLN CALC DOLOMITIC MINOR WH CHLKY LIMESTONE TR SANDSTONE^

4060 4080 SHALE
DKGYBRN HD SHARDY CRYPTXLN CALC DOLOMITIC MINOR WH CHLKY LIMESTONE TR SANDSTONE^

4080 4100 SHALE
DKGYBRN HD SHARDY CRYPTXLN CALC DOLOMITIC MINOR WH CHLKY LIMESTONE TR SANDSTONE^

4100 4120 SHALE
DKGYBRN HD SHARDY CRYPTXLN CALC DOLOMITIC MINOR WH CHLKY LIMESTONE^

4120 4140 SHALE
DKGY MEDGRY REL SFT SHARDY CRYPTXLN V CALC DOLOMITIC MINOR WH CHLKY LIMESTONE TR COAL^

4140 4160 SHALE
DKGY MEDGRY REL SFT SHARDY CRYPTXLN V CALC DOLOMITIC MINOR WH CHLKY LIMESTONE TR COAL^

4160 4180 SHALE
DKGY MEDGRY SFT-SLI FRM CHNKY CRYPTXLN V CALC DOLOMITIC MINOR WH CHLKY LIMESTONE^

4180 4200 SHALE
DKGY MEDGRY VSFT CHNKY CRYPTXLN V CALC DOLOMITIC MINOR WH CHLKY LIMESTONE^

4200 4220 SHALE
LTGY-DKGYBRN SFT SOL LMPY NFISS-HD SHARDY FISS VCALC/DOLOMITIC MINOR WH SFT CHLKY LMPY-WH XLN HD LIMESTONE & PNK GYBRN TRANSL-OP HD BLKY CRYPTXLN DOLOMITE^

4220 4240 SHALE
LTGY-DKGYBRN SFT SOL LMPY NFISS-HD SHARDY FISS VCALC/DOLOMITIC MINOR WH SFT CHLKY LMPY-WH XLN HD LIMESTONE & PNK GYBRN TRANSL-OP HD BLKY CRYPTXLN DOLOMITE^

4240 4260 DOLOMITE
TAN HD BLKY-SHARDY CRYPTXLN MASS DNS TR MICROVEINS/WH XLN FILL/*SHALE: LTGY-DKGYBRN SFT SOL LMPY NFISS-HD SHARDY FISS VCALC/DOLOMITIC MINOR WH SFT CHLKY LMPY-WH XLN HD LIMESTONE^

4260 4280 DOLOMITE
WH/GY OOLITIC HD PLTY MIXED/ANG XL FRAG CLASTS/*SHALE: LTGY-DKGYBRN SFT SOL LMPY NFISS-HD SHARDY FISS VCALC/DOLOMITIC MINOR WH SFT CHLKY LMPY-WH XLN HD LIMESTONE^

4280 4300 SHALE
RIG SERVICE @ 6:10 PM ON 10/6/10 TO WORK ON MUD PUMPS. PUMPS FIXED BOB@ 2:40 AM ON 10/7/10/*/*LT GRN ORNG/BRN MED GRY MOD SFT FISS PLTY MOD EFF W/ OOLITIC DOLOMITE^

4300 4320 DOLOMITE
LT PNK-TAN WHT-OFF WHT MOD FRM-SLI HRD MICR-CRYPT XLN TRANSLC MINOR OOLITIC DOLOMITE/*TRIP FOR NBIT/MUDMOTOR @ 4313' @ 2:00 PM ON 10/7/10. OBIT#1 MADE 3393' IN 148.3 HRS. NBIT#3:/*17.5" STC SDS-716 PDC BOB@ 7:53 PM ON 10/8/10^

4320 4340 SHALE
REDSH BRN-LTORNG MED GRY/OFFWHT MOD SFT-SLI FRM BLKY-PLTY VARG SLI EFF/*DOLOMITE: LTPNK-TAN OFF WHT MOD FRM MICR XLN TRANSLC/*/*^

4340 4360
TRIP TO RUN SURF CSG @ 2:00 PM ON 10/10/10 @ 4345'. SET 13.375" 68# J-55 CSG @ 4340'.RIH/NBIT#4:12.25" STC FDS&C PP0693 MILL TOOTH TO DRL OUT CMT.OBIT#3 MADE 3933' IN 148.3 HRS.BOB@ 2:30 PM ON 10/14/10.POOH@ 4357' FOR OILBASED MUD CHANGEOVER.^

4360 4380
NBIT#5:12.25" HTC HCD 505 ZX PDC. BOB@ 9:05AM ON 10/17/10. SHALE: LTGY FRM-MODSFT CALC DOLOMITIC TR WH GYPSUM.^

4380 4400 SHALE
LTGY FRM-MODSFT CALC DOLOMITIC TR WH GYPSUM.^

4400 4420 SHALE
LTGY COM SPECKLED/WH MODFRM SLI CALC FISS-SBFISS MICROLAM-SBBLKY TR SANDSTONE, LIMESTONE, DOLOMITE, & GYPSUM^

4420 4440 SHALE
LTGY COM SPECKLED/WH MODFRM SLI CALC FISS-SBFISS MICROLAM-SBBLKY TR SANDSTONE, LIMESTONE, DOLOMITE, & GYPSUM^

4440 4460 SANDSTONE
LTGY/WH BLK SPECKLES COM VSHLY MED-FGRN MODSRT SOME CRS GRNS MODCMT TR GYPSUM MINOR LTGY FRM FISS SHALE^

4460 4480 SANDSTONE
LTGY/WH BLK SPECKLES COM VSHLY MED-FGRN MODSRT SOME CRS GRNS MODCMT TR GYPSUM MINOR LTGY FRM FISS SHALE^

4480 4500 DOLOMITE
MEDGYBRN HD DNS MASS CRYPTXLN OP TR GY WH TRANSL TR LIMESTONE & MEDGY FRM FISS MICROLAM SHALE^

4500 4520 DOLOMITE
MEDGYBRN HD DNS MASS CRYPTXLN OP TR GY WH TRANSL TR LIMESTONE & MEDGY FRM FISS MICROLAM SHALE^

4520 4540 SHALE
MED-LTBRNGRY MODFRM BLKY-CHNKY FISS MICROLAM MOD EFF/*DOLOMITE: MEDGRYBRN SMWT HRD MASS CRYPTOXLN^

4540 4560 DOLOMITE
MEDGYBRN HD DNS MASS CRYPTXLN OP TR GY WH TRANSL LIMESTONE^

4560 4580 DOLOMITE
MEDGYBRN HD DNS MASS CRYPTXLN OP GRADING TO GY WH TRANSL LIMESTONE TR PYRITE^

4580 4600 DOLOMITE
MEDGYBRN HD DNS MASS CRYPTXLN OP GRADING TO LTGY-OFFWH SLI TRANSL LIMESTONE/*SHALE: LTBRN-SLIYELLOW, VV SFT, BLKY, SMWT SLTY^

4600 4620 SHALE
GYBRN FRM FISS-SBFISS MICROLAM-SPLINTERY VDOLOMITIC TR SANDSTONELIMESTONE OCC TR PYR/*DOLOMITE: GYBRN HD BLKY CRYPTXLN MASS DNS TR CALC FILLED MICROVEINS.^

4620 4640 SHALE
GYBRN FRM FISS-SBFISS MICROLAM-SPLINTERY VDOLOMITIC TR SANDSTONELIMESTONE OCC TR PYR/*DOLOMITE: GYBRN HD BLKY CRYPTXLN MASS DNS TR CALC FILLED MICROVEINS.^

4640 4660 DOLOMITE
GYBRN HD BLKY CRYPTXLN MASS DNS TR CALC FILLED MICROVEINS. /*SHALE: GYBRN FRM FISS-SBFISS MICROLAM-SPLINTERY VDOLOMITIC TR SANDSTONELIMESTONE OCC TR PYR^

4660 4680 DOLOMITE
GYBRN HD BLKY CRYPTXLN MASS DNS TR CALC FILLED MICROVEINS. /*SHALE: GYBRN FRM FISS-SBFISS MICROLAM-SPLINTERY VDOLOMITIC TR SANDSTONELIMESTONE OCC TR PYR^

4680 4700 SHALE

GYBRN FRM FISS-SBFISS MICROLAM-SPLINTERY VDOLOMITIC TR SANDSTONELIMESTONE OCC TR PYR/*DOLOMITE: GYBRN HD BLKY CRYPTXLN MASS DNS TR CALC FILLED MICROVEINS.^

4700 4720 SHALE
REDBRN FRM FISS-SBFISS PLTY-FLAKY. /*DOLOMITE: GY HD BLKY CRYPTXLN TR SANDSTONE^

4720 4740 SHALE
REDBRN FRM FISS-SBFISS PLTY-FLAKY. /*DOLOMITE: GY HD BLKY CRYPTXLN TR SANDSTONE^

4740 4760 DOLOMITE
GY HD BLKY CRYPTXLN MINOR TRANSP CRS HALITE XLS /*SHALE: LTGY DOLOMITIC FRM FISS MICROLAM^

4760 4780 DOLOMITE
GY HD BLKY CRYPTXLN MINOR TRANSP CRS HALITE XLS /*SHALE: LTGY DOLOMITIC FRM FISS MICROLAM^

4780 4800 SANDSTONE
LTGY DOLOMITIC WSRT FGRN MODCMT TR LTGY SHALE^

4800 4820 SANDSTONE
LTGY DOLOMITIC WSRT VFGRN MODCMT/CALCAREOUS CMT MODEFF GRADING TO/*SHALE: LT-MEDGY SFT-SLIFRM BLKY-CHNKY MOTTL MOD SLTY^

4820 4840 SANDSTONE
LTGY DOLOMITIC WSRT VFGRN MODCMT/CALCAREOUS CMT MODEFF GRADING TO/*SHALE: LT-MEDGY SFT-SLIFRM BLKY-CHNKY MOTTL MOD SLTY^

4840 4860 SANDSTONE
LTGY DOLOMITIC WSRT VFGRN MODCMT/CALCAREOUS CMT MODEFF GRADING TO/*SHALE: LT-MEDGY SFT-SLIFRM BLKY-CHNKY MOTTL MOD SLTY/*DOLOMITE: MEDBRN LT-MED GRY MOD FRM PLTY-SPLNTRY^

4860 4880 SANDSTONE
LTGY DOLOMITIC WSRT VFGRN MODCMT/CALCAREOUS CMT MODEFF GRADING TO/*SHALE: LT-MEDGY SFT-SLIFRM BLKY-CHNKY MOTTL MOD SLTY/*DOLOMITE: MEDBRN LT-MED GRY MOD FRM PLTY-SPLNTRY^

4880 4900 DOLOMITE
MEDBRN LT-MED GRY MOD FRM PLTY-SPLNTRY MOTTL MOD ARG OOLITIC^

4900 4920 DOLOMITE
LT-MED GRY SM TAN MOD FRM BLKY MASS MOTTL OOLITIC^

4920 4940 SHALE
MEDGY LTBRN REL FRM CRNCHY MODPLTY-SBBLKY MOTTL VCALC GRADING TO LT-MEDGRY MOTTL DOLOMITE^

4940 4960 SHALE
LTBRN-TAN/CREAM FRM BUT FRIBL PLTY-SBBLKY MOTTL VCALC GRADING TO LTGRY MOTTL DOLOMITE-SM SLI TRANSL^

4960 4980 DOLOMITE

LT-MED GRY SM TAN MOD FRM BLKY MASS MOTTL MINOR LIMESTONE & ANHYDRITE/*SHALE: MEDGY LTBRN REL FRM CRNCHY MODPLTY-SBBLKY MOTTL VCALC^

4980 5000 DOLOMITE
LT-MED GRY SM TAN MOD FRM BLKY MASS MOTTL MINOR LIMESTONE & ANHYDRITE/*SHALE: MEDGY LTBRN REL FRM CRNCHY MODPLTY-SBBLKY MOTTL VCALC^

5000 5020 DOLOMITE
GYBRN WH GY HD BLKY-SPLINTERY CRYPTXLN DNS MASS CALC IP /*SANDSTONE: GYWH MOTT/BLK WSRT VFGRN MODWCMT DOLOMITIC. /*SHALE: GYBRN FRM FISS-SBFISS MICROLAM-FLAKY^

5020 5040 SHALE
REDBRN BRN FRM FISS SIL PLTY-SBBLKY TR SPLINTERY MINOR GYBRN DOLOMITE, WH CLR ANHYDRITE/GYPSUM^

5040 5060 SHALE
REDBRN BRN FRM FISS SIL PLTY-SBBLKY TR SPLINTERY MINOR GYBRN DOLOMITE, WH CLR ANHYDRITE/GYPSUM^

5060 5080 SHALE
REDBRN BRN FRM FISS SIL PLTY-SBBLKY TR SPLINTERY /*DOLOMITE: GYBRN HD DNS MASS CRYPTXLN^

5080 5100 DOLOMITE
GYBRN WH GY HD BLKY-SPLINTERY CRYPTXLN DNS MASS CALC IP /*SANDSTONE: GYWH MOTT/BLK WSRT VFGRN MODWCMT DOLOMITIC. /*SHALE: GYBRN FRM FISS-SBFISS MICROLAM-FLAKY^

5100 5120 SHALE
LT-MED GRY OFFWHT MODFRM-SLIHRD BLKY-SBPLTY & SM SPLNTRY MOTTL V EFF GRADING TO A SHALEY DOLOMITE^

5120 5140 SHALE
LT-MED GRY OFFWHT MODFRM-SLIHRD BLKY-SBPLTY & SM SPLNTRY MOTTL V EFF GRADING TO A SHALEY DOLOMITE^

5140 5160 SHALE
LT-MED GRY OFFWHT-SLI TAN/CREAM SBFRM BLKY-SBPLTY & SM SPLNTRY MOTTL V EFF MOD DOLOMITIC/*TRIP FOR RIG SERVICE @ 5160' @ 310PM ON 10/20/10 CHANGE MUDPUMP LINERS TO 6". BOB @ 3:10AM/*ON 10/21/10^

5160 5180 SHALE
LT-MED GRY OFFWHT-SLI TAN/CREAM SBFRM BLKY-SBPLTY & SM SPLNTRY MOTTL V EFF MOD DOLOMITIC^

5180 5200 SHALE
LT-MED GRY SLI TAN/CREAM SBFRM-FRM SBBLKY-SBPLTY MOTTL VARG SLI FISS VF LAMS MOD EFF/DOLOMITIC^

5200 5220 SHALE
MED-DRK GRY SM TAN/CREAM REL FRM BLKY-SBPLTY MOD ARG V CALC GRADING TO DENSE CRYPTOXLN OOLITIC DOLOMITE^

5220 5240 SHALE
RED/ORNG MED-DRK GRY SM TAN/CREAM REL FRM-SLI SFT BLKY PLTY MOD ARG-SLI SLTY V ARG/*MED-DRK GRY MOD FRM BLKY MOTTL TR OOIDS TR SANDSTONE^

5240 5260 SANDSTONE
LTGY WSRT VFGRN MODWCMT CALC TR GYBRN DOLOMITIC SHALE^

5260 5280 DOLOMITE
GYBRN HD SHALY IP MASS DNS CRYPTXLN MINOR INTERBEDS OF WH OP CHLKY GYPSUM TR SHALE, LIMESTONE^

5280 5300 SHALE
DKGYBRN FRM DOLOMITIC AREN IP FISS-SBFISS SPLI9NTERY PLTY -BLKY TR WH LIMESTONE & GY DOLOMITE^

5300 5320 SHALE
GYBRN FRM FISS-SBFISS DOLOMITIC MICROLAM-SPLINTERY, DOLOMITE: GYBRN HD MASS DNS BRIT CRYPTXLN SPL;INTERY-SBBLKY TR WH OP LIMESTONE & LTGY VFGRN WSRT WCMT SANDSTONE^

5320 5340 DOLOMITE
GYBRN HD MASS DNS BRIT CRYPTXLN SPL;INTERY-SBBLKY TR WH OP LIMESTONE & LTGY VFGRN WSRT WCMT SANDSTONE/*SHALE: GYBRN FRM FISS-SBFISS DOLOMITIC MICROLAM-SPLINTERY^

5340 5360 DOLOMITE
GYBRN HD MASS DNS BRIT CRYPTXLN SPL;INTERY-SBBLKY /*SHALE: GYBRN FRM FISS-SBFISS DOLOMITIC MICROLAM-SPLINTERY^

5360 5380 DOLOMITE
GYBRN HD MASS DNS BRIT CRYPTXLN SPL;INTERY-SBBLKY TR WH OP LIMESTONE/*SHALE: GYBRN FRM FISS-SBFISS DOLOMITIC MICROLAM-SPLINTERY^

5380 5400 DOLOMITE
GYBRN HD MASS DNS BRIT CRYPTXLN SPL;INTERY-SBBLKY TR WH OP LIMESTONE/*SHALE: GYBRN FRM FISS-SBFISS DOLOMITIC MICROLAM-SPLINTERY^

5400 5420 DOLOMITE
GYBRN HD MASS DNS BRIT CRYPTXLN SPLINTERY-SBBLKY TR WH OP LIMESTONE/*SHALE: GYBRN FRM FISS-SBFISS DOLOMITIC MICROLAM-SPLINTERY. SHORT TRIP TO CSG SHOE TO FIX #1 MUDPUMP. POOH @ 1:20AM ON 10/22/10. BOB @ 2:45AM ON 10/23/10^

5420 5440 SHALE
MED-DRK GRY MODFRM-SLISFT PLTY-SBBLKY MODARG MOTTL MICROLAM DOLOMITIC/*DOLOMITE: GYBRN HD MASS DNS BRIT CRYPTXLN SPLINTERY-SBBLKY MOD WH OP LIMESTONE^

5440 5460 SHALE
MED-DRK GRY MODFRM-SLISFT PLTY-SBBLKY MODARG MOTTL MICROLAM DOLOMITIC/*DOLOMITE: GYBRN HD MASS DNS BRIT CRYPTXLN SPLINTERY-SBBLKY MOD WH OP LIMESTONE^

5460 5480 DOLOMITE
GYBRN HD MASS DNS BRIT CRYPTXLN SPLINTERY-SBBLKY SLI OOLITIC TR WH OP LIMESTONE/*SHALE: GYBRN FRM FISS-SBFISS DOLOMITIC MICROLAM-SPLINTERY^

5480 5500 SHALE
MED-DRK GRY MODFRM-SLISFT PLTY-SBBLKY MODARG MOTTL MICROLAM DOLOMITIC/*DOLOMITE: GYBRN HD MASS DNS BRIT CRYPTXLN SPLINTERY-SBBLKY MOD WH OP LIMESTONE^

5500 5520 DOLOMITE
GYBRN HD MASS DNS BRIT CRYPTXLN SPLINTERY-SBBLKY SLI OOLITIC TR WH OP LIMESTONE/*SHALE: GYBRN FRM FISS-SBFISS DOLOMITIC MICROLAM-SPLINTERY^

5520 5540 DOLOMITE
GYBRN HD MASS DNS BRIT CRYPTXLN SPLINTERY-SBBLKY SLI OOLITIC TR WH OP LIMESTONE/*SHALE: GYBRN FRM FISS-SBFISS DOLOMITIC MICROLAM-SPLINTERY^

5540 5560 DOLOMITE
MEDDKGY/WH MOTT OOLITIC HD CRYPT-MICROXLN BLKY-SPLINTERY. /*SHALE: GYBRN FRM FISS PLTY-FLAKY TR WH OP LIMESTONE^

5560 5580 DOLOMITE
MEDDKGY/WH MOTT OOLITIC HD CRYPT-MICROXLN BLKY-SPLINTERY. /*SHALE: GYBRN FRM FISS PLTY-FLAKY TR WH OP LIMESTONE^

5580 5600 DOLOMITE
MEDDKGY/WH MOTT OOLITIC HD CRYPT-MICROXLN BLKY-SPLINTERY. /*SHALE: GYBRN FRM FISS PLTY-FLAKY TR WH OP LIMESTONE^

5600 5620 DOLOMITE
MEDDKGY/WH MOTT OOLITIC HD CRYPT-MICROXLN BLKY-SPLINTERY. /*SHALE: GYBRN FRM FISS PLTY-FLAKY TR WH OP LIMESTONE^

5620 5640 DOLOMITE
MEDDKGY/WH MOTT OOLITIC HD CRYPT-MICROXLN BLKY-SPLINTERY. /*SHALE: GYBRN FRM FISS PLTY-FLAKY TR WH OP LIMESTONE^

5640 5660
LOST CIRC/RETURNS @ 5639' @ 8:30 PM ON 10/23/10. POOH TO CSG SHOE. PUMP LCM MIX MUD. #1 MUD PUMP DOWN 10/24-28/10. ON STANDBY 10/25-27/10. DRILL 6' ON 10/27/10. BOB @ 4:30 PM ON 10/28/10^

5660 5680 DOLOMITE
MOTT BRNWH BRN OOLITIC HD BRIT CRYPTXLN DOLOMITE TR WH XLN OP LS MICROVEIN FILL/INTERSTITUAL CMT FOR OOLITES. /*SANDSTONE: GYWH WSRT VFGRN DOLOMITIC CALC.^

5680 5700 SANDSTONE
GYWH WSRT VFGRN DOLOMITIC CALC.BLKY^

5700 5720 SANDSTONE
GYWH MODSFT WSRT VFGRN DOLOMITIC CALC BLKY^

5720 5740 SANDSTONE
GYWH MODSFT WSRT VFGRN DOLOMITIC CALC BLKY^

5740 5760 SANDSTONE

LT-MEDGRY OFFWHT/CRM SLIFRM VF-FGRN MODSRT MODCARB /*SHALE: LT-MEDGRY LTGRN RED/ORNG MODSFT BLKY-PLTY SLI SLTY/SM ARG MOTTL MODCARB^

5760 5780 SHALE
RED/ORNG LT-MEDGRY MODSFT BLKY-PLTY PRDOM ARG W/ SM SLTY VSLI EFF/*SANDSTONE: OFFWHT/CRM SLIFRM F-MEDGRN SMWT PSRT MODCARB^

5780 5800 SHALE
RED/ORNG LT-MEDGRY MODSFT BLKY-PLTY PRDOM ARG/SM SLTY VSLI EFF W/ WHT LIMESTONE FRAC FILL^

5800 5820 SANDSTONE
PNK WH WSRT VFGRN PCMT VFRI SLI CALC. /*SHALE: REDBRN FRM FISS SIL MICROLAM-PLTY TR LIMESTONE^

5820 5840 SANDSTONE
PNK WH WSRT VFGRN PCMT VFRI SLI CALC. /*SHALE: REDBRN FRM FISS SIL MICROLAM-PLTY^

5840 5860 SHALE
REDBRN SDY IP SIL FRM FISS MICROLAM-PLTY MINOR VFGRN PCMT SANDSTONE^

5860 5880 SANDSTONE
ORANGE PNK WH WSRT VFGRN PCMT VFRI SLI CALC. /*SHALE: REDBRN FRM FISS SIL MICROLAM-PLTY^

5880 5900 SHALE
REDORNGBRN SDY IP SIL MOD SFT MICROLAM-PLTY MINOR VFGRN PCMT SANDSTONE^

5900 5920 SHALE
REDORNG FRM SLIFRBL CHNKY-SBPLTY IPARG/PREDOM SLTY SLI EFF FRAC/FILL LIMESTONE: WHT FRM/FRIBL CHNKY^

5920 5940 SHALE
REDORNG FRM SLIFRBL CHNKY-SBPLTY IPARG/PREDOM SLTY SLI EFF FRAC/FILL LIMESTONE: WHT FRM/FRIBL CHNKY^

5940 5960 SHALE
REDORNG FRM SLIFRBL CHNKY-SBPLTY IPARG/PREDOM SLTY SLI EFF FRAC/FILL LIMESTONE: WHT FRM/FRIBL CHNKY. POOH FOR NTRUTRACK @ 6:20PM ON 10/31/10. LOST CIRC/RETURNS.LD DIR TOOLS, GO IN/BIT & DP, FLOOD HOLE/LCM. BOB @ 3:20AM ON 11/3/10^

5960 5980 SANDSTONE
WH PNK CLR MODWSRT BIMOD: F-MEDGRN WCMT/SIL ANG-SBANG TRANSP QTZ. /*SHALE: DKGY REDBRN FRM FISS-SBFISS SPLINTERY-LMPY SLI CALC/*NOTE: POOR SPLS DUE TO AMT OF LCM^

5980 6000 SANDSTONE
WH PNK CLR MODWSRT BIMOD: F-MEDGRN WCMT/SIL ANG-SBANG TRANSP QTZ. /*SHALE: DKGY REDBRN FRM FISS-SBFISS SPLINTERY-LMPY SLI CALC/*NOTE: POOR SPLS DUE TO AMT OF LCM^

6000 6020 SANDSTONE

LTORNG CLR MODWSRT BIMOD: F-MEDGRN WCMT/SIL ANG-SBANG TRANSP QTZ. /*SHALE: DKGY REDBRN FRM FISS-SBFISS SPLINTERY-LMPY SLI CALC/*NOTE: POOR SPLS DUE TO AMT OF LCM^

6020 6040
TRIP FOR NBIT/LOST CIRC @ 4:20 AM ON 11/4/10 @ 6023'.BIT COMES OUT TRASHED, RIH/MILLTOOTH TRICONE, STC FDS&G PP0693 & JUNK BASKETS TO CLEAN OUT HOLE. DRILL TO 6028'. POOH, GOT JUNK, RIH/TRUTRACK & STC F57 TRICONE BUTTON BIT. BOB @ 2:30PM ON 11/5/10^

6040 6060 SANDSTONE
PNK WH CLR MODSRT MED-FGRN UNCONS-WCMT/CALC CMT RND-SBANG FROS IP TRANSP-TRANSL QTZ TR BLGN REDBRN FRM SBFISS SHALE^

6060 6080 SANDSTONE
PNK WH CLR MODSRT MED-FGRN UNCONS-WCMT/CALC CMT RND-SBANG FROS IP TRANSP-TRANSL QTZ TR BLGN REDBRN FRM SBFISS SHALE^

6080 6100 SANDSTONE
PNK WH CLR MODSRT MED-FGRN WCMT-UNCONS CALC IP RND-SBANG FROS IP TRANSP-TRANSL QTZ TR BLGN REDBRN FRM SBFISS SHALE^

6100 6120 SANDSTONE
PNK/ORNG CLR MODSRT MED-FGRN VWCMT/CALC CMT VW ENDUR RND-SBANG FROS IP TRANSP-TRANSL QTZ. NOTE: HOLE PRESSURING UP WHEN GOING BACK TO BOTTOM ON CONN-RUN HIGH VIS SWEEP TO CLEAN OUT FILL, DOWN 1.5 HRS^

6120 6140 SANDSTONE
ORNG CLR MODSRT MED-FGRN VWCMT/CALC CMT VW ENDUR RND-SBANG FROS IP TRANSP-TRANSL QTZ/*LIMESTONE: PNK/CRM OFWHT HRD BLKY MICRXLN^

6140 6160 SANDSTONE
PNK/ORNG CLR MODSRT MED-FGRN VWCMT/CALC CMT VW ENDUR RND-SBANG FROS IP TRANSP-TRANSL QTZ^

6160 6180 SANDSTONE
PNK/ORNG CLR MODSRT MED-FGRN VWCMT/CALC CMT VW ENDUR RND-SBANG FROS IP TRANSP-TRANSL QTZ^

6180 6200 SANDSTONE
PNK/ORNG CLR MODSRT MED-FGRN VWCMT/CALC CMT VW ENDUR RND-SBANG FROS IP TRANSP-TRANSL QTZ^

6200 6220 SANDSTONE
ORANGE RED PNK WSRT FGRN WCMT SLI CALC SBRND-SBANG TRANSP QTZ HD^

6220 6240 SANDSTONE
ORANGE RED PNK WSRT FGRN WCMT SLI CALC SBRND-SBANG TRANSP QTZ HD^

6240 6260 SANDSTONE
ORANGE RED PNK WSRT FGRN WCMT SLI CALC SBRND-SBANG TRANSP QTZ HD^

6260 6280 SANDSTONE
ORANGE RED PNK WSRT FGRN WCMT SLI CALC SBRND-SBANG TRANSP QTZ HD^

6280 6300 SANDSTONE

ORANGE RED PNK WSRT FGRN WCMT SLI CALC SBRND-SBANG TRANSP QTZ HD^

6300 6320 SANDSTONE
ORANGE RED PNK WSRT FGRN WCMT SLI CALC SBRND-SBANG TRANSP QTZ HD^

6320 6340 SANDSTONE
ORANGE RED PNK WSRT FGRN WCMT SLI CALC SBRND-SBANG TRANSP QTZ HD.TRIP FOR NBIT#8/BHA @ 6338' @ 2:25PM ON 11/8/10.OBIT#7 MADE 312' IN 36.25 HRS.NBIT#8: 12.25" HTC GX28DX TRICONE BUTTON.BOB@ 5:28AM ON 11/9/10.^

6340 6360 SANDSTONE
ORANGE RED PNK WSRT FGRN WCMT SLI CALC SBRND-SBANG TRANSP QTZ HD. TRIPPED FOR NBIT#9/BHA @ 5:30PM ON 11/9/10 @ 6356'. OBIT#8 MADE 18' IN 9.33 HRS. NBIT#9: 12.25" STC F67 TRICONS BUTTON. BOB @ 11:40AM ON 11/10/10.^

6360 6380 SANDSTONE
ORANGE RED PNK WSRT FGRN WCMT SBRND-SBANG CLN QTZ OCC TR DKGY FRM SHARDY FISS DOLOMITIC SHALE & DKGYBRN WCMT OOLITIC DOLOMITE CVGS^

6380 6400 SANDSTONE
ORANGE RED PNK WSRT FGRN WCMT SBRND-SBANG CLN QTZ OCC TR DKGY FRM SHARDY FISS DOLOMITIC SHALE & DKGYBRN WCMT OOLITIC DOLOMITE CVGS^

6400 6420 SANDSTONE
ORANGE RED PNK HRD WSRT F-MEDGRN WCMT RND-SBANG QTZ OCC TR DKGY FRM SHARDY FISS DOLOMITIC SHALE & DKGYBRN WCMT OOLITIC DOLOMITE CVGS^

6420 6440 SANDSTONE
ORANGE RED PNK HRD WSRT FGRN WCMT SBRND-SBANG QTZ OCC TR DKGY FRM SHARDY FISS DOLOMITIC SHALE & DKGYBRN WCMT OOLITIC DOLOMITE CVGS/*SHALE: PINK ORNG MODSFT PLTY NONCALC/EFF^

6440 6460 SANDSTONE
ORANGE RED PNK WSRT FGRN WCMT RND-SBANG CLN QTZ TR-MINOR GY FRM FISS MICROLAM SHALE & TR BRN GYBRN OOLITIC DOLOMITE-CVGS?^

6460 6480 SANDSTONE
ORANGE RED PNK WSRT FGRN WCMT RND-SBANG CLN QTZ TR-MINOR GY FRM FISS MICROLAM SHALE & TR BRN GYBRN OOLITIC DOLOMITE-CVGS?^

6480 6500 SANDSTONE
ORANGE RED PNK WSRT FGRN WCMT RND-SBANG CLN QTZ TR-MINOR GY FRM FISS MICROLAM SHALE & TR BRN GYBRN OOLITIC DOLOMITE-CVGS?^

6500 6520 SANDSTONE
ORANGE RED PNK WSRT FGRN WCMT RND-SBANG CLN QTZ TR-MINOR GY FRM FISS MICROLAM SHALE & TR BRN GYBRN OOLITIC DOLOMITE TR ANHYDRITE SPAR^

6520 6540 SANDSTONE
RED ORANGE WSRT FGRN WCMT CLN TRANSL-TRANSP ANG-SBRND QTZ OCC TR ANHYDRITE, LIMESTONE, SHALE^

6540 6560 SANDSTONE

RED ORANGE WSRT FGRN WCMT CLN TRANSL-TRANSP ANG-SBRND QTZ OCC TR ANHYDRITE, LIMESTONE, SHALE^

6560 6580 SANDSTONE
RED ORANGE WSRT FGRN WCMT CLN TRANSL-TRANSP ANG-SBRND QTZ OCC TR ANHYDRITE, LIMESTONE, SHALE^

6580 6600 SANDSTONE
RED ORANGE WSRT FGRN WCMT CLN TRANSL-TRANSP ANG-SBRND QTZ OCC TR ANHYDRITE, LIMESTONE, SHALE^

6600 6620 SANDSTONE
RED ORANGE RELHRD MODSRT F-MEDGRN WCMT CLN TRANSL-TRANSP ANG-SBRND QTZ OCC TR LIMESTONE/*SHALE: PNK ORNGE MODSFT SLTYIP BLKY-SBPLTY NOEFF^

6620 6640
TRIP FOR NBIT#10 @ 2:00 PM ON 11/13/10 @ 6631'. OBIT#9 MADE 275' IN 67.5 HRS. NBIT#10: 12.25" REED 50 PDH2 TRICONE. BOB @ 5:00 AM ON 11/14/10^

6640 6660 SANDSTONE
RED ORANGE RELHRD MODSRT F-MEDGRN WCMT CLN TRANSL-TRANSP ANG-SBRND QTZ OCC TR LIMESTONE/*SHALE: PNK ORNGE MODSFT SLTYIP BLKY-SBPLTY NOEFF^

6660 6680 SANDSTONE
ORANGE RED WSRT FGRN WCMT TRANSP-TRANSL ANG-SBRND QTZ TR DKGY REDBRN FRM FISS-SBFISS SPLINTERY-LMPY SHALE^

6680 6700 SANDSTONE
ORANGE RED WSRT FGRN WCMT TRANSP-TRANSL ANG-SBRND QTZ TR PNK DKBRN MOD HD BLKY-PLTY MASS DNS-OOLITIC LIMESTONE^

6700 6720 SANDSTONE
ORANGE RED PNK WSRT FGRN WCMT TRANSL-TRANSP ANG-SBRND CLN QTZ TR DKGY FRM FISS SPLINTERY SHALE & WH PNK BRN DNS MASS-OOLITIC LIMESTONE^

6720 6740 SANDSTONE
ORANGE RED PNK WSRT FGRN WCMT TRANSL-TRANSP ANG-SBRND CLN QTZ TR DKGY FRM FISS SPLINTERY SHALE^

6740 6760 SANDSTONE
ORANGE RED PNK PORSRT F-MEDGRN WCMT TRANSL-TRANSP ANG-RND CLN QTZ TR DKGY FRM FISS SHALE^

6760 6780 SANDSTONE
ORANGE RED PNK PORSRT F-MEDGRN WCMT TRANSL-TRANSP ANG-RND CLN QTZ TR DKGY FRM FISS SHALE^

6780 6800 SANDSTONE
ORANGE RED PNK PORSRT F-MEDGRN WCMT-UNCONS TRANSL-TRANSP ANG-RND CLN QTZ TR DKGY FRM FISS SHALE^

6800 6820 SANDSTONE

ORANGE RED WSRT BIMOD MED-FGRN P-WCMT MINOR UNCONS RND-ANG TRANSL-TRANSP CMT INCR-BECOMING HDR TR DKGY FRM FISS SPLINTERY SHALE^

6820 6840 SANDSTONE
ORANGE RED WSRT BIMOD MED-FGRN P-WCMT MINOR UNCONS RND-ANG TRANSL-TRANSP CMT INCR-BECOMING HDR TR DKGY FRM FISS SPLINTERY SHALE^

6840 6860 SANDSTONE
ORANGE RED WSRT BIMOD MED-FGRN P-WCMT MINOR UNCONS RND-ANG TRANSL-TRANSP CMT INCR-BECOMING HDR TR DKGY FRM FISS SPLINTERY SHALE^

6860 6880 SANDSTONE
ORANGE RED PNK WSRT FGRN P-WCMT MINOR UNCONS RND-ANG TRANSL-TRANSP CMT INCR-BECOMING HDR TR DKGY FRM FISS SPLINTERY SHALE^

6880 6900 SANDSTONE
ORANGE RED PNK WSRT FGRN P-WCMT MINOR UNCONS RND-ANG TRANSL-TRANSP CMT INCR-BECOMING HDR TR DKGY FRM FISS SPLINTERY SHALE^

6900 6920 SANDSTONE
ORANGE RED PNK WSRT FGRN P-WCMT MINOR UNCONS RND-ANG TRANSL-TRANSP CMT INCR-BECOMING HDR TR DKGY FRM FISS SPLINTERY SHALE^

6920 6940 SANDSTONE
PINK OFFWHT-CRM FRM-SLIHRD MODWSRT F-MEDGRNP-WCMT RND-SBANG MINOR UNCONS TRANSL-TRANSP CMT INCR-BECOMING HDR TR DKGY FRM FISS SPLINTERY SHALE^

6940 6960 SANDSTONE
PINK OFFWHT-CRM FRM-SLIHRD MODWSRT F-MEDGRNP-WCMT RND-SBANG MINOR UNCONS TRANSL-TRANSP CMT INCR-BECOMING HDR TR DKGY FRM FISS SPLINTERY SHALE^

6960 6980 SANDSTONE
PNK ORANGE RED WSRT FGRN MOD-WCMT COLOR " WASHED OUT" PALE COLOR PCMT, DKR COLOR WCMT ANG-RND TRANSP-TRANSL QTZ^

6980 7000 SANDSTONE
PNK ORANGE RED WSRT FGRN MOD-WCMT COLOR " WASHED OUT" PALE COLOR PCMT, DKR COLOR WCMT ANG-RND TRANSP-TRANSL QTZ TR LTGY BLKY CRYPTXLN-BRN OOLITIC LIMESTONE^

7000 7020 SANDSTONE
PNK ORANGE RED WSRT FGRN MOD-WCMT COLOR " WASHED OUT" PALE COLOR PCMT, DKR COLOR WCMT ANG-RND TRANSP-TRANSL QTZ TR LTGY BLKY CRYPTXLN-BRN OOLITIC LIMESTONE^

7020 7040 SANDSTONE
PNK ORANGE RED WSRT FGRN MOD-WCMT COLOR " WASHED OUT" PALE COLOR PCMT, DKR COLOR WCMT ANG-RND TRANSP-TRANSL QTZ TR LTGY BLKY CRYPTXLN-BRN OOLITIC LIMESTONE^

7040 7060 SANDSTONE
PNK ORANGE RED WSRT FGRN MOD-WCMT COLOR " WASHED OUT" PALE COLOR PCMT, DKR COLOR WCMT ANG-RND TRANSP-TRANSL QTZ TR LTGY BLKY CRYPTXLN-BRN OOLITIC LIMESTONE^

7060 7080 SANDSTONE
PNK ORANGE RED WSRT FGRN MOD-WCMT COLOR " WASHED OUT" PALE COLOR PCMT, DKR COLOR WCMT ANG-RND TRANSP-TRANSL QTZ TR LTGY BLKY CRYPTXLN-BRN OOLITIC LIMESTONE^

7080 7100 SANDSTONE
PNK ORANGE RED WSRT FGRN MOD-WCMT COLOR " WASHED OUT" PALE COLOR PCMT, DKR COLOR WCMT ANG-RND TRANSP-TRANSL QTZ TR LTGY BLKY CRYPTXLN-BRN OOLITIC LIMESTONE^

7100 7120 DOLOMITE
LT-MED GRYBRN MODFRM PLTY-SBSPLNTRY SLITR PYRT INCL OOLITIC DOLOMITE - HGHLY FRCTRD LIMESTONE FRACT FILL.TRIP FOR NBIT#11 @ 8:00AM ON 11/19/10 @ 7,113. OBIT#10 MADE 482' IN 123 HRS. NBIT#11: 12.25" REED R50PDH2 TRICONE. BOB @ 3:30AM ON 11/20/10/*^

7120 7140 DOLOMITE
LT-MED GRYBRN MODFRM PLTY-SBSPLNTRY SLITR PYRT INCL OOLITIC DOLOMITE - HGHLY FRCTRD LIMESTONE FRACT FILL^

7140 7160 LIMESTONE
WH MICROXLN LTGY MOTT WH/GY MICROVEIN FILL./*DOLOMITE: DKGYBRN HD SHARDY-SPLINTERY COM OOLITIC CRYPTXLN^

7160 7180 LIMESTONE
WH MICROXLN LTGY MOTT WH/GY MICROVEIN FILL. /*DOLOMITE: DKGYBRN HD SHARDY-SPLINTERY COM OOLITIC CRYPTXLN/*SANDSTONE: WH LTGY WSRT VFGRN MODCMT CALC ON BORDERLINE BETWEEN SS AND SILTSTONE^

7180 7200 DOLOMITE
DKGYBRN HD SHARDY-SPLINTERY COM OOLITIC CRYPTXLN/*LIMESTONE: WH MICROXLN LTGY MOTT WH/GY MICROVEIN FILL. /*SANDSTONE: WH LTGY WSRT VFGRN MODCMT CALC ON BORDERLINE BETWEEN SS AND SILTSTONE^

7200 7220 DOLOMITE
DKGYBRN HD SHARDY-SPLINTERY COM OOLITIC CRYPTXLN/*LIMESTONE: WH MICROXLN LTGY MOTT WH/GY MICROVEIN FILL. /*SANDSTONE: WH LTGY WSRT VFGRN MODCMT CALC ON BORDERLINE BETWEEN SS AND SILTSTONE^

7220 7240 DOLOMITE
DKGYBRN HD SHARDY-SPLINTERY COM SLI LESS OOLITIC THAN ABOVE CRYPTXLN/*LIMESTONE: WH MICROXLN LTGY MOTT WH/GY MICROVEIN FILL^

7240 7260 DOLOMITE
DKGY MODFRM-HD SHARDY-SPLINTERY COM SLI LESS OOLITIC THAN ABOVE CRYPTXLN/*LIMESTONE: WH MICROXLN LTGY MOTT WH/GY MICROVEIN FILL^

7260 7280 DOLOMITE
DKGY MODFRM-HD SHARDY-SPLINTERY COM SLI LESS OOLITIC THAN ABOVE CRYPTXLN/*LIMESTONE: WH MICROXLN LTGY MOTT WH/GY MICROVEIN FILL^

7280 7300 DOLOMITE
DKGY MODFRM-HD SHARDY-SPLINTERY COM SLI LESS OOLITIC THAN ABOVE CRYPTXLN/*LIMESTONE: WH MICROXLN LTGY MOTT WH/GY MICROVEIN FILL^

7300 7320 DOLOMITE
MED-DKGY MODFRM-SLIHD CRNCHY SHARDY-SPLINTERY COM SLI LESS OOLITIC THAN ABOVE CRYPTXLN TR PYRTC INCL. TRIP FOR E-LOGS @ 6:30PM ON 11/22/10 @ 7300'. OBIT#10 MADE 187' IN 35.5 HRS. NBIT#11: 12.25" HTC Q 507 PDC. BOB @ 4:05AM ON 11/28/10^

7320 7340 DOLOMITE
MED-DKGY MODFRM-SLIHD CRNCHY SHARDY-SPLINTERY COM SLI LESS OOLITIC THAN ABOVE CRYPTXLN TR PYRTC INCL/*LIMESTONE: WH MICROXLN LTGY MOTT WH/GY MICROVEIN FILL^

7340 7360 DOLOMITE
MED-DKGY MODFRM-SLIHD CRNCHY SHARDY-SPLINTERY COM SLI LESS OOLITIC THAN ABOVE CRYPTXLN TR PYRTC INCL/*LIMESTONE: WH MICROXLN LTGY MOTT WH/GY MICROVEIN FILL^

7360 7380 DOLOMITE
DKGY MODFRM-SLIHD CRNCHY SHARDY-SPLINTERY COM SLI LESS OOLITIC THAN ABOVE CRYPTXLN/*LIMESTONE: WH MICROXLN LTGY MOTT WH/GY MICROVEIN FILL^

7380 7400 DOLOMITE
DKGY MODFRM-SLIHD CRNCHY SHARDY-SPLINTERY COM SLI LESS OOLITIC THAN ABOVE CRYPTXLN/*LIMESTONE: WH MICROXLN LTGY MOTT WH/GY MICROVEIN FILL^

7400 7420 DOLOMITE
DKBRN DKGY HD MASS DNS CRYPTXLN BLKY-SHARDY TR OOLITIC SHALY FLAKY IP./*LIMESTONE: WH OP MICRO-CRYPTXLN COM AS VEIN/FRAC FILL^

7420 7440 SHALE
LTGY FRM DOLOMITIC FLAKY FISS MINOR WH VEIN FILL LIMESTONE & DKBRN HD SBBLKY DOLOMITE^

7440 7460 SHALE
LTGY FRM DOLOMITIC FLAKY FISS MINOR WH VEIN FILL LIMESTONE & DKBRN HD SBBLKY DOLOMITE^

7460 7480 DOLOMITE
DKBRN DKGY HD MASS DNS CRYPTXLN BLKY-SHARDY TR OOLITIC SHALY FLAKY IP. /*LIMESTONE: WH OP MICRO-CRYPTXLN COM AS VEIN/FRAC FILL^

7480 7500 DOLOMITE
DKBRN DKGY HD MASS DNS CRYPTXLN BLKY-SHARDY TR OOLITIC SHALY FLAKY IP. /*LIMESTONE: WH OP MICRO-CRYPTXLN COM AS VEIN/FRAC FILL^

7500 7520 DOLOMITE
DKBRN LTGY MODHD BLKY-SPLINTERY CRYPTXLN SHALY IP MINOR WH OP MICROXLN LIMESTONE VEIN/FRAC FILL. /*SHALE: LTGY FRM SPLINTERY-FLAKY DOLOMITIC FISS^

7520 7540 DOLOMITE
DKBRN LTGY MODHD BLKY-SPLINTERY CRYPTXLN SHALY IP MINOR WH OP MICROXLN LIMESTONE VEIN/FRAC FILL. /*SHALE: LTGY FRM SPLINTERY-FLAKY DOLOMITIC FISS^

7540 7560
TRIP FOR NBHA @ MIDNIGHT ON 11/29/10 @ 7554' AFTER WIRELINE SURVEY CONFIRMED A DEV>5 DEG.L/D ROTATING BHA,P/U TRU-TRACK BHA. SWITCH FROM ROTATE TO SLIDE DRLG.RR BIT#11. BOB@ 7:25PM ON 11/30/10^

7560 7580 DOLOMITE
LTGY DKBRN HD CRYPTXLN SPLINTERY-SHARDY OOLITIC MINOR WH OP CRYPT-MICROXLN VEIN/FRAC FILL LIMESTONE^

7580 7600 SANDSTONE
LTGY WSRT VFGRN "SALT & PEPPER" WCMT QTZ. MINOR WH OP LIMESTONE,DKBRN DKGY OOLITIC DOLOMITE, WH-PAL PNK MODHD CRYPTXLN LMPY OP CRMBLY GYPSUM/ANHYDRITE^

7600 7620 DOLOMITE
DKBRN LTGY MODHD BLKY-SPLINTERY CRYPTXLN/*SHALE: LT-MEDBRN SFT ARG SLI EFF MINOR WH OP LIMESTONE/*SANDSTONE: LTGY WSRT VFGRN "SALT & PEPPER" WCMT QTZ. ^

7620 7640 DOLOMITE
DKBRN LTGY MODHD BLKY-SPLINTERY CRYPTXLN SHALY IP MINOR WH OP MICROXLN LIMESTONE VEIN/FRAC FILL. ^

7640 7660 DOLOMITE
DKBRN LTGY MODHD BLKY-SPLINTERY CRYPTXLN SHALY IP MINOR WH OP MICROXLN LIMESTONE VEIN/FRAC FILL. ^

7660 7680 DOLOMITE
DKBRN LTGY MODHD BLKY-SPLINTERY CRYPTXLN SHALY IP MINOR WH OP MICROXLN LIMESTONE VEIN/FRAC FILL. ^

7680 7700 DOLOMITE
DKBRN LTGY MODHD BLKY-SPLINTERY CRYPTXLN SHALY IP MINOR WH OP MICROXLN LIMESTONE VEIN/FRAC FILL. ^

7700 7720 DOLOMITE
DKBRN LTGY MODHD BLKY-SPLINTERY CRYPTXLN SHALY IP MINOR WH OP MICROXLN LIMESTONE VEIN/FRAC FILL. ^

7720 7740 DOLOMITE
DKBRN LTGY MODHD BLKY-SPLINTERY CRYPTXLN SHALY IP MINOR WH OP MICROXLN LIMESTONE VEIN/FRAC FILL. ^

7740 7760 DOLOMITE
DKBRN LTGY MODHD BLKY-SPLINTERY CRYPTXLN SHALY IP MINOR WH OP MICROXLN LIMESTONE VEIN/FRAC FILL. ^

7760 7780 DOLOMITE
DKBRN LTGY MODHD BLKY-SPLINTERY CRYPTXLN SHALY IP MINOR WH OP MICROXLN LIMESTONE VEIN/FRAC FILL. ^

7780 7800 DOLOMITE
DKBRN LTGY MODHD BLKY-SPLINTERY CRYPTXLN SHALY IP MINOR WH OP MICROXLN LIMESTONE VEIN/FRAC FILL. ^

7800 7820 DOLOMITE

MEDGY MOTT FRM CRYPTXLN BLKY-PLTY TR WH OP MICROXLN LIMESTONE^

7820 7840 DOLOMITE
MEDGY MOTT FRM CRYPTXLN BLKY-PLTY TR WH OP MICROXLN LIMESTONE^

7840 7860 DOLOMITE
MEDGY MOTT FRM CRYPTXLN BLKY-PLTY TR WH OP MICROXLN LIMESTONE MINOR GY FISS SHALE^

7860 7880 DOLOMITE
MEDGY MOTT FRM CRYPTXLN BLKY-PLTY TR WH OP MICROXLN LIMESTONE MINOR GY FISS SHALE^

7880 7900 DOLOMITE
MEDGY MOTT FRM CRYPTXLN BLKY-PLTY TR WH OP MICROXLN LIMESTONE & GY FRM MICROLAM FISS SHALE^

7900 7920 DOLOMITE
MEDGY DKBRN MOTT OOLITIC MODHD CRYPTXLN BLKY MINOR GY FRM MICROLAM FISS SHALE TR WH OP XLN LIMESTONE FRAC FILL OCC TR PYR^

7920 7940 DOLOMITE
MEDGY DKBRN MOTT OOLITIC MODHD CRYPTXLN BLKY MINOR GY FRM MICROLAM FISS SHALE TR WH OP XLN LIMESTONE FRAC FILL OCC TR PYR^

7940 7960 DOLOMITE
MEDGY DKBRN MOTT OOLITIC MODHD CRYPTXLN BLKY MINOR GY FRM MICROLAM FISS SHALE TR WH OP XLN LIMESTONE FRAC FILL OCC TR PYR^

7960 7980 DOLOMITE
MEDGY DKBRN MOTT OOLITIC MODHD CRYPTXLN BLKY MINOR GY FRM MICROLAM FISS SHALE TR WH OP XLN LIMESTONE FRAC FILL OCC TR PYR^

7980 8000
TRIP FOR NTRU-TRACK @ 7985' @ 8:45 PM ON 12/1/10. SURVEY TOOL OF TRU-TRACK NOT WORKING. POOH L/D OLD TRU-TRACK, P/U NTRU-TRACK, RIH/SAME BIT. BOB @ 3:10 PM ON 12/2/10^

8000 8020 DOLOMITE
MOTT GY/WH BRN/WH OOITIC MOD HD SPLINTERY-SHARDY CRYPTXLN MINOR WH OP XLN LIMESTONE FRAC FILL^

8020 8040 DOLOMITE
MOTT GY/WH BRN/WH OOITIC MOD HD SPLINTERY-SHARDY CRYPTXLN MINOR WH OP XLN LIMESTONE FRAC FILL^

8040 8060 DOLOMITE
MOTT GY/WH BRN/WH OOITIC MOD HD SPLINTERY-SHARDY CRYPTXLN MINOR WH OP XLN LIMESTONE FRAC FILL TR GY VFGRN SANDSTONE & GY SPLINTERY DOLOMITIC MICROLAM FISS SHALE^

8060 8080 DOLOMITE
MOTT GY/WH BRN/WH OOITIC MOD HD SPLINTERY-SHARDY CRYPTXLN MINOR WH OP XLN LIMESTONE FRAC FILL TR GY VFGRN SANDSTONE & GY SPLINTERY DOLOMITIC MICROLAM FISS SHALE^

8080 8100 DOLOMITE
MED-DRK GRY MOTT WH OOITIC SMWHT SFT CRYPTXLN MINOR WH OP XLN LIMESTONE FRAC FILL /*SANDSTONE: GY MODSFT VFGRN /*SHALE: MED-DRKGRY SPLINTERY DOLOMITIC MICROLAM SHALE^

8100 8120 DOLOMITE
MED-DRK GRY MOTT WH OOITIC SMWHT SFT CRYPTXLN MINOR WH OP XLN LIMESTONE FRAC FILL /*SANDSTONE: GY MODSFT VFGRN /*SHALE: MED-DRKGRY SPLINTERY DOLOMITIC MICROLAM SHALE^

8120 8140 SANDSTONE
OFFWHT-LTGRY/CRM MODSFT-SLIFRM VFGRN WSRT PPOR CALC/*DOLOMITE: MED-DRKGRY FRM-SLIHRD BLKY-SBPLTY CRYPTXLN TR PYRT INCL/*TR LIMESTONE FRAC FILL^

8140 8160 SANDSTONE
OFFWHT-LTGRY/CRM MODSFT-SLIFRM VFGRN WSRT PPOR CALC/*DOLOMITE: MED-DRKGRY FRM-SLIHRD BLKY-SBPLTY CRYPTXLN TR PYRT INCL/*TR LIMESTONE FRAC FILL^

8160 8180 DOLOMITE
MEDDKGY DKBRN HD CRYPTXLN SHARDY-SPLINTERY OOLITIC SHALY TR WH OP XLN LIMESTONE FRAC FILL & WH OP MASS NXLN ANHYDRITE/GYPSUM. MINOR LTGY FISS SHALE/*SANDSTONE: LTGY REDORANGE S&P IP GRDNG TO REDBEDS WSRT VFGRN MODWCMT/*^

8180 8200 DOLOMITE
MEDDKGY DKBRN HD CRYPTXLN SHARDY-SPLINTERY OOLITIC SHALY TR WH OP XLN LIMESTONE FRAC FILL & WH OP MASS NXLN ANHYDRITE/GYPSUM. MINOR LTGY FISS SHALE/*SANDSTONE: LTGY REDORANGE S&P IP GRDNG TO REDBEDS WSRT VFGRN /*^

8200 8220 DOLOMITE
DKGY HD SHARDY CRYPTXLN OOLITIC IP TR WH OP FRAC FILL LIMESTONE /*SANDSTONE: PNK ORANGE TAN LTGY S&P WSRT VFGRN W-PCMT FRI IP/*SHALE: REDBRN TAN FRM MICROLAM IP SIL FISS^

8220 8240 SHALE
REDBRN TAN FRM MICROLAM IP SIL FISS/*SANDSTONE: PNK ORANGE TAN LTGY S&P WSRT VFGRN W-PCMT FRI IP/*DOLOMITE: DKGY HD SHARDY CRYPTXLN OOLITIC IP TR WH OP FRAC FILL LIMESTONE TR WH OP GYPSUM TR FLUORO^

8240 8260 SHALE
REDBRN TAN FRM MICROLAM IP SIL FISS/*DOLOMITE: DKGY HD SHARDY CRYPTXLN OOLITIC IP TR PYRT INCL/*SANDSTONE: PNK ORANGE TAN LTGY S&P WSRT VFGRN W-PCMT FRI IPTR WH OP FRAC FILL LIMESTONE TR WH OP GYPSUM TR FLUORO^

8260 8280
TRIP FOR INTERMEDIATE CSG @ 7:35AM ON 12/4/10 @ 8257'. RUN E-LOGS, 9.875" 62.8# P110 CSG TO 8247'.L/D 8" COLLARS, P/U 6.5" COLLARS & 5" HWDP. NBIT# 12: 8.5" HTC Q507FX PDC. OBIT#11 MADE 957' IN 156 HRS. /*BOB @ 8:20AM ON 12/8/10^

8280 8300 DOLOMITE

DKGYBRN HD OOLITIC IP SHARDY IP CRYPTXLN. TR WH OP LIMESTONE/*SHALE: REDBRN FRM FISS MICROLAM TR WH OP NXLN ANHYDRITE/GYPSUM PALPNK WSRT FGRN SANDSTONE RARE TRANSP-TRANSL HD RECTANGULAR, SLI SADDLED HALITE XL^

8300 8320 DOLOMITE
DKGYBRN HD OOLITIC IP SHARDY IP CRYPTXLN. TR WH OP LIMESTONE/*SHALE: REDBRN FRM FISS MICROLAM TR WH OP XLN ANHYDRITE/GYPSUM PALPNK WSRT FGRN SANDSTONE RARE TRANSP-TRANSL HD RECTANGULAR SALT XL^

8320 8340
DKGYBRN HD OOLITIC IP SHARDY IP CRYPTXLN. TR WH OP LIMESTONE/*SHALE: REDBRN FRM FISS MICROLAM TR WH OP XLN GYPSUM, SS TRIP FOR NBIT#13 @ 3:15PM ON 12/9/10 @ 8338'.OBIB#12 MADE 81' IN 23.25HRS.NBIT#13: 8.5" REED M-4377PDH TRICONE.BOB@ 8:35AM ON 12/10/10^

8340 8360 SANDSTONE
ORANGE WH REDBRN WSRT F-VFGRN MODCMT CALC IP. /*SHALE: REDBRN FRM SIL FISS MICROLAM-BLKY TR WH LIMESTONE/*DOLOMITE: DKGY MASS-OOLITIC CRYPTXLN. RARE TR TRANSP SALT XLS^

8360 8380 SANDSTONE
ORANGE WH REDBRN WSRT F-VFGRN MODCMT CALC IP./*SHALE: REDBRN FRM SIL FISS MICROLAM-BLKY TR WH LIMESTONE/*DOLOMITE: DKGY MASS-OOLITIC CRYPTXLN. RARE TR TRANSP SALT XLS^

8380 8400
TRIP FOR NBIT#14 @ 8:00AM ON 12/11/10 @ 8396'.OBIT#13 MADE 58'. NBIT#14: 8.5" SECURITY TRICONE. BOB @ 8:40AM ON 12/12/10. TRIP FOR NBIT#15 @ 2:15PM ON 12/12/10 @ 8397'. OBIT#14 MADE 1'. NBIT#15: 8.5"STC MS1616 PDC, OPEN JETS BOB @ 7:25AM ON 12/13/10.^

8400 8420 ANHYDRITE
WHT OFFWHT MODSFT MOTTL SPAR/*DOLOMITE: DKGY MASS-OOLITIC CRYPTXLN MINOR WH LIMESTONE/*SANDSTONE: ORANGE WH REDBRN WSRT F-VFGRN MODCMT CALC IP^

8420 8440 SANDSTONE
ORANGE WH WSRT FGRN MODWCMT SLI CALC CLN ANG-SBRND QTZ. /*SHALE: RUSTY REDBRN FRM SIL FISS PLTY-BLKY MINOR WH OP LIMESTONE FRAC FILL, DKGY-DKBRN HD MASS DOLOMITE, WH OP NXLN ANHYDRITE/GYPSUM/*^

8440 8460 SHALE
SHALE: RUSTY REDBRN FRM SIL FISS PLTY-BLKY MINOR WH OP LIMESTONE FRAC FILL, DKGY-DKBRN HD MASS DOLOMITE, WH OP NXLN ANHYDRITE/GYPSUM /*SANDSTONE: ORANGE WH WSRT FGRN MODWCMT SLI CALC CLN ANG-SBRND QTZ.^

8460 8480 SHALE
SHALE: RUSTY REDBRN FRM SIL FISS PLTY-BLKY MINOR WH OP LIMESTONE FRAC FILL, DKGY-DKBRN HD MASS DOLOMITE, WH OP NXLN ANHYDRITE/GYPSUM /*SANDSTONE: ORANGE WH WSRT FGRN MODWCMT SLI CALC CLN ANG-SBRND QTZ.^

8480 8500 ANHYDRITE

WH OP NXLN BLKY-SPLINTERY MINOR REDBRN SHALE, DKGY DOLOMITE, WH OP LIMESTONE TR SANDSTONE^

8500 8520 ANHYDRITE
WH OP NXLN BLKY-PLTY MINOR REDBRN FRM SIL FISS SHALE, ORANGE WH WSRT FGRN SANDSTONE, DKGY DKBRN HD BLKY CRYPTXLN OOLITIC IP DOLOMITE, WH OP MICROXLN FRAC FILL LIMESTONE^

8520 8540 ANHYDRITE
WH OP NXLN BLKY-PLTY MINOR REDBRN FRM SIL FISS SHALE, ORANGE WH WSRT FGRN SANDSTONE, DKGY DKBRN HD BLKY CRYPTXLN OOLITIC IP DOLOMITE, WH OP MICROXLN FRAC FILL LIMESTONE^

8540 8560 DOLOMITE
DKGY DK BRN HD BLKY-PLTY CRYPTXLN OOLITIC-MASS MINOR ORANGE WG WSRT FGRN SANDSTONE, REDBRN FRM FISS SBBLKY SHALE, WH OP MICROXLN FRAC FILL LIMESTONE, WH OP NXLN BLKY ANHYDRITE/GYPSUM^

8560 8580 SANDSTONE
REDBRN ORNG FRM-MODSFT VFGRN /*DOLOMITE: DKGY DKBRN HD BLKY CRYPTXLN OOLITIC IP /*SHALE: REDBRN FRM SIL FISS^

8580 8600 ANHYDRITE
WH OP NXLN BLKY-PLTY MINOR REDBRN FRM SIL FISS SHALE, ORANGE WH WSRT FGRN SANDSTONE, DKGY DKBRN HD BLKY CRYPTXLN OOLITIC IP DOLOMITE, WH OP MICROXLN FRAC FILL LIMESTONE^

8600 8620 ANHYDRITE
WH OP NXLN BLKY-PLTY MINOR REDBRN FRM SIL FISS SHALE, ORANGE WH WSRT FGRN SANDSTONE, DKGY DKBRN HD BLKY CRYPTXLN OOLITIC IP DOLOMITE, WH OP MICROXLN FRAC FILL LIMESTONE^

8620 8640 ANHYDRITE
WH OP NXLN BLKY-PLTY MINOR REDBRN FRM SIL FISS SHALE, ORANGE WH WSRT FGRN SANDSTONE, DKGY DKBRN HD BLKY CRYPTXLN OOLITIC IP DOLOMITE, WH OP MICROXLN FRAC FILL LIMESTONE^

8640 8660 ANHYDRITE
WH OP NXLN BLKY-PLTY MINOR REDBRN FRM SIL FISS SHALE, ORANGE WH WSRT FGRN SANDSTONE, DKGY DKBRN HD BLKY CRYPTXLN OOLITIC IP DOLOMITE, WH OP MICROXLN FRAC FILL LIMESTONE^

8660 8680 SANDSTONE
WH PALORANGE PNK CLR WSRT BIMOL F-MEDGRN MODCMT FRI-UNCONS SBANG-SBRND TRANSP-TRANSL QTZ. MINOR REDBED SHALE /*DOLOMITE: DKGY DKBRN HD MASS-OOLITIC CRYPTXLN OCC FRAC/WH OP LS FILL MINOR GYPSUM^

8680 8700
TRIP FOR NBIT @ 7:30 PM ON 12/14/10 @ 8698'. OBIT#15 MADE 302' IN 34 HRS. NBIT#16: 8.5" REED M 4378 PDH TRICONE. BOB @ 11:40 AM ON 12/15/10^

8700 8720 SANDSTONE
WH PAL PNK PALORANGE TAN WSRT BIMOL F-MEDGRN MODCMT-UNCONS SBANG-SBRND TRANSL-TRANSP QTZ TR LS, DOLOMITE, REDBED SHALE, & WH GYPSUM^

8720 8740 SANDSTONE

WH PAL PNK PALORANGE TAN WSRT BIMOL F-MEDGRN MODCMT-UNCONS SBANG-SBRND TRANSL-TRANSP QTZ TR, DOLOMITE, REDBED SHALE, & WH GYPSUM^

8740 8760 SANDSTONE
WH PAL PNK PALORANGE TAN WSRT BIMOL F-MEDGRN MODCMT-UNCONS SBANG-SBRND TRANSL-TRANSP QTZ TR DOLOMITE, REDBED SHALE, & WH GYPSUM^

8760 8780 SANDSTONE
WH PAL PNK PALORANGE TAN WSRT BIMOL F-MEDGRN MODCMT-UNCONS SBANG-SBRND TRANSL-TRANSP QTZ TR DOLOMITE, REDBED SHALE, & WH GYPSUM^

8780 8800 SANDSTONE
WH PAL PNK PALORANGE TAN WSRT BIMOL F-MEDGRN MODCMT-UNCONS SBANG-SBRND TRANSL-TRANSP QTZ TR DOLOMITE, REDBED SHALE, & WH GYPSUM^

8800 8820 SANDSTONE
WH CLR PALORANGE PALPNK WSRT BIMODAL F-MEDGRN SBANG-SBRNG TRANSL-TRANSP QTZ MINOR WH PNK OP ANHYDRITE/GYPSUM TR REDBRN FRM FISS SHALE & GY HD DOLOMITE^

8820 8840 SANDSTONE
WH CLR PALORANGE PALPNK WSRT BIMODAL F-MEDGRN SBANG-SBRNG TRANSL-TRANSP QTZ MINOR WH PNK OP ANHYDRITE/GYPSUM TR REDBRN FRM FISS SHALE & GY HD DOLOMITE^

8840 8860 SANDSTONE
WH CLR PALORANGE PALPNK WSRT BIMODAL F-MEDGRN SBANG-SBRNG TRANSL-TRANSP QTZ MINOR WH PNK OP ANHYDRITE/GYPSUM TR REDBRN FRM FISS SHALE & GY HD DOLOMITE^

8860 8880 SANDSTONE
WH CLR PALORANGE PALPNK WSRT BIMODAL F-MEDGRN SBANG-SBRNG TRANSL-TRANSP QTZ MINOR WH PNK OP ANHYDRITE/GYPSUM TR REDBRN FRM FISS SHALE & GY HD DOLOMITE^

8880 8900
TRIP FOR NBIT#17 @ 7:00PM ON 12/17/10 @ 8886'. OBIT#16 MADE 188' IN 43 HRS, DROPPED CONES, WENT FISHING. NBIT#17: 8.5" STC FHi90YODR. BOB @ 00:00 ON 12-20-10/*WH CLR PALORANGE PALPNK WSRT BIMODAL F-MEDGRN SBANG-SBRNG TRANSL-TRANSP QTZ^

8900 8920 SANDSTONE
WHT-OFFWHT MODHRD F-VFGRN MODSRT TRANSL-TRANSP QTZ MINOR ANHYDRITE/GYPSUM^

8920 8940 SANDSTONE
WHT-OFFWHT MODHRD F-VFGRN MODSRT TRANSL-TRANSP QTZ MINOR ANHYDRITE/GYPSUM^

8940 8960 SANDSTONE
WHT-OFFWHT MODHRD F-VFGRN MODSRT TRANSL-TRANSP QTZ MINOR ANHYDRITE/GYPSUM^

8960 8980
WHT-OFFWHT MODHRD F-VFGRN MODSRT TRANSL-TRANSP QTZ MINOR ANHYDRITE/GYPSUM & RED SHALE /*TRIP FOR NBIT#18 @ 2:30PM ON 12/21/10 @

8,973'. OBIT#17 MADE 87'IN 35 HRS. NBIT#18 8.5"STC F67YD TRICONE. BOB @ 6:30AM ON 12/22/10^

8980 9000 SANDSTONE
WHT-OFFWHT MODHRD F-VFGRN MODSRT TRANSL-TRANSP QTZ MINOR ANHYDRITE/GYPSUM^

9000 9020 SANDSTONE
WH PALPNK CLR WSRT BIMODAL F-MEDGRN MODCMT-UNCONS SBANG-SBRND TRANSL-TRANSP QTZ MINOR WH PNK OP NXLN ANHYDRITE/GYPSUM OCC TR REDBRN FRM FISS PLTY SHALE & DK GY HD CRYPTXLN SBBLKY DOLOMITE^

9020 9032
TD @ 9031' @ 3:05 AM ON 12/23/10. POOH, RUN E-LOGS. LOGGERS RELEASED @ 6:40 PM ON 12/23/10/*THANK YOU FOR CHOOSING SELMAN & ASSOCIATES, LTD^

APPENDIX

Appendix i

Drilling Procedure ii

Memos iii

Daily Reports – Mud Reports iv

Daily Reports – Drill Reports v

PIONEER
NATURAL RESOURCES

Pioneer Natural Resources USA, Inc.

South Hills Federal #6-1

Section 6, T16S, R1W
Juab County, Utah

Drilling Program

Nabors 169

AFE #: 018514
API #: 43-023-30021

Revision 02
10-Sep-10

Issued by:	_____	**Senior Staff Drilling Engineer**
Reviewed by:	_____	**Field Drilling Superintendent**
Approved by:	_____	**Senior Drilling Manager**

Drilling Program Summary

The South Hills Federal #6-1 well is planned as a vertical exploration well to be drilled in Juab County Utah. It will be a vertical well drilled to an approximate TD of 12,000'. The primary goal of the well will be to evaluate the Navajo Sandstone for productive hydrocarbons. The basic wellplan is as follows:

- Prior to rig arrival, location and road construction will have been completed and a 30" conductor should be installed +/- 80' below ground level.
- 17 ½" Hole will be drilled to ~4100' using Baker's TruTrak vertical drilling system.
- 13 ⅜" casing will be run and cemented.
- 12 ¼" Hole will be drilled through the Arapien formation into the top of the Twin Creek formation using Baker's TruTrak vertical drilling system. Planned interval TD is 8640'.
- Wireline Log the 12 ¼" Hole.
- 9 ⅞" casing will be run and cemented.
- 8 ½" Hole will be drilled through the Navajo sandstone into the Chinle formation to ~12,000'. Max permitted depth is 12,000'.
- Wireline Log 8 ½" Hole.
- Run and cement 5 ½" production casing.

This procedure covers the primary drilling and evaluation program. Some contingent options will be discussed but actual operations will be highly dependent on actual geology and hole conditions. Completion and/or Abandonment procedures will be issued separately based on the evaluation results.

In addition to this program, the following material will be issued the well:

- Wellbore Sketch
- Days & Cost vs. Depth Curves
- Geoprog (also located in Wellview)
- Detailed Service Company Proposals
- Recommended Bit Programs

Procedure Changes and Revisions

Procedure versions will be designated with Revision numbers and dates. Any operational changes that deviate from this procedure should be documented and communicated to the drilling team via e-mail.

Daily Reports

Cost and daily activity reports will be captured using Wellview. Reports should run from 6:00 am to 6:00am. Report distribution will include the Pioneer contact list on the subsequent page. This will be considered a tight hole operation.

Lessons Learned

Lessons learned will be tracked closely as the well progresses. An example spreadsheet is attached in Appendix H. Documentation of success and failure will be critical if a development program is initiated in the future.

PIONEER PROJECT CONTACT INFO

WWD&C Contacts

Role	Name	Office	Mobile Phone	E-mail
Operations Drilling Engineer	Eric Burnett	972-969-5710	214-784-7656	eric.burnett@pxd.com
Planning Drilling Engineer	Leslie Bauer	+ 216 71 168 835	214-499-1005	leslie.bauer@pxd.com
Drilling Manager	Rodney Littleton	972-969-4410	972-672-4461	rodney.littleton@pxd.com
Field Superintendent	Mike Reel	972-969-3839	214-213-4815	mike.reel@pxd.com
Field Superintendent	Hubert Stallings	972-969-3839	214-808-3468	hubert.stalling@pxd.com
Lead Drilling Foreman	Clifton Everett		214-679-1801	clifton.everett@pxd.com
Lead Drilling Foreman	Dean Baker		318-631-0817	dean.baker@pxd.com
Night Drilling Foreman	Derrick Berry		719-859-1007	derrick.berry@pxd.com
Night Drilling Foreman	Billy Vigil		719-859-0753	billy.vigil@pxd.com

New Plays Team

Role	Name	Office	Mobile Phone	E-mail
Mgr, US Onshore New Plays	Skip Rhodes	972-969-3858	469-955-5734	Skip.Rhodes@pxd.com
Senior Staff Geologist	Caleb Pollock	303-675-2717	817-542-1163	Caleb.Pollock@pxd.com
Staff Petrophysicist	Chris Yokoyama	972-969-4491	281-772-3586	Chris.Yokoyama@pxd.com

Denver Regulatory

Role	Name	Office	Mobile Phone	E-mail
Regulatory Manager	Dave Holland	303-675-2624	303-870-4696	Dave.Holland@pxd.com
Senior Engineering Tech	Joy Ziegler	303-675-2663		Joy.Ziegler@pxd.com

Denver Land

Role	Name	Office	Mobile Phone	E-mail
Land Manager - Western Divisi	Betty Brownson	303-675-2610		Betty.Brownson@pxd.com
Landman III	Chris Hollman	303-675-2618		Chris.Hollmann@pxd.com

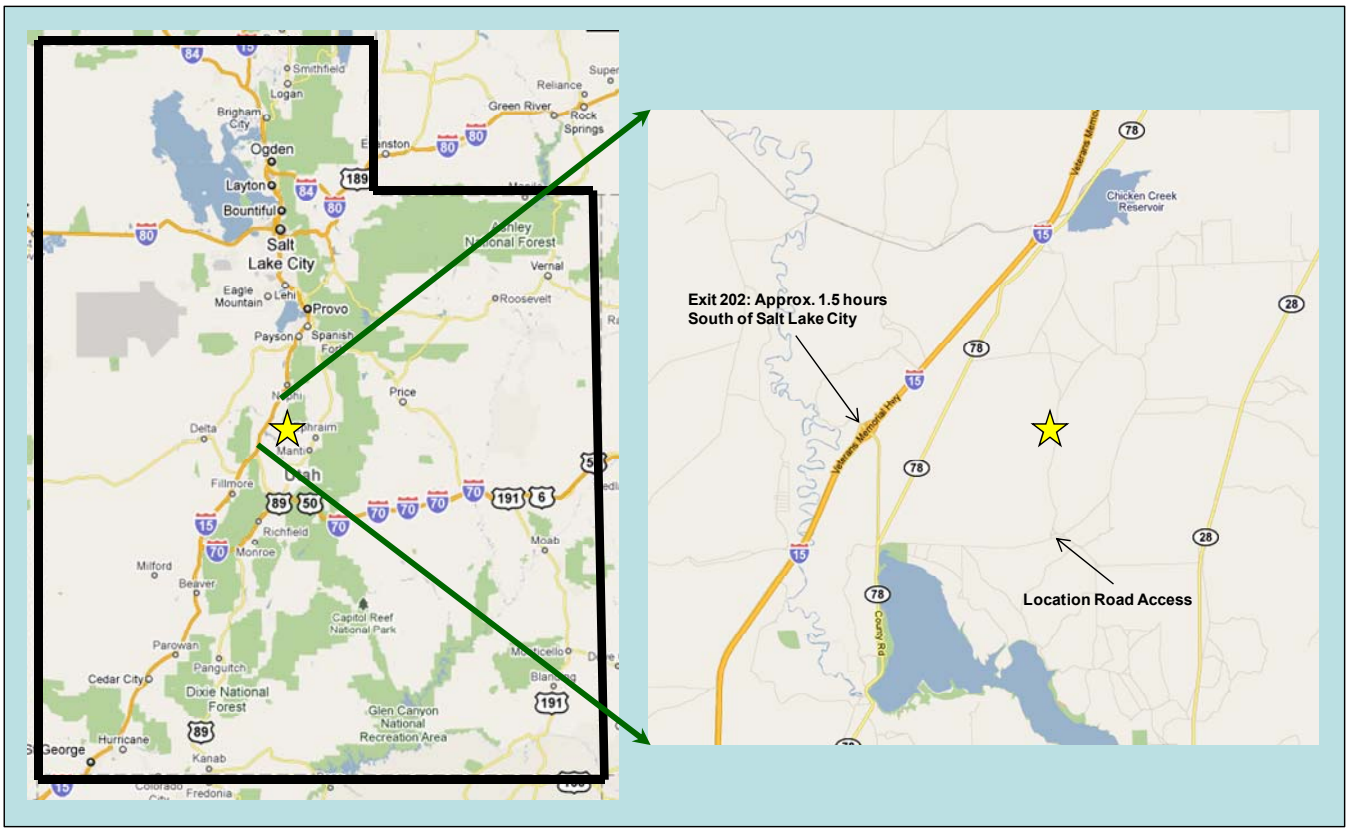
Denver Management

Role	Name	Office	Mobile Phone	E-mail
VP Western Division	Tom Sheffield	303-675-2702	303-883-9432	Thomas.Sheffield@pxd.com
Drilling Manager	Ted Cottrell	303-675-2630	720-468-1814	ted.cottrell@pxd.com
Operations Manager	Morris Bell	303-675-2609		Morris.Bell@pxd.com
Operations Superintendent	Ward Belanger	303-675-2753		Ward.Belanger@pxd.com
Geology Manager	Todd Peters	303-675-2633		Todd.Peters@pxd.com

SERVICE COMPANY CONTACT INFO

Attached Separately – This is a living document maintained by the Lead Drilling Foremen.

General Location Info



The South Hills Federal #6-1 well is located just off I-15 approximately 1.5 hours South of Salt Lake City.

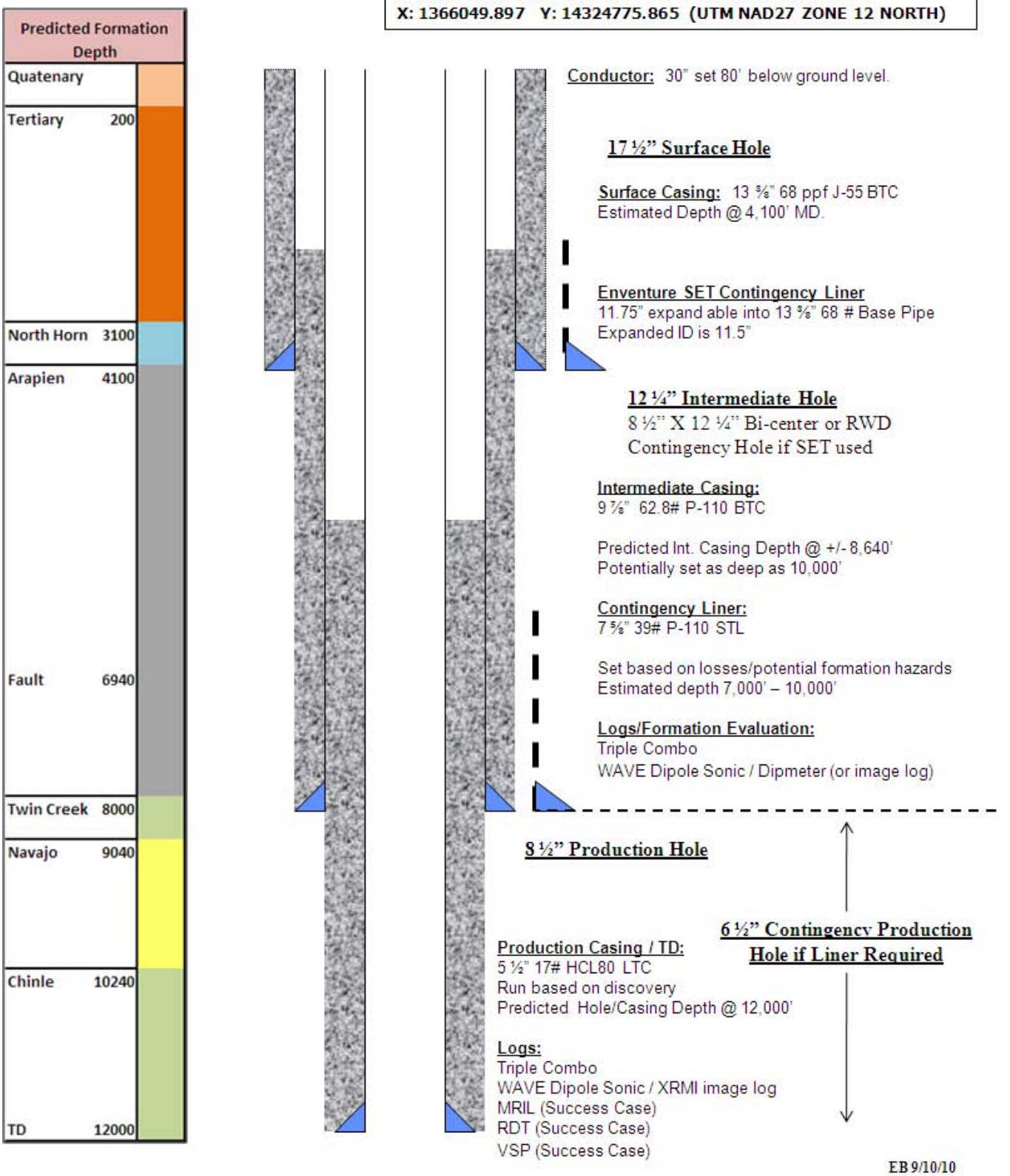
Directions

From Salt Lake City, take I-15 south . Take exit 202 to Yuba Lake. Turn left on the county road and travel approximately 2 ¼ miles to Old Botham Rd. Turn left on Old Botham Road and drive approximately 3 ¼ mile to the location access road. Turn left and follow access road to the rig. Please close all gates after entry and exit.

Proposed Wellbore Sketch

PIONEER
NATURAL RESOURCES

South Hills Federal #6-1
Est. Spud Date: 09/01/10
AFE: 018514 API: 43-023-30021
Elev.: 5239' GL, 5264' KB
Surface : 1552 FSL 3171 FEL. Lot 46 Section 6. T16S-R1W
X: 1366049.897 Y: 14324775.865 (UTM NAD27 ZONE 12 NORTH)



Regulatory Info

The following is a brief summary of the notification requirements for the field personnel . If there are any questions regarding proper notification, please contact Joy Ziegler in the Denver office for assistance. Please also refer to the full copy of the COA document issued by the BLM attached in Appendix I.

FIELD REQUIREMENTS (Brief Summary – Refer to Conditions of Approval for All Agency Requirements)

Utah Division of Oil, Gas, & Mining (UDOGM) & BLM approved APD's with "Conditions of Approval" (COA) must be kept at wellsite.

The field calls the BLM SLC office (801-539-4048, Randy Knight) 24 hour notice prior to spudding. Also requires 24 hr notice to setting & cementing casing; pressure testing BOPE or any casing string integrity test (MW equivalency test) of each casing shoe. (See COA).

Field will notify UDOGM, Carol Daniels @ 801-538-5284, within 24 hours following the spud; if it is on a weekend leave a voicemail message.

Please NOTE: Any deviation from the drilling plan must be approved by the BLM prior to the change.

See BLM "COA" for contacts on newly drilled dry holes and any emergency situations (1st contact is Al McKee, 2nd is Randy Knight, and 3rd (if necessary) is George Cruz (Cell: 435-743-3126 & Home: 435-893-2176). Also need to contact UDOGM prior to commencing P&A: Dustin Doucet @ 801-538-5281 (office) and 801-733-0983 (after hours).

Please see BLM "COA" for copies of logs, DST's, cores, & etc.

REGULATORY REQUIREMENTS FROM FIELD

Put BLM and UDOGM (if there is one) witness name on morning reports. Regulatory files daily reports weekly with both agencies – BLM copies go to SLC & Fillmore offices – this also includes daily mud reports.

Send copies of daily mud report to Joy Ziegler.

All pertinent data for casing and cement jobs should be reported on daily report – please list hole size, casing tops and bottoms depths; cement tops and bottoms along with type and no. of sx used, slurry volume; & stage cementer depth.

The cement service company needs to fax a copy of the cement job summaries to the attention of Joy Ziegler at 303-294-1275.

If any DST's or coring is done, need depths & description on morning report.

17 ½" Surface Hole / 13 ⅜" Surface Casing (0' - ~4100')

Interval Goals

- To drill a 17 ½" hole into the top of the Arapien formation
- Clean and condition the hole
- Maintain a vertical hole
- Run and Cement 13 ⅜" casing

Drilling Hazards / Risks

- Lost Circulation in permeable zones & fractures
- Uncontrolled deviation due to steep dips
- Volcanic clastics / induced wellbore instability
- Proper casing point selection

Drilling 17 ½" Hole

1. MIRU Nabors 169. Do not accept rig until fully rigged up and prepared for spud. Weld riser and flowline on 30" conductor.

2. Selman mudloggers should be rigged up and will be catching samples from surface to TD.

    a. 30' samples will be required except as required for casing seat hunts.
    b. 10' samples will be required based on the criteria specified for each casing seat.

3. P/U a Hughes **HCD507Z** bit and Baker's TruTrak vertical drilling system. M/U the BHA as follows:

ITEM NO.	DESCRIPTION	GAUGE OD	BODY OD	BODY ID	DOWN CONN	UP CONN	UNIT LENGTH	ACCUM. LENGTH
1	17 1/2" Bit	17 1/2"				7 5/8 Reg P	1.50	1.50
2	9 1/2 TruTrak with built in 17" Stab	17 1/2"	9 1/2"		7 5/8" Reg B	9 1/2" T2 B	36.00	37.50
3	9 1/2" T2 Stop sub		9 1/2"		9 1/2" T2 P	7 5/8" Reg B	5.00	42.50
4	X-Over		8"	3.00	7 5/8 Reg P	6 5/8 Reg B	5.00	47.50
5	Float Sub		8"	3.00	6 5/8 Reg P	6 5/8 Reg B	5.00	52.50
6	Filter Sub		8"		6 5/8 Reg P	6 5/8 Reg B	5.00	57.50
7	Cougar Mech Thruster		8"	3.00	6 5/8 Reg P	6 5/8 Reg B	31.00	88.50
8	9 - 8" Drill Collars		8"		6 5/8 Reg P	6 5/8 Reg B	270.00	358.50
9	Cross Over Sub		5"	3.00	6 5/8 Reg.	4 1/2" IF B	5.00	363.50
10	1 Joint 5" HWDP		5"	4.26	4 1/2" IF P	4 1/2" IF B	30.00	393.50
11	Drilling Jars				4 1/2" IF P	4 1/2" IF B	30.00	423.50
12	19 Joints 5" HWDP		5"	4.26	4 1/2" IF P	4 1/2" IF B	570.00	993.50
13	5" Drillpipe to surface				4 1/2" IF P	4 1/2" IF B		

4. TIH and tag bottom of conductor. (Conductor has been set 80' below ground level, hard rock was encountered 67' below ground level).

5. Drill out conductor and drill 17 ½" vertical hole to approximately 4100'.

    a. Begin circulating at the downlink flowrate of 650 – 690 gpm. Downlink TruTrak as

required by Baker directional. Slowly increase to drilling circulating rate of 925 gpm. Begin applying weight on bit. Vary parameters as required to maximize ROP.

b. Use Baker inclination MWD to take surveys at least once per connection. The TruTrak is working if angles are maintained at or below 0.5°. If three surveys exceed this value, or significant inclination increases are observed from a set of previous surveys, the tool may need to be pulled and replaced.
c. Baker should have mud motors and MWD available as a contingency if the TruTrak tools fails to maintain vertical control or if severe losses or hole conditions dictate.
d. Follow Newpark Drilling Fluid's recommended recipes for LCM sweeps / pills to cure/manage losses as required. Begin drilling with a spud mud, not straight water.
e. A selection of bits will be maintained at the rigsite. Bits may be pulled based on actual ROP and discussions between the office and field drilling team.

6. Actual casing point will be the depth at which we have penetrated the Arapien formation. This casing point allows us to isolate the potential hazards of the shallow section and allows us to use oil based drilling fluids in the subsequent hole sections. Casing point will be determined by the following:

    a. The Arapien is expected immediately below the unconformable base of the Tertiary section. (Also referred to as the KT unconformity)
    b. As we approach the projected depth of 4100' monitor drilling rate and cuttings returns.
    c. A drilling break may be experienced at the KT unconformity
    d. Arapien cuttings can consist of reddish-brown siltstone, calcareous mudstone, calcareous sandstone, anhydrite, or halite.
    e. The Selman onsite geologist and Caleb Pollock, the Pioneer project geologist, will confirm penetration of the Arapien formation.
    f. 5000' of 13 ⅜" pipe has been ordered. If the Arapien has not been penetrated, more 13 ⅜" will be required or the use of the Enventure SET liner may be required.
    g. If possible drill a small amount of additional footage to accommodate the pipe tally.

7. Once TD is called, circulate the hole clean and condition, survey and wiper trip to conductor shoe at 80'. TIH to bottom and circulate the hole clean. Pull out of hole to run 13 ⅜" surface casing. Rack back BHA. Lay down components with mouse hole after running casing.

    a. Wiper trips will be at the direction of the Lead Drilling Foreman and will be dependent on observed hole conditions.

Hazard & Contingency Discussion

This interval is potentially the most complex portion of the well. The most likely geology suggests the presence of volcanic clastics, potential severe loss zones through the North Horn Formation, and the potential for open surface faults.

Losses are the most likely problem and may be so severe that the interval may need to be drilled by injecting salt water while not taking returns to surface. If dry drilling is required and the fluid level drops below any potential clastics, they may destabilize.

Monitoring hole condition and returns is a priority from the start of the well. 30" conductor has been set to allow for two potential contingencies in this interval:

1. Use of an Enventure 13 ⅜" SET Expandable Liner System
2. Open hole from 17 ½" to 26" and run 20" pipe

The Enventure expandable pipe is the preferred contingency if two casing points are required. It allows for use of the primary wellhead system and it offers a solution if 13 ⅜" casing is stuck off bottom. The decision to implement either of these contingencies will be based on team discussions and actual wellbore conditions. More details on the Enventure system are included in Appendix D.

The goal of implementing either contingency will be to assure that we have a casing point into the top of the Arapien formation and preserve at least an 12 ¼" hole size to allow for running the 9 ⅞" casing through that formation group.

In addition to the contingent casing sizes, there are other tools that we can use to deal with adverse hole conditions. A Davis Lynch stage collar will be available in Vernal UT. If severe losses are encountered, we will try and identify fluid levels in the wellbore and plan on a multi-stage cement job in order to have a full cement column around the surface pipe. Also, if tight hole conditions are present, a Weatherford drill shoe is available to use, in conjunction with torque rings and a CRT casing tool, that will allow us to ream to bottom with the surface casing string. More details regarding the drill shoe is located in Appendix E.

Run & Cement 13 ⅜" Casing

Casing Specs:

Size	Weight	Grade	Conn.	Conn. OD	Tube ID	Drift	Burst	Collapse	Tensile
13-3/8"	68#	J-55	BTC	14.375"	12.415"	12.259"	3450psi	1950psi	675 kips

1. Lead Drilling Foremen will be responsible for bidding & selection of casing running crews. Use company & equipment that does not require a stabber in the derrick.

2. Pilot test the cement blend at least 24 hours prior to cementing. Make sure that Halliburton uses actual mix water for the test.

3. P/U 13 ⅜" surface casing. Weatherford will provide the float equipment and it should be delivered to location bucked onto the 13 ⅜" casing. A loose set of float equipment will also be

shipped in case the primary floats fail.

4. P/U shoe track as follows:
   - Float Shoe Weatherford Model 302
   - 1 joint 13 ⅜" with one centralizer 5' above the Float shoe with a stop collar
   - 1 Float Collar Weatherford Model 402
   - 2 Joints of 13 ⅜" casing with one centralizer per joint.

5. Finish running 13 ⅜" surface casing.
   a. Install Weatherford bow spring centralizers every third joint to surface. Install 2 cement baskets as the pipe is run. One on the 4th joint from last and one on the 3rd joint from last.

6. R/U Halliburton Cementing and cement 13 ⅜" casing.

   Note: Prior to cementing
   - Notify BLM office 24 hours prior to running & cementing casing.
   - Circulate a minimum of 1 ½ casing volumes or bottoms. If hole conditions allow, reciprocate casing while circulating and cementing.
   - Halliburton's detailed cementing proposal in attached as Appendix C.

7. Pump cement. Pump 5 bbls on top of plug prior to displacing. Displace with water based drilling mud. Use top and bottom non-rotating plugs. Take wet and dry samples. Displace at maximum possible rate. Bump the plug with 500 psi over final displacement pressure.

8. Release pressure. Check float equipment. Record cement volumes and recipes pumped on the Wellview Daily Drilling Report.

9. Monitor annulus for cement fall-back.

10. If required, pick Up 1" pipe and top up with 100 sacks of neat cement.

11. Notify office if cement is not circulated to surface.

12. Rough and final cut casing. Install Wood Group 13 ⅜" X 9 ⅞" X 5 ½" 5M SH2 wellhead system with 34" base plate & DSA. Wellhead details are attached in Appendix F.

Drilling Fluids – Newpark Drilling Fluids

Mix spud mud as per Newpark Drilling Fluid's recommendations prior to spud. Begin drilling with spud mud.

Mud weights should be kept as low as possible in this interval. Pump hi-vis sweeps as required for hole cleaning. If manageable losses are encountered pump LCM sweep including fibrous material, mica, sized calcium carbonate (300,200, & 100), and nut hulls.

Mud engineer will be on location 24hours a day for this interval to prep for OB & to assist with lost circulation if encountered.

General Mud Properties for 0 – 4100':

MW	Vis	PV	YP	pH	FL	Soilds
8.8 - 9.0 ppg	45 - 60 sec	8 - 12 cp	15 - 25	9.0 - 9.5	10 - 15 mls/30min	<6.0 %

Cementing - Halliburton

Halliburton's detailed cementing proposal is attached in Appendix C. Calculate cement volumes based on open hole volume + 50% excess. If excessive circulating time was seen or significant washout is expected cement volumes may adjusted to up to 100% of open hole volume. Cement slurries may also be adjusted on the observations and severity of lost returns. Planned top of cement is to surface.

12 ¼" Intermediate Hole / 9 ⅞" Intermediate Casing (~4100' - ~8640')

Interval Goals

- To drill a 12 ¼" hole 500' – 900' into the top of the Twin Creek formation
- Clean and condition the hole
- Maintain a vertical hole
- Run wireline logs
- Run and Cement 9 ⅞" casing

Drilling Hazards / Risks

- Salt Zones / Reactive Clays and induced wellbore instability
- Lost Circulation in permeable zones & fractures
- Uncontrolled deviation due to steep dips
- Proper casing point selection
- Proper bit selection to efficiently drill various lithologies including salts, shales , and anhydrites

Drilling 12 ¼" Hole

1. Lay down 17 ½" hole BHA components as required.

2. N/U and test Nabors 5k BOP stack. Test to 250 psi low / 5000 psi high. 10 minutes per test. N/U Weatherford rotating head.

3. Prep and clean the rig to accept oil based mud.

4. P/U a Hughes **HCD505ZX** bit and Baker's TruTrak vertical drilling system. M/U the BHA as follows:

ITEM NO.	DESCRIPTION	GAUGE OD	BODY OD	BODY ID	DOWN CONN	UP CONN	UNIT LENGTH	ACCUM. LENGTH
1	12 1/4" Bit	12 1/4"				6 5/8 Reg P	1.50	1.50
2	9 1/2 TruTrak with built in 12 1/8" Stab	12 1/4"	9 1/2"		6 5/8" Reg B	9 1/2" T2 B	36.00	37.50
3	9 1/2" T2 Stop sub		9 1/2"		9 1/2" T2 P	7 5/8" Reg B	5.00	42.50
4	X-Over		8"	3.00	7 5/8 Reg P	6 5/8 Reg B	5.00	47.50
5	Float Sub		8"	3.00	6 5/8 Reg P	6 5/8 Reg B	5.00	52.50
6	Filter Sub		8"		6 5/8 Reg P	6 5/8 Reg B	5.00	57.50
7	8" Cougar Mech Thruster		8"	2.81	6 5/8 Reg P	6 5/8 Reg B	31.00	88.50
8	9 - 8" Drill Collars		8"		6 5/8 Reg P	6 5/8 Reg B	270.00	358.50
9	Cross Over Sub		5"	3.00	6 5/8 Reg.	4 1/2" IF B	5.00	363.50
10	1 Joint 5" HWDP		5"	4.26	4 1/2" IF P	4 1/2" IF B	30.00	393.50
11	Drilling Jars				4 1/2" IF P	4 1/2" IF B	30.00	423.50
12	19 Joints 5" HWDP		5"	4.26	4 1/2" IF P	4 1/2" IF B	570.00	993.50
13	5" Drill Pipe to surface				4 1/2" IF P	4 1/2" IF B		

5. TIH and tag Float Collar. Close the pipe rams and test casing to 2000psi. Pump in ½ BBL increments and record the volume vs. pressure for comparison to the LOT.

a. This step assumes that a full string of 13 ⅜" has been run.
b. If any contingency strings have been run, consult the office for required test pressure and/or LOT values.

6. Break circulation and establish drilling parameters.

7. Drill out shoe track and drill 10' of new formation. Circulate 1 ½ times B/U.

8. Close the annular and perform and LOT.

a. Pump in ½ BBL increments and plot pressure vs. volume.
b. Do not exceed 17 ppge.
c. Leak-off pressure will be dependent upon actual 13 ⅜" shoe depth.
d. Record information on Wellview daily drilling report.
e. Contact office if LOT is less than 14.0 ppge.

9. Displace the hole to 10.0 ppg oil based mud.

a. We will be using Newpark Drilling Fluid's Optidrill OBM system.
b. If we do not get approval from the BLM for use of OBM, we will drill the interval with a water based mud system that can be salt saturated if salts are encountered.

10. Drill 12 ¼" vertical hole to approximately 8640'.

a. Begin circulating at the downlink flowrate of 650 – 690 gpm. Downlink TruTrak as required by Baker directional. Slowly increase to drilling circulating rate of 800 gpm. Begin applying weight on bit. Vary parameters as required to maximize ROP.
b. Use Baker inclination MWD to take surveys at least once per connection. The TruTrak is working if angles are maintained at or below 0.5°. If three surveys exceed this value, or significant inclination increases are observed from a set of previous surveys, the tool may need to be pulled and replaced.
c. Baker should have mud motors and MWD available as a contingency if the TruTrak tools fails to maintain vertical control or if severe losses or hole conditions dictate.
d. The Baker TruTrak sent to location should be able to drill with the programmed OBM or the contingent salt mud.
e. A selection of bits will be maintained at the rigsite. Bits may be pulled based on actual ROP and discussions between the office and field drilling team.

11. Actual casing point will be the depth at which we have penetrated the Gypsum Springs Member of the Twin Creek formation.(Approximately 500' – 900' into the top of the Twin Creek Formation.) This casing point allows us to isolate the potential hazards of the Arapien formation as well as lower the mud weight in the subsequent hole section. Final casing point will be determined as follows:

a. The casing seat hunt begins as soon as we have encountered the Twin Creek.
b. Begin control drilling if required at the first occurrence of oolitic limestone below 8,000' MD. Increase cuttings sample rate to 10' intervals.
c. Selman mud logger and wellsite geologist will monitor cuttings and correlate to offset mudlogs to determine stratigraphic position.

d. Two oolitic zones should be encountered: The Watton Canyon Member followed by the Slide Rock Member. (Cross sections and offset mud logs will be provided to the mudloggers and Pioneer drilling team.)
e. The Gypsum Springs member has a diagnostic lithology of brownish red siltstone, red shale, pink to white quartz sandstones, and anhydrite. The unit has an expected thickness of ~300' at the South Hills location.
f. Casing seat will be called 150' – 200' into the Gypsum Springs member.
g. The Selman onsite geologist and Caleb Pollock, the Pioneer project geologist, will confirm casing point.
h. 10,000' of 9 ⅞" pipe has been ordered. If casing point is deeper than 10,000', the 7 ⅝" contingency liner may be required.
i. If possible, drill additional footage as required to fit the pipe tally plus 10' of new hole to accommodate the mandrel hanger.

12. Once TD is called. circulate the hole clean and condition, survey and wiper trip to 13 ⅜" surface casing shoe. TIH to bottom and circulate the hole clean. Pull out of hole to run casing. Rack back BHA.

    a. Wiper trips will be at the discretion of the Lead Drilling Foreman and will be dependent on observed hole conditions.

13. R/U Halliburton E-line. Run wireline logs as follows:
    a. Run 1: Triple Combo
    b. Run 2: WAVE Dipole Sonic / Dipmeter (or XRMI image log)

14. P/U drilling BHA and to TD for wiper trip. Circulate the hole clean and POOH for 9 ⅞" casing. Lay down Baker TruTrak tools.

Hazard & Contingency Discussion

The primary hazards for this interval include potential salt zones and reactive clays. Offset wells have seen stuck pipe and unstable wellbores as a result. There is also a post drill risk of salt deformation that can pinch or collapse casing.

The primary mitigation of these risk is the planned use of oil based mud. This will inhibit the salt as well as prevent swelling of reactive clays. In certain recent Wolverine exploration wells, that have seen unstable formations that called for up to 17.0 ppg mud weights. If this is the case, asphaltine LCM material may also be used to help stabilize the borehole. As with the previous interval, observing cuttings volume and character will be critical in identifying issue with this well.

If we do not get approval for the use of OBM, we will use a water based mud system. In that case we need to be prepared to manage chemically induce wellbore instability as well as be able to salt saturate the mud system to prevent massive wash-outs.

If we encounter loss zones or unstable hole that would cause us to set the 9 ⅞" early, we can set a 7 ⅝" contingency liner. This will allow us to preserve at least a 6 ½" hole size to penetrate the Navajo sand which allows for the use of the wireline logging tools needed to properly evaluate a discovery.

Run & Cement 9 ⅞" Casing

Casing Specs:

Size	Weight	Grade	Conn.	Conn. OD	Tube ID	Drift	Burst	Collapse	Tensile
9-7/8"	62.8#	P-110	BTC	10.625"	8.625"	8.500"	12,180psi	10,260psi	1,725 kips

1. Lead Drilling Foremen will be responsible for bidding & selection of casing running crews. The use of a Tesco casing running tool or an NOV CRT type tools is required for this interval.
    a. Make sure that the Wood Group hanger and landing joint assembly is on location. Space out so that the landing joint will be 4 – 5 feet above the rig floor to allow for easy R/U of cementing lines.
    b. Have Wood Group emergency slips for the 9 ⅞" casing are on location prior to running pipe.

2. Pilot test the cement blend at least 24 hours prior to cementing. Make sure that Halliburton uses actual mix water for the test.

3. P/U 9 ⅞" intermediate casing. Weatherford will provide the float equipment and it should be delivered to location bucked onto the 9 ⅞" casing. A loose set of float equipment will also be shipped in case the primary floats fail. Ensure that the float activation dart is on location to trip the auto-fill equipment.

4. P/U shoe track as follows:
    - Weatherford Guide Shoe
    - 1 joint 9 ⅞" with one centralizer 5' above the Float shoe with a stop collar
    - 1 joint 9 ⅞" with one centralizer in the middle of the joint with a stop collar
    - Weatherford Auto-fill Float Collar

5. Finish running 9 ⅞" intermediate casing. Install Weatherford bow spring centralizers every third joint to surface.

6. P/U & M/U Wood Group Mandrel hanger and landing joint assembly.

    a. This assembly should be spaced out such that there is 4 – 5 feet of stick-up above the rotary to allow access for cementing equipment.

7. Slack-off and land mandrel hanger. No reciprocation will be required at this point.

8. Drop dart and activate float equipment.

9. R/U Halliburton Cementing and cement 9 ⅞" casing.

    Note: Prior to cementing
    - Notify BLM Office 24 hours prior to running and cementing casing.
    - Circulate a minimum of 1 ½ casing volumes or bottoms.
    - Halliburton's detailed cementing proposal in attached as Appendix C.

10. Pump cement. Displace with oil based drilling mud. Use top and bottom non-rotating plugs. Take wet and dry samples. Displace at maximum possible rate. Bump the plug with 500 psi over final displacement pressure.

11. Release pressure. Check float equipment. Record cement volumes and recipes pumped on the Wellview Daily Drilling Report.

12. Release landing tool, POOH and P/U Wood Group pack-off assembly.

13. RIH and install Wood Group 9 ⅞" wellhead pack-off. Wellhead details are attached in Appendix E.

Drilling Fluids – Newpark Drilling Fluids

The primary plan will be to drill the interval with Newpark Drilling Fluid's Optidrill OBM system. This allows for the best inhibition of salts and clays, as well as allowing for increases in mud weights required in recent Wolverine wells.

Mud weights should be kept as low as possible in this interval. Pump hi-vis sweeps as required for hole cleaning. If manageable losses are encountered pump LCM sweep including fibrous material, mica, and nut hulls. Asphaltine LCM may be used if severe wellbore instability is seen and high mud weights are required.

Newpark's mud program is attached as Appendix B.

General Mud Properties for 4100' – 8640':

MW	PV	YP	OWR	HTHP FL @ 250°	Electrical Stability	Soilds
10.0 - 16.0 ppg	15 - 30 cp	15 - 20	80:20	6.0 mls/30min	1000 mv	<8.0 %

Cementing - Halliburton

Halliburton's detailed cementing proposal is attached in Appendix C. Calculate cement volumes based on open hole volume + 50% excess. Cement slurries may also be adjusted on the observations and severity of lost returns. Planned top of cement will be 500' inside the 13 ⅜" casing shoe.

Foam cement is planned for this job. Cement volumes and recipes will be modified based on actual wellbore conditions.

8 ½" Production Hole / 5 ½" Production Casing (~8640' - ~12000')

Interval Goals

- To drill an 8 ½" through the Navajo sandstone
- Clean and condition the hole
- Maintain a vertical hole
- Run wireline logs and evaluate potential discover
- Run and Cement 5 ½" casing

Drilling Hazards / Risks

- Lost Circulation in permeable zones & fractures
- Uncontrolled deviation due to steep dips
- Proper casing point selection
- Proper bit selection to efficiently drill various lithologies, the Navajo sand may not be PDC drillable

Drilling 8 ½" Hole

1. Lay down any 12 ¼" BHA components as required.

2. Test Nabors BOP stack to 250 psi low / 5000 psi high. 10 minutes per test.

3. P/U a Hughes **Q507HX** bit and Baker's TruTrak vertical drilling system. M/U the BHA as follows:

ITEM NO.	DESCRIPTION	GAUGE OD	BODY OD	BODY ID	DOWN CONN	UP CONN	UNIT LENGTH	ACCUM. LENGTH
1	8 1/2" Bit	8 1/2"				4 1/2" Reg P	1.50	1.50
2	6 3/4" TruTrak with built in 8 3/8" Stab	8 1/2"	6 3/4"		4 1/2" Reg B	6 3/4" T2 B	31.00	32.50
3	6 3/4" T2 Stop sub		6 3/4"		6 3/4" T2 P	4 1/2" IF B	3.00	35.50
4	Float Sub		6 3/4"		4 1/2" IF P	4 1/2" IF B	5.00	40.50
5	Filter Sub		6 3/4"		4 1/2" IF P	4 1/2" IF B	5.00	45.50
6	6-3/4" Cougar Mech Thruster		6 3/4"	2.81	4 1/2" IF P	4 1/2" IF B	31.00	76.50
7	9 Joints 6-3/4" Drill Collars		6 3/4"	2.63	4 1/2" IF P	4 1/2" IF B	270.00	346.50
8	1 Joint 5" HWDP		5"	3.00	4 1/2" IF P	4 1/2" IF B	30.00	376.50
9	Drilling Jars		5"	4.26	4 1/2" IF P	4 1/2" IF B	30.00	406.50
10	19 Joints 5" HWDP		5"	3.00	4 1/2" IF P	4 1/2" IF B	570.00	976.50
11	5" Drill Pipe to surface		5"	4.26	4 1/2" IF P	4 1/2" IF B		

4. TIH and tag Float Collar. Close the pipe rams and test casing to 4000psi. Pump in ½ BBL increments and record the volume vs. pressure for comparison to the LOT.

    a. This step assumes that a full string of 9 ⅞" has been run.
    b. If any contingency strings have been run, consult the office for required test pressure and/or LOT values.

5. Break circulation. If required, lower mud weight to 10.0 ppg.

6. Establish drilling parameters & drill out shoe track and drill 10' of new formation. Circulate 1

½ times B/U.

7. Close the annular and perform FIT to 14.0 ppge.

   a. Pump in ½ BBL increments and plot pressure vs. volume.
   b. Do not exceed 14 ppge.
   c. Leak-off pressure will be dependent upon actual 9 ⅞" shoe depth.
   d. Record information on Wellview daily drilling report.
   e. Contact office if LOT is less than 14.0 ppge.

8. Drill 8 ½" vertical hole to approximately 12,000'.

   a. Begin circulating at the downlink flowrate of 390 gpm. Downlink TruTrak as required by Baker directional. Slowly increase to drilling circulating rate of 450 - 630 gpm. Begin applying weight on bit. Vary parameters as required to maximize ROP.
   b. Use Baker inclination MWD to take surveys at least once per connection. The TruTrak is working if angles are maintained at or below 0.5°. If three surveys exceed this value, or significant inclination increases are observed from a set of previous surveys, the tool may need to be pulled and replaced.
   c. Baker should have mud motors and MWD available as a contingency if the TruTrak tools fails to maintain vertical control or if severe losses or hole conditions dictate.
   d. The Baker TruTrak sent to location should be able to drill with the programmed OBM or the contingent salt mud.
   e. A selection of bits will be maintained at the rigsite. Bits may be pulled based on actual ROP and discussions between the office and field drilling team. The Navajo sandstone may not be PDC drillable so roller cone bits may be used in this section.
   f. There is a 500' target window at interval TD. Proper evaluation of the reservoir is highly dependent on drilling this well on target.

9. Actual casing point will be the depth at which we have penetrated the Navajo Sandstone and provided adequate rathole to run wireline logs. This could be as shallow as 150 – 400' below intermediate casing depth or as deep as 12,000':

   a. Permitted depth is 12,000'. Do not drill deeper than 12,000' without regulatory approval.
   b. Navajo Sandstone is light orange to white colored, medium to fine grained quartz sandstone. Grains are well rounded and sorted.
   c. Selman mud logger and wellsite geologist will monitor cuttings and correlate to offset mudlogs to determine stratigraphic position.
   d. On first detection of Navajo Sandstone, begin controlled drilling and monitor for gas / oil shows.
   e. Increase cuttings sample rate to every 10'.
   f. The project geologist may call a failure case if no Navajo is found or no shows are observed. At that point, we will proceed to P&A.
   g. If the project geologist call for evaluation, drill ~500' past the base of the Navajo sandstone. Drill to fit pipe tally plus 10' of rathole to accommodate the mandrel hanger system.
   h. Initial success diagnosis will be based upon strong hydrocarbon shows in the Navajo.
   i. Diagnostic indication of the Chinle formation will be the rapids loss of Navajo sand cuttings and introduction of reddish brown shale/sand/siltstones of the Chinle.
   j. If no shows are seen in the Navajo, failure case will be a few hundred feet into the

Navajo Sandstone.

10. Once TD is called. circulate the hole clean and condition. Pull out of hole to run casing. Rack back BHA.

    a. Wiper trips will be at the discretion of the Lead Drilling Foreman and will be dependent on observed hole conditions.
    b. If failure case is seen, a P& program will be approved by the BLM and sent separately.

11. R/U Halliburton E-line. Run wireline logs as follows:
    a. Run 1: Triple Combo
    b. Run 2: WAVE Dipole Sonic / XRMI Image Log
    c. Optional Run 3: MRIL – Nuclear Image Tool
    d. Optional Run 4: RDT – Pump Out Formation Tester
    e. Optional Run 5: VSP – Seismic Profile
    f. Wiper trips between logs will be at the discretion of the onsite drilling foreman based on observed hole conditions.

12. P/U drilling BHA and to TD for wiper trip. Circulate the hole clean and POOH for 5 ½" casing. Lay down Baker TruTrak tools.

Hazard & Contingency Discussion

If we use OBM, the risks for wellbore instability should be very manageable for this interval. Mud weight should be kept as low as possible to allow for analysis of shows and avoid loss circulation.

Hole deviation should be kept to a minimum in this and in previous section to allow for the best chance of penetrating the crest of the reservoir structure. The use of the TruTrak system is the best mitigation factor, but conventional directional tools may be required if the TruTrak fails.

The biggest performance risk in this interval is that the Navajo sandstone may be too abrasive to drill with PDC bit. We will attempt to initially drill the interval with a PDC but multiple rock bit runs may be required to TD the interval.

Run & Cement 5 ½" Casing

Casing Specs:

Size	Weight	Grade	Conn.	Conn. OD	Tube ID	Drift	Burst	Collapse	Tensile
5-1/2"	17#	HC L80	LTC	6.050"	4.892"	4.653"	7740psi	7860psi	348 kips

1. Lead Drilling Foremen will be responsible for bidding & selection of casing running crews. The use of a Tesco casing running tool or an NOV CRT type tools is required for this interval.
    a. Make sure that the Wood Group hanger and landing joint assembly is on location. Space out so that the landing joint will be 4 – 5 feet above the rig floor to allow for easy R/U of cementing lines.
    b. Have Wood Group emergency slips for the 5 ½" casing are on location prior to running pipe.

2. Pilot test the cement blend at least 24 hours prior to cementing. Make sure that Halliburton uses actual mix water for the test.

3. P/U 5 ½" production casing. Weatherford will provide the float equipment and it should be delivered to location bucked onto the casing. A loose set of float equipment will also be shipped in case the primary floats fail. Ensure that the float activation dart is on location to trip the auto-fill equipment.

4. P/U shoe track as follows:
    - Weatherford Guide Shoe
    - 1 joint 5 ½" with one centralizer 5' above the Float shoe with a stop collar
    - 1 joint 5 ½" with one centralizer in the middle of the joint with a stop collar
    - Weatherford Auto-fill Float Collar

14. Finish running 5 ½" production casing. Install Weatherford bow spring centralizers every third joint to the proposed TOC. (500' inside previous casing shoe).

15. P/U & M/U Wood Group Mandrel hanger and landing joint assembly.

    a. This assembly should be spaced out such that there is 4 – 5 feet of stick-up above the rotary to allow access for cementing equipment.

16. Slack-off and land mandrel hanger. No reciprocation will be required at this point.

17. Drop dart and activate float equipment.

18. R/U Halliburton Cementing and cement 5 ½" casing.

    Note: Prior to cementing
    - Notify BLM Office 24 hours prior to running and cementing casing.
    - Circulate a minimum of 1 ½ casing volumes or bottoms.
    - Halliburton's detailed cementing proposal in attached as Appendix C.

19. Pump cement. Displace with water mixed with corrosion inhibitor and biocide. Use top and bottom non-rotating plugs. Take wet and dry samples. Displace at maximum possible rate. Bump the plug with 500 psi over final displacement pressure.

20. Increase bump pressure and test the casing to 4000psi for 30 minutes.

21. Release pressure. Check float equipment. Record cement volumes and recipes pumped on the Wellview Daily Drilling Report.

22. Release landing tool, POOH and P/U Wood Group pack-off assembly.

23. RIH and install Wood Group 5 ½" wellhead pack-off. Wellhead details are attached in Appendix E.

24. R/D, move-off, and release Nabors 169.

Drilling Fluids – Newpark Drilling Fluids

The primary plan will be to drill the interval with Newpark Drilling Fluid's Optidrill OBM system. Mud weights should be kept as low as possible in this interval. Pump hi-vis sweeps as required for hole cleaning. If manageable losses are encountered pump LCM sweep including fibrous material, mica, and nut hulls. Asphaltine LCM may be used if severe wellbore instability is seen and high mud weights are required.

Newpark's mud program is attached as Appendix B.

General Mud Properties for 8720' – 12000':

MW	PV	YP	OWR	HTHP FL @ 250°	Electrical Stability	Soilds
9.0 - 10.0 ppg	11 - 15 cp	8 -12	80:20	6.0 mls/30min	1000 mv	<8.0 %

Cementing - Halliburton

Halliburton's detailed cementing proposal is attached in Appendix C. Calculate cement volumes based on open hole volume + 30% excess. Cement slurries may also be adjusted on the observations and severity of lost returns. Planned top of cement will be 500' inside the 9⅞" casing shoe.

If a P&A is required, a separate cementing recommendation will be sent to the rig.

Appendix A – Regulatory Information / Permit Package

Sent Separately via E-mail

Appendix B – Newpark Drilling Fluid Program

Sent Separately via E-mail

Appendix C – Halliburton Cementing Proposal

Sent Separately via E-mail

Appendix D – Enventure SET Expandable Liner Contingency

Sent Separately via E-mail

Appendix E – Weatherford Drill Shoe Information

Sent Separately via E-mail

Appendix F – Wood Group Primary Wellhead Detail

Sent Separately via E-mail

Appendix G – Weatherford Contingency Liner Proposal

Sent Separately via E-mail

Appendix H – Lesson Learned Tracking Sheet Example

Sent Separately via E-mail

Memo

To: Tom Selman
From: Caleb Pollock
CC: Skip Rhodes, Eric Burnett, Jed Jenkins, Walter Mockler
Date: 10/18/10
Re: South Hills 6-1 Isotube gas sampling intervals

Please use the following formation-keyed intervals for isotube gas sampling on the South Hills Fed 6-1:

Arapien – 100 ft
Twin Creek (all member) – 50 ft
Navajo Sandstone – 30 ft

For the duration of any shows please use a 10 ft sampling interval.

The number of isotubes ordered is based on: depth yet to drill and the frequency and duration of shows in offset wells. If we encounter a greater number of shows in the section than offsets we will use up isotubes faster than anticipated. Please notify me when we have used 50% of our stock of isotubes. That will give ample time to order additional if necessary.

Memo

To: Tom Selman
From: Caleb Pollock
CC: Skip Rhodes, Eric Burnett, Jed Jenkins, Walter Mockler
Date: 10/21/10
Re: **UPDATED** – South Hills 6-1 Isotube gas sampling intervals

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After discussing our sampling protocol with a technical specialist in geochemistry we have modified our procedure. Please use the following directions for isotube gas sampling on the South Hills Fed 6-1:

Sampling shows:
- If shows are infrequent sample every show
- If shows are frequent one sample in 300 to 500 feet will suffice
- If a "much better" show occurs less than 300 to 500 feet from the previous sample collect it also
- Mudloggers are asked to use their best judgment frequency and quality of shows
- Do not be concerned with over sampling shows

Arapien: 1000 ft (for reference samples) and/or with the show sampling protocol above
Twin Creek: 100 ft and/or at every show
Navajo: 30 ft and/or at every show

The number of isotubes ordered is based on: depth yet to drill and the frequency and duration of shows in offset wells. If we encounter a greater number of shows in the section than offsets we will use up isotubes faster than anticipated. Please notify me when we have used 50% of our stock of isotubes. That will give ample time to order additional if necessary.

Memo

To: Eric Burnett
From: Caleb Pollock
CC: Mike Reel, Skip Rhodes, Jerry Treybig, Jed Jenkins, Walter Mockler
Date: 11/5/2010
Re: Are we in the Navajo?

The PDC bit which was pulled from approximately 6020' MD had a similar harshly abraded appearance to one known to have drilled into the Navajo Sandstone in an offset well. Additionally, the cuttings retrieved from the same depth had a similar look to those expected in the Navajo Sandstone. Thus, the question was raised: Are we in the Navajo? My answer in short: No.

Using the WXC State 1 for correlation I am certain we are still drilling in the Arapien Formation. A sandstone interval at 9650' MD in the State 1 is similar to that encountered in our well: a medium-fine grained, red-orange sub-arkosic(?) sandstone, overlain by red-brown mudstones. Picard and Uygur (1982) suggest that terrigenous sandstones in the Arapien Fm. are derived from a Navajo Sandstone provenance to the east. So it is of little surprise that these Arapien sands have a similar effect on a PDC bit. In addition, the shallowest structural position possible for the top of the Navajo is 1200' below our present depth. Projecting the last recorded dip from the State 1 (45° west) to our location puts the top Navajo at 7200' MD, assuming no additional reverse faulting. Dips are anticipated to decline in an easterly direction, toward the South Hills location, placing the top Navajo appreciably below 7200'.

PICARD, D.M., and UYGUR, K., 1982, Mixed terrigenous-carbonate rocks in Jurassic Arapien Shale of Central Utah, in NIELSON, D.L., ed., Overthrust Belt of Utah: Utah Geological Association Publication 10, p. 181-198.

Memo

To: Eric Burnett
From: Caleb Pollock
CC: Tom Spalding, Chris Cheatwood, Skip Rhodes, Mike Reel, Jed Jenkins, Walter Mockler
Date: 11/10/2010
Re: Facts and alternative hypotheses

Until we reached 5800' MD the formation composition and thicknesses were consistent with offset wells and outcrops. We then drilled into a well-cemented, medium-to-fine grained, red-orange, sub-arkosic(?) quartz sandstone. Sands of this nature are not inconsistent with the Arapien formation (Picard & Uygur, 1982). The WXC State 1 has a 500 foot thick sandstone interval matching the above description. However, having now drilled nearly 1000' TVT of this sandstone, there is growing concern that we have already drilled into the Navajo Formation. This thickness now exceeds that observed in Arapien sands of offset wells and that which is expected for marginal marine sandstones.

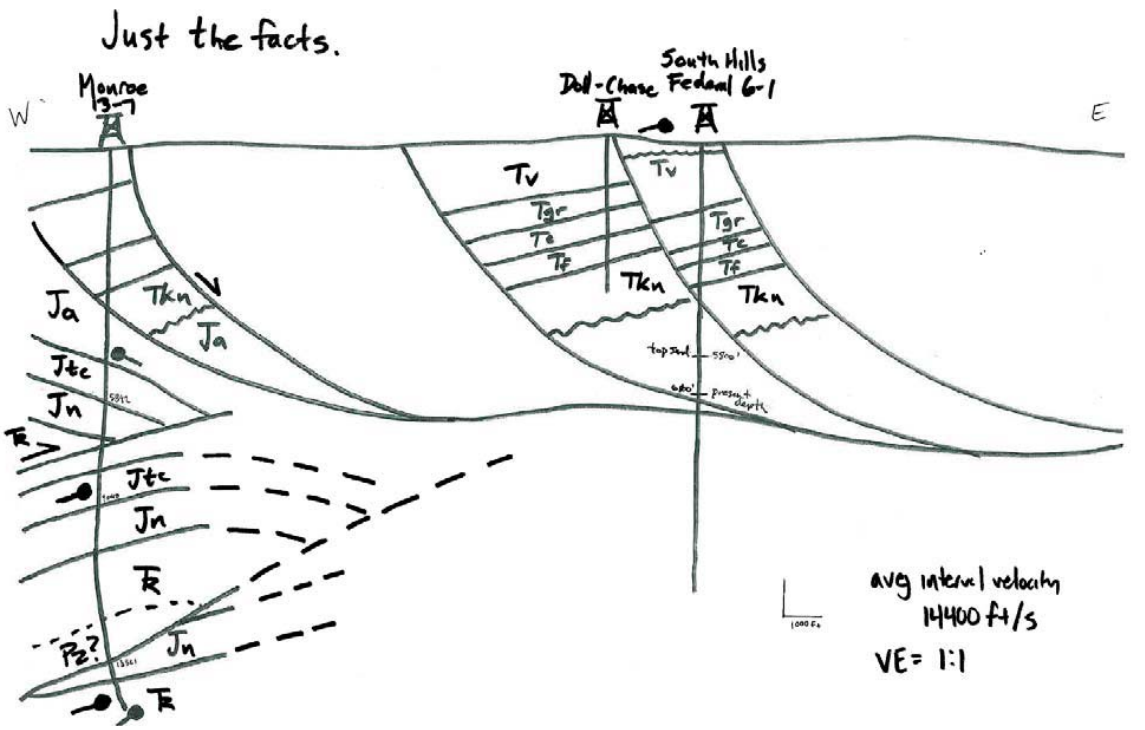
In *general* the upper Arapien Fm. is composed of sandstones, siltstones and mudstones and grades into marls, limestones and evaporites near the base. In the mud log so far we have seen an inversion of this general compositional succession – indicating that we may have crossed one of the many reverse faults thought to be present, though not seismically imaged, in the Arapien section. Though, the same relationship would be observed in drilling a normal stratigraphic sequence – Twin Creek into Navajo. With the data at hand there is no possible method to distinguish which sand we are in. The sands should have distinctly different internal stratigraphic architecture, something we cannot discern from cuttings.

I have revisited the time-to-depth conversion of the prospect interpretation. The original depth-converted map uses a 14400 ft/sec average interval velocity from surface to top Navajo – consistent with interval velocities calculated from sonic logs in offset wells penetrating similar stratigraphy. Given the similarity of the formation thicknesses (with the exception of the volcaniclastics) I continue to stand by an interval velocity of similar rate: 12500 – 14500 ft/s placing the interpreted top Navajo at 7500 – 9000 ft MD. Nonetheless, time-to-depth conversion still has some uncertainty in this exploration prospect.

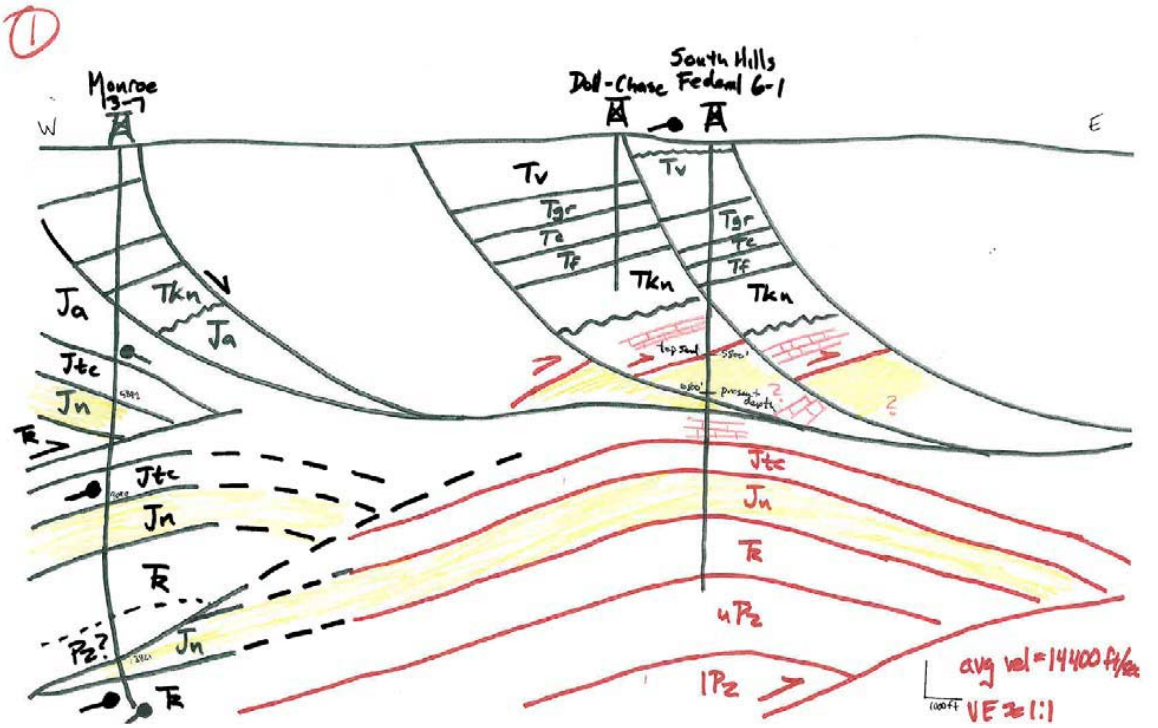
A myriad of interpretations are conceivable which place the Arapien Sand or the Navajo Sandstone at 5800' MD in the South Hills Federal 6-1. The table and cross sections below are a sample, which I submit as potential alternatives. These alternatives are ranked in order of better to worse for the ultimate outcome of the prospect, and the numbers correspond to those on the sections. The illustrations are scaled line drawings from the Monroe 13-7 well through the South Hills 6-1 location, and other wells are projected as appropriate. Black lines in the sections represent what is known – just the facts. These include well tops, dip meter information and fault cuts. Red lines are interpretation alternatives.

Just the facts:

South Hills Federal 6-1 Alternative Interpretations.	
Better | | | | V Worse	1. Unusually thick sandstone in Arapien 2. Typical thickness (300-500' TST) but steeply dipping (60-85°) sandstone in the Arapien 3. Multistoried structural culmination with the uppermost thrust sheet dissected by extensional faults 4. Single storied structural culmination dissected by extensional faults 5. Single stored structural culmination with local and *extreme* velocity anomaly

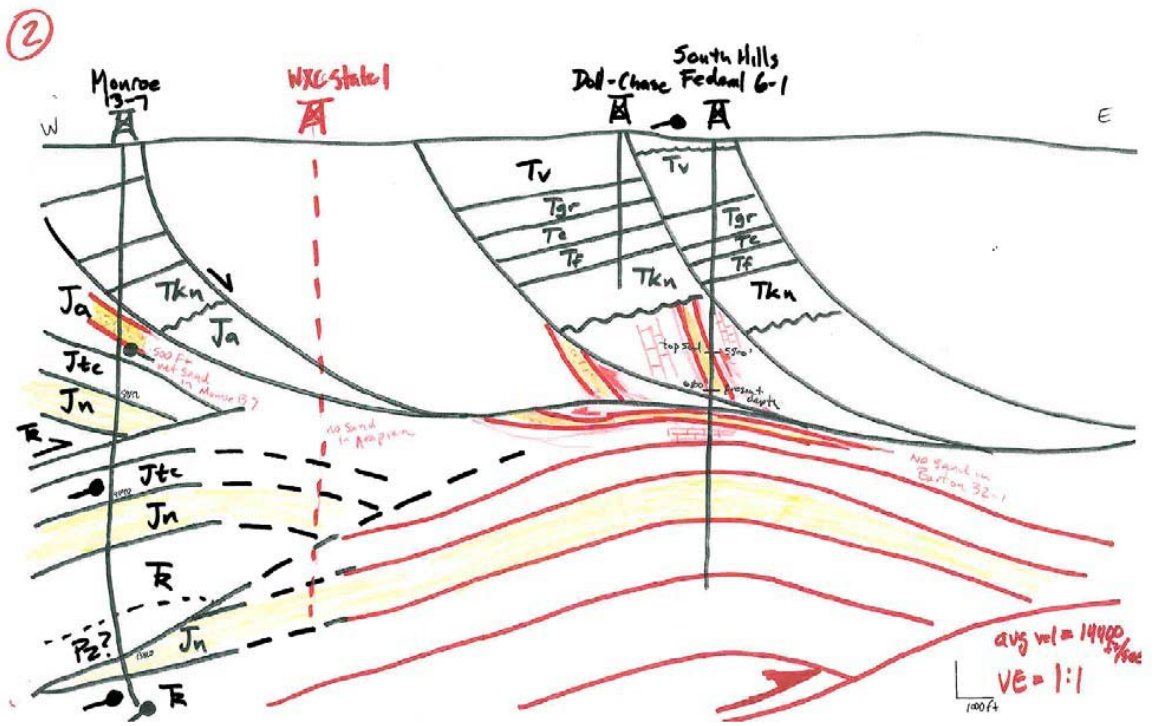


1.



An Arapien sandstone with a thickness not observed in offset wells or outcrop. Deeper structure remains as original interpretation of seismic data. Verified by drilling out of sandstone and back into limestone of lower Arapien or Twin Creek. Could also be verified with paleontology.

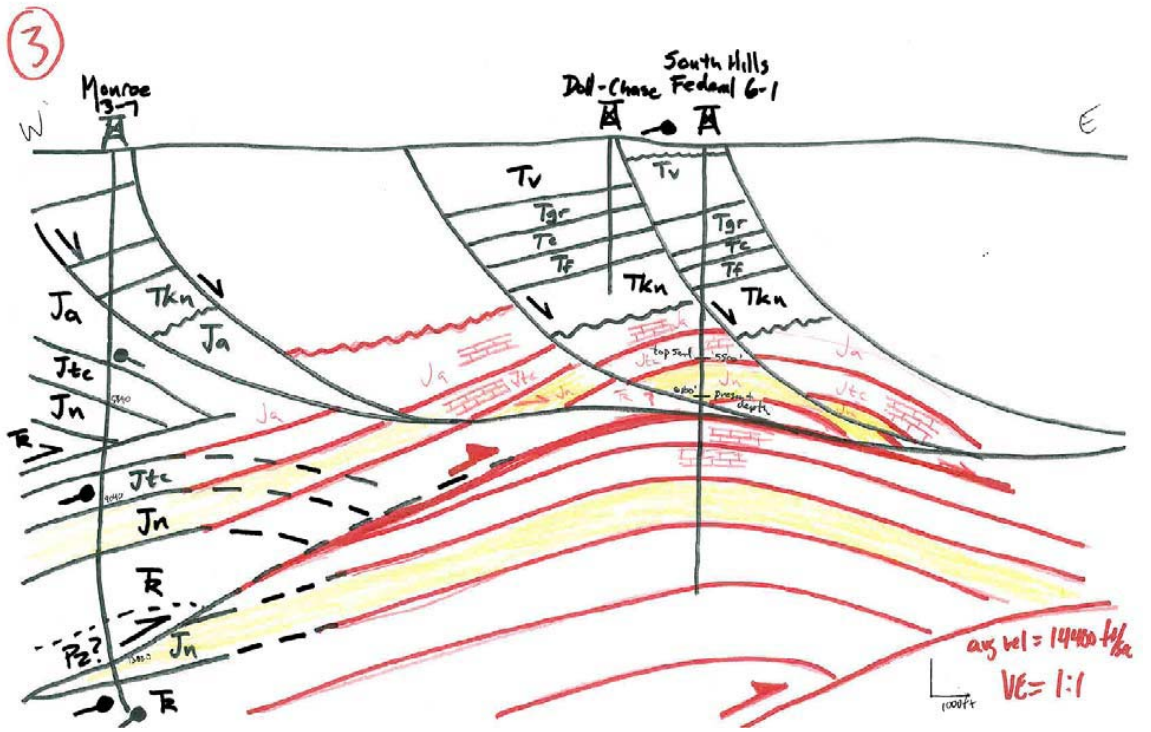
2.



A sandstone within the Arapien of reasonable thickness but having a steep dip. It is common to observe steeply dipping to overturned bedding in the Arapien formation in outcrop and the wellbore. I have interpreted a rather simple structure in the Arapien for this scenario, other possible structures include isoclinal folds and imbricated sandstone horses.

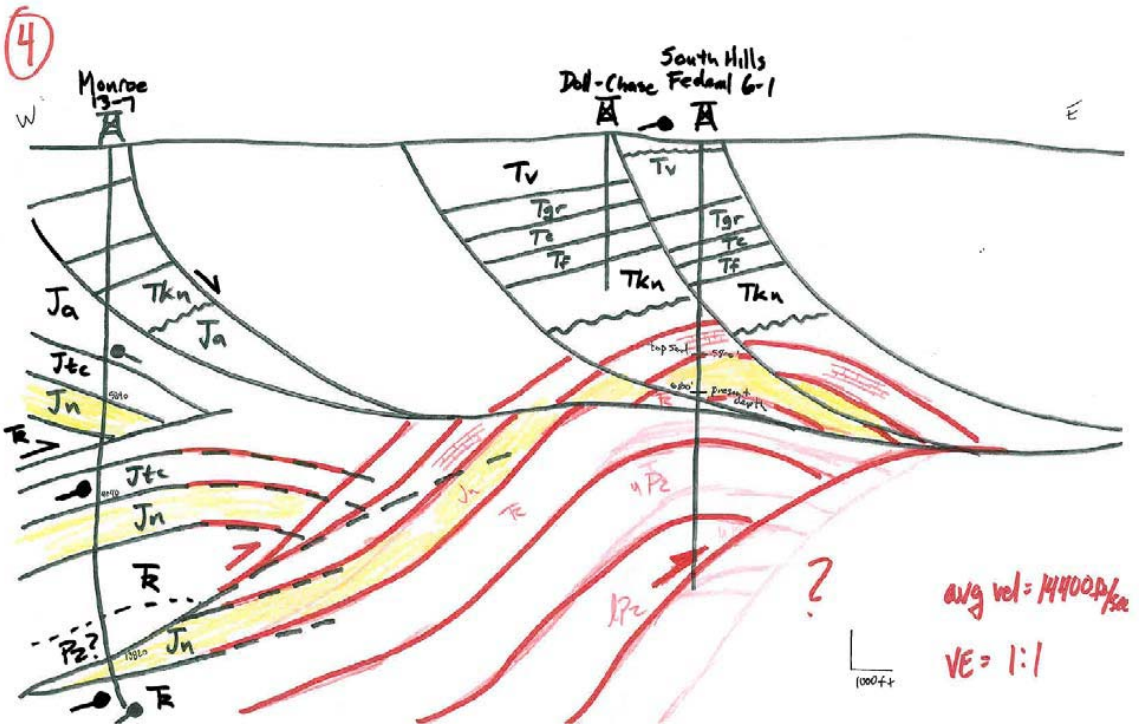
Verified as previous model and with dipmeter.

3.



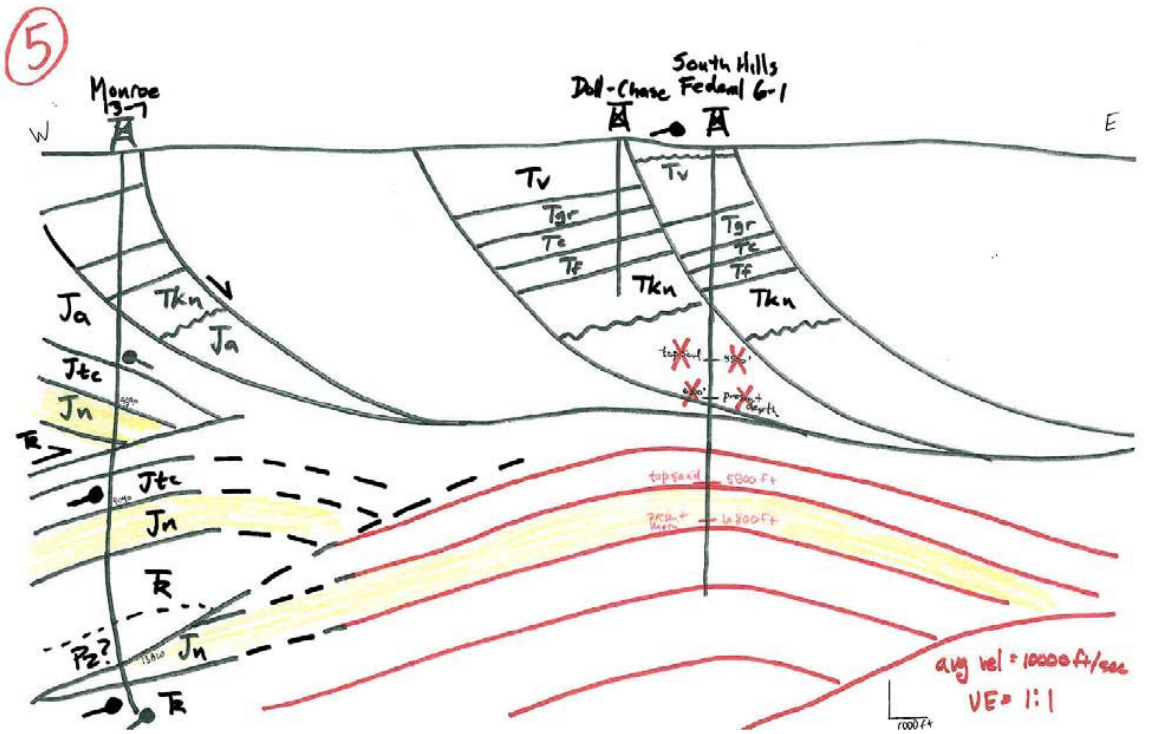
A multistoried structural culmination with the uppermost thrust sheet dissected by extensional faults. Verified by drilling out of base sandstone and into Triassic and back into Arapien/Twin Creek of next deeper structure. Upper most thrust sheet could also be a west-verging thrust (back thrust).

4.



Single storied structural culmination dissected by extensional faults. Requires a *very* steep thrust ramp. Would indicate a deeper structure to the east of the prospect. Verified by drilling out of base sandstone and into Triassic and Paleozoic at 8000-9000’ MD.

5.



Single stored structural culmination with local and *extreme* velocity anomaly. A 10000 ft/sec velocity would be very unusual. It would also have to be *very* localized as there are three wells within 5 miles of the prospect with average interval velocities greater than 14000 ft/sec. I find this the least satisfactory scenario.

Memo

To: Central Utah Exploration Partners
From: Caleb Pollock
CC: Skip Rhodes, Eric Burnett, Bob Kenney
Date: 11/19/10
Re: South Hills 6-1 status and plan forward

At 5960' MD we encountered a nearly 1200' thick sand interval consistent with the Navajo Sandstone. Previously, I have made the claim that this could also be a sand interval within the Arapien formation overlying the Navajo interval. I now reject this hypothesis in light of the enormous thickness of the sand coupled with the similarity of the 400' section overlying the massive sand to the mud log descriptions of the Gypsum Springs member of the Twin Creek Formation; though, a palynological analysis of the overlying section will be the final arbiter of the interpretation. At 7105' MD it appears that we have drilled out of the base of the sand and into a carbonate (dolomite + limestone) interval of uncertain age.

How did the Navajo Sandstone get to be 1500-3000 feet shallower than prognosis? Several options are available: a velocity anomaly affecting time to depth conversion, unrecognized structural complexity or a combination of both. My time to depth conversion utilized rock velocity data gathered from offset wells; considered be a "best practices" interpretation of velocity at Pioneer. Bob Kenney (Burnett's interpreter) points out that the seismic stacking velocities over much of the prospect are much lower than would be suggested by offset well information. However, seismic stacking velocities do not always correspond one-to-one with true subsurface velocities. Though when an average velocity accounting for the low stacking velocities is used, the seismically interpreted Navajo interval converts to the approximate depth where it was encountered in the borehole. An unequivocal determination of the subsurface velocity overlying the prospect will be made in the evaluation described below. Unrecognized structural complexity would be no surprise to other operators in the trend past and present. The seismic data at its best has numerous possible interpretations. I have opted for a "simplest solution" interpretation of the seismic data and the surrounding subsurface data. Though it is different, Bob Kenney's interpretation is not overly complex either. I my opinion we have both been appropriately parsimonious in our interpretation of the data; that is we have not over-interpreted.

Our operational plan going forward is to drill ahead 200 feet or to a depth sufficient to determine that we are indeed below the massive sand. At that point if we will condition the hole and prepare for a logging runs. Our evaluation program is as follows:

- Palynological evaluation of strata above and below the massive sand
  - We will not have results until Nov 27th or 28th.
- Log runs by Halliburton
  - Triple Combo
  - WAVE Dipole sonic
  - XRMI Borehole imager – dipmeter mode
  - Reservoir Fluid Test – if justified by log analysis.
  - Zero offset VSP – measurement of subsurface velocities

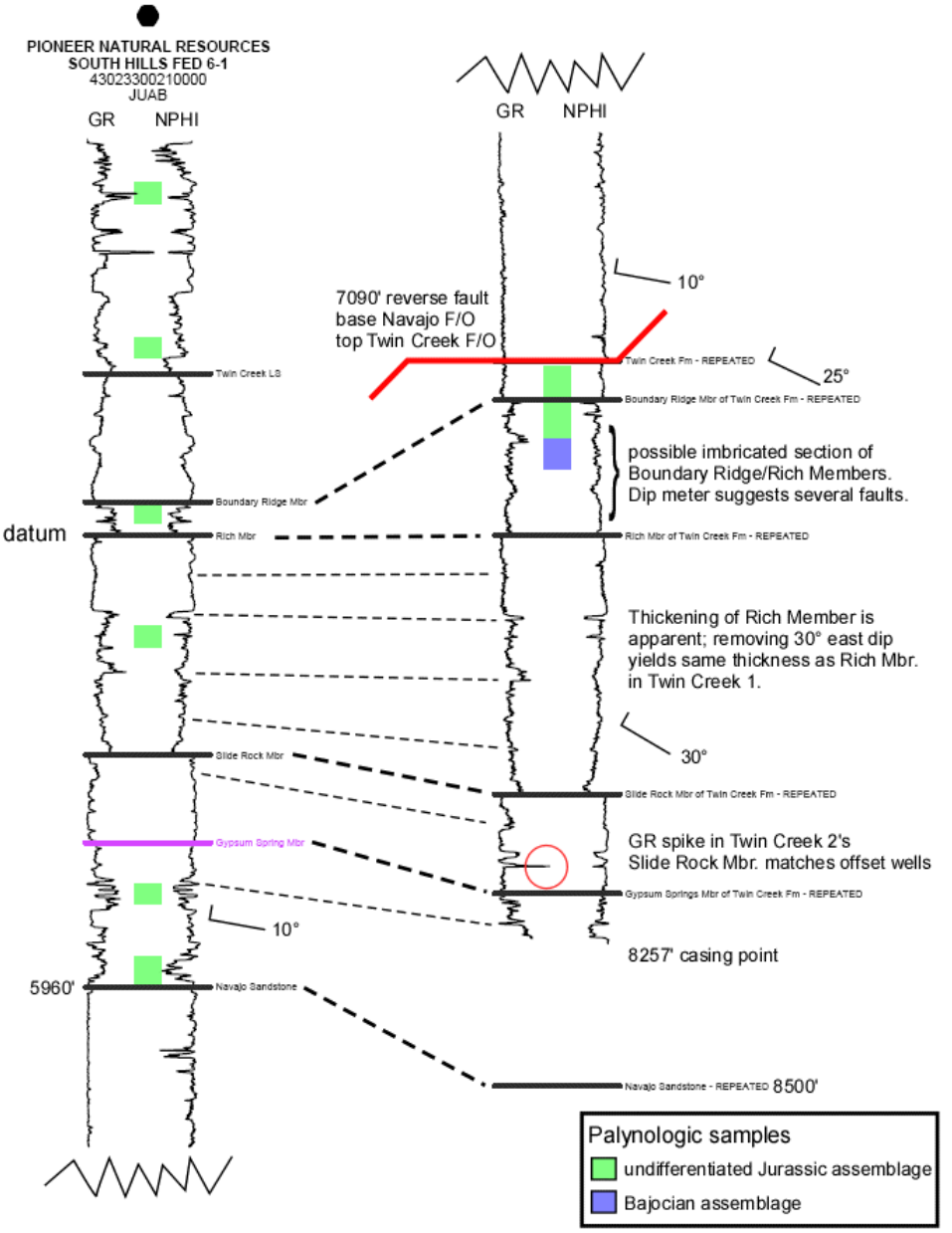
If we maintain our current drilling rates and remain "sand free" for the next 200 feet we will likely begin logging operations on Monday, November 22nd and continue through Friday, November 26th.

Several options will result from the evaluation of the combined data outlined above. The two most noteworthy of which are: side track or drill ahead. If the palynology is indicative of a Navajo penetration, the dip meter indicates that it may be possible to get up dip of our present “Navajo” penetration, the logging and RDT gives us positive indicators of hydrocarbons, and a sufficiently economic area exists above our present penetration - then a sidetrack may be warranted. A tentative location for a sidetrack is 1700-1800 feet east-northeast of the current wellbore location, and 300-500 feet higher than the present “Navajo” penetration. A “drill ahead” scenario may be justified by determination of the age of the strata underlying the massive sand. As before, if palynology indicates we have drilled the Navajo and determines that the strata beneath the massive sand is *younger* than the Navajo then there almost certainly exists a second Navajo interval beneath our present depth. If the palynology indicates that the unit beneath the massive sand is *older* than the Navajo there is more ambiguity of the existence of a deeper Navajo interval; but its existence is not precluded. I look forward to finding the facts.

Memo

To: Skip Rhodes
From: Caleb Pollock
CC: Eric Burnett
Date: 12/06/2010
Re: South Hills 6-1 updated correlations

Early palynology results indicated that we drilled out of the faulted base Navajo 1 into a repeat section of the Twin Creek. Wireline log correlation corroborates this interpretation (see figure). A number of conspicuous markers are present in the Twin Creek section. Notably, the Rich Member has a distinct GR profile, easily correlated to offset wells. By log correlation the well has penetrated approximately 130 feet into the Gypsum Spring Member leaving an apparent thickness of 270 feet remaining to the anticipated top of Navajo 2 at 8500’ MD. However, additional undetected imbrications of the Twin Creek section are possible.



Twin Creek 1 (above Navajo 1) correlated to Twin Creek 2 (below Navajo 1). Bajocian assemblage diagnostic of Boundary Ridge/Rich Members of Twin Creek.

Newpark Drilling Fluids, L.L.C. — **Mud Report**

Jerry Ard	Evanston WY	
Tel:	Tel:	Tel:
Mbl: (985) 688-1226	Tel:	Tel:
Pgr:	Fax:	Fax:

MudPIT™

Date	09/18/2010	MD (ft)	168
Report #	1	TVD (ft)	168
Spud Date	09/22/2010	Bit MD (ft)	104
API Well #	4302330021	Bit TVD (ft)	104
Present Activity		Mudding Up	

Operator:	**PIONEER NATURAL RESOURCES**	**Contractor:**	**Nabors 169**
Report For:	**Dean Baker/Billy Vigil**	**Report For:**	**Coby Huffer**

Well Name / No.	Field / Block	Sur - Abs or Sec-T-R	County / Parish	State / Province	Country
SOUTH HILLS FEDERAL # 6-1			JUAB COUNTY	UTAH	USA

Drill String	OD(in)	ID(in)	Length(ft)
BIT AND	8.25	2.875	80.21
DC	8.0	2.875	23.79

Pump and Circulating Data (check box for Riser Boost)

Pump #	1 ☐	2 ☐	3 ☐	Stand Pipe (psi)		0
Liner (in)	6.5	6.5	0.0	Calc P.Loss (psi)		0
Stroke (in)	12.0	12.0	0.0	ECD (ppg)		8.50
stk/min	0	0	0	Pump # 1	Min	Stks
Efficiency (%)	95	95	95	Surf-Bit	0	0
(bbl/stk)	0.117	0.117	0.000	Bott's Up	0	0
(gpm)	0	0	0	Surf-Surf	0	0
Total (gpm)		0		Tot. Circ.	0	0

Bit Data		Leak Off Test(ppg)	0	Active Volume (bbl)		Storage Volume(bbl)		Volume Reconciliation (bbl)			
Bit Size (in)	17.5	TFA (in²)	1.374	Annulus:	31	Storage 1		Starting Volume	0	Total Additions:	803
% Washout	10	Noz-Vel (ft/se)		Drill String:	1	Storage 2		Water Additions	791	Hole Losses	
Bit Type:	HC C HCD5072	Imp-Frc (psi)		Pits:	771	Storage 3		Oil Additions		SCE Losses	
Bit #:	1	PSI Loss (psi)		Slug Pit:	0	Storage 4		Chemical Additions:	12	Other Losses	
(1/32 in)	16 16 16 16	HSI (hp/in²)		Total Circulating Volume		Total Storage Volume		Barite Additions:		Total Losses	
16 16 16		Sys HHP (hp)		802		0		Whole Mud Add:		Mud to Storage:	
		Sys HHP %		Volume Below Bit		23		Other Additions		Ending Volume:	803

Fluid Type	Water-based	Fluid Properties							
Sample Temperature (°F)		Pit	60.0	Pit	62.0				
Time Sample Taken:		3:30 AM		4:00 PM					
Depth @ Time of Sample (ft)		168							
MudWt [ppg] Unwt'd		8.5		8.4					
Funnel Viscosity (sec/qt)		48		28					
Plastic Vis. (cp) @	120 (°F)	12		1					
Yield Point (lbf/100ft²)		10							
Gel Strength (10s/10m) (lbf/100ft²)		6	5						
Gel Strength (lbf/100ft²) @	30 min	5							
API Filtrate (mL/30 min)		14.0							
HPHT Filtrate (mL) @	250 (°F)								
Cake (1/32 in) (API/HPHT)		2							
Water (% by vol)		98.8		99.5					
Other Fluid (% by vol)	SG 1.20								
Non-Aq (% by vol)	SG 0.84								
Solids (% by vol)		1.2		0.5					
Sand (% by vol)									
MBT Cap (Bent Equiv.)(lb/bbl)		15.5							
pH @	120 (°F)	10.5							
Pm (Mud Alkalinity)(mL)		0.7							
Pf/Mf (Filtrate Alkalinity)(mL)		0.3	0.6						
Chlorides (mg/L)		120		120					
Hardness (mg/L as Calcium)		180							
LGS (% by vol)	SG 2.60	1.2		0.5					
LGS(lb/bbl)		10.884		4.535					
HGS (% by vol)	SG 4.20								
HGS (lb/bbl)									
Corrected Solids (% by vol)		1.2		0.5					

Hydraulics (ft/min)

Annular Interval	Ann. Vel.	Crit. Vel.
OH:DC	0.00	248.59
OH:BIT AND MOTOR	0.00	249.67

Operating Data

Avg ROP(ft/hr)	
WOB (Klbs)	
Rotating Weight	
Rotatary Speed	
Rotating Hrs.	
Sliding Hrs.	
Non-Drlg Hrs.	
P/U (lbs)	
S/O (lbs)	
Torque (lbf-ft)	
Angle	
Azimuth	
Surv. Depth(ft)	

Viscometer Rdgs		Solids Control Equipment					
600	34	Shaker	Screens		Hrs	U/F	O/F
300	22	1	84/84/84/84	De-Sander			
200	14	2	84/84/84/84	De-Silter			
100	12	3		Centrifuge			
6	6	4		Centrifuge			
3	5	M/C					

Active Products

Materials	Initial	Rec'd	Used	Balance	Cost (US$)
Bulk Tank (50 ton \ ea)	0	180	22	158	1,100.00
Bulk Tanks Blower (1 \ ea)	0	90	11	79	385.00
Caustic Soda (50 lb \ sk)	0	54	0	54	0.00
Cedar Fiber (40 # \ sk)	0	120	112	8	2,128.00
Dyna Fiber Cor (25 # \ sk)	0	150	148	2	2,930.40
DynaDet (5 gal \ pail)	0	20	0	20	0.00
Engineering (24 hr) (1 \ ea)	0	0	11	0	5,500.00
FIBER SEAL (40 # \ sk)	0	120	0	120	0.00
Lime (50 lb \ sx)	0	50	0	50	0.00
Mica F (50 lb \ sk)	0	144	144	0	2,815.20
New Carb Med (50 # \ sk)	0	126	126	0	1,386.00
NewGel (100 \ sx)	0	490	175	315	875.00
NewPHPA (5 Gal \ Pail)	0	64	6	58	480.00
NewPac R (50 lb \ sx)	0	20	0	20	0.00
NewPhalt (50 lb \ sx)	0	50	0	50	0.00
NewZan D (25 lb \ sx)	0	40	0	40	0.00
OBM Lab (1 \ ea)	0	90	4	86	220.00
Pallets (1 \ ea)	0	40	40	0	720.00
SAPP (50 # \ sx)	0	20	0	20	0.00
Shrink Wrap (1 \ ea)	0	38	38	0	456.00
Soap Sticks (ea \ ea)	0	150	0	150	0.00
Soda Ash (50 # \ sk)	0	49	4	45	115.00

Treatment Recommendations

Last 24 hrs: Began mudding up adding caustic, gel, New PHPA, Cedar Fiber, Mica, DynaFiber and NewCarb.

Next 24 hrs: Will continue to mud-up, bringing system within prescribed parameters. Will by-pass shaker screens and monitor sand traps dumping traps when necessaey.

Comments/Remarks

Completed rig-up. Filled pits with water. Picked up bit and BHA and spudded in. Began loosing fluid almost immediately. At a depth of 168 ft., losses increased making it impossible to keep up with water. Decision was made to mud-up. Continuing to mud-up at report time.

****Trucking charges from DT: EVA2306, EVA2307B, EVA2308, EVA2309

Daily Tax (US$)	Trucking (US$)	Daily Cost (US$)	26,424.60
0.00	7,314.00	Cumulative Cost (US$)	26,424.60

The information in this report is based on our experience and represents our best judgment in the matter and is intended to be helpful, but we cannot assume responsibility for any loss or accident that may result from its use. Furthermore, nothing contained herein shell be construed as a recommendation to use any product in conflict with existing patents covering any materials or uses.

Newpark Drilling Fluids, L.L.C.

Mud Report

Jerry Ard	Evanston WY	
Tel:	Tel:	Tel:
Mbl: (985) 688-1226	Tel:	Tel:
Pgr:	Fax:	Fax:

MudPIT™

Date	09/23/2010	MD (ft)	206
Report #	2	TVD (ft)	206
Spud Date	09/22/2010	Bit MD (ft)	72
API Well #	4302330021	Bit TVD (ft)	72
Present Activity		Waiting On Motor	

Operator:	**PIONEER NATURAL RESOURCES**	**Contractor:**	**Nabors 169**
Report For:	**Dean Baker/Derrick Berry**	**Report For:**	**Coby Huffer**

Well Name / No.	Field / Block	Sur - Abs or Sec-T-R	County / Parish	State / Province	Country
SOUTH HILLS FEDERAL # 6-1			JUAB COUNTY	UTAH	USA

Drill String	OD(in)	ID(in)	Length(ft)
BIT AND	8.25	2.875	72

Pump and Circulating Data (check box for Riser Boost)

Pump #	1 ☐	2 ☐	3 ☐	Stand Pipe (psi)		0
Liner (in)	6.5	6.5	0.0	Calc P.Loss (psi)		0
Stroke (in)	10.0	10.0	0.0	ECD (ppg)		8.50
stk/min	0	0	0	Pump # 1	Min	Stks
Efficiency (%)	95	95	95	Surf-Bit	0	0
(bbl/stk)	0.097	0.097	0.000	Bott's Up	0	0
(gpm)	0	0	0	Surf-Surf	0	0
Total (gpm)		0		Tot. Circ.	0	0

Bit Data		Leak Off Test(ppg)	0	Active Volume (bbl)		Storage Volume(bbl)		Volume Reconciliation (bbl)			
Bit Size (in)	17.5	TFA (in²)	1.374	Annulus:	21	Storage 1		Starting Volume	803	Total Additions:	14
% Washout	10	Noz-Vel (ft/se)		Drill String:	1	Storage 2		Water Additions		Hole Losses	14
Bit Type:	HC C HCD5072	Imp-Frc (psi)		Pits:	0	Storage 3		Oil Additions		SCE Losses	
Bit #:	1	PSI Loss (psi)		Slug Pit:	0	Storage 4		Chemical Additions:	14	Other Losses	
(1/32 in)	16 16 16 16	HSI (hp/in²)		Total Circulating Volume		Total Storage Volume		Barite Additions:		Total Losses	14
16 16 16		Sys HHP (hp)		22		0		Whole Mud Add:		Mud to Storage:	
		Sys HHP %		Volume Below Bit		48		Other Additions		Ending Volume:	803

Fluid Type	Water-based	Fluid Properties			
Sample Temperature (°F)		Pit 60.0	Pit 62.0		
Time Sample Taken:		3:00 AM	3:00 PM		
Depth @ Time of Sample (ft)		206	168		
MudWt [ppg] Unwt'd		8.5	8.5		
Funnel Viscosity (sec/qt)		50	50		
Plastic Vis. (cp) @ 120 (°F)		12	12		
Yield Point (lbf/100ft²)		12	10		
Gel Strength (10s/10m) (lbf/100ft²)		10 8	8 8		
Gel Strength (lbf/100ft²) @ 30 min		8	8		
API Filtrate (mL/30 min)		8.0	9.0		
HPHT Filtrate (mL) @ 250 (°F)					
Cake (1/32 in) (API/HPHT)		2	2		
Water (% by vol)		98.8	98.8		
Other Fluid (% by vol)	SG 1.20				
Non-Aq (% by vol)	SG 0.84				
Solids (% by vol)		1.2	1.2		
Sand (% by vol)					
MBT Cap (Bent Equiv.)(lb/bbl)		22.5	22.5		
pH @ 120 (°F)		10.5	10.5		
Pm (Mud Alkalinity)(mL)		0.7	0.7		
Pf/Mf (Filtrate Alkalinity)(mL)		0.3 0.5	0.4 0.6		
Chlorides (mg/L)		120	120		
Hardness (mg/L as Calcium)		200	200		
LGS (% by vol)	SG 2.60	1.2	1.2		
LGS(lb/bbl)		10.884	10.884		
HGS (% by vol)	SG 4.20				
HGS (lb/bbl)					
Corrected Solids (% by vol)		1.2	1.2		

Hydraulics (ft/min)			Operating Data	
Annular Interval	Ann. Vel.	Crit. Vel.	Avg ROP(ft/hr)	
OH:BIT AND MOTOR	0.00	285.89	WOB (Klbs)	
			Rotating Weight	
			Rotatary Speed	
			Rotating Hrs.	
			Sliding Hrs.	
			Non-Drlg Hrs.	
			P/U (lbs)	
			S/O (lbs)	
			Torque (lbf-ft)	
			Angle	
			Azimuth	
			Surv. Depth(ft)	

Viscometer Rdgs		Solids Control Equipment					
600	36	Shaker	Screens		Hrs	U/F	O/F
300	24	1	84/84/84/84	De-Sander			
200	21	2	84/84/84/84	De-Silter			
100	14	3		Centrifuge			
6	9	4		Centrifuge			
3	7	M/C					

Active Products

Materials	Initial	Rec'd	Used	Balance	Cost (US$)
Bulk Tank (50 ton \ ea)	158	0	2	156	100.00
Bulk Tanks Blower (1 \ ea)	79	0	1	78	35.00
Caustic Soda (50 lb \ sk)	54	0	6	48	165.60
Cedar Fiber (40 # \ sk)	8	360	128	240	2,432.00
Dyna Fiber Cor (25 # \ sk)	2	300	2	300	39.60
Engineering (24 hr) (1 \ ea)	0	0	1	0	500.00
Mica F (50 lb \ sk)	0	192	24	168	469.20
New Carb Med (50 # \ sk)	0	252	0	252	0.00
NewPac R (50 lb \ sx)	20	0	5	15	645.00
NewZan D (25 lb \ sx)	40	0	2	38	730.00
OBM Lab (1 \ ea)	86	0	1	85	55.00
Pallets (1 \ ea)	0	22	22	0	396.00
Shrink Wrap (1 \ ea)	0	22	22	0	264.00
Soda Ash (50 # \ sk)	45	0	5	40	143.75

Treatment Recommendations

There was no treatment in the last 24hrs. Product used was to complete mud-up.

Comments/Remarks

Completed mud-up adding 35 ppb LCM. Drilled ahead to 206 ft. Could not get signal from tool. POOH to find that LCM had plugged screen sub. TIH and drilled ahead to 206 ft and motor plugged with LCM. POOH. Waiting on new motor to come out of Bakersfield, CA.

****Trucking charges from DT EVA2320

Daily Tax (US$)	Trucking (US$)	Daily Cost (US$)	7,355.15
0.00	1,380.00	Cumulative Cost (US$)	33,779.75

The information in this report is based on our experience and represents our best judgment in the matter and is intended to be helpful, but we cannot assume responsibility for any loss or accident that may result from its use. Furthermore, nothing contained herein shell be construed as a recommendation to use any product in conflict with existing patents covering any materials or uses.

Newpark Drilling Fluids, L.L.C. **Mud Report**

Jerry Ard	Evanston WY	
Tel:	Tel:	Tel:
Mbl: (985) 688-1226	Tel:	Tel:
Pgr:	Fax:	Fax:

MudPIT$_{TM}$

Date	09/24/2010	MD (ft)	206
Report #	3	TVD (ft)	206
Spud Date	09/22/2010	Bit MD (ft)	51
API Well #	4302330021	Bit TVD (ft)	51
Present Activity		POOH	

Operator:	**PIONEER NATURAL RESOURCES**	**Contractor:**	**Nabors 169**
Report For:	**Dean Baker/Derrick Berry**	**Report For:**	**Coby Huffer**

Well Name / No.	Field / Block	Sur - Abs or Sec-T-R	County / Parish	State / Province	Country
SOUTH HILLS FEDERAL # 6-1			JUAB COUNTY	UTAH	USA

Drill String	OD(in)	ID(in)	Length(ft)
BIT AND	8.25	2.875	51

Pump and Circulating Data (check box for Riser Boost)

Pump #	1 ☐	2 ☐	3 ☐	Stand Pipe (psi)		0
Liner (in)	6.5	6.5	0.0	Calc P.Loss (psi)		0
Stroke (in)	10.0	10.0	0.0	ECD (ppg)		8.50
stk/min	0	0	0	Pump # 1	Min	Stks
Efficiency (%)	95	95	95	Surf-Bit	0	0
(bbl/stk)	0.097	0.097	0.000	Bott's Up	0	0
(gpm)	0	0	0	Surf-Surf	0	0
Total (gpm)		0		Tot. Circ.	0	0

Bit Data		Leak Off Test(ppg)	0	Active Volume (bbl)		Storage Volume(bbl)		Volume Reconciliation (bbl)			
Bit Size (in)	17.5	TFA (in²)	1.374	Annulus:	15	Storage 1		Starting Volume	803	Total Additions:	0
% Washout	10	Noz-Vel (ft/se)		Drill String:	0	Storage 2		Water Additions		Hole Losses	
Bit Type:	HC C HCD5072	Imp-Frc (psi)		Pits:	803	Storage 3		Oil Additions		SCE Losses	
Bit #:	1	PSI Loss (psi)		Slug Pit:	0	Storage 4		Chemical Additions:		Other Losses	
(1/32 in)	16 16 16 16	HSI (hp/in²)		Total Circulating Volume		Total Storage Volume		Barite Additions:		Total Losses	
16 16 16		Sys HHP (hp)		818		0		Whole Mud Add:		Mud to Storage:	
		Sys HHP %		Volume Below Bit		56		Other Additions		Ending Volume:	803

Fluid Type	Water-based	Fluid Properties			
Sample Temperature (°F)		Pit 75.0	Pit 70.0		
Time Sample Taken:		3:00 AM	4:00 PM		
Depth @ Time of Sample (ft)		206	206		
MudWt [ppg] Unwt'd		8.5	8.5		
Funnel Viscosity (sec/qt)		46	51		
Plastic Vis. (cp) @ 120 (°F)		9	12		
Yield Point (lbf/100ft²)		7	10		
Gel Strength (10s/10m) (lbf/100ft²)		4 4	10 9		
Gel Strength (lbf/100ft²) @ 30 min		4	9		
API Filtrate (mL/30 min)		12.0	9.0		
HPHT Filtrate (mL) @ 250 (°F)					
Cake (1/32 in) (API/HPHT)		2	2		
Water (% by vol)		97.0	96.4		
Other Fluid (% by vol)	SG 1.20				
Non-Aq (% by vol)	SG 0.84				
Solids (% by vol)		3	3.6		
Sand (% by vol)					
MBT Cap (Bent Equiv.)(lb/bbl)		20.5	22.5		
pH @ 120 (°F)		10.0	10.5		
Pm (Mud Alkalinity)(mL)		0.6	0.7		
Pf/Mf (Filtrate Alkalinity)(mL)		0.3 0.5	0.4 0.6		
Chlorides (mg/L)		120	120		
Hardness (mg/L as Calcium)		140	180		
LGS (% by vol)	SG 2.60	1.2	1.2		
LGS(lb/bbl)		10.884	10.884		
HGS (% by vol)	SG 4.20				
HGS (lb/bbl)					
Corrected Solids (% by vol)		1.2	1.2		

Hydraulics (ft/min)			Operating Data	
Annular Interval	Ann. Vel.	Crit. Vel.	Avg ROP(ft/hr)	
OH:BIT AND MOTOR	0.00	214.05	WOB (Klbs)	
			Rotating Weight	
			Rotatary Speed	
			Rotating Hrs.	
			Sliding Hrs.	
			Non-Drlg Hrs.	
			P/U (lbs)	
			S/O (lbs)	
			Torque (lbf-ft)	
			Angle	
			Azimuth	
			Surv. Depth(ft)	

Viscometer Rdgs		Solids Control Equipment					
600	25	Shaker	Screens		Hrs	U/F	O/F
300	16	1	84/84/84/84	De-Sander			
200	14	2	84/84/84/84	De-Silter			
100	10	3		Centrifuge			
6	4	4		Centrifuge			
3	4	M/C					

Active Products

Materials	Initial	Rec'd	Used	Balance	Cost (US$)
Bulk Tank (50 ton \ ea)	156	0	2	154	100.00
Bulk Tanks Blower (1 \ ea)	78	0	1	77	35.00
Cedar Fiber (40 # \ sk)	240	157	0	397	0.00
Dyna Fiber Cor (25 # \ sk)	300	200	0	500	0.00
Engineering (24 hr) (1 \ ea)	0	0	1	0	500.00
FIBER SEAL (40 # \ sk)	120	-120	0	0	0.00
New Carb Med (50 # \ sk)	252	168	0	420	0.00
OBM Lab (1 \ ea)	85	0	1	84	55.00
Pallets (1 \ ea)	0	12	0	12	0.00
Shrink Wrap (1 \ ea)	0	12	0	12	0.00
Walnut Shell F (50 lb \ sk)	150	50	0	200	0.00

Treatment Recommendations

No treatment last 24 hrs.

Comments/Remarks

Motor arrived. TIH open ended and circulated LCM out over the shaker screens. POOH. Will trip back in with bit and BHA to drill.

****Trucking charges from DT EVA2322. 120 sks of FiberSeal was returned to the Evanston Warehouse.

Daily Tax (US$)	Trucking (US$)	Daily Cost (US$)	2,346.00
0.00	1,656.00	Cumulative Cost (US$)	36,125.75

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Newpark Drilling Fluids, L.L.C. — **Mud Report**

Jerry Ard	Evanston WY	
Tel:	Tel:	Tel:
Mbl: (985) 688-1226	Tel:	Tel:
Pgr:	Fax:	Fax:

MudPIT™

Date	09/25/2010	MD (ft)	1,011
Report #	4	TVD (ft)	1,011
Spud Date	09/22/2010	Bit MD (ft)	1,011
API Well #	4302330021	Bit TVD (ft)	1,011
Present Activity		Drilling Ahead	

Operator:	**PIONEER NATURAL RESOURCES**	**Contractor:**	**Nabors 169**
Report For:	**Dean Baker/Derrick Berry**	**Report For:**	**Coby Huffer**

Well Name / No.	Field / Block	Sur - Abs or Sec-T-R	County / Parish	State / Province	Country
SOUTH HILLS FEDERAL # 6-1			JUAB COUNTY	UTAH	USA

Drill String	OD(in)	ID(in)	Length(ft)
BIT AND	8.25	2.875	80.21
DC	8.0	2.875	183.85
DC	6.5	2.875	190.52
HWDP	5.0	3	556.42

Pump and Circulating Data (check box for Riser Boost)

Pump #	1 ☐	2 ☐	3 ☐	Stand Pipe (psi)		0
Liner (in)	6.5	6.5	0.0	Calc P.Loss (psi)		874
Stroke (in)	10.0	10.0	0.0	ECD (ppg)		8.55
stk/min	198	0	0	Pump # 1	Min	Stks
Efficiency (%)	95	95	95	Surf-Bit	0	87
(bbl/stk)	0.097	0.097	0.000	Bott's Up	19	3,690
(gpm)	811	0	0	Surf-Surf	19	3,778
Total (gpm)		811		Tot. Circ.	51	10,148

Bit Data		Leak Off Test(ppg)	0	Active Volume (bbl)		Storage Volume(bbl)		Volume Reconciliation (bbl)			
Bit Size (in)	17.5	TFA (in²)	1.374	Annulus:	360	Storage 1		Starting Volume	803	Total Additions:	536
% Washout	15	Noz-Vel (ft/se)	188.72	Drill String:	9	Storage 2		Water Additions	548	Hole Losses	270
Bit Type:	HC C HCD5072	Imp-Frc (psi)	673	Pits:	621	Storage 3		Oil Additions		SCE Losses	80
Bit #:	1	PSI Loss (psi)	271.67	Slug Pit:	0	Storage 4		Chemical Additions:	-12	Other Losses	
(1/32 in)	16 16 16 16	HSI (hp/in²)	0.533	Total Circulating Volume		Total Storage Volume		Barite Additions:		Total Losses	350
16 16 16		Sys HHP (hp)		989		0		Whole Mud Add:		Mud to Storage:	
		Sys HHP %		Volume Below Bit		0		Other Additions		Ending Volume:	989

Fluid Type	Water-based	Fluid Properties			
Sample Temperature (°F)		Pit 75.0		Pit 74.0	
Time Sample Taken:		3:30 AM		4:00 PM	
Depth @ Time of Sample (ft)		1,100		481	
MudWt [ppg] Unwt'd		8.5		8.5	
Funnel Viscosity (sec/qt)		48		50	
Plastic Vis. (cp) @ 120 (°F)		12		12	
Yield Point (lbf/100ft²)		10		10	
Gel Strength (10s/10m) (lbf/100ft²)		8 8		7 6	
Gel Strength (lbf/100ft²) @ 30 min		7		6	
API Filtrate (mL/30 min)		10.0		10.0	
HPHT Filtrate (mL) @ 250 (°F)					
Cake (1/32 in) (API/HPHT)		2		2	
Water (% by vol)		97.0		97.0	
Other Fluid (% by vol)	SG 1.20				
Non-Aq (% by vol)	SG 0.84				
Solids (% by vol)		3		3	
Sand (% by vol)					
MBT Cap (Bent Equiv.)(lb/bbl)		22.0		22.0	
pH @ 120 (°F)		10.0		9.5	
Pm (Mud Alkalinity)(mL)		1.0		0.8	
Pf/Mf (Filtrate Alkalinity)(mL)		0.4 0.7		0.3 0.7	
Chlorides (mg/L)		120		120	
Hardness (mg/L as Calcium)		200		180	
LGS (% by vol)	SG 2.60	1.2		1.2	
LGS(lb/bbl)		10.884		10.884	
HGS (% by vol)	SG 4.20				
HGS (lb/bbl)					
Corrected Solids (% by vol)		1.2		1.2	

Hydraulics (ft/min)			Operating Data	
Annular Interval	Ann. Vel.	Crit. Vel.	Avg ROP(ft/hr)	90.0
OH:HWDP	52.22	279.98	WOB (Klbs)	4
OH:DC	54.70	283.61	Rotating Weight	
OH:DC	58.19	287.72	Rotatary Speed	
OH:BIT AND MOTOR	58.89	288.46	Rotating Hrs.	
			Sliding Hrs.	
			Non-Drlg Hrs.	
			P/U (lbs)	
			S/O (lbs)	
			Torque (lbf-ft)	
			Angle	
			Azimuth	
			Surv. Depth(ft)	

Viscometer Rdgs		Solids Control Equipment					
600	34	Shaker	Screens		Hrs	U/F	O/F
300	22	1	84/84/84/84	De-Sander			
200	17	2	84/84/84/84	De-Silter			
100	12	3		Centrifuge			
6	8	4		Centrifuge			
3	8	M/C			24.0		

Active Products

Materials	Initial	Rec'd	Used	Balance	Cost (US$)
Bulk Tank (50 ton \ ea)	154	0	2	152	100.00
Bulk Tanks Blower (1 \ ea)	77	0	1	76	35.00
Cedar Fiber (40 # \ sk)	397	-518	-121	0	-2,299.00
Engineering (24 hr) (1 \ ea)	0	0	1	0	500.00
Mica F (50 lb \ sk)	168	0	39	129	762.45
New Carb Med (50 # \ sk)	420	0	55	365	605.00
NewGel (100 \ sx)	315	0	55	260	275.00
NewGel HY (50 # \ sk)	0	816	0	816	0.00
NewPHPA (5 Gal \ Pail)	58	0	3	55	240.00
NewPac R (50 lb \ sx)	15	0	3	12	387.00
NoFoam X (5 gal \ Bucket)	0	32	0	32	0.00
OBM Lab (1 \ ea)	84	0	1	83	55.00
Pallets (1 \ ea)	12	18	30	0	540.00
Shrink Wrap (1 \ ea)	12	17	29	0	348.00
Walnut Shell F (50 lb \ sk)	200	0	48	152	1,104.00

Treatment Recommendations

Last 24 hrs: Built mud volume throughout the day using Gel, Caustic, New Pac and PHPA. Pumped 30 bbl LCM, hi-vis sweeps after each connection and as needed.
Next 24 hrs: Will continue to build mud volume as needed and will continue to pump sweeps after each connection

Comments/Remarks

Tripped back to bottom with bit and BHA and drilled ahead to 1,100 ft at report time. At times, encountered heavy losses and built mud volume as needed.

****Adjustment was made to Cedar Fiber count. 518 sacks of Cedar Fiber was returned to the Warehouse. Trucking charges from DT EVA2326

Daily Tax (US$)	Trucking (US$)	Daily Cost (US$)	4,308.45
0.00	1,656.00	Cumulative Cost (US$)	40,434.20

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Newpark Drilling Fluids, L.L.C. — **Mud Report**

Jerry Ard	Evanston WY	
Tel:	Tel:	Tel:
Mbl: (985) 688-1226	Tel:	Tel:
Pgr:	Fax:	Fax:

MudPIT™

Date	09/26/2010	MD (ft)	1,538
Report #	5	TVD (ft)	1,538
Spud Date	09/22/2010	Bit MD (ft)	1,538
API Well #	4302330021	Bit TVD (ft)	1,538
Present Activity		Drilling Ahead	

Operator:	**PIONEER NATURAL RESOURCES**	**Contractor:**	**Nabors 169**
Report For:	**Dean Baker/Derrick Berry**	**Report For:**	**Coby Huffer**

Well Name / No.	Field / Block	Sur - Abs or Sec-T-R	County / Parish	State / Province	Country
SOUTH HILLS FEDERAL # 6-1			JUAB COUNTY	UTAH	USA

Drill String	OD(in)	ID(in)	Length(ft)
BIT AND	8.25	2.875	80.21
DC	8.0	2.875	183.85
DC	6.5	2.875	190.52
HWDP	5.0	3	831.27
DP	5.0	4.28	252.15

Pump and Circulating Data (check box for Riser Boost)

Pump #	1 ☐	2 ☐	3 ☐	Stand Pipe (psi)		1,911
Liner (in)	6.5	6.5	0.0	Calc P.Loss (psi)		1,144
Stroke (in)	10.0	10.0	0.0	ECD (ppg)		8.54
stk/min	208	0	0	Pump # 1	Min	Stks
Efficiency (%)	95	95	95	Surf-Bit	1	158
(bbl/stk)	0.097	0.097	0.000	Bott's Up	27	5,686
(gpm)	852	0	0	Surf-Surf	28	5,844
Total (gpm)		852		Tot. Circ.	64	13,282

Bit Data								Leak Off Test(ppg)	0
Bit Size (in)	17.5							TFA (in²)	1.374
% Washout	15							Noz-Vel (ft/se)	198.25
Bit Type:	HC C HCD5072							Imp-Frc (psi)	743
Bit #:	1							PSI Loss (psi)	299.81
(1/32 in)	16	16	16	16	16	16	16	HSI (hp/in²)	0.618
								Sys HHP (hp)	949.42
								Sys HHP %	15.689

Active Volume (bbl)		Storage Volume(bbl)		Volume Reconciliation (bbl)			
Annulus:	554	Storage 1		Starting Volume	989	Total Additions:	303
Drill String:	15	Storage 2		Water Additions	303	Hole Losses	
Pits:	725	Storage 3		Oil Additions		SCE Losses	
Slug Pit:	0	Storage 4		Chemical Additions:		Other Losses	
Total Circulating Volume	1,295	Total Storage Volume	0	Barite Additions:		Total Losses	
				Whole Mud Add:		Mud to Storage:	
Volume Below Bit	0			Other Additions		Ending Volume:	1292

Fluid Type	Water-based	Fluid Properties							
Sample Temperature (°F)		Pit	66.0	Pit	68.0				
Time Sample Taken:		3:00 AM		4:00 PM					
Depth @ Time of Sample (ft)		1,538		1,281					
MudWt [ppg] Unwt'd		8.5		8.5					
Funnel Viscosity (sec/qt)		52		50					
Plastic Vis. (cp) @ 120 (°F)		12		12					
Yield Point (lbf/100ft²)		10		10					
Gel Strength (10s/10m) (lbf/100ft²)		8	7	7	7				
Gel Strength (lbf/100ft²) @ 30 min		7		6					
API Filtrate (mL/30 min)		8.0		10.0					
HPHT Filtrate (mL) @ 250 (°F)									
Cake (1/32 in) (API/HPHT)		2		2					
Water (% by vol)		97.0		97.0					
Other Fluid (% by vol)	SG 1.20								
Non-Aq (% by vol)	SG 0.84								
Solids (% by vol)		3		3					
Sand (% by vol)									
MBT Cap (Bent Equiv.)(lb/bbl)		22.0		22.0					
pH @ 120 (°F)		10.0		10.0					
Pm (Mud Alkalinity)(mL)		0.6		0.6					
Pf/Mf (Filtrate Alkalinity)(mL)		0.2	0.6	0.3	0.6				
Chlorides (mg/L)		120		120					
Hardness (mg/L as Calcium)		160		180					
LGS (% by vol)	SG 2.60	1.2		1.2					
LGS(lb/bbl)		10.884		10.884					
HGS (% by vol)	SG 4.20								
HGS (lb/bbl)									
Corrected Solids (% by vol)		1.2		1.2					

Hydraulics (ft/min)

Annular Interval	Ann. Vel.	Crit. Vel.
OH:DP	54.86	252.38
OH:HWDP	54.86	252.38
OH:DC	57.46	256.75
OH:DC	61.13	261.71
OH:BIT AND MOTOR	61.87	262.61

Operating Data

Avg ROP(ft/hr)	90.0
WOB (Klbs)	
Rotating Weight	
Rotatary Speed	
Rotating Hrs.	
Sliding Hrs.	
Non-Drlg Hrs.	
P/U (lbs)	
S/O (lbs)	
Torque (lbf-ft)	
Angle	
Azimuth	
Surv. Depth(ft)	

Viscometer Rdgs		Solids Control Equipment					
600	34	Shaker	Screens		Hrs	U/F	O/F
300	22	1	84/84/84/84	De-Sander			
200	15	2	84/84/84/84	De-Silter			
100	11	3		Centrifuge			
6	7	4		Centrifuge			
3	6	M/C			12.0		

Active Products

Materials	Initial	Rec'd	Used	Balance	Cost (US$)
Bulk Tank (50 ton \ ea)	152	0	2	150	100.00
Bulk Tanks Blower (1 \ ea)	76	0	1	75	35.00
Caustic Soda (50 lb \ sk)	48	0	8	40	220.80
Dyna Fiber Cor (25 # \ sk)	500	100	80	520	1,584.00
Engineering (24 hr) (1 \ ea)	0	0	1	0	500.00
Lime (50 lb \ sx)	50	0	1	49	7.05
Mica F (50 lb \ sk)	129	384	33	480	645.15
New Carb Med (50 # \ sk)	365	42	0	407	0.00
NewGel (100 \ sx)	260	0	50	210	250.00
NewGel HY (50 # \ sk)	816	0	65	751	438.75
NewPac R (50 lb \ sx)	12	0	2	10	258.00
OBM Lab (1 \ ea)	83	0	1	82	55.00
Pallets (1 \ ea)	0	19	19	0	342.00
Shrink Wrap (1 \ ea)	0	19	19	0	228.00
Soda Ash (50 # \ sk)	40	0	6	34	172.50
Walnut Shell F (50 lb \ sk)	152	400	36	516	828.00

Treatment Recommendations

Last 24 hrs: Pumping a 30 bbl, 20 ppb hi-vis LCM sweep after each connection and at mid-stand. Building mud on the fly as needed using Gel, Caustic, New PHPA.
Next 24 hrs: Will continue pumping hi-vis, LCM sweeps after each connection and at mid-stand. Will continue building mud as needed maintaining mud properties within prescribed parameters.

Comments/Remarks

Drilled ahead to 1,370 ft. POOH for bit change. TIH. Washed and reamed to bottom. Drilled ahead to 1,538 ft at report time. Still encountering losses but not as heavy as previous losses.

****Trucking charges from DT EVA2328

Daily Tax (US$)	Trucking (US$)	Daily Cost (US$)	7,320.25
0.00	1,656.00	Cumulative Cost (US$)	47,754.45

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Newpark Drilling Fluids, L.L.C. **Mud Report**

Jerry Ard — Evanston WY
Tel: | Tel: | Tel:
Mbl: (985) 688-1226 | Tel: | Tel:
Pgr: | Fax: | Fax:

*MudPIT*TM

Date	09/27/2010	MD (ft)	2,043
Report #	6	TVD (ft)	2,043
Spud Date	09/22/2010	Bit MD (ft)	2,043
API Well #	4302330021	Bit TVD (ft)	2,043
Present Activity		Drilling Ahead	

Operator:	**PIONEER NATURAL RESOURCES**	**Contractor:**	**Nabors 169**
Report For:	**Dean Baker/Derrick Berry**	**Report For:**	**Coby Huffer**

Well Name / No.	Field / Block	Sur - Abs or Sec-T-R	County / Parish	State / Province	Country
SOUTH HILLS FEDERAL # 6-1			JUAB COUNTY	UTAH	USA

Drill String	OD(in)	ID(in)	Length(ft)
BIT AND	8.25	2.875	80.21
DC	8.0	2.875	183.85
DC	6.5	2.875	190.52
HWDP	5.0	3	831.27
DP	5.0	4.28	757.15

Pump and Circulating Data (check box for Riser Boost)

Pump #	1 ☐	2 ☐	3 ☐	Stand Pipe (psi)		2,325
Liner (in)	6.5	6.5	0.0	Calc P.Loss (psi)		1,309
Stroke (in)	10.0	10.0	0.0	ECD (ppg)		8.55
stk/min	218	0	0	Pump # 1	Min	Stks
Efficiency (%)	95	95	95	Surf-Bit	1	250
(bbl/stk)	0.097	0.097	0.000	Bott's Up	35	7,599
(gpm)	892	0	0	Surf-Surf	36	7,849
Total (gpm)		893		Tot. Circ.	65	14,199

Bit Data					Leak Off Test(ppg)	0	Active Volume (bbl)		Storage Volume(bbl)		Volume Reconciliation (bbl)			
Bit Size (in)	17.5				TFA (in²)	1.374	Annulus:	741	Storage 1		Starting Volume	1292	Total Additions:	92
% Washout	15				Noz-Vel (ft/se)	207.78	Drill String:	24	Storage 2		Water Additions	92	Hole Losses	
Bit Type:	HC C HCD5072				Imp-Frc (psi)	816	Pits:	619	Storage 3		Oil Additions		SCE Losses	
Bit #:	1				PSI Loss (psi)	329.33	Slug Pit:	0	Storage 4		Chemical Additions:		Other Losses	
(1/32 in)	16	16	16	16	HSI (hp/in²)	0.711	Total Circulating Volume		Total Storage Volume		Barite Additions:		Total Losses	
16	16	16			Sys HHP (hp)	1210.6	1,384		0		Whole Mud Add:		Mud to Storage:	
					Sys HHP %	14.165	Volume Below Bit		0		Other Additions		Ending Volume:	1384

Fluid Type: Water-based

Fluid Properties								
Sample Temperature (°F)	Pit	70.0	Pit	70.0				
Time Sample Taken:	3:00 AM		4:00 PM					
Depth @ Time of Sample (ft)	2,043		1,805					
MudWt [ppg] Unwt'd	8.5		8.5					
Funnel Viscosity (sec/qt)	49		50					
Plastic Vis. (cp) @ 120 (°F)	12		12					
Yield Point (lbf/100ft²)	10		10					
Gel Strength (10s/10m) (lbf/100ft²)	8	7	8	8				
Gel Strength (lbf/100ft²) @ 30 min	7		7					
API Filtrate (mL/30 min)	9.0		9.0					
HPHT Filtrate (mL) @ 250 (°F)								
Cake (1/32 in) (API/HPHT)	2		2					
Water (% by vol)	97.0		97.0					
Other Fluid (% by vol) SG 1.20								
Non-Aq (% by vol) SG 0.84								
Solids (% by vol)	3		3					
Sand (% by vol)	0.3		0.3					
MBT Cap (Bent Equiv.)(lb/bbl)	22.5		22.0					
pH @ 120 (°F)	10.0		10.0					
Pm (Mud Alkalinity)(mL)	0.7		0.6					
Pf/Mf (Filtrate Alkalinity)(mL)	0.2	0.6	0.3	0.6				
Chlorides (mg/L)	120		120					
Hardness (mg/L as Calcium)	220		200					
LGS (% by vol) SG 2.60	1.2		1.2					
LGS(lb/bbl)	10.884		10.884					
HGS (% by vol) SG 4.20								
HGS (lb/bbl)								
Corrected Solids (% by vol)	1.2		1.2					

Hydraulics (ft/min)

Annular Interval	Ann. Vel.	Crit. Vel.
OH:DP	57.49	267.21
OH:HWDP	57.49	267.21
OH:DC	60.23	271.20
OH:DC	64.07	275.73
OH:BIT AND MOTOR	64.84	276.54

Operating Data

Avg ROP(ft/hr)	49.0
WOB (Klbs)	10
Rotating Weight	
Rotatary Speed	
Rotating Hrs.	
Sliding Hrs.	
Non-Drlg Hrs.	
P/U (lbs)	
S/O (lbs)	
Torque (lbf-ft)	
Angle	
Azimuth	
Surv. Depth(ft)	

Viscometer Rdgs		Shaker	Screens	Solids Control Equipment	Hrs	U/F	O/F
600	34						
300	22	1	84/84/84/84	De-Sander			
200	16	2	84/84/84/84	De-Silter			
100	11	3		Centrifuge	24.0		
6	8	4		Centrifuge	8.0		
3	7	M/C			24.0		

Active Products

Materials	Initial	Rec'd	Used	Balance	Cost (US$)
Bulk Tank (50 ton \ ea)	150	0	2	148	100.00
Bulk Tanks Blower (1 \ ea)	75	0	1	74	35.00
Caustic Soda (50 lb \ sk)	40	0	4	36	110.40
Dyna Fiber Cor (25 # \ sk)	520	0	65	455	1,287.00
Engineering (24 hr) (1 \ ea)	0	0	1	0	500.00
New Carb Med (50 # \ sk)	407	0	52	355	572.00
NewGel (100 \ sx)	210	0	36	174	180.00
NewGel HY (50 # \ sk)	751	0	31	720	209.25
NoFoam X (5 gal \ Bucket)	32	0	8	24	2,296.00
OBM Lab (1 \ ea)	82	0	1	81	55.00
Walnut Shell F (50 lb \ sk)	516	0	129	387	2,967.00

Treatment Recommendations

Last 24 hrs: Pumping a 30 bbl, 20 ppb hi-vis LCM sweep every 30 ft. Building mud as needed using Gel, Caustic and New PHPA.
Next 24 hrs: Will continue pumping hi-vis, LCM sweeps and will continue to build mud as needed.

Comments/Remarks

Drilled ahead to 2,043 ft at report time with a minimum of problems.

Daily Tax (US$)	Trucking (US$)	Daily Cost (US$)	8,311.65
0.00	0.00	Cumulative Cost (US$)	56,066.10

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Newpark Drilling Fluids, L.L.C. — **Mud Report**

Jerry Ard	Evanston WY	
Tel:	Tel:	Tel:
Mbl: (985) 688-1226	Tel:	Tel:
Pgr:	Fax:	Fax:

MudPIT™

Date	09/28/2010	MD (ft)	2,339
Report #	7	TVD (ft)	2,339
Spud Date	09/22/2010	Bit MD (ft)	2,339
API Well #	4302330021	Bit TVD (ft)	2,339
Present Activity		Drilling Ahead	

Operator:	**PIONEER NATURAL RESOURCES**	**Contractor:**	**Nabors 169**
Report For:	**Dean Baker/Derrick Berry**	**Report For:**	**Coby Huffer**

Well Name / No.	Field / Block	Sur - Abs or Sec-T-R	County / Parish	State / Province	Country
SOUTH HILLS FEDERAL # 6-1			JUAB COUNTY	UTAH	USA

Drill String	OD(in)	ID(in)	Length(ft)
BIT AND	8.0	2.875	80.45
DC	8.0	2.825	183.85
DC	6.5	2.825	190.52
HWDP	5.0	3	831.27
DP	5.0	4.28	1052.91

Pump and Circulating Data (check box for Riser Boost)

Pump #	1 ☐	2 ☐	3 ☐	Stand Pipe (psi)		2,441
Liner (in)	6.5	6.5	0.0	Calc P.Loss (psi)		1,415
Stroke (in)	10.0	10.0	0.0	ECD (ppg)		8.55
stk/min	224	0	0	Pump # 1	Min	Stks
Efficiency (%)	95	95	95	Surf-Bit	1	303
(bbl/stk)	0.097	0.097	0.000	Bott's Up	39	8,723
(gpm)	917	0	0	Surf-Surf	40	9,026
Total (gpm)		917		Tot. Circ.	73	16,392

Bit Data

Bit Size (in)	17.5							
% Washout	15							
Bit Type:	HCC HCD507Z							
Bit #:	5							
(1/32 in)	16	16	16	16				
16	16	16						

Leak Off Test(ppg)	0							
TFA (in²)	1.374							
Noz-Vel (ft/se)	213.50							
Imp-Frc (psi)	862							
PSI Loss (psi)	347.71							
HSI (hp/in²)	0.771							
Sys HHP (hp)	1306.0							
Sys HHP %	14.245							

Active Volume (bbl)		Storage Volume(bbl)		Volume Reconciliation (bbl)			
Annulus:	850	Storage 1		Starting Volume	1384	Total Additions:	354
Drill String:	30	Storage 2		Water Additions	352	Hole Losses	60
Pits:	718	Storage 3		Oil Additions		SCE Losses	80
Slug Pit:	0	Storage 4		Chemical Additions:	2	Other Losses	
Total Circulating Volume		Total Storage Volume		Barite Additions:		Total Losses	140
1,598		0		Whole Mud Add:		Mud to Storage:	
		0		Other Additions		Ending Volume:	1598

Fluid Type	Water-based		Fluid Properties							
Sample Temperature (°F)			Pit	71.0	Pit	70.0				
Time Sample Taken:			3:30 AM		4:00 PM					
Depth @ Time of Sample (ft)			2,339		2,230					
MudWt [ppg] Unwt'd			8.5		8.5					
Funnel Viscosity (sec/qt)			51		49					
Plastic Vis. (cp) @	120	(°F)	11		12					
Yield Point (lbf/100ft²)			9		10					
Gel Strength (10s/10m) (lbf/100ft²)			8	8	8	7				
Gel Strength (lbf/100ft²) @	30	min	10		9					
API Filtrate (mL/30 min)			9.0		9.0					
HPHT Filtrate (mL) @	250	(°F)								
Cake (1/32 in) (API/HPHT)			2		2					
Water (% by vol)			97.0		97.0					
Other Fluid (% by vol)	SG	1.20								
Non-Aq (% by vol)	SG	0.84								
Solids (% by vol)			3		3					
Sand (% by vol)			0.05		0.05					
MBT Cap (Bent Equiv.)(lb/bbl)			24.0		22.0					
pH @	120	(°F)	10.0		10.0					
Pm (Mud Alkalinity)(mL)			0.6		0.6					
Pf/Mf (Filtrate Alkalinity)(mL)			0.3	0.7	0.3	0.6				
Chlorides (mg/L)			120		120					
Hardness (mg/L as Calcium)			160		140					
LGS (% by vol)	SG	2.60	1.2		1.2					
LGS(lb/bbl)			10.884		10.884					
HGS (% by vol)	SG	4.20								
HGS (lb/bbl)										
Corrected Solids (% by vol)			1.2		1.2					
FL Temp (F)			121.4							

Hydraulics (ft/min)

Annular Interval	Ann. Vel.	Crit. Vel.
OH:DP	59.08	274.12
OH:HWDP	59.08	274.12
OH:DC	61.88	277.30
OH:DC	65.83	280.89
OH:BIT AND MOTOR	65.83	280.89

Operating Data

Avg ROP(ft/hr)	35.0
WOB (Klbs)	8
Rotating Weight	
Rotatary Speed	
Rotating Hrs.	
Sliding Hrs.	
Non-Drlg Hrs.	
P/U (lbs)	
S/O (lbs)	
Torque (lbf-ft)	
Angle	
Azimuth	
Surv. Depth(ft)	

Viscometer Rdgs		Solids Control Equipment					
600	31	Shaker	Screens		Hrs	U/F	O/F
300	20	1	84/84/84/84	De-Sander			
200	17	2	84/84/84/84	De-Silter			
100	13	3		Centrifuge	24.0	8.4	8.5
6	8	4		Centrifuge	24.0	8.4	8.5
3	8	M/C			24.0	8.4	8.5

Active Products

Materials	Initial	Rec'd	Used	Balance	Cost (US$)
Bulk Tank (50 ton \ ea)	148	0	2	146	100.00
Bulk Tanks Blower (1 \ ea)	74	0	1	73	35.00
Caustic Soda (50 lb \ sk)	36	0	6	30	165.60
Dyna Fiber Cor (25 # \ sk)	455	0	53	402	1,049.40
DynaDet (5 gal \ pail)	20	64	14	70	728.00
Engineering (24 hr) (1 \ ea)	0	0	1	0	500.00
Mica F (50 lb \ sk)	480	0	61	419	1,192.55
New Bar (Sack) (100 lb \ sk)	0	200	0	200	0.00
New Carb Med (50 # \ sk)	355	0	40	315	440.00
NewGel (100 \ sx)	174	0	34	140	170.00
NoFoam X (5 gal \ Bucket)	24	64	15	73	4,305.00
OBM Lab (1 \ ea)	81	0	1	80	55.00
Pallets (1 \ ea)	0	21	21	0	378.00
SAPP (50 # \ sx)	20	20	0	40	0.00
Shrink Wrap (1 \ ea)	0	17	17	0	204.00
Soda Ash (50 # \ sk)	34	49	0	83	0.00
Walnut Shell M (50 lb \ sk)	0	516	0	516	0.00

Treatment Recommendations

Last 24 hrs: Pumped a 30 bbl, 20 ppb hi-vis, LCM sweep each 30 ft. Built mud on the fly as needed using Gel, Caustic, DynaDet. Added a cup of PHPA and a soap stick down the drill pipe at each connection.
Next 24 hrs: Will continue with the same treatment.

Comments/Remarks

Drilled ahead to 2,230 ft. POOH for bit change. Picked up new bit and BHA and TIH to 2,130 ft. Washed and reamed to bottom. Drilled ahead to 2,339 ft at report time.

****Trucking charges from DT EVA2329, EVA2331 & EVA2333.

Daily Tax (US$)	Trucking (US$)	Daily Cost (US$)	11,830.70
0.00	2,508.15	Cumulative Cost (US$)	67,896.80

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Newpark Drilling Fluids, L.L.C. — **Mud Report**

Jerry Ard	**Evanston WY**	
Tel:	Tel:	Tel:
Mbl: (985) 688-1226	Tel:	Tel:
Pgr:	Fax:	Fax:

MudPIT™

Date	09/29/2010	MD (ft)	2,891
Report #	8	TVD (ft)	2,891
Spud Date	09/22/2010	Bit MD (ft)	2,891
API Well #	4302330021	Bit TVD (ft)	2,891
Present Activity		Drilling Ahead	

Operator:	**PIONEER NATURAL RESOURCES**	**Contractor:**	**Nabors 169**
Report For:	**Clifton Everett/Derrick Berry**	**Report For:**	**Rod Flynn**

Well Name / No.	Field / Block	Sur - Abs or Sec-T-R	County / Parish	State / Province	Country
SOUTH HILLS FEDERAL # 6-1			JUAB COUNTY	UTAH	USA

Drill String	OD(in)	ID(in)	Length(ft)
BIT AND	8.0	2.875	80.45
DC	8.0	2.825	183.85
DC	6.5	2.825	190.52
HWDP	5.0	3	831.27
DP	5.0	4.28	1604.91

Pump and Circulating Data (check box for Riser Boost)

Pump #	1 ☐	2 ☐	3 ☐	Stand Pipe (psi)		2,806
Liner (in)	6.5	6.5	0.0	Calc P.Loss (psi)		1,471
Stroke (in)	10.0	10.0	0.0	ECD (ppg)		8.55
stk/min	224	0	0	Pump # 1	Min	Stks
Efficiency (%)	95	95	95	Surf-Bit	2	404
(bbl/stk)	0.097	0.097	0.000	Bott's Up	48	10,813
(gpm)	917	0	0	Surf-Surf	50	11,217
Total (gpm)		917		Tot. Circ.	77	17,167

Bit Data		Leak Off Test(ppg)	0	Active Volume (bbl)		Storage Volume(bbl)		Volume Reconciliation (bbl)			
Bit Size (in)	17.5	TFA (in²)	1.374	Annulus:	1,054	Storage 1		Starting Volume	1598	Total Additions:	170
% Washout	15	Noz-Vel (ft/se)	213.50	Drill String:	39	Storage 2		Water Additions	170	Hole Losses	25
Bit Type:	HCC HCD507Z	Imp-Frc (psi)	862	Pits:	580	Storage 3		Oil Additions		SCE Losses	70
Bit #:	5	PSI Loss (psi)	347.71	Slug Pit:	0	Storage 4		Chemical Additions:		Other Losses	
(1/32 in)	16 16 16 16	HSI (hp/in²)	0.771	Total Circulating Volume		Total Storage Volume		Barite Additions:		Total Losses	95
16 16 16		Sys HHP (hp)	1501.3	1,673		0		Whole Mud Add:		Mud to Storage:	
		Sys HHP %	12.392	Volume Below Bit		0		Other Additions		Ending Volume:	1673

Fluid Type	Water-based	Fluid Properties			
Sample Temperature (°F)		Pit 75.0		Pit 74.0	
Time Sample Taken:		3:30 AM		4:00 PM	
Depth @ Time of Sample (ft)		2,891		2,697	
MudWt [ppg] Unwt'd		8.5		8.5	
Funnel Viscosity (sec/qt)		54		51	
Plastic Vis. (cp) @ 120 (°F)		12		12	
Yield Point (lbf/100ft²)		12		10	
Gel Strength (10s/10m) (lbf/100ft²)		9 8		8 7	
Gel Strength (lbf/100ft²) @ 8 min				8	
API Filtrate (mL/30 min)		9.0		8.0	
HPHT Filtrate (mL) @ 250 (°F)					
Cake (1/32 in) (API/HPHT)		2		2	
Water (% by vol)		96.0		96.0	
Other Fluid (% by vol)	SG 1.20				
Non-Aq (% by vol)	SG 0.84				
Solids (% by vol)		4		4	
Sand (% by vol)		0.05		0.05	
MBT Cap (Bent Equiv.)(lb/bbl)		25.5		25.0	
pH @ 120 (°F)		9.0		9.0	
Pm (Mud Alkalinity)(mL)		0.3		0.4	
Pf/Mf (Filtrate Alkalinity)(mL)		0.1 0.2		0.1 0.3	
Chlorides (mg/L)		120		120	
Hardness (mg/L as Calcium)		140		180	
LGS (% by vol)	SG 2.60	1.2		1.2	
LGS(lb/bbl)		10.884		10.884	
HGS (% by vol)	SG 4.20				
HGS (lb/bbl)					
Corrected Solids (% by vol)		1.2		1.2	
FL Temp (F)		121.5		130.2	

Hydraulics (ft/min)

Annular Interval	Ann. Vel.	Crit. Vel.
OH:DP	59.08	285.42
OH:HWDP	59.08	285.42
OH:DC	61.88	289.49
OH:DC	65.83	294.10
OH:BIT AND MOTOR	65.83	294.10

Operating Data

Avg ROP(ft/hr)	66.0
WOB (Klbs)	18
Rotating Weight	
Rotatary Speed	
Rotating Hrs.	
Sliding Hrs.	
Non-Drlg Hrs.	
P/U (lbs)	
S/O (lbs)	
Torque (lbf-ft)	
Angle	
Azimuth	
Surv. Depth(ft)	

Viscometer Rdgs		Solids Control Equipment					
600	36	Shaker	Screens		Hrs	U/F	O/F
300	24	1	84/84/84/84	De-Sander			
200	19	2	84/84/84/84	De-Silter			
100	12	3		Centrifuge	24.0	8.4	8.5
6	9	4		Centrifuge	24.0	8.4	8.5
3	8	M/C			24.0	8.4	8.5

Active Products

Materials	Initial	Rec'd	Used	Balance	Cost (US$)
Bulk Tank (50 ton \ ea)	146	0	2	144	100.00
Bulk Tanks Blower (1 \ ea)	73	0	1	72	35.00
Caustic Soda (50 lb \ sk)	30	0	1	29	27.60
Dyna Fiber Cor (25 # \ sk)	402	0	27	375	534.60
DynaDet (5 gal \ pail)	70	0	2	68	104.00
Engineering (24 hr) (1 \ ea)	0	0	1	0	500.00
New Carb Med (50 # \ sk)	315	0	45	270	495.00
NewGel (100 \ sx)	140	0	35	105	175.00
NoFoam X (5 gal \ Bucket)	73	0	21	52	6,027.00
OBM Lab (1 \ ea)	80	0	1	79	55.00
SAPP (50 # \ sx)	40	0	2	38	140.00
Walnut Shell F (50 lb \ sk)	-13	0	-63	50	-1,449.00
Walnut Shell M (50 lb \ sk)	916	0	138	778	3,174.00

Treatment Recommendations

Last 24 hrs: Pumping a 30 bbl, 20 ppb hi-vis, LCM sweep every 30 ft. Pumped a 30 bbl, 30 ppb nut plug sweep as needed for bit balling. Built mud on the fly as needed.
Next 24 hrs: Will treat system with DynaDet to combat the bit balling. Will continue with the same treatment otherwise.

Comments/Remarks

Drilled ahead. Have been drilling through thick clay for the last 2 days. Depth 2,891 ft at report time.

****Adjustment was made in inventory for Walnut (F).

Daily Tax (US$)	Trucking (US$)	Daily Cost (US$)	10,483.29
565.09	0.00	Cumulative Cost (US$)	80,973.69

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Newpark Drilling Fluids, L.L.C. — **Mud Report**

Jerry Ard	Evanston WY	
Tel:	Tel:	Tel:
Mbl: (985) 688-1226	Tel:	Tel:
Pgr:	Fax:	Fax:

MudPIT™

Date	09/30/2010	MD (ft)	3,447
Report #	9	TVD (ft)	3,447
Spud Date	09/22/2010	Bit MD (ft)	3,432
API Well #	4302330021	Bit TVD (ft)	3,432
Present Activity		Drilling Ahead	

Operator:	**PIONEER NATURAL RESOURCES**	**Contractor:**	**Nabors 169**
Report For:	**Clifton Everett/Derrick Berry**	**Report For:**	**Rod Flynn**

Well Name / No.	Field / Block	Sur - Abs or Sec-T-R	County / Parish	State / Province	Country
SOUTH HILLS FEDERAL # 6-1			JUAB COUNTY	UTAH	USA

Drill String	OD(in)	ID(in)	Length(ft)
BIT AND	8.0	2.875	80.45
DC	8.0	2.825	183.85
DC	6.5	2.825	190.52
HWDP	5.0	3	831.27
DP	5.0	4.28	2145.91

Pump and Circulating Data (check box for Riser Boost)

Pump #	1 ☐	2 ☐	3 ☐	Stand Pipe (psi)		0
Liner (in)	6.5	6.5	0.0	Calc P.Loss (psi)		0
Stroke (in)	10.0	10.0	0.0	ECD (ppg)		8.50
stk/min	0	0	0	Pump # 1	Min	Stks
Efficiency (%)	95	95	95	Surf-Bit	0	0
(bbl/stk)	0.097	0.097	0.000	Bott's Up	0	0
(gpm)	0	0	0	Surf-Surf	0	0
Total (gpm)		0		Tot. Circ.	0	0

Bit Data		Leak Off Test(ppg)	0	Active Volume (bbl)		Storage Volume(bbl)		Volume Reconciliation (bbl)			
Bit Size (in)	17.5	TFA (in²)	1.374	Annulus:	1,254	Storage 1		Starting Volume	1598	Total Additions:	618
% Washout	15	Noz-Vel (ft/se)		Drill String:	49	Storage 2		Water Additions	616	Hole Losses	48
Bit Type:	HCC HCD507Z	Imp-Frc (psi)		Pits:	620	Storage 3		Oil Additions		SCE Losses	245
Bit #:	5	PSI Loss (psi)		Slug Pit:	0	Storage 4		Chemical Additions:	2	Other Losses	
(1/32 in)	16 16 16 16	HSI (hp/in²)		Total Circulating Volume		Total Storage Volume		Barite Additions:		Total Losses	293
16 16 16		Sys HHP (hp)		1,923		0		Whole Mud Add:		Mud to Storage:	
		Sys HHP %		Volume Below Bit		6		Other Additions		Ending Volume:	1923

Fluid Type	Water-based	Fluid Properties		
Sample Temperature (°F)		Pit 79.0	Pit 80.0	
Time Sample Taken:		3:00 AM	4:00 PM	
Depth @ Time of Sample (ft)		3,447	3,307	
MudWt [ppg] Unwt'd		8.5	8.5	
Funnel Viscosity (sec/qt)		49	52	
Plastic Vis. (cp) @ 120 (°F)		9	13	
Yield Point (lbf/100ft²)		15	12	
Gel Strength (10s/10m) (lbf/100ft²)		8 8	9 8	
Gel Strength (lbf/100ft²) @ 30 min		9	10	
API Filtrate (mL/30 min)		9.0	9.0	
HPHT Filtrate (mL) @ 250 (°F)				
Cake (1/32 in) (API/HPHT)		2	2	
Water (% by vol)		96.0	96.0	
Other Fluid (% by vol)	SG 1.20			
Non-Aq (% by vol)	SG 0.84			
Solids (% by vol)		4	4	
Sand (% by vol)		0.05	0.05	
MBT Cap (Bent Equiv.)(lb/bbl)		23.0	24.0	
pH @ 120 (°F)		9.0	8.5	
Pm (Mud Alkalinity)(mL)		0.2	0.1	
Pf/Mf (Filtrate Alkalinity)(mL)		0.1 0.2	0.02 0.05	
Chlorides (mg/L)		120	120	
Hardness (mg/L as Calcium)		120	80	
LGS (% by vol)	SG 2.60	1.2	1.2	
LGS(lb/bbl)		10.884	10.884	
HGS (% by vol)	SG 4.20			
HGS (lb/bbl)				
Corrected Solids (% by vol)		1.2	1.2	
FL Temp (F)			121.8	

Hydraulics (ft/min)

Annular Interval	Ann. Vel.	Crit. Vel.
OH:DP	0.00	272.17
OH:HWDP	0.00	272.17
OH:DC	0.00	276.60
OH:DC	0.00	281.63
OH:BIT AND MOTOR	0.00	281.63

Operating Data

Avg ROP(ft/hr)	23.0
WOB (Klbs)	
Rotating Weight	
Rotatary Speed	
Rotating Hrs.	
Sliding Hrs.	
Non-Drlg Hrs.	
P/U (lbs)	
S/O (lbs)	
Torque (lbf-ft)	
Angle	
Azimuth	
Surv. Depth(ft)	

Viscometer Rdgs		Solids Control Equipment					
600	33	Shaker	Screens		Hrs	U/F	O/F
300	24	1	84/84/84/84	De-Sander			
200	16	2	84/84/84/84	De-Silter			
100	13	3		Centrifuge	24.0	8.4	8.5
6	8	4		Centrifuge	24.0	8.4	8.5
3	7	M/C			24.0	8.4	8.5

Active Products

Materials	Initial	Rec'd	Used	Balance	Cost (US$)
Bulk Tank (50 ton \ ea)	144	0	2	142	100.00
Bulk Tanks Blower (1 \ ea)	72	0	1	71	35.00
DESCO CF (25 lb \ sk)	0	76	3	73	156.00
Dyna Fiber Cor (25 # \ sk)	375	0	45	330	891.00
DynaDet (5 gal \ pail)	68	0	13	55	676.00
Engineering (24 hr) (1 \ ea)	0	0	1	0	500.00
New Carb Med (50 # \ sk)	270	0	42	228	462.00
NoFoam X (5 gal \ Bucket)	52	0	8	44	2,296.00
OBM Lab (1 \ ea)	79	0	1	78	55.00
Pallets (1 \ ea)	0	1	1	0	18.00
Shrink Wrap (1 \ ea)	0	1	1	0	12.00
Walnut Shell M (50 lb \ sk)	778	0	320	458	7,360.00

Treatment Recommendations

Last 24 hrs: Pumped a 30 bbl sweep every 30 ft. Pumped 2 30 bbl, 20 ppb hi-vis, LCM sweeps followed by a 30 bbl, low vis sweep with 20 ppb of Walnut Nut Plug. Built mud as needed on the fly.
Next 24 hrs: Will continue pumping sweeps every 30 ft. Appear to be out of the thick clay formation, so the degree of bit balling will determine whether or not to pump low vis sweeps. Will continue to build mud as needed.

Comments/Remarks

Drilled ahead to 3,447 ft. POOH for bit change.

****Trucking charges from DT EVA2334

Daily Tax (US$)	Trucking (US$)	Daily Cost (US$)	14,205.85
723.66	921.19	Cumulative Cost (US$)	95,179.54

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Newpark Drilling Fluids, L.L.C. — **Mud Report**

Jerry Ard	**Evanston WY**	
Tel:	Tel:	Tel:
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MudPIT™

Date	10/01/2010	MD (ft)	3,453
Report #	10	TVD (ft)	3,453
Spud Date	09/22/2010	Bit MD (ft)	3,453
API Well #	4302330021	Bit TVD (ft)	3,453
Present Activity		Drilling Ahead	

Operator:	**PIONEER NATURAL RESOURCES**	**Contractor:**	**Nabors 169**
Report For:	**Clifton Everett/Derrick Berry**	**Report For:**	**Rod Flynn**

Well Name / No.	Field / Block	Sur - Abs or Sec-T-R	County / Parish	State / Province	Country
SOUTH HILLS FEDERAL # 6-1			JUAB COUNTY	UTAH	USA

Drill String	OD(in)	ID(in)	Length(ft)
BIT AND	8.0	2.875	80.45
DC	8.0	2.825	183.85
DC	6.5	2.825	190.52
HWDP	5.0	3	831.27
DP	5.0	4.28	2166.91

Pump and Circulating Data (check box for Riser Boost)

Pump #	1 ☐	2 ☐	3 ☐	Stand Pipe (psi)		2,415
Liner (in)	6.5	6.5	0.0	Calc P.Loss (psi)		1,358
Stroke (in)	10.0	10.0	0.0	ECD (ppg)		8.55
stk/min	220	0	0	Pump # 1	Min	Stks
Efficiency (%)	95	95	95	Surf-Bit	2	507
(bbl/stk)	0.097	0.097	0.000	Bott's Up	59	12,942
(gpm)	901	0	0	Surf-Surf	61	13,448
Total (gpm)		901		Tot. Circ.	90	19,881

Bit Data		Leak Off Test(ppg)	0	Active Volume (bbl)		Storage Volume(bbl)		Volume Reconciliation (bbl)			
Bit Size (in)	17.5	TFA (in²)	1.374	Annulus:	1,262	Storage 1		Starting Volume	1923	Total Additions:	21
% Washout	15	Noz-Vel (ft/se)	209.69	Drill String:	49	Storage 2		Water Additions	20	Hole Losses	
Bit Type:	HCC HCD507Z	Imp-Frc (psi)	831	Pits:	627	Storage 3		Oil Additions		SCE Losses	6
Bit #:	5	PSI Loss (psi)	335.40	Slug Pit:	0	Storage 4		Chemical Additions:	1	Other Losses	
(1/32 in)	16 16 16 16	HSI (hp/in²)	0.731	Total Circulating Volume		Total Storage Volume		Barite Additions:		Total Losses	6
16 16 16		Sys HHP (hp)	1269.0	1,938		0		Whole Mud Add:		Mud to Storage:	
		Sys HHP %	13.888	Volume Below Bit		0		Other Additions		Ending Volume:	1938

Fluid Type	Water-based	Fluid Properties			
Sample Temperature (°F)		Pit 68.0	Pit 82.0		
Time Sample Taken:		3:30 AM	4:00 PM		
Depth @ Time of Sample (ft)		3,453	3,447		
MudWt [ppg] Unwt'd		8.5	8.5		
Funnel Viscosity (sec/qt)		45	66		
Plastic Vis. (cp) @ 120 (°F)		10	12		
Yield Point (lbf/100ft²)		14	14		
Gel Strength (10s/10m) (lbf/100ft²)		7 7	9 8		
Gel Strength (lbf/100ft²) @ 30 min		8	9		
API Filtrate (mL/30 min)		11.0	8.0		
HPHT Filtrate (mL) @ 250 (°F)					
Cake (1/32 in) (API/HPHT)		2	2		
Water (% by vol)		96.0	96.0		
Other Fluid (% by vol)	SG 1.20				
Non-Aq (% by vol)	SG 0.84				
Solids (% by vol)		4	4		
Sand (% by vol)		0.05	0.05		
MBT Cap (Bent Equiv.)(lb/bbl)		22.0	23.5		
pH @ 120 (°F)		8.5	9.0		
Pm (Mud Alkalinity)(mL)		0.1	0.03		
Pf/Mf (Filtrate Alkalinity)(mL)		0.05 0.08	0.01 0.03		
Chlorides (mg/L)		120	120		
Hardness (mg/L as Calcium)		80	100		
LGS (% by vol)	SG 2.60	1.2	1.2		
LGS(lb/bbl)		10.884	10.884		
HGS (% by vol)	SG 4.20				
HGS (lb/bbl)					
Corrected Solids (% by vol)		1.2	1.2		
FL Temp (F)		94.6			

Hydraulics (ft/min)

Annular Interval	Ann. Vel.	Crit. Vel.
OH:DP	58.02	272.17
OH:HWDP	58.02	272.17
OH:DC	60.78	276.60
OH:DC	64.66	281.63
OH:BIT AND MOTOR	64.66	281.63

Operating Data

Avg ROP(ft/hr)	22.0
WOB (Klbs)	14
Rotating Weight	
Rotatary Speed	
Rotating Hrs.	
Sliding Hrs.	
Non-Drlg Hrs.	
P/U (lbs)	
S/O (lbs)	
Torque (lbf-ft)	
Angle	
Azimuth	
Surv. Depth(ft)	

Viscometer Rdgs		Solids Control Equipment					
600	34	Shaker	Screens		Hrs	U/F	O/F
300	24	1	84/84/84/84	De-Sander			
200	17	2	84/84/84/84	De-Silter			
100	14	3		Centrifuge	24.0	8.4	8.5
6	7	4		Centrifuge	24.0	8.4	8.5
3	7	M/C			16.0	8.4	8.5

Active Products

Materials	Initial	Rec'd	Used	Balance	Cost (US$)
Bulk Tank (50 ton \ ea)	142	0	2	140	100.00
Bulk Tanks Blower (1 \ ea)	71	0	1	70	35.00
Caustic Soda (50 lb \ sk)	29	0	3	26	82.80
DESCO CF (25 lb \ sk)	73	0	8	65	416.00
Dyna Fiber Cor (25 # \ sk)	330	0	8	322	158.40
DynaDet (5 gal \ pail)	55	0	7	48	364.00
Engineering (24 hr) (1 \ ea)	0	0	1	0	500.00
Lime (50 lb \ sx)	49	0	1	48	7.05
New Bar (Sack) (100 lb \ sk)	200	0	28	172	233.52
New Bar (Ton \ bulk)	0	60.91	0	60.91	0.00
New Carb Med (50 # \ sk)	228	0	8	220	88.00
NoFoam X (5 gal \ Bucket)	44	0	6	38	1,722.00
OBM Lab (1 \ ea)	78	0	1	77	55.00
Walnut Shell M (50 lb \ sk)	458	0	18	440	414.00

Treatment Recommendations

Last 24 hrs: No treatment due to trip.
Next 24 hrs: Will lower pit volume to add water and fresh gel. Adding NewPac to tighten up fluid loss. Will continue to pump hi-vis LCM sweeps every 30 ft. Will let bit performance dictate the use of low-vis sweeps

Comments/Remarks

Drilled ahead to 3,447 ft. Pumped a slug and POOH for bit change. Picked up new bit and TIH. Drilled ahead to 3,453 at report time.

Both mud cleaners are out at report time due to an electrical problem.

****Trucking charges from DT 57191

Daily Tax (US$)	Trucking (US$)	Daily Cost (US$)	5,056.32
220.55	660.00	Cumulative Cost (US$)	100,235.86

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Newpark Drilling Fluids, L.L.C. — **Mud Report**

Jerry Ard	Evanston WY	
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Mbl: (985) 688-1226	Tel:	Tel:
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MudPIT™

Date	10/02/2010	MD (ft)	3,726
Report #	11	TVD (ft)	3,726
Spud Date	09/22/2010	Bit MD (ft)	3,726
API Well #	4302330021	Bit TVD (ft)	3,726
Present Activity		Drilling Ahead	

Operator:	**PIONEER NATURAL RESOURCES**	**Contractor:**	**Nabors 169**
Report For:	**Clifton Everett/Derrick Berry**	**Report For:**	**Rod Flynn**

Well Name / No.	Field / Block	Sur - Abs or Sec-T-R	County / Parish	State / Province	Country
SOUTH HILLS FEDERAL # 6-1			JUAB COUNTY	UTAH	USA

Drill String	OD(in)	ID(in)	Length(ft)
BIT AND	8.0	2.875	80.45
DC	8.0	2.825	183.85
DC	6.5	2.825	190.52
HWDP	5.0	3	831.27
DP	5.0	4.28	2439.91

Pump and Circulating Data (check box for Riser Boost)

Pump #	1 ☐	2 ☐	3 ☐	Stand Pipe (psi)		2,341
Liner (in)	6.5	6.5	0.0	Calc P.Loss (psi)		1,333
Stroke (in)	10.0	10.0	0.0	ECD (ppg)		8.55
stk/min	202	0	0	Pump # 1	Min	Stks
Efficiency (%)	95	95	95	Surf-Bit	3	556
(bbl/stk)	0.097	0.097	0.000	Bott's Up	69	13,976
(gpm)	827	0	0	Surf-Surf	72	14,532
Total (gpm)		827		Tot. Circ.	104	20,975

Bit Data

Bit Size (in)	17.5					
% Washout	15					
Bit Type:	HCC HCD507Z					
Bit #:	5					
(1/32 in)	16	16	16	16		
16	16	16				

Leak Off Test(ppg)	0				
TFA (in²)	1.374				
Noz-Vel (ft/se)	192.53				
Imp-Frc (psi)	701				
PSI Loss (psi)	282.76				
HSI (hp/in²)	0.566				
Sys HHP (hp)	1129.5				
Sys HHP %	12.079				

Active Volume (bbl)		Storage Volume(bbl)		Volume Reconciliation (bbl)		Volume Reconciliation (bbl)	
Annulus:	1,362	Storage 1		Starting Volume	1938	Total Additions:	267
Drill String:	54	Storage 2		Water Additions	267	Hole Losses	40
Pits:	628	Storage 3		Oil Additions		SCE Losses	121
Slug Pit:	0	Storage 4		Chemical Additions:		Other Losses	
Total Circulating Volume	2,045	Total Storage Volume	0	Barite Additions:		Total Losses	161
				Whole Mud Add:		Mud to Storage:	
				Other Additions		Ending Volume:	2044

Fluid Type	Water-based									
Sample Temperature (°F)	Pit	78.0	Pit	82.0						
Time Sample Taken:	3:30 AM		4:00 PM							
Depth @ Time of Sample (ft)	3,726		3,601							
MudWt [ppg] Unwt'd	8.5		8.5							
Funnel Viscosity (sec/qt)	52		50							
Plastic Vis. (cp) @ 120 (°F)	12		12							
Yield Point (lbf/100ft²)	12		10							
Gel Strength (10s/10m) (lbf/100ft²)	8	8	8	7						
Gel Strength (lbf/100ft²) @ 30 min	9		8							
API Filtrate (mL/30 min)	10.0		10.0							
HPHT Filtrate (mL) @ 250 (°F)										
Cake (1/32 in) (API/HPHT)	2		2							
Water (% by vol)	96.0		96.0							
Other Fluid (% by vol) SG 1.20										
Non-Aq (% by vol) SG 0.84										
Solids (% by vol)	4		4							
Sand (% by vol)	0.1		0.05							
MBT Cap (Bent Equiv.)(lb/bbl)	22.0		22.5							
pH @ 120 (°F)	8.5		8.5							
Pm (Mud Alkalinity)(mL)	0.3		0.03							
Pf/Mf (Filtrate Alkalinity)(mL)	0.06	0.09	0.05	0.08						
Chlorides (mg/L)	120		120							
Hardness (mg/L as Calcium)	100		100							
LGS (% by vol) SG 2.60	1.2		1.2							
LGS(lb/bbl)	10.884		10.884							
HGS (% by vol) SG 4.20										
HGS (lb/bbl)										
Corrected Solids (% by vol)	1.2		1.2							
FL Temp (F)	131.1		128.9							

Hydraulics (ft/min)

Annular Interval	Ann. Vel.	Crit. Vel.
OH:DP	53.27	285.42
OH:HWDP	53.27	285.42
OH:DC	55.81	289.49
OH:DC	59.37	294.10
OH:BIT AND MOTOR	59.37	294.10

Operating Data

Avg ROP(ft/hr)	11.0
WOB (Klbs)	23
Rotating Weight	
Rotatary Speed	
Rotating Hrs.	
Sliding Hrs.	
Non-Drlg Hrs.	
P/U (lbs)	
S/O (lbs)	
Torque (lbf-ft)	
Angle	
Azimuth	
Surv. Depth(ft)	

Viscometer Rdgs		Solids Control Equipment					
600	36	Shaker	Screens		Hrs	U/F	O/F
300	24	1	84/84/84/84	De-Sander			
200	19	2	84/84/84/84	De-Silter			
100	15	3		Centrifuge	24.0	8.4	8.5
6	8	4		Centrifuge	24.0	8.4	8.5
3	8	M/C					

Active Products

Materials	Initial	Rec'd	Used	Balance	Cost (US$)
Bulk Tank (50 ton \ ea)	140	0	2	138	100.00
Bulk Tanks Blower (1 \ ea)	70	0	1	69	35.00
Caustic Soda (50 lb \ sk)	26	0	10	16	276.00
Dyna Fiber Cor (25 # \ sk)	322	0	14	308	277.20
Engineering (24 hr) (1 \ ea)	0	0	1	0	500.00
Mica F (50 lb \ sk)	419	0	124	295	2,424.20
New Carb Med (50 # \ sk)	220	0	14	206	154.00
NewGel HY (50 # \ sk)	720	0	102	618	688.50
NewPHPA (5 Gal \ Pail)	55	0	3	52	240.00
NewPac R (50 lb \ sx)	10	0	4	6	516.00
NoFoam X (5 gal \ Bucket)	38	32	38	32	10,906.00
OBM Lab (1 \ ea)	77	0	1	76	55.00
Pallets (1 \ ea)	0	1	1	0	18.00
Shrink Wrap (1 \ ea)	0	1	1	0	12.00
Walnut Shell M (50 lb \ sk)	440	0	59	381	1,357.00

Treatment Recommendations

Last 24 hrs: Pumped a 10 bbl, 20 ppb hi-vis, LCM sweep every 30 ft. Built mud on the fly as needed.
Next 24 hrs: Will continue with same treatment maintaining mud within prescribed parameters.

Comments/Remarks

Drilled ahead to 3,726 ft at report time. Foaming of the mud still a problem.

****Trucking charges from DT EVA2353

Daily Tax (US$)	Trucking (US$)	Daily Cost (US$)	19,503.58
1,023.53	921.15	Cumulative Cost (US$)	119,739.44

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Newpark Drilling Fluids, L.L.C. — **Mud Report**

Jerry Ard	**Evanston WY**	
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Mbl: (985) 688-1226	Tel:	Tel:
Pgr:	Fax:	Fax:

MudPIT™

Date	10/03/2010	MD (ft)	3,799
Report #	12	TVD (ft)	3,799
Spud Date	09/22/2010	Bit MD (ft)	3,799
API Well #	4302330021	Bit TVD (ft)	3,799
Present Activity		Drilling Ahead	

Operator:	**PIONEER NATURAL RESOURCES**	**Contractor:**	**Nabors 169**
Report For:	**Clifton Everett/Derrick Berry**	**Report For:**	**Rod Flynn**

Well Name / No.	Field / Block	Sur - Abs or Sec-T-R	County / Parish	State / Province	Country
SOUTH HILLS FEDERAL # 6-1			JUAB COUNTY	UTAH	USA

Drill String	OD(in)	ID(in)	Length(ft)
Bit & Motor	9.5	3.5	38.41
DC	8.0	2.825	225.8
DC	6.5	2.825	190.52
HWDP	5.0	3	831.27
DP	5.0	4.28	2513

Pump and Circulating Data (check box for Riser Boost)

Pump #	1 ☐	2 ☐	3 ☐	Stand Pipe (psi)		2,329
Liner (in)	6.5	6.5	0.0	Calc P.Loss (psi)		1,049
Stroke (in)	10.0	10.0	0.0	ECD (ppg)		8.56
stk/min	206	0	0	Pump # 1	Min	Stks
Efficiency (%)	95	95	95	Surf-Bit	3	571
(bbl/stk)	0.097	0.097	0.000	Bott's Up	69	14,242
(gpm)	843	0	0	Surf-Surf	72	14,813
Total (gpm)		843		Tot. Circ.	106	21,933

Bit Data								Leak Off Test(ppg)	0	Active Volume (bbl)		Storage Volume(bbl)		Volume Reconciliation (bbl)			
Bit Size (in)	17.5							TFA (in²)	1.485	Annulus:	1,388	Storage 1		Starting Volume	2044	Total Additions:	132
% Washout	15							Noz-Vel (ft/se)	181.74	Drill String:	56	Storage 2		Water Additions	132	Hole Losses	5
Bit Type:	HCC MLX-09							Imp-Frc (psi)	675	Pits:	694	Storage 3		Oil Additions		SCE Losses	33
Bit #:	7							PSI Loss (psi)	251.95	Slug Pit:	0	Storage 4		Chemical Additions:		Other Losses	
(1/32 in)	22	22	22	22				HSI (hp/in²)	0.514	Total Circulating Volume		Total Storage Volume		Barite Additions:		Total Losses	38
								Sys HHP (hp)	1145.9	2,138		0		Whole Mud Add:		Mud to Storage:	
								Sys HHP %	10.818	Volume Below Bit		0		Other Additions		Ending Volume:	2138

Fluid Type	Water-based		Fluid Properties									
Sample Temperature (°F)			Pit	69.0	Pit	73.0						
Time Sample Taken:			3:30 AM		4:00 PM							
Depth @ Time of Sample (ft)			3,799		3,750							
MudWt [ppg] Unwt'd			8.5		8.5							
Funnel Viscosity (sec/qt)			51		49							
Plastic Vis. (cp) @	120	(°F)	7		10							
Yield Point (lbf/100ft²)			13		12							
Gel Strength (10s/10m) (lbf/100ft²)			10	10	8	8						
Gel Strength (lbf/100ft²) @	30	min	12		9							
API Filtrate (mL/30 min)			10.0		10.0							
HPHT Filtrate (mL) @	250	(°F)										
Cake (1/32 in) (API/HPHT)			2		2							
Water (% by vol)			95.0		95.0							
Other Fluid (% by vol)	SG	1.20										
Non-Aq (% by vol)	SG	0.84										
Solids (% by vol)			5		5							
Sand (% by vol)			0.3		0.3							
MBT Cap (Bent Equiv.)(lb/bbl)			22.5		22.0							
pH @	120	(°F)	9.0		9.0							
Pm (Mud Alkalinity)(mL)			0.8		0.7							
Pf/Mf (Filtrate Alkalinity)(mL)			0.2	0.7	0.2	0.6						
Chlorides (mg/L)			120		120							
Hardness (mg/L as Calcium)			100		100							
LGS (% by vol)	SG	2.60	1.2		1.2							
LGS(lb/bbl)			10.884		10.884							
HGS (% by vol)	SG	4.20										
HGS (lb/bbl)												
Corrected Solids (% by vol)			1.2		1.2							
FL Temp (F)			151.2									

Hydraulics (ft/min)

Annular Interval	Ann. Vel.	Crit. Vel.
OH:DP	54.33	294.06
OH:HWDP	54.33	294.06
OH:DC	56.91	296.57
OH:DC	60.54	299.40
OH:Bit & Motor	65.59	302.63

Operating Data

Avg ROP(ft/hr)	8.0
WOB (Klbs)	37
Rotating Weight	
Rotatary Speed	
Rotating Hrs.	
Sliding Hrs.	
Non-Drlg Hrs.	
P/U (lbs)	
S/O (lbs)	
Torque (lbf-ft)	
Angle	
Azimuth	
Surv. Depth(ft)	

Viscometer Rdgs		Solids Control Equipment					
600	27	Shaker	Screens		Hrs	U/F	O/F
300	20	1	84/84/84/84	De-Sander			
200	18	2	84/84/84/84	De-Silter			
100	15	3		Centrifuge	24.0	8.4	8.5
6	10	4		Centrifuge	24.0	8.4	8.5
3	10	M/C			20.0	8.4	8.5

Active Products

Materials	Initial	Rec'd	Used	Balance	Cost (US$)
Bulk Tank (50 ton \ ea)	138	0	2	136	100.00
Bulk Tanks Blower (1 \ ea)	69	0	1	68	35.00
Dyna Fiber Cor (25 # \ sk)	308	0	15	293	297.00
Engineering (24 hr) (1 \ ea)	0	0	1	0	500.00
Mica F (50 lb \ sk)	295	0	7	288	136.85
New Bar (Sack) (100 lb \ sk)	172	0	40	132	333.60
New Carb Med (50 # \ sk)	206	0	14	192	154.00
NewGel (100 \ sx)	105	0	63	42	315.00
NewPHPA (5 Gal \ Pail)	52	0	2	50	160.00
NewPac R (50 lb \ sx)	6	0	1	5	129.00
NoFoam X (5 gal \ Bucket)	32	0	8	24	2,296.00
OBM Lab (1 \ ea)	76	0	1	75	55.00

Treatment Recommendations

Last 24 hrs: Pumped a 10 bbl, 20 ppb hi-vis, LCM sweep every 30 ft. Built mud on the fly as needed.
Next 24 hrs: Will continue with sweeps. Will continue to build mud as needed.

Comments/Remarks

Drilled ahead to 3,750 ft. Pumped slug and POOH. Picked up new bit and BHA and TIH. Washed and reamed to bottom. Drilled ahead to 3,799 ft at report time. Beginning to see a slight rise in solids.

Daily Tax (US$)	Trucking (US$)	Daily Cost (US$)	4,752.14
240.69	0.00	Cumulative Cost (US$)	124,491.58

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Newpark Drilling Fluids, L.L.C. — Mud Report

Jerry Ard	Evanston WY	
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Pgr:	Fax:	Fax:

MudPIT™

Date	10/04/2010	MD (ft)	3,907
Report #	13	TVD (ft)	3,907
Spud Date	09/22/2010	Bit MD (ft)	2,197
API Well #	4302330021	Bit TVD (ft)	2,197
Present Activity		TIH	

Operator:	**PIONEER NATURAL RESOURCES**	**Contractor:**	**Nabors 169**
Report For:	**Clifton Everett/Derrick Berry**	**Report For:**	**Rod Flynn**

Well Name / No.	Field / Block	Sur - Abs or Sec-T-R	County / Parish	State / Province	Country
SOUTH HILLS FEDERAL # 6-1			JUAB COUNTY	UTAH	USA

Drill String	OD(in)	ID(in)	Length(ft)
Bit & Motor	9.5	3.5	38.41
DC	8.0	2.825	225.8
DC	6.5	2.825	190.52
HWDP	5.0	3	831.27
DP	5.0	4.28	911

Pump and Circulating Data (check box for Riser Boost)

Pump #	1 ☐	2 ☐	3 ☐	Stand Pipe (psi)		0
Liner (in)	6.5	6.5	0.0	Calc P.Loss (psi)		940
Stroke (in)	10.0	10.0	0.0	ECD (ppg)		8.53
stk/min	206	0	0	Pump # 1	Min	Stks
Efficiency (%)	95	95	95	Surf-Bit	1	279
(bbl/stk)	0.097	0.097	0.000	Bott's Up	40	8,175
(gpm)	843	0	0	Surf-Surf	41	8,454
Total (gpm)		843		Tot. Circ.	75	15,471

Bit Data							Leak Off Test(ppg)	0	Active Volume (bbl)		Storage Volume(bbl)		Volume Reconciliation (bbl)			
Bit Size (in)	17.5						TFA (in²)	1.374	Annulus:	797	Storage 1		Starting Volume	2138	Total Additions:	1
% Washout	15						Noz-Vel (ft/se)	196.34	Drill String:	27	Storage 2		Water Additions		Hole Losses	48
Bit Type:	HC C hcd507z						Imp-Frc (psi)	729	Pits:	684	Storage 3		Oil Additions		SCE Losses	48
Bit #:	7						PSI Loss (psi)	294.07	Slug Pit:	0	Storage 4		Chemical Additions:	1	Other Losses	90
(1/32 in)	16	16	16	16			HSI (hp/in²)	0.6	Total Circulating Volume		Total Storage Volume		Barite Additions:		Total Losses	186
16	16	16					Sys HHP (hp)		1,508		0		Whole Mud Add:		Mud to Storage:	
							Sys HHP %		Volume Below Bit		673		Other Additions		Ending Volume:	1953

Fluid Type	Water-based	Fluid Properties			
Sample Temperature (°F)		Pit 84.0		Pit 86.0	
Time Sample Taken:		3:30 AM		4:00 PM	
Depth @ Time of Sample (ft)		3,907		3,891	
MudWt [ppg] Unwt'd		8.5		8.5	
Funnel Viscosity (sec/qt)		52		51	
Plastic Vis. (cp) @ 120 (°F)		7		9	
Yield Point (lbf/100ft²)		13		13	
Gel Strength (10s/10m) (lbf/100ft²)		10	9	9	9
Gel Strength (lbf/100ft²) @ 30 min		12		11	
API Filtrate (mL/30 min)		10.0		10.0	
HPHT Filtrate (mL) @ 250 (°F)					
Cake (1/32 in) (API/HPHT)		2		2	
Water (% by vol)		95.0		98.8	
Other Fluid (% by vol)	SG 1.20				
Non-Aq (% by vol)	SG 0.84				
Solids (% by vol)		5		1.2	
Sand (% by vol)		0.3		0.03	
MBT Cap (Bent Equiv.)(lb/bbl)		22.5		22.5	
pH @ 120 (°F)		9.0		9.0	
Pm (Mud Alkalinity)(mL)		0.7		0.08	
Pf/Mf (Filtrate Alkalinity)(mL)		0.2	0.6	0.02	0.07
Chlorides (mg/L)		120		120	
Hardness (mg/L as Calcium)		80		100	
LGS (% by vol)	SG 2.60	1.2		1.2	
LGS(lb/bbl)		10.884		10.884	
HGS (% by vol)	SG 4.20				
HGS (lb/bbl)					
Corrected Solids (% by vol)		1.2		1.2	
FL Temp (F)				150.7	

Hydraulics (ft/min)

Annular Interval	Ann. Vel.	Crit. Vel.
OH:DP	54.33	284.75
OH:HWDP	54.33	284.75
OH:DC	56.91	287.59
OH:DC	60.54	290.79
OH:Bit & Motor	65.59	294.46

Operating Data

Avg ROP(ft/hr)	
WOB (Klbs)	
Rotating Weight	
Rotatary Speed	
Rotating Hrs.	
Sliding Hrs.	
Non-Drlg Hrs.	
P/U (lbs)	
S/O (lbs)	
Torque (lbf-ft)	
Angle	
Azimuth	
Surv. Depth(ft)	

Viscometer Rdgs		Solids Control Equipment					
600	27	Shaker	Screens		Hrs	U/F	O/F
300	20	1	84/84/84/84	De-Sander			
200	18	2	84/84/84/84	De-Silter			
100	15	3		Centrifuge	24.0	8.4	8.5
6	10	4		Centrifuge	24.0	8.4	8.5
3	9	M/C			24.0	8.4	8.5

Active Products

Materials	Initial	Rec'd	Used	Balance	Cost (US$)
Bulk Tank (50 ton \ ea)	136	0	2	134	100.00
Bulk Tanks Blower (1 \ ea)	68	0	1	67	35.00
Dyna Fiber Cor (25 # \ sk)	293	0	14	279	277.20
DynaDet (5 gal \ pail)	48	0	7	41	364.00
Engineering (24 hr) (1 \ ea)	0	0	1	0	500.00
New Bar (Sack) (100 lb \ sk)	132	240	40	332	333.60
New Carb Med (50 # \ sk)	192	84	14	262	154.00
NewGel (100 \ sx)	42	105	32	115	160.00
NewGel HY (50 # \ sk)	618	0	80	538	540.00
NewPHPA (5 Gal \ Pail)	50	0	1	49	80.00
NewPac R (50 lb \ sx)	5	20	0	25	0.00
NoFoam X (5 gal \ Bucket)	24	45	9	60	2,583.00
OBM Lab (1 \ ea)	75	0	1	74	55.00
Pallets (1 \ ea)	0	14	14	0	252.00
Shrink Wrap (1 \ ea)	0	12	12	0	144.00
Soda Ash (50 # \ sk)	83	0	1	82	28.75

Treatment Recommendations

Last 24 hrs: Pumped a 10 bbl, 20 ppb hi-vis, LCM sweep every 10 ft. Added water, Gel, Caustic, NewPac to the active system as needed to maintain mud within prescribed parameters. Next 24 hrs: Will continue to pump sweeps letting ROP determine sweep intervals. Will continue with same treatment in active system.

Comments/Remarks

Drilled ahead to 3,907 ft. Pumped slug and POOH for a bit change. Picked up new bit and TIH to 2,197 ft at report time.

****Other Losses shown are from dumping sand traps.
Trucking charges from DT EVA2355

Daily Tax (US$)	Trucking (US$)	Daily Cost (US$)	7,499.94
306.39	1,587.00	Cumulative Cost (US$)	131,991.52

The information in this report is based on our experience and represents our best judgment in the matter and is intended to be helpful, but we cannot assume responsibility for any loss or accident that may result from its use. Furthermore, nothing contained herein shell be construed as a recommendation to use any product in conflict with existing patents covering any materials or uses.

Newpark Drilling Fluids, L.L.C. — **Mud Report**

Jerry Ard	Evanston WY	
Tel:	Tel:	Tel:
Mbl: (985) 688-1226	Tel:	Tel:
Pgr:	Fax:	Fax:

MudPIT™

Date	10/05/2010	MD (ft)	4,120
Report #	14	TVD (ft)	4,120
Spud Date	09/22/2010	Bit MD (ft)	4,120
API Well #	4302330021	Bit TVD (ft)	4,120
Present Activity		TIH	

Operator:	**PIONEER NATURAL RESOURCES**	**Contractor:**	**Nabors 169**
Report For:	**Clifton Everett/Derrick Berry**	**Report For:**	**Rod Flynn**

Well Name / No.	Field / Block	Sur - Abs or Sec-T-R	County / Parish	State / Province	Country
SOUTH HILLS FEDERAL # 6-1			JUAB COUNTY	UTAH	USA

Drill String	OD(in)	ID(in)	Length(ft)
Bit & Motor	9.5	3.5	38.41
DC	8.0	2.825	225.8
DC	6.5	2.825	190.52
HWDP	5.0	3	831.27
DP	5.0	4.28	2834

Pump and Circulating Data (check box for Riser Boost)

Pump #	1 ☐	2 ☐	3 ☐	Stand Pipe (psi)		2,600
Liner (in)	6.5	6.5	0.0	Calc P.Loss (psi)		1,139
Stroke (in)	10.0	10.0	0.0	ECD (ppg)		8.57
stk/min	206	0	0	Pump # 1	Min	Stks
Efficiency (%)	95	95	95	Surf-Bit	3	630
(bbl/stk)	0.097	0.097	0.000	Bott's Up	75	15,458
(gpm)	843	0	0	Surf-Surf	78	16,087
Total (gpm)		843		Tot. Circ.	112	23,135

Bit Data																							
Bit Size (in)	17.5																						
% Washout	15																						
Bit Type:	HC C HCD507Z																						
Bit #:	8																						
(1/32 in)	16	16	16	16																			
16	16	16																					

Leak Off Test(ppg)	0																						
TFA (in²)	1.374																						
Noz-Vel (ft/se)	196.34																						
Imp-Frc (psi)	729																						
PSI Loss (psi)	294.07																						
HSI (hp/in²)	0.6																						
Sys HHP (hp)	1279.3																						
Sys HHP %	11.311																						

Active Volume (bbl)		Storage Volume(bbl)		Volume Reconciliation (bbl)			
Annulus:	1,507	Storage 1		Starting Volume	1953	Total Additions:	445
Drill String:	61	Storage 2		Water Additions	445	Hole Losses	48
Pits:	687	Storage 3		Oil Additions		SCE Losses	95
Slug Pit:	0	Storage 4		Chemical Additions:		Other Losses	
Total Circulating Volume	2,255	Total Storage Volume	0	Barite Additions:		Total Losses	143
				Whole Mud Add:		Mud to Storage:	
				Other Additions		Ending Volume:	2255

Fluid Type	Water-based																						
Sample Temperature (°F)	Pit	84.0	Pit	84.0																			
Time Sample Taken:	3:00 AM		4:00 PM																				
Depth @ Time of Sample (ft)	4,120		3,939																				
MudWt [ppg] Unwt'd	8.5		8.5																				
Funnel Viscosity (sec/qt)	50		51																				
Plastic Vis. (cp) @ 120 (°F)	8		9																				
Yield Point (lbf/100ft²)	16		14																				
Gel Strength (10s/10m) (lbf/100ft²)	12	11	10	11																			
Gel Strength (lbf/100ft²) @ 30 min	14		13																				
API Filtrate (mL/30 min)	9.0		10.0																				
HPHT Filtrate (mL) @ 250 (°F)																							
Cake (1/32 in) (API/HPHT)	2																						
Water (% by vol)	93.0		94.0																				
Other Fluid (% by vol) SG 1.20																							
Non-Aq (% by vol) SG 0.84																							
Solids (% by vol)	7		6																				
Sand (% by vol)	0.8		0.8																				
MBT Cap (Bent Equiv.)(lb/bbl)	23.0		22.5																				
pH @ 120 (°F)	8.5		9.0																				
Pm (Mud Alkalinity)(mL)	0.5		0.7																				
Pf/Mf (Filtrate Alkalinity)(mL)	0.1	0.2	0.3	0.6																			
Chlorides (mg/L)	120		120																				
Hardness (mg/L as Calcium)	80		100																				
LGS (% by vol) SG 2.60	1.2		1.2																				
LGS(lb/bbl)	10.884		10.884																				
HGS (% by vol) SG 4.20																							
HGS (lb/bbl)																							
Corrected Solids (% by vol)	1.2		1.2																				
FL Temp (F)	128.3		132.6																				

Hydraulics (ft/min)

Annular Interval	Ann. Vel.	Crit. Vel.
OH:DP	54.33	316.38
OH:HWDP	54.33	316.38
OH:DC	56.91	319.45
OH:DC	60.54	322.92
OH:Bit & Motor	65.59	326.89

Operating Data

Avg ROP(ft/hr)	8.8
WOB (Klbs)	26
Rotating Weight	
Rotatary Speed	
Rotating Hrs.	
Sliding Hrs.	
Non-Drlg Hrs.	
P/U (lbs)	
S/O (lbs)	
Torque (lbf-ft)	
Angle	
Azimuth	
Surv. Depth(ft)	

Viscometer Rdgs		Solids Control Equipment					
600	32	Shaker	Screens		Hrs	U/F	O/F
300	24	1	84/84/84/84	De-Sander			
200	20	2	84/84/84/84	De-Silter			
100	17	3		Centrifuge	24.0	8.4	8.5
6	12	4		Centrifuge	24.0	8.4	8.5
3	11	M/C			24.0	8.4	8.5

Active Products

Materials	Initial	Rec'd	Used	Balance	Cost (US$)
Bulk Tank (50 ton \ ea)	134	0	2	132	100.00
Bulk Tanks Blower (1 \ ea)	67	0	1	66	35.00
Caustic Soda (50 lb \ sk)	16	0	1	15	27.60
DESCO CF (25 lb \ sk)	65	0	1	64	52.00
Dyna Fiber Cor (25 # \ sk)	279	0	1	278	19.80
DynaDet (5 gal \ pail)	41	0	1	40	52.00
Engineering (24 hr) (1 \ ea)	0	0	1	0	500.00
Mica F (50 lb \ sk)	288	0	-174	462	-3,401.70
New Bar (Sack) (100 lb \ sk)	332	0	19	313	158.46
New Carb Med (50 # \ sk)	262	0	21	241	231.00
NewGel (100 \ sx)	115	0	10	105	50.00
NewGel HY (50 # \ sk)	538	0	58	480	391.50
NewPac R (50 lb \ sx)	25	0	5	20	645.00
OBM Lab (1 \ ea)	74	0	1	73	55.00
Soda Ash (50 # \ sk)	82	0	1	81	28.75

Treatment Recommendations

Last 24 hrs: Pumped a 10 bbl, 20 ppb hi-vis, LCM sweep every 10 ft. Added water, Gel, NewPac and Caustic to the active system to maintain mud within prescribed parameters. Emptied on Frac Tank of water. Re-plumbed pump to move mud from Pill Pit to Frac Tank and began building 500 bbls of 10 ppg Kill Mud.
Next 24 hrs: Will continue to pump sweeps. Will continue with same treatment to the active system. Will continue to build Kill Mud.

Comments/Remarks

Completed TIH. Drilled ahead to 4,120 ft at report time. Got Barite bulk tanks hooked up and functioning.

****Trucking charges from DT 56335, 56336, 56337
Adjustment in Inventory was made for Mica

Daily Tax (US$)	Trucking (US$)	Daily Cost (US$)	2,477.19
-93.34	3,532.78	Cumulative Cost (US$)	134,375.38

The information in this report is based on our experience and represents our best judgment in the matter and is intended to be helpful, but we cannot assume responsibility for any loss or accident that may result from its use. Furthermore, nothing contained herein shell be construed as a recommendation to use any product in conflict with existing patents covering any materials or uses.

Newpark Drilling Fluids, L.L.C. — **Mud Report**

Jerry Ard	Evanston WY	
Tel:	Tel:	Tel:
Mbl: (985) 688-1226	Tel:	Tel:
Pgr:	Fax:	Fax:

MudPIT™

Date	10/06/2010	MD (ft)	4,285
Report #	15	TVD (ft)	4,285
Spud Date	09/22/2010	Bit MD (ft)	4,285
API Well #	4302330021	Bit TVD (ft)	4,285
Present Activity		Drilling Ahead	

Operator:	**PIONEER NATURAL RESOURCES**	**Contractor:**	**Nabors 169**
Report For:	**Clifton Everett/Billy Vigil**	**Report For:**	**Rod Flynn**

Well Name / No.	Field / Block	Sur - Abs or Sec-T-R	County / Parish	State / Province	Country
SOUTH HILLS FEDERAL # 6-1			JUAB COUNTY	UTAH	USA

Drill String	OD(in)	ID(in)	Length(ft)
Bit & Motor	9.5	3.5	38.41
DC	8.0	2.825	225.8
DC	6.5	2.825	190.52
HWDP	5.0	3	831.27
DP	5.0	4.28	2999

Pump and Circulating Data (check box for Riser Boost)

Pump #	1 ☐	2 ☐	3 ☐	Stand Pipe (psi)		2,425
Liner (in)	6.5	6.5	0.0	Calc P.Loss (psi)		1,222
Stroke (in)	10.0	10.0	0.0	ECD (ppg)		8.56
stk/min	202	0	0	Pump # 1	Min	Stks
Efficiency (%)	95	95	95	Surf-Bit	3	660
(bbl/stk)	0.097	0.097	0.000	Bott's Up	80	16,083
(gpm)	827	0	0	Surf-Surf	83	16,742
Total (gpm)		827		Tot. Circ.	121	24,529

Bit Data		Leak Off Test(ppg)	0	Active Volume (bbl)		Storage Volume(bbl)		Volume Reconciliation (bbl)			
Bit Size (in)	17.5	TFA (in²)	1.374	Annulus:	1,568	10 ppg	180	Starting Volume	2255	Total Additions:	258
% Washout	15	Noz-Vel (ft/se)	192.53	Drill String:	64	Storage 2		Water Additions	247	Hole Losses	48
Bit Type:	HC C HCD507Z	Imp-Frc (psi)	701	Pits:	759	Storage 3		Oil Additions		SCE Losses	74
Bit #:	8	PSI Loss (psi)	282.76	Slug Pit:	0	Storage 4		Chemical Additions:		Other Losses	
(1/32 in)	16 16 16 16	HSI (hp/in²)	0.566	Total Circulating Volume		Total Storage Volume		Barite Additions:	11	Total Losses	122
16 16 16		Sys HHP (hp)	1170.0	2,391		180		Whole Mud Add:		Mud to Storage:	
		Sys HHP %	11.66	Volume Below Bit		0		Other Additions		Ending Volume:	2391

Fluid Type	Water-based	Fluid Properties			
Sample Temperature (°F)		Pit 80.0	Pit 82.0		
Time Sample Taken:		3:00 AM	4:00 PM		
Depth @ Time of Sample (ft)		4,285	4,264		
MudWt [ppg] Unwt'd		8.5	8.5		
Funnel Viscosity (sec/qt)		48	52		
Plastic Vis. (cp) @ 120 (°F)		9	10		
Yield Point (lbf/100ft²)		13	14		
Gel Strength (10s/10m) (lbf/100ft²)		8 10	9 10		
Gel Strength (lbf/100ft²) @ 30 min		13	14		
API Filtrate (mL/30 min)		9.0	9.0		
HPHT Filtrate (mL) @ 250 (°F)					
Cake (1/32 in) (API/HPHT)		2	2		
Water (% by vol)		94.0	94.0		
Other Fluid (% by vol)	SG 1.20				
Non-Aq (% by vol)	SG 0.84				
Solids (% by vol)		6	6		
Sand (% by vol)		0.8	0.8		
MBT Cap (Bent Equiv.)(lb/bbl)		22.0	22.5		
pH @ 120 (°F)		8.5	8.5		
Pm (Mud Alkalinity)(mL)		0.5	0.6		
Pf/Mf (Filtrate Alkalinity)(mL)		0.1 0.3	0.1 0.3		
Chlorides (mg/L)		120	120		
Hardness (mg/L as Calcium)		80	80		
LGS (% by vol)	SG 2.60	1.2	1.2		
LGS(lb/bbl)		10.884	10.884		
HGS (% by vol)	SG 4.20				
HGS (lb/bbl)					
Corrected Solids (% by vol)		1.2	1.2		
FL Temp (F)		130.4	131.9		

Hydraulics (ft/min)			Operating Data	
Annular Interval	Ann. Vel.	Crit. Vel.	Avg ROP(ft/hr)	6.9
OH:DP	53.27	300.93	WOB (Klbs)	31
OH:HWDP	53.27	300.93	Rotating Weight	
OH:DC	55.81	303.89	Rotatary Speed	
OH:DC	59.37	307.22	Rotating Hrs.	
OH:Bit & Motor	64.32	311.05	Sliding Hrs.	
			Non-Drlg Hrs.	
			P/U (lbs)	
			S/O (lbs)	
			Torque (lbf-ft)	
			Angle	
			Azimuth	
			Surv. Depth(ft)	

Viscometer Rdgs		Solids Control Equipment					
600	31	Shaker	Screens		Hrs	U/F	O/F
300	22	1	84/84/84/84	De-Sander			
200	17	2	84/84/84/84	De-Silter			
100	15	3		Centrifuge	24.0	8.4	8.5
6	8	4		Centrifuge	24.0	8.4	8.5
3	10	M/C			24.0	8.4	8.5

Active Products

Materials	Initial	Rec'd	Used	Balance	Cost (US$)
Bulk Tank (50 ton \ ea)	132	0	2	130	100.00
Bulk Tanks Blower (1 \ ea)	66	0	2	64	70.00
Caustic Soda (50 lb \ sk)	15	0	1	14	27.60
DESCO CF (25 lb \ sk)	64	0	2	62	104.00
Dyna Fiber Cor (25 # \ sk)	278	0	28	250	554.40
Engineering (24 hr) (1 \ ea)	0	0	1	0	500.00
Mica F (50 lb \ sk)	462	0	30	432	586.50
New Bar (Ton \ bulk)	60.91	0	8.05	52.86	957.95
New Carb Med (50 # \ sk)	241	0	17	224	187.00
NewGel (100 \ sx)	105	0	56	49	280.00
OBM Lab (1 \ ea)	73	0	1	72	55.00
Soda Ash (50 # \ sk)	81	0	3	78	86.25
Walnut Shell M (50 lb \ sk)	381	0	17	364	391.00

Treatment Recommendations

Last 24 hrs: Pumped a 10 bbl, 20 ppb hi-vis, LCM sweep every 10 ft. In between pumping sweeps, built 10 ppg Kill Mud and transferred it to a designated Frac Tank. This was done in between changing a centrifical gun line pump and working on a mud pump. Added water, Gel, Caustic, New PHPA to active system to maintain active system within prescribed parameters. Next 24 hrs: Will continue to pump sweeps at 10 ft intervals. Will continue with same treatment to active system as needed. Will continue to build 10 ppg Kill Mud.

Comments/Remarks

Drilled ahead to 4,285 ft. Built 180 bbls of 10.0 ppg kill mud.

Daily Tax (US$)	Trucking (US$)	Daily Cost (US$)	4,103.68
203.98	0.00	Cumulative Cost (US$)	138,479.06

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Newpark Drilling Fluids, L.L.C. — **Mud Report**

Jerry Ard	**Evanston WY**	
Tel:	Tel:	Tel:
Mbl: (985) 688-1226	Tel:	Tel:
Pgr:	Fax:	Fax:

MudPIT™

Date	10/07/2010	MD (ft)	4,313
Report #	16	TVD (ft)	4,313
Spud Date	09/22/2010	Bit MD (ft)	58
API Well #	4302330021	Bit TVD (ft)	58
Present Activity		TIH	

Operator:	**PIONEER NATURAL RESOURCES**	**Contractor:**	**Nabors 169**
Report For:	**Clifton Everett/Billy Vigil**	**Report For:**	**Rod Flynn**

Well Name / No.	Field / Block	Sur - Abs or Sec-T-R	County / Parish	State / Province	Country
SOUTH HILLS FEDERAL # 6-1			JUAB COUNTY	UTAH	USA

Drill String	OD(in)	ID(in)	Length(ft)
Bit & Motor	9.5	3.5	38.41
DC	8.0	2.825	19.59

Pump and Circulating Data (check box for Riser Boost)

Pump #	1 ☐	2 ☐	3 ☐	Stand Pipe (psi)		0
Liner (in)	6.5	6.5	0.0	Calc P.Loss (psi)		305
Stroke (in)	10.0	10.0	0.0	ECD (ppg)		8.50
stk/min	202	0	0	Pump # 1	Min	Stks
Efficiency (%)	95	95	95	Surf-Bit	0	6
(bbl/stk)	0.097	0.097	0.000	Bott's Up	1	187
(gpm)	827	0	0	Surf-Surf	1	193
Total (gpm)		827		Tot. Circ.	37	7,539

Bit Data		Leak Off Test(ppg)	0	Active Volume (bbl)		Storage Volume(bbl)		Volume Reconciliation (bbl)			
Bit Size (in)	17.5	TFA (in²)	1.374	Annulus:	18	10 ppg	235	Starting Volume	2391	Total Additions:	70
% Washout	15	Noz-Vel (ft/se)	192.53	Drill String:	1	Storage 2		Water Additions	63	Hole Losses	48
Bit Type:	HC C HCD507Z	Imp-Frc (psi)	701	Pits:	716	Storage 3		Oil Additions		SCE Losses	22
Bit #:	8	PSI Loss (psi)	282.76	Slug Pit:	0	Storage 4		Chemical Additions:		Other Losses	
(1/32 in)	16 16 16 16	HSI (hp/in²)	0.566	Total Circulating Volume		Total Storage Volume		Barite Additions:	7	Total Losses	70
16 16 16		Sys HHP (hp)		735		235		Whole Mud Add:		Mud to Storage:	
		Sys HHP %		Volume Below Bit		1,674		Other Additions		Ending Volume:	2391

Fluid Type	Water-based	Fluid Properties							
Sample Temperature (°F)		Pit	78.0	Pit	80.0				
Time Sample Taken:		3:00 AM		5:00 PM					
Depth @ Time of Sample (ft)		4,313		4,313					
MudWt [ppg] Unwt'd		8.5		8.5					
Funnel Viscosity (sec/qt)		52		50					
Plastic Vis. (cp) @	120 (°F)	11		12					
Yield Point (lbf/100ft²)		14		15					
Gel Strength (10s/10m) (lbf/100ft²)		12	12	10	12				
Gel Strength (lbf/100ft²) @	30 min	16		15					
API Filtrate (mL/30 min)		10.0		10.0					
HPHT Filtrate (mL) @	250 (°F)								
Cake (1/32 in) (API/HPHT)		2		2					
Water (% by vol)		94.0		94.0					
Other Fluid (% by vol)	SG 1.20								
Non-Aq (% by vol)	SG 0.84								
Solids (% by vol)		6		6					
Sand (% by vol)		0.8		0.8					
MBT Cap (Bent Equiv.)(lb/bbl)		22.5		22.5					
pH @	120 (°F)	8.5		8.5					
Pm (Mud Alkalinity)(mL)		0.5		0.5					
Pf/Mf (Filtrate Alkalinity)(mL)		0.1	0.4	0.1	0.4				
Chlorides (mg/L)		120		120					
Hardness (mg/L as Calcium)		80		80					
LGS (% by vol)	SG 2.60	1.2		1.2					
LGS(lb/bbl)		10.884		10.884					
HGS (% by vol)	SG 4.20								
HGS (lb/bbl)									
Corrected Solids (% by vol)		1.2		1.2					

Hydraulics (ft/min)

Annular Interval	Ann. Vel.	Crit. Vel.
OH:DC	59.37	334.26
OH:Bit & Motor	64.32	338.10

Operating Data

Avg ROP(ft/hr)	
WOB (Klbs)	
Rotating Weight	
Rotatary Speed	
Rotating Hrs.	
Sliding Hrs.	
Non-Drlg Hrs.	
P/U (lbs)	
S/O (lbs)	
Torque (lbf-ft)	
Angle	
Azimuth	
Surv. Depth(ft)	

Viscometer Rdgs

600	36
300	25
200	20
100	15
6	12
3	12

Solids Control Equipment

Shaker	Screens		Hrs	U/F	O/F
1	84/84/84/84	De-Sander			
2	84/84/84/84	De-Silter			
3		Centrifuge	24.0	8.4	8.5
4		Centrifuge	24.0	8.4	8.5
M/C			24.0	8.4	8.5

Active Products

Materials	Initial	Rec'd	Used	Balance	Cost (US$)
Bulk Tank (50 ton \ ea)	130	0	2	128	100.00
Bulk Tanks Blower (1 \ ea)	64	0	2	62	70.00
DynaDet (5 gal \ pail)	40	0	1	39	52.00
Engineering (24 hr) (1 \ ea)	0	0	1	0	500.00
New Bar (Ton \ bulk)	52.86	0	4.8	48.06	571.20
New Carb Med (50 # \ sk)	224	0	7	217	77.00
NewGel (100 \ sx)	49	0	10	39	50.00
OBM Lab (1 \ ea)	72	0	1	71	55.00
Soda Ash (50 # \ sk)	78	0	1	77	28.75

Treatment Recommendations

Last 24 hrs: Continued to pump 10 bbl, 20 ppb hi-vis, LCM sweeps every 10 ft. Added water, Gel, Caustic sto active system as needed to maintain mud within prescribed parameters.
Next 24 hrs: When back on bottom, will continue to pump sweeps. Will continue with same treatment to active system.

Comments/Remarks

Drilled ahead to 4,313 ft. Pumped slug and POOH to change motors. Picked up new BHA and TIH.

Daily Tax (US$)	Trucking (US$)	Daily Cost (US$)	1,564.19
60.24	0.00	Cumulative Cost (US$)	140,043.24

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Newpark Drilling Fluids, L.L.C. — **Mud Report**

Jerry Ard	Evanston WY	
Tel:	Tel:	Tel:
Mbl: (985) 688-1226	Tel:	Tel:
Pgr:	Fax:	Fax:

MudPIT™

Date	10/08/2010	MD (ft)	4,329
Report #	17	TVD (ft)	4,326
Spud Date	09/22/2010	Bit MD (ft)	4,326
API Well #	4302330021	Bit TVD (ft)	4,326
Present Activity		Drilling Ahead	

Operator:	**PIONEER NATURAL RESOURCES**	**Contractor:**	**Nabors 169**
Report For:	**Clifton Everett/Billy Vigil**	**Report For:**	**Rod Flynn**

Well Name / No.	Field / Block	Sur - Abs or Sec-T-R	County / Parish	State / Province	Country
SOUTH HILLS FEDERAL # 6-1			JUAB COUNTY	UTAH	USA

Drill String	OD(in)	ID(in)	Length(ft)
Bit & Motor	9.5	3.5	36.4
DC	8.0	2.825	232.53
DC	6.5	2.875	190.52
HWDP	5.0	3	831.27
DP	5.0	4.28	3035.28

Pump and Circulating Data (check box for Riser Boost)

Pump #	1 ☐	2 ☐	3 ☐	Stand Pipe (psi)		2,285
Liner (in)	6.5	6.5	0.0	Calc P.Loss (psi)		1,113
Stroke (in)	10.0	10.0	0.0	ECD (ppg)		8.57
stk/min	190	0	0	Pump # 1	Min	Stks
Efficiency (%)	95	95	95	Surf-Bit	4	667
(bbl/stk)	0.097	0.097	0.000	Bott's Up	85	16,237
(gpm)	778	0	0	Surf-Surf	89	16,904
Total (gpm)		778		Tot. Circ.	129	24,547

Bit Data		Leak Off Test(ppg)	0	Active Volume (bbl)		Storage Volume(bbl)		Volume Reconciliation (bbl)			
Bit Size (in)	17.5	TFA (in²)	1.374	Annulus:	1,583	10 ppg	235	Starting Volume	2391	Total Additions:	31
% Washout	15	Noz-Vel (ft/se)	181.09	Drill String:	65	Storage 2		Water Additions	31	Hole Losses	24
Bit Type:	SDSi716	Imp-Frc (psi)	620	Pits:	745	Storage 3		Oil Additions		SCE Losses	5
Bit #:	9	PSI Loss (psi)	250.16	Slug Pit:	0	Storage 4		Chemical Additions:		Other Losses	
(1/32 in)	16 16 16 16	HSI (hp/in²)	0.471	Total Circulating Volume		Total Storage Volume		Barite Additions:		Total Losses	29
16 16 16		Sys HHP (hp)	1036.9	2,393		235		Whole Mud Add:		Mud to Storage:	
		Sys HHP %	10.948	Volume Below Bit		1		Other Additions		Ending Volume:	2393

Fluid Type	Water-based	Fluid Properties			
Sample Temperature (°F)		Pit 82.0	Pit 84.0		
Time Sample Taken:		3:00 AM	4:00 PM		
Depth @ Time of Sample (ft)		4,326	4,292		
MudWt [ppg] Unwt'd		8.5	8.5		
Funnel Viscosity (sec/qt)		54	48		
Plastic Vis. (cp) @ 120 (°F)		10	12		
Yield Point (lbf/100ft²)		16	15		
Gel Strength (10s/10m) (lbf/100ft²)		10 12	8 9		
Gel Strength (lbf/100ft²) @ 30 min		14	12		
API Filtrate (mL/30 min)		9.0	10.0		
HPHT Filtrate (mL) @ 250 (°F)					
Cake (1/32 in) (API/HPHT)		2	2		
Water (% by vol)		94.0	94.0		
Other Fluid (% by vol)	SG 1.20				
Non-Aq (% by vol)	SG 0.84				
Solids (% by vol)		6	6		
Sand (% by vol)		0.7	0.08		
MBT Cap (Bent Equiv.)(lb/bbl)		22.5	22.0		
pH @ 120 (°F)		8.5	9.0		
Pm (Mud Alkalinity)(mL)		0.5	0.6		
Pf/Mf (Filtrate Alkalinity)(mL)		0.2 0.3	0.1 0.4		
Chlorides (mg/L)		120	120		
Hardness (mg/L as Calcium)		80	80		
LGS (% by vol)	SG 2.60	1.2	1.2		
LGS(lb/bbl)		10.884	10.884		
HGS (% by vol)	SG 4.20				
HGS (lb/bbl)					
Corrected Solids (% by vol)		1.2	1.2		
FL Temp (F)		109.7	121.2		

Hydraulics (ft/min)

Annular Interval	Ann. Vel.	Crit. Vel.
OH:DP	50.11	331.20
OH:HWDP	50.11	331.20
OH:DC	52.49	334.38
OH:DC	55.84	337.98
OH:Bit & Motor	60.50	342.09

Operating Data

Avg ROP(ft/hr)	
WOB (Klbs)	
Rotating Weight	
Rotatary Speed	
Rotating Hrs.	
Sliding Hrs.	
Non-Drlg Hrs.	
P/U (lbs)	
S/O (lbs)	
Torque (lbf-ft)	
Angle	
Azimuth	
Surv. Depth(ft)	

Viscometer Rdgs		Solids Control Equipment					
600	36	Shaker	Screens		Hrs	U/F	O/F
300	26	1	84/84/84/84	De-Sander			
200	20	2	84/84/84/84	De-Silter			
100	15	3		Centrifuge	24.0	8.4	8.5
6	10	4		Centrifuge	24.0	8.4	8.5
3	12	M/C			24.0	8.4	8.5

Active Products

Materials	Initial	Rec'd	Used	Balance	Cost (US$)
Bulk Tank (50 ton \ ea)	128	0	2	126	100.00
Bulk Tanks Blower (1 \ ea)	62	0	2	60	70.00
Caustic Soda (50 lb \ sk)	32	0	2	30	55.20
DESCO CF (25 lb \ sk)	62	0	2	60	104.00
Dyna Fiber Cor (25 # \ sk)	250	0	4	246	79.20
Engineering (24 hr) (1 \ ea)	0	0	1	0	500.00
New Carb Med (50 # \ sk)	217	0	21	196	231.00
NewPHPA (5 Gal \ Pail)	49	0	1	48	80.00
OBM Lab (1 \ ea)	71	0	1	70	55.00
Soda Ash (50 # \ sk)	77	0	1	76	28.75
Walnut Shell M (50 lb \ sk)	364	0	7	357	161.00

Treatment Recommendations

Last 24 hrs: Pumped 15-20 bbl low vis sweeps consisting of water and Walnut Nut Plug as ordered by the DD. Added water, Gel and Caustic to the active system as needed. Pumped a 20 bbl caustic sweep as directed from town.
Next 24 hrs: Will continue to pump low vis sweeps as needed. Will continue with same treatment to active system.

Comments/Remarks

Completed TIH. Drilled ahead. Had to stop drilling several times due to pump problems. Drilled to 4,326 ft at report time.

Daily Tax (US$)	Trucking (US$)	Daily Cost (US$)	1,522.00
57.85	0.00	Cumulative Cost (US$)	141,565.24

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Newpark Drilling Fluids, L.L.C. — **Mud Report**

Jerry Ard	Evanston WY	
Tel:	Tel:	Tel:
Mbl: (985) 688-1226	Tel:	Tel:
Pgr:	Fax:	Fax:

MudPIT™

Date	10/09/2010	MD (ft)	4,345
Report #	18	TVD (ft)	4,345
Spud Date	09/22/2010	Bit MD (ft)	0
API Well #	4302330021	Bit TVD (ft)	0
Present Activity		Running Casing	

Operator:	**PIONEER NATURAL RESOURCES**	**Contractor:**	**Nabors 169**
Report For:	**Clifton Everett/Billy Vigil**	**Report For:**	**Rod Flynn**

Well Name / No.	Field / Block	Sur - Abs or Sec-T-R	County / Parish	State / Province	Country
SOUTH HILLS FEDERAL # 6-1			JUAB COUNTY	UTAH	USA

Pump and Circulating Data (check box for Riser Boost)

Pump #	1 ☐	2 ☐	3 ☐	Stand Pipe (psi)		0
Liner (in)	6.5	6.5	0.0	Calc P.Loss (psi)		0
Stroke (in)	10.0	10.0	0.0	ECD (ppg)		8.50
stk/min	0	0	0	Pump # 1	Min	Stks
Efficiency (%)	95	95	95	Surf-Bit	0	0
(bbl/stk)	0.097	0.097	0.000	Bott's Up	0	0
(gpm)	0	0	0	Surf-Surf	0	0
Total (gpm)		0		Tot. Circ.	0	0

Bit Data		Leak Off Test(ppg)	0	Active Volume (bbl)		Storage Volume(bbl)		Volume Reconciliation (bbl)			
Bit Size (in)	17.5	TFA (in²)		Annulus:	0	10 ppg	235	Starting Volume	2393	Total Additions:	0
% Washout	0	Noz-Vel (ft/se)		Drill String:	0	Storage 2		Water Additions		Hole Losses	
Bit Type:		Imp-Frc (psi)		Pits:	494	Storage 3		Oil Additions		SCE Losses	
Bit #:	0	PSI Loss (psi)		Slug Pit:	0	Storage 4		Chemical Additions:		Other Losses	
(1/32 in)		HSI (hp/in²)		Total Circulating Volume		Total Storage Volume		Barite Additions:		Total Losses	
		Sys HHP (hp)		494		235		Whole Mud Add:		Mud to Storage:	
		Sys HHP %		Volume Below Bit		0		Other Additions		Ending Volume:	2393

Fluid Type	Water-based	Fluid Properties			
Sample Temperature (°F)		Pit 70.0	Pit 80.0		
Time Sample Taken:		3:00 AM	4:00 PM		
Depth @ Time of Sample (ft)		4,345	4,345		
MudWt [ppg] Unwt'd		8.5	8.5		
Funnel Viscosity (sec/qt)		51	50		
Plastic Vis. (cp) @ 120 (°F)		11	10		
Yield Point (lbf/100ft²)		15	15		
Gel Strength (10s/10m) (lbf/100ft²)		11 / 10	9 / 11		
Gel Strength (lbf/100ft²) @ 30 min		13	14		
API Filtrate (mL/30 min)		9.0	9.0		
HPHT Filtrate (mL) @ 250 (°F)					
Cake (1/32 in) (API/HPHT)		2	2		
Water (% by vol)		94.0	94.0		
Other Fluid (% by vol)	SG 1.20				
Non-Aq (% by vol)	SG 0.84				
Solids (% by vol)		6	6		
Sand (% by vol)		0.7	0.7		
MBT Cap (Bent Equiv.)(lb/bbl)		22.5	22.5		
pH @ 120 (°F)		8.5	8.5		
Pm (Mud Alkalinity)(mL)		0.4	0.5		
Pf/Mf (Filtrate Alkalinity)(mL)		0.1 / 0.3	0.1 / 0.4		
Chlorides (mg/L)		120	120		
Hardness (mg/L as Calcium)		80	80		
LGS (% by vol)	SG 2.60	1.2	1.2		
LGS(lb/bbl)		10.884	10.884		
HGS (% by vol)	SG 4.20				
HGS (lb/bbl)					
Corrected Solids (% by vol)		1.2	1.2		
FL Temp (F)			114.6		

Hydraulics (ft/min)

Operating Data	
Avg ROP(ft/hr)	
WOB (Klbs)	
Rotating Weight	
Rotatary Speed	
Rotating Hrs.	
Sliding Hrs.	
Non-Drlg Hrs.	
P/U (lbs)	
S/O (lbs)	
Torque (lbf-ft)	
Angle	
Azimuth	
Surv. Depth(ft)	

Viscometer Rdgs		Solids Control Equipment					
600	37	Shaker	Screens		Hrs	U/F	O/F
300	26	1	84/84/84/84	De-Sander			
200	21	2	84/84/84/84	De-Silter			
100	16	3		Centrifuge	18.0	8.4	8.5
6	11	4		Centrifuge	18.0	8.4	8.5
3	10	M/C			18.0	8.4	8.5

Active Products

Materials	Initial	Rec'd	Used	Balance	Cost (US$)
Bulk Tank (50 ton \ ea)	126	0	2	124	100.00
Bulk Tanks Blower (1 \ ea)	60	0	2	58	70.00
DESCO CF (25 lb \ sk)	60	0	2	58	104.00
Engineering (24 hr) (1 \ ea)	0	0	1	0	500.00
New Bar (Sack) (100 lb \ sk)	313	0	73	240	608.82
NewGel (100 \ sx)	39	0	19	20	95.00
NewPHPA (5 Gal \ Pail)	48	0	3	45	240.00
NoFoam X (5 gal \ Bucket)	60	0	3	57	861.00
OBM Lab (1 \ ea)	70	0	1	69	55.00
Walnut Shell M (50 lb \ sk)	357	0	92	265	2,116.00

Treatment Recommendations

Last 24 hrs: Pumped low-vis sweeps consisting of water and Walnut Nut Plug as needed.
Added Caustic, Gel and New PHPA as needed to maintain mud properties.
Next 24 hrs: No treatment is planned.

Comments/Remarks

Drilled ahead to 4,345 ft (surface hole TD). Spotted 150 bbl hi-vis pill on bottom. Pumped slug and POOH to run surface casing. Running 13 3/8 in casing at report time

Daily Tax (US$)	Trucking (US$)	Daily Cost (US$)	5,004.81
254.99	0.00	Cumulative Cost (US$)	146,570.05

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Newpark Drilling Fluids, L.L.C. — **Mud Report**

Jerry Ard	Evanston WY	
Tel:	Tel:	Tel:
Mbl: (985) 688-1226	Tel:	Tel:
Pgr:	Fax:	Fax:

MudPIT™

Date	10/10/2010	MD (ft)	4,340
Report #	19	TVD (ft)	4,340
Spud Date	09/22/2010	Bit MD (ft)	0
API Well #	4302330021	Bit TVD (ft)	0
Present Activity		Cementing	

Operator:	**PIONEER NATURAL RESOURCES**	**Contractor:**	**Nabors 169**
Report For:	**Clifton Everett/Billy Vigil**	**Report For:**	**Rod Flynn**

Well Name / No.	Field / Block	Sur - Abs or Sec-T-R	County / Parish	State / Province	Country
SOUTH HILLS FEDERAL # 6-1			JUAB COUNTY	UTAH	USA

Casing	OD(in)	ID(in)	Top(ft)	Bottom(ft)
Surface Casing	13.375	12.41	0.0	4340

Pump and Circulating Data (check box for Riser Boost)

Pump #	1 ☐	2 ☐	3 ☐	Stand Pipe (psi)		0
Liner (in)	6.5	6.5	0.0	Calc P.Loss (psi)		0
Stroke (in)	10.0	10.0	0.0	ECD (ppg)		8.60
stk/min	0	0	0	Pump # 1	Min	Stks
Efficiency (%)	95	95	95	Surf-Bit	0	0
(bbl/stk)	0.097	0.097	0.000	Bott's Up	0	0
(gpm)	0	0	0	Surf-Surf	0	0
Total (gpm)		0		Tot. Circ.	0	0

Bit Data		Leak Off Test(ppg)	0
Bit Size (in)	12.42	TFA (in²)	
% Washout	0	Noz-Vel (ft/se)	
Bit Type:		Imp-Frc (psi)	
Bit #:	0	PSI Loss (psi)	
(1/32 in)		HSI (hp/in²)	
		Sys HHP (hp)	
		Sys HHP %	

Active Volume (bbl)		Storage Volume(bbl)		Volume Reconciliation (bbl)			
Annulus:	0	10 ppg	235	Starting Volume	2393	Total Additions:	500
Drill String:	0	Storage 2		Water Additions	500	Hole Losses	400
Pits:	632	Storage 3		Oil Additions		SCE Losses	
Slug Pit:	0	Storage 4		Chemical Additions:		Other Losses	1861
Total Circulating Volume		Total Storage Volume		Barite Additions:		Total Losses	2261
632		235		Whole Mud Add:		Mud to Storage:	
Volume Below Bit		0		Other Additions		Ending Volume:	632

Fluid Type	Water-based	Fluid Properties			
Sample Temperature (°F)		Pit 66.0	Pit 78.0		
Time Sample Taken:		3:00 AM	4:00 PM		
Depth @ Time of Sample (ft)		4,345	4,345		
MudWt [ppg] Unwt'd		8.6	8.6		
Funnel Viscosity (sec/qt)		35	50		
Plastic Vis. (cp) @ 120 (°F)		6	11		
Yield Point (lbf/100ft²)		9	15		
Gel Strength (10s/10m) (lbf/100ft²)		2 1	9 9		
Gel Strength (lbf/100ft²) @ 30 min		1	14		
API Filtrate (mL/30 min)		26.0	10.0		
HPHT Filtrate (mL) @ 250 (°F)					
Cake (1/32 in) (API/HPHT)		3	2		
Water (% by vol)		97.0	94.0		
Other Fluid (% by vol)	SG 1.20				
Non-Aq (% by vol)	SG 0.84				
Solids (% by vol)		3	6		
Sand (% by vol)		0.5	0.7		
MBT Cap (Bent Equiv.)(lb/bbl)		12.0	22.0		
pH @ 120 (°F)		7.5	8.5		
Pm (Mud Alkalinity)(mL)			0.4		
Pf/Mf (Filtrate Alkalinity)(mL)			0.05 0.3		
Chlorides (mg/L)		120	120		
Hardness (mg/L as Calcium)			80		
LGS (% by vol)	SG 2.60	2.0	2.0		
LGS(lb/bbl)		18.14	18.14		
HGS (% by vol)	SG 4.20				
HGS (lb/bbl)					
Corrected Solids (% by vol)		2	2		

Hydraulics (ft/min)

Operating Data	
Avg ROP(ft/hr)	
WOB (Klbs)	
Rotating Weight	
Rotatary Speed	
Rotating Hrs.	
Sliding Hrs.	
Non-Drlg Hrs.	
P/U (lbs)	
S/O (lbs)	
Torque (lbf-ft)	
Angle	
Azimuth	
Surv. Depth(ft)	

Viscometer Rdgs		Solids Control Equipment					
600	21	Shaker	Screens		Hrs	U/F	O/F
300	15	1	84/84/84/84	De-Sander			
200	10	2	84/84/84/84	De-Silter			
100	6	3		Centrifuge			
6	2	4		Centrifuge			
3	1	M/C					

Active Products

Materials	Initial	Rec'd	Used	Balance	Cost (US$)
Bulk Tank (50 ton \ ea)	124	0	2	122	100.00
Bulk Tanks Blower (1 \ ea)	58	0	2	56	70.00
Engineering (24 hr) (1 \ ea)	0	0	1	0	500.00
OBM Lab (1 \ ea)	69	0	1	68	55.00

Treatment Recommendations

Last 24 hrs: No treatment other than to add water to the pits.
Next 24 hrs: Will dump and clean pits and prepare to take on OBM.

Comments/Remarks

Completed running 13 3/8 in casing. Rigged up to cement then cemented casing. Took several heavy downhole losses during casing run and had to add water to the pits. Still cementing at report time.

Daily Tax (US$)	Trucking (US$)	Daily Cost (US$)	738.50
13.50	0.00	Cumulative Cost (US$)	147,308.55

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Newpark Drilling Fluids, L.L.C. | **Mud Report**

Jerry Ard	Evanston WY	
Tel:	Tel:	Tel:
Mbl: (985) 688-1226	Tel:	Tel:
Pgr:	Fax:	Fax:

MudPIT$_{TM}$

Date	10/11/2010	MD (ft)	4,340
Report #	20	TVD (ft)	4,340
Spud Date	09/22/2010	Bit MD (ft)	0
API Well #	4302330021	Bit TVD (ft)	0
Present Activity		Rigging Up For Next Interval	

Operator:	**PIONEER NATURAL RESOURCES**	**Contractor:**	**Nabors 169**
Report For:	**Clifton Everett/Billy Vigil**	**Report For:**	**Rod Flynn**

Well Name / No.	Field / Block	Sur - Abs or Sec-T-R	County / Parish	State / Province	Country
SOUTH HILLS FEDERAL # 6-1			JUAB COUNTY	UTAH	USA

Casing	OD(in)	ID(in)	Top(ft)	Bottom(ft)
Surface Casing	13.375	12.41	0.0	4340

Pump and Circulating Data (check box for Riser Boost)

Pump #	1 ☐	2 ☐	3 ☐	Stand Pipe (psi)		0
Liner (in)	6.5	6.5	0.0	Calc P.Loss (psi)		0
Stroke (in)	10.0	10.0	0.0	ECD (ppg)		0.00
stk/min	0	0	0	Pump # 1	Min	Stks
Efficiency (%)	95	95	95	Surf-Bit	0	0
(bbl/stk)	0.097	0.097	0.000	Bott's Up	0	0
(gpm)	0	0	0	Surf-Surf	0	0
Total (gpm)		0		Tot. Circ.	0	0

Bit Data		Leak Off Test(ppg)	0
Bit Size (in)	12.42	TFA (in²)	
% Washout	0	Noz-Vel (ft/se)	
Bit Type:		Imp-Frc (psi)	
Bit #:	0	PSI Loss (psi)	
(1/32 in)		HSI (hp/in²)	
		Sys HHP (hp)	
		Sys HHP %	

Active Volume (bbl)		Storage Volume(bbl)		Volume Reconciliation (bbl)			
Annulus:	0	10 ppg	235	Starting Volume	632	Total Additions:	0
Drill String:	0	Storage 2		Water Additions		Hole Losses	
Pits:	632	Storage 3		Oil Additions		SCE Losses	
Slug Pit:	0	Storage 4		Chemical Additions:		Other Losses	
Total Circulating Volume		Total Storage Volume		Barite Additions:		Total Losses	
632		235		Whole Mud Add:		Mud to Storage:	
Volume Below Bit		0		Other Additions		Ending Volume:	632

Hydraulics (ft/min)	Operating Data	
	Avg ROP(ft/hr)	
	WOB (Klbs)	
	Rotating Weight	
	Rotatary Speed	
	Rotating Hrs.	
	Sliding Hrs.	
	Non-Drlg Hrs.	
	P/U (lbs)	
	S/O (lbs)	
	Torque (lbf-ft)	
	Angle	
	Azimuth	
	Surv. Depth(ft)	

Viscometer Rdgs		Solids Control Equipment					
600	0	Shaker	Screens		Hrs	U/F	O/F
300	0	1	84/84/84/84	De-Sander			
200	0	2	84/84/84/84	De-Silter			
100	0	3		Centrifuge			
6	0	4		Centrifuge			
3	0	M/C					

Active Products

Materials	Initial	Rec'd	Used	Balance	Cost (US$)
Bulk Tank (50 ton \ ea)	122	0	2	120	100.00
Bulk Tanks Blower (1 \ ea)	56	0	2	54	70.00
Engineering (24 hr) (1 \ ea)	0	0	1	0	500.00
OBM Lab (1 \ ea)	68	0	1	67	55.00

Treatment Recommendations

No Treatment. Still need to empty and clean pits. Arrangements have been made to truck in OBM.

Comments/Remarks

Completed cementing then performed top job. Rigging up to receive OBM. Nippling up BOPE. Rigging up for next interval.

Daily Tax (US$)	Trucking (US$)	Daily Cost (US$)	738.50
13.50	0.00	Cumulative Cost (US$)	148,047.05

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Newpark Drilling Fluids, L.L.C. **Mud Report**

Jerry Ard	**Evanston WY**	
Tel:	Tel:	Tel:
Mbl: (985) 688-1226	Tel:	Tel:
Pgr:	Fax:	Fax:

MudPIT $_{TM}$

Date	10/12/2010	MD (ft)	4,340
Report #	21	TVD (ft)	4,340
Spud Date	09/22/2010	Bit MD (ft)	0
API Well #	4302330021	Bit TVD (ft)	0
Present Activity		Testing BOPE	

Operator:	**PIONEER NATURAL RESOURCES**	**Contractor:**	**Nabors 169**
Report For:	**Clifton Everett/Billy Vigil**	**Report For:**	**Rod Flynn**

Well Name / No.	Field / Block	Sur - Abs or Sec-T-R	County / Parish	State / Province	Country
SOUTH HILLS FEDERAL # 6-1			JUAB COUNTY	UTAH	USA

Casing	OD(in)	ID(in)	Top(ft)	Bottom(ft)
Surface Casing	13.375	12.41	0.0	4340

Pump and Circulating Data (check box for Riser Boost)

Pump #	1 ☐	2 ☐	3 ☐	Stand Pipe (psi)		0
Liner (in)	6.5	6.5	0.0	Calc P.Loss (psi)		0
Stroke (in)	10.0	10.0	0.0	ECD (ppg)		0.00
stk/min	0	0	0	Pump # 1	Min	Stks
Efficiency (%)	95	95	95	Surf-Bit	0	0
(bbl/stk)	0.097	0.097	0.000	Bott's Up	0	0
(gpm)	0	0	0	Surf-Surf	0	0
Total (gpm)		0		Tot. Circ.	0	0

Bit Data		Leak Off Test(ppg)	0
Bit Size (in)	12.42	TFA (in²)	
% Washout	0	Noz-Vel (ft/se)	
Bit Type:		Imp-Frc (psi)	
Bit #:	0	PSI Loss (psi)	
(1/32 in)		HSI (hp/in²)	
		Sys HHP (hp)	
		Sys HHP %	

Active Volume (bbl)		Storage Volume(bbl)	
Annulus:	0	10 ppg	235
Drill String:	0	Storage 2	
Pits:	0	Storage 3	
Slug Pit:	0	Storage 4	
Total Circulating Volume		Total Storage Volume	
0		235	
Volume Below Bit		0	

Volume Reconciliation (bbl)			
Starting Volume	632	Total Additions:	0
Water Additions		Hole Losses	
Oil Additions		SCE Losses	
Chemical Additions:		Other Losses	
Barite Additions:		Total Losses	
Whole Mud Add:		Mud to Storage:	
Other Additions		Ending Volume:	632

Hydraulics (ft/min)	Operating Data	
	Avg ROP(ft/hr)	
	WOB (Klbs)	
	Rotating Weight	
	Rotatary Speed	
	Rotating Hrs.	
	Sliding Hrs.	
	Non-Drlg Hrs.	
	P/U (lbs)	
	S/O (lbs)	
	Torque (lbf-ft)	
	Angle	
	Azimuth	
	Surv. Depth(ft)	

Viscometer Rdgs		Solids Control Equipment					
600	0	Shaker	Screens		Hrs	U/F	O/F
300	0	1	84/84/84/84	De-Sander			
200	0	2	84/84/84/84	De-Silter			
100	0	3		Centrifuge			
6	0	4		Centrifuge			
3	0	M/C					

Active Products

Materials	Initial	Rec'd	Used	Balance	Cost (US$)
Bulk Tank (50 ton \ ea)	120	0	2	118	100.00
Bulk Tanks Blower (1 \ ea)	54	0	2	52	70.00
Engineering (24 hr) (1 \ ea)	0	0	1	0	500.00
OBM Lab (1 \ ea)	67	0	1	66	55.00

Treatment Recommendations

No Treatment

Comments/Remarks

Completed nippling up. Testing BOPE. Continuing to rig up for next interval.

Daily Tax (US$)	Trucking (US$)	Daily Cost (US$)	738.50
13.50	0.00	Cumulative Cost (US$)	148,785.55

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Newpark Drilling Fluids, L.L.C. — **Mud Report**

Jerry Ard	Evanston WY	
Tel:	Tel:	Tel:
Mbl: (985) 688-1226	Tel:	Tel:
Pgr:	Fax:	Fax:

MudPIT™

Date	10/13/2010	MD (ft)	4,340
Report #	22	TVD (ft)	4,340
Spud Date	09/22/2010	Bit MD (ft)	2,100
API Well #	4302330021	Bit TVD (ft)	2,100
Present Activity		TIH	

Operator:	**PIONEER NATURAL RESOURCES**	**Contractor:**	**Nabors 169**
Report For:	**Dean Baker/Billy Vigil**	**Report For:**	**Coby Huffer**

Well Name / No.	Field / Block	Sur - Abs or Sec-T-R	County / Parish	State / Province	Country
SOUTH HILLS FEDERAL # 6-1			JUAB COUNTY	UTAH	USA

Drill String	OD(in)	ID(in)	Length(ft)
MILL & Junk	8.0	2.812	14.93
DC	8.0	2.875	181.85
DC	6.5	2.875	190.52
HWDP	5.0	3	831.27
DP	5.0	4.28	881.43

Casing	OD(in)	ID(in)	Top(ft)	Bottom(ft)
Surface Casing	13.375	12.41	0.0	4340

Pump and Circulating Data (check box for Riser Boost)

Pump #	1 ☐	2 ☐	3 ☐	Stand Pipe (psi)		0
Liner (in)	6.5	6.5	0.0	Calc P.Loss (psi)		0
Stroke (in)	10.0	10.0	0.0	ECD (ppg)		8.60
stk/min	0	0	0	Pump # 1	Min	Stks
Efficiency (%)	95	95	95	Surf-Bit	0	0
(bbl/stk)	0.097	0.097	0.000	Bott's Up	0	0
(gpm)	0	0	0	Surf-Surf	0	0
Total (gpm)		0		Tot. Circ.	0	0

Bit Data

Bit Size (in)	12.25				
% Washout	0				
Bit Type:	FDS+C				
Bit #:	10				
(1/32 in)	22	22	22	22	

Leak Off Test(ppg)	0
TFA (in²)	1.485
Noz-Vel (ft/se)	
Imp-Frc (psi)	
PSI Loss (psi)	
HSI (hp/in²)	
Sys HHP (hp)	
Sys HHP %	

Active Volume (bbl)	
Annulus:	253
Drill String:	26
Pits:	632
Slug Pit:	0
Total Circulating Volume	911
Volume Below Bit	335

Storage Volume(bbl)	
10 ppg	
Storage 2	
Storage 3	
Storage 4	
Total Storage Volume	0

Volume Reconciliation (bbl)	
Starting Volume	632
Water Additions	
Oil Additions	
Chemical Additions:	
Barite Additions:	
Whole Mud Add:	
Other Additions	

Total Additions:	0
Hole Losses	
SCE Losses	
Other Losses	
Total Losses	
Mud to Storage:	
Ending Volume:	632

Fluid Type	Water-based
Sample Temperature (°F)	Pit 72.0
Time Sample Taken:	3:00 AM
Depth @ Time of Sample (ft)	4,340
MudWt [ppg] Unwt'd	8.6
Funnel Viscosity (sec/qt)	36
Plastic Vis. (cp) @ 120 (°F)	5
Yield Point (lbf/100ft²)	13
Gel Strength (10s/10m) (lbf/100ft²)	6 / 5
Gel Strength (lbf/100ft²) @ 30 min	7
API Filtrate (mL/30 min)	12.0
HPHT Filtrate (mL) @ 250 (°F)	
Cake (1/32 in) (API/HPHT)	2
Water (% by vol)	94.0
Other Fluid (% by vol) SG 1.20	
Non-Aq (% by vol) SG 0.84	
Solids (% by vol)	6
Sand (% by vol)	0.7
MBT Cap (Bent Equiv.)(lb/bbl)	20.5
pH @ 120 (°F)	8.5
Pm (Mud Alkalinity)(mL)	0.3
Pf/Mf (Filtrate Alkalinity)(mL)	0.2
Chlorides (mg/L)	120
Hardness (mg/L as Calcium)	60
LGS (% by vol) SG 2.60	2.0
LGS(lb/bbl)	18.14
HGS (% by vol) SG 4.20	
HGS (lb/bbl)	
Corrected Solids (% by vol)	2

Hydraulics (ft/min)

Annular Interval	Ann. Vel.	Crit. Vel.
Surface Casing:DP	0.00	252.08
Surface Casing:HWDP	0.00	252.08
Surface Casing:DC	0.00	261.45
Surface Casing:DC	0.00	274.10
Surface Casing:MILL &	0.00	274.10

Operating Data

Avg ROP(ft/hr)	
WOB (Klbs)	
Rotating Weight	
Rotatary Speed	
Rotating Hrs.	
Sliding Hrs.	
Non-Drlg Hrs.	
P/U (lbs)	
S/O (lbs)	
Torque (lbf-ft)	
Angle	
Azimuth	
Surv. Depth(ft)	

Viscometer Rdgs	
600	23
300	18
200	14
100	12
6	6
3	5

Solids Control Equipment

Shaker	Screens		Hrs	U/F	O/F
1	84/84/84/84	De-Sander			
2	84/84/84/84	De-Silter			
3		Centrifuge			
4		Centrifuge			
M/C					

Active Products

Materials	Initial	Rec'd	Used	Balance	Cost (US$)
Bulk Tank (50 ton \ ea)	118	0	2	116	100.00
Bulk Tanks Blower (1 \ ea)	52	0	2	50	70.00
Engineering (24 hr) (1 \ ea)	0	0	1	0	500.00
OBM Lab (1 \ ea)	66	0	1	65	55.00

Treatment Recommendations

Last 24 hrs: None
Next 24 hrs: Will add Gel and caustic. Will pump hi-vis sweeps as needed.

Comments/Remarks

Completed testing BOPE. Picked up 12 1/4 in STC Mill Tooth Bit and BHA and TIH to mill out junk.

Daily Tax (US$)	Trucking (US$)	Daily Cost (US$)	738.50
13.50	0.00	Cumulative Cost (US$)	149,524.05

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Newpark Drilling Fluids, L.L.C. **Mud Report**

Jerry Ard	Evanston WY	
Tel:	Tel:	Tel:
Mbl: (985) 688-1226	Tel:	Tel:
Pgr:	Fax:	Fax:

MudPIT$_{TM}$

Date	10/14/2010	MD (ft)	4,355
Report #	23	TVD (ft)	4,355
Spud Date	09/22/2010	Bit MD (ft)	0
API Well #	4302330021	Bit TVD (ft)	0
Present Activity		Preparing To TIH	

Operator:	**PIONEER NATURAL RESOURCES**	**Contractor:**	**Nabors 169**
Report For:	**Dean Baker/Billy Vigil**	**Report For:**	**Coby Huffer**

Well Name / No.	Field / Block	Sur - Abs or Sec-T-R	County / Parish	State / Province	Country
SOUTH HILLS FEDERAL # 6-1			JUAB COUNTY	UTAH	USA

Casing	OD(in)	ID(in)	Top(ft)	Bottom(ft)
Surface Casing	13.375	12.41	0.0	4340

Pump and Circulating Data (check box for Riser Boost)

Pump #	1 ☐	2 ☐	3 ☐	Stand Pipe (psi)		0
Liner (in)	6.5	6.5	0.0	Calc P.Loss (psi)		0
Stroke (in)	10.0	10.0	0.0	ECD (ppg)		0.00
stk/min	0	0	0	Pump # 1	Min	Stks
Efficiency (%)	95	95	95	Surf-Bit	0	0
(bbl/stk)	0.097	0.097	0.000	Bott's Up	0	0
(gpm)	0	0	0	Surf-Surf	0	0
Total (gpm)		0		Tot. Circ.	0	0

Bit Data		Leak Off Test(ppg)	0
Bit Size (in)	12.25	TFA (in²)	
% Washout	0	Noz-Vel (ft/se)	
Bit Type:		Imp-Frc (psi)	
Bit #:		PSI Loss (psi)	
(1/32 in)		HSI (hp/in²)	
		Sys HHP (hp)	
		Sys HHP %	

Active Volume (bbl)		Storage Volume(bbl)	
Annulus:	0	Storage 1	
Drill String:	0	Storage 2	
Pits:	528	Storage 3	
Slug Pit:	0	Storage 4	
Total Circulating Volume		Total Storage Volume	
528		0	
Volume Below Bit		0	

Volume Reconciliation (bbl)			
Starting Volume	632	Total Additions:	3
Water Additions		Hole Losses	
Oil Additions		SCE Losses	
Chemical Additions:		Other Losses	107
Barite Additions:	3	Total Losses	107
Whole Mud Add:		Mud to Storage:	
Other Additions		Ending Volume:	528

Hydraulics (ft/min)	Operating Data	
	Avg ROP(ft/hr)	
	WOB (Klbs)	
	Rotating Weight	
	Rotatary Speed	
	Rotating Hrs.	
	Sliding Hrs.	
	Non-Drlg Hrs.	
	P/U (lbs)	
	S/O (lbs)	
	Torque (lbf-ft)	
	Angle	
	Azimuth	
	Surv. Depth(ft)	

Viscometer Rdgs		Solids Control Equipment					
600	0	Shaker	Screens		Hrs	U/F	O/F
300	0	1	84/84/84/84	De-Sander			
200	0	2	84/84/84/84	De-Silter			
100	0	3		Centrifuge			
6	0	4		Centrifuge			
3	0	M/C					

Active Products

Materials	Initial	Rec'd	Used	Balance	Cost (US$)
Bulk Tank (50 ton \ ea)	116	0	2	114	100.00
Bulk Tanks Blower (1 \ ea)	50	0	2	48	70.00
Caustic Soda (50 lb \ sk)	30	0	1	29	27.60
Engineering (24 hr) (1 \ ea)	0	0	1	0	500.00
New Bar (Ton \ bulk)	48.06	46.19	1.85	92.4	220.15
NewGel (100 \ sx)	20	0	15	5	75.00
NewPHPA (5 Gal \ Pail)	45	0	2	43	160.00
OBM Lab (1 \ ea)	65	0	1	64	55.00

Treatment Recommendations

Last 24 hrs: Added Gel, caustic and New PHPA to active system. Used barite to build slug.
Next 24 hrs: No treatment. Will receive 1500 bbls of OBM.

Comments/Remarks

Drilled cement, shoe track and 15 ft of new formation. Performed F.I.T. to 17.0 ppg EMW. Pumped slug and POOH. Preparing to P/U new bit and BHA.

Daily Tax (US$)	Trucking (US$)	Daily Cost (US$)	1,250.21
42.46	0.00	Cumulative Cost (US$)	150,774.27

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Newpark Drilling Fluids, L.L.C. — **Mud Report**

Jerry Ard	**Evanston WY**	
Tel:	Tel:	Tel:
Mbl: (985) 688-1226	Tel:	Tel:
Pgr:	Fax:	Fax:

MudPIT $_{TM}$

Date	10/15/2010	MD (ft)	4,355
Report #	24	TVD (ft)	4,355
Spud Date	09/22/2010	Bit MD (ft)	4,314
API Well #	4302330021	Bit TVD (ft)	4,314
Present Activity		Preparing To TIH	

Operator:	**PIONEER NATURAL RESOURCES**	**Contractor:**	**Nabors 169**
Report For:	**Dean Baker/Billy Vigil**	**Report For:**	**Coby Huffer**

Well Name / No.	Field / Block	Sur - Abs or Sec-T-R	County / Parish	State / Province	Country
SOUTH HILLS FEDERAL # 6-1			JUAB COUNTY	UTAH	USA

Drill String	OD(in)	ID(in)	Length(ft)
BIT & MOTOR	9.5	3.5	38.42
DC	8.0	2.875	221.12
DC	6.5	2.875	283.19
HWDP	5.0	3	831.27
DP	5.0	4.28	2940

Casing	OD(in)	ID(in)	Top(ft)	Bottom(ft)
Surface Casing	13.375	12.41	0.0	4340

Pump and Circulating Data (check box for Riser Boost)

Pump #	1 ☐	2 ☐	3 ☐	Stand Pipe (psi)		0
Liner (in)	6.5	6.5	0.0	Calc P.Loss (psi)		0
Stroke (in)	10.0	10.0	0.0	ECD (ppg)		10.50
stk/min	0	0	0	Pump # 1	Min	Stks
Efficiency (%)	95	95	95	Surf-Bit	0	0
(bbl/stk)	0.097	0.097	0.000	Bott's Up	0	0
(gpm)	0	0	0	Surf-Surf	0	0
Total (gpm)		0		Tot. Circ.	0	0

Bit Data

Bit Size (in)	12.25					
% Washout	0					
Bit Type:	HCD505ZX					
Bit #:	11					
(1/32 in)	16	16	16	16		
16	16	16				

Leak Off Test(ppg)	0
TFA (in²)	1.374
Noz-Vel (ft/se)	
Imp-Frc (psi)	
PSI Loss (psi)	
HSI (hp/in²)	
Sys HHP (hp)	
Sys HHP %	

Active Volume (bbl)	
Annulus:	526
Drill String:	64
Pits:	0
Slug Pit:	0
Total Circulating Volume	590
Volume Below Bit	6

Storage Volume(bbl)	
Storage 1	1020
Storage 2	
Storage 3	
Storage 4	
Total Storage Volume	1,020

Volume Reconciliation (bbl)	
Starting Volume	528
Water Additions	68
Oil Additions	
Chemical Additions:	
Barite Additions:	
Whole Mud Add:	
Other Additions	

Total Additions:	68
Hole Losses	
SCE Losses	
Other Losses	
Total Losses	
Mud to Storage:	
Ending Volume:	596

Fluid Type	Oil-based	Fluid Properties
Sample From		Pit
Time Sample Taken		3:00 AM
Depth @ Time of Sample (ft)		4,355
Sample Temperature (°F)		67
Weight (ppg)		10.5
Funnel Viscosity (sec/qt)		42
Plastic Vis. (cp) @ 120 (°F)		12
Yield Point (lbf/100ft²)		10
Gel Strength (10s/10m) (lbf/100ft²)		9 / 8
Gel Strength (30 Min) (lbf/100ft²)		10
HPHT Filtrate @ 250 (°F)		
Cake (1/32 in)(API/HPHT)		
Diesel	SG= 0.70	69.0
Water (% by vol)		16.0
Solids (% by vol)		15.0
Electrical Stability (V)		333
Pom (Vsa)	cc's Sample 1.0	2.2
Vsn (0.282N)	cc's Sample 1.0	3.4
Lime Content (lb/bbl)		2.8
Clom (mg/L)		34,000
CaClom (mg/L)		53,210
CaClom (lb/bbl)		19
CaCl (ppm in water phase)		249,566
Oil/Water Ratio		81 / 19
Brine Density (S.G.)		1.23
LGS (% by vol)	SG= 2.60	0.5
LGS (lb/bbl)		4.849
HGS (% by vol)	SG= 4.20	13.1
HGS (lb/bbl)		192.165
Corrected Solids (% by vol)		14

Hydraulics (ft/min)

Annular Interval	Ann. Vel.	Crit. Vel.
Surface Casing:DP	0.00	271.51
Surface Casing:HWDP	0.00	271.51
Surface Casing:DC	0.00	279.18
Surface Casing:DC	0.00	289.44
Surface Casing:BIT &	0.00	304.66

Operating Data

Avg ROP(ft/hr)	
WOB (Klbs)	
Rotating Weight	
Rotatary Speed	
Rotating Hrs.	
Sliding Hrs.	
Non-Drlg Hrs.	
P/U (lbs)	
S/O (lbs)	
Torque (lbf-ft)	
Angle	
Azimuth	
Surv. Depth(ft)	

Viscometer Rdgs		Solids Control Equipment					
600	34	Shaker	Screens		Hrs	U/F	O/F
300	22	1	84/84/84/84	De-Sander			
200	14	2	84/84/84/84	De-Silter			
100	10	3		Centrifuge			
6	9	4		Centrifuge			
3	8	M/C					

Active Products

Materials	Initial	Rec'd	Used	Balance	Cost (US$)
Bulk Tank (50 ton \ ea)	114	0	2	112	100.00
Bulk Tanks Blower (1 \ ea)	48	0	2	46	70.00
Caustic Soda (50 lb \ sk)	29	27	0	56	0.00
DESCO CF (25 lb \ sk)	58	-67	-9	0	-468.00
DynaDet (5 gal \ pail)	39	-32	0	7	0.00
Engineering (24 hr) (1 \ ea)	0	0	1	0	500.00
NewGel (100 \ sx)	5	0	5	0	25.00
NewGel HY (50 # \ sk)	480	-480	0	0	0.00
NewPHPA (5 Gal \ Pail)	43	-32	0	11	0.00
NewPac R (50 lb \ sx)	20	-20	0	0	0.00
NewZan D (25 lb \ sx)	38	-38	0	0	0.00
NoFoam X (5 gal \ Bucket)	57	-45	0	12	0.00
OBM Lab (1 \ ea)	64	0	1	63	55.00
SAPP (50 # \ sx)	38	-38	0	0	0.00
Soap Sticks (ea \ ea)	150	0	50	100	747.50
Soda Ash (50 # \ sk)	76	-76	0	0	0.00
Walnut Shell M (50 lb \ sk)	265	-15	0	250	0.00

Treatment Recommendations

Last 24 hrs: Dumped WBM and cleaned pits. Prepared shakers and pits to receive OBM. Received 1020 bbls of OBM into Frac Tanks. Will receive the remainder of 1500 bbls of OBM on 10/16/10.
Next 24 hrs: Will complete renovations to pits. Will move OBM into the active system and displace to 10.5 ppg OptiDrill OBM.

Comments/Remarks

Picked up new bit and BHA and TIH to 4,314 ft. Prepared to displace to OptiDrill OBM.
****Received 1020 bbls of OptiDrill OBM

Daily Tax (US$)	Trucking (US$)	Daily Cost (US$)	1,061.27
31.77	0.00	Cumulative Cost (US$)	151,835.54

The information in this report is based on our experience and represents our best judgment in the matter and is intended to be helpful, but we cannot assume responsibility for any loss or accident that may result from its use. Furthermore, nothing contained herein shell be construed as a recommendation to use any product in conflict with existing patents covering any materials or uses.

Newpark Drilling Fluids, L.L.C. **Mud Report**

Jerry Ard	Evanston WY	
Tel:	Tel:	Tel:
Mbl: (985) 688-1226	Tel:	Tel:
Pgr:	Fax:	Fax:

MudPIT$_{TM}$

Date	10/16/2010	MD (ft)	4,355
Report #	25	TVD (ft)	4,355
Spud Date	09/22/2010	Bit MD (ft)	4,326
API Well #	4302330021	Bit TVD (ft)	4,326
Present Activity		Preparing To Displace	

Operator:	**PIONEER NATURAL RESOURCES**	**Contractor:**	**Nabors 169**
Report For:	**Dean Baker/Billy Vigil**	**Report For:**	**Coby Huffer**

Well Name / No.	Field / Block	Sur - Abs or Sec-T-R	County / Parish	State / Province	Country
SOUTH HILLS FEDERAL # 6-1			JUAB COUNTY	UTAH	USA

Drill String	OD(in)	ID(in)	Length(ft)
BIT & MOTOR	9.5	3.5	38.42
DC	8.0	2.875	221.12
DC	6.5	2.875	283.19
HWDP	5.0	3	831.27
DP	5.0	4.28	2952

Casing	OD(in)	ID(in)	Top(ft)	Bottom(ft)
Surface Casing	13.375	12.41	0.0	4340

Pump and Circulating Data (check box for Riser Boost)

Pump #	1 ☐	2 ☐	3 ☐	Stand Pipe (psi)		0
Liner (in)	6.5	6.5	0.0	Calc P.Loss (psi)		0
Stroke (in)	10.0	10.0	0.0	ECD (ppg)		10.50
stk/min	0	0	0	Pump # 1	Min	Stks
Efficiency (%)	95	95	95	Surf-Bit	0	0
(bbl/stk)	0.097	0.097	0.000	Bott's Up	0	0
(gpm)	0	0	0	Surf-Surf	0	0
Total (gpm)		0		Tot. Circ.	0	0

Bit Data

Bit Size (in)	12.25					
% Washout	0					
Bit Type:	HCD505ZX					
Bit #:	11					
(1/32 in)	16	16	16	16		
16	16	16				

Leak Off Test(ppg)	0
TFA (in²)	1.374
Noz-Vel (ft/se)	
Imp-Frc (psi)	
PSI Loss (psi)	
HSI (hp/in²)	
Sys HHP (hp)	
Sys HHP %	

Active Volume (bbl)	
Annulus:	527
Drill String:	64
Pits:	0
Slug Pit:	0
Total Circulating Volume	591
Volume Below Bit	4

Storage Volume(bbl)	
Storage 1	1020
Storage 2	
Storage 3	
Storage 4	
Total Storage Volume	1,020

Volume Reconciliation (bbl)			
Starting Volume	596	Total Additions:	0
Water Additions		Hole Losses	
Oil Additions		SCE Losses	
Chemical Additions:		Other Losses	
Barite Additions:		Total Losses	
Whole Mud Add:		Mud to Storage:	
Other Additions		Ending Volume:	596

Fluid Type	Oil-based	Fluid Properties			
Sample From		Pit			
Time Sample Taken		4:00 PM			
Depth @ Time of Sample (ft)		4,355			
Sample Temperature (°F)		67			
Weight (ppg)		10.5			
Funnel Viscosity (sec/qt)		42			
Plastic Vis. (cp) @ 120 (°F)		12			
Yield Point (lbf/100ft²)		10			
Gel Strength (10s/10m) (lbf/100ft²)		9 / 8			
Gel Strength (30 Min) (lbf/100ft²)		9			
HPHT Filtrate @ 250 (°F)					
Cake (1/32 in)(API/HPHT)					
Diesel SG= 0.84		71.0			
Water (% by vol)		16.0			
Solids (% by vol)		13.0			
Electrical Stability (V)		340			
Pom (Vsa) cc's Sample 1.0		2.2			
Vsn (0.282N) cc's Sample 1.0		3.4			
Lime Content (lb/bbl)		2.8			
Clom (mg/L)		34,000			
CaClom (mg/L)		53,210			
CaClom (lb/bbl)		19			
CaCl (ppm in water phase)		249,566			
Oil/Water Ratio		82 / 18			
Brine Density (S.G.)		1.23			
LGS (% by vol) SG= 2.60		2.4			
LGS (lb/bbl)		21.455			
HGS (% by vol) SG= 4.20		9.2			
HGS (lb/bbl)		135.941			
Corrected Solids (% by vol)		12			

Hydraulics (ft/min)

Annular Interval	Ann. Vel.	Crit. Vel.
Surface Casing:DP	0.00	271.51
Surface Casing:HWDP	0.00	271.51
Surface Casing:DC	0.00	279.18
Surface Casing:DC	0.00	289.44
Surface Casing:BIT &	0.00	304.66

Operating Data

Avg ROP(ft/hr)	
WOB (Klbs)	
Rotating Weight	
Rotatary Speed	
Rotating Hrs.	
Sliding Hrs.	
Non-Drlg Hrs.	
P/U (lbs)	
S/O (lbs)	
Torque (lbf-ft)	
Angle	
Azimuth	
Surv. Depth(ft)	

Viscometer Rdgs	
600	34
300	22
200	16
100	11
6	9
3	8

Solids Control Equipment

Shaker	Screens		Hrs	U/F	O/F
1	84/84/84/84	De-Sander			
2	84/84/84/84	De-Silter			
3		Centrifuge			
4		Centrifuge			
M/C					

Active Products

Materials	Initial	Rec'd	Used	Balance	Cost (US$)
Bulk Tank (50 ton \ ea)	112	0	2	110	100.00
Bulk Tanks Blower (1 \ ea)	46	0	2	44	70.00
Caustic Soda (50 lb \ sk)	2	0	2	0	55.20
Drum Disposal (1 \ ea)	40	0	40	0	1,200.00
Engineering (24 hr) (1 \ ea)	0	0	1	0	500.00
OBM Lab (1 \ ea)	63	0	1	62	55.00
Pallets (1 \ ea)	28	0	28	0	504.00
Shrink Wrap (1 \ ea)	18	0	18	0	216.00

Treatment Recommendations

Last 24 hrs: Continued to receive 10.5 ppg OptiDrill OBM to the Frac Tanks.
Next 24 hrs: Will complete OBM transfer to the Active Pit System then displace the hole to OBM.
When on bottom drilling, will add OptiMul and OptiPlus.

Comments/Remarks

Completed renovations to the mud pits. Received a total of 1445 bbls of 10.5 ppg OptiDrill OBM. Transferring OBM from Frac Tanks to Active Pit System at report time. Will displace hole to OBM when pits are full.

****Trucking Charges from DT's EVA2388, EVA2389

Daily Tax (US$)	Trucking (US$)	Daily Cost (US$)	6,006.21
132.01	3,174.00	Cumulative Cost (US$)	157,841.75

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Newpark Drilling Fluids, L.L.C. — **Mud Report**

Jerry Ard	Evanston WY	
Tel:	Tel:	Tel:
Mbl: (985) 688-1226	Tel:	Tel:
Pgr:	Fax:	Fax:

MudPIT™

Date	10/18/2010	MD (ft)	4,882
Report #	27	TVD (ft)	4,882
Spud Date	09/22/2010	Bit MD (ft)	4,882
API Well #	4302330021	Bit TVD (ft)	4,882
Present Activity		Drilling Ahead	

Operator:	**PIONEER NATURAL RESOURCES**	**Contractor:**	**Nabors 169**
Report For:	**Dean Baker/Billy Vigil**	**Report For:**	**Coby Tuller**

Well Name / No.	Field / Block	Sur - Abs or Sec-T-R	County / Parish	State / Province	Country
SOUTH HILLS FEDERAL # 6-1			JUAB COUNTY	UTAH	USA

Drill String	OD(in)	ID(in)	Length(ft)
BIT & MOTOR	9.5	3.5	38.42
DC	8.0	2.875	221.12
DC	6.5	2.875	283.19
HWDP	5.0	3	831.27
DP	5.0	4.28	3508

Casing	OD(in)	ID(in)	Top(ft)	Bottom(ft)
Surface Casing	13.375	12.41	0.0	4340

Pump and Circulating Data (check box for Riser Boost)

Pump #	1 ☐	2 ☐	3 ☐	Stand Pipe (psi)		2,768
Liner (in)	6.5	6.5	0.0	Calc P.Loss (psi)		1,216
Stroke (in)	10.0	10.0	0.0	ECD (ppg)		12.15
stk/min	160	0	0	Pump # 1	Min	Stks
Efficiency (%)	95	95	95	Surf-Bit	5	761
(bbl/stk)	0.097	0.097	0.000	Bott's Up	39	6,271
(gpm)	655	0	0	Surf-Surf	44	7,033
Total (gpm)		655		Tot. Circ.	74	11,772

Bit Data		Leak Off Test(ppg)	0
Bit Size (in)	12.25	TFA (in²)	1.374
% Washout	10	Noz-Vel (ft/se)	152.50
Bit Type:	HCD505ZX	Imp-Frc (psi)	621
Bit #:	11	PSI Loss (psi)	250.45
(1/32 in)	16 16 16 16	HSI (hp/in²)	0.81
16 16 16		Sys HHP (hp)	1057.8
		Sys HHP %	9.048

Active Volume (bbl)	
Annulus:	611
Drill String:	74
Pits:	462
Slug Pit:	0
Total Circulating Volume	1,148
Volume Below Bit	0

Storage Volume(bbl)	
Storage 1	84
Storage 2	
Storage 3	
Storage 4	
Total Storage Volume	84

Volume Reconciliation (bbl)			
Starting Volume	1304	Total Additions:	159
Water Additions		Hole Losses	48
Oil Additions	48	SCE Losses	130
Chemical Additions:		Other Losses	
Barite Additions:	111	Total Losses	178
Whole Mud Add:		Mud to Storage:	
Other Additions		Ending Volume:	1285

Fluid Type	Oil-based	Fluid Properties			
Sample From		Pit	Pit		
Time Sample Taken		3:30 AM	4:00 PM		
Depth @ Time of Sample (ft)		4,882	4,699		
Sample Temperature	(°F)	92	107		
Weight (ppg)		12.0	11.0		
Funnel Viscosity (sec/qt)		42	42		
Plastic Vis. (cp) @	120 (°F)	10	12		
Yield Point (lbf/100ft²)		14	16		
Gel Strength (10s/10m) (lbf/100ft²)		8 8	9 9		
Gel Strength (30 Min) (lbf/100ft²)		9	10		
HPHT Filtrate @	250 (°F)				
Cake (1/32 in)(API/HPHT)					
Diesel	SG= 0.84	68.0	70.0		
Water (% by vol)		13.0	13.0		
Solids (% by vol)		19.0	17.0		
Electrical Stability (V)		864	623		
Pom (Vsa)	cc's Sample 1.0	3.2	2.6		
Vsn (0.282N)	cc's Sample 1.0	5.0	5.1		
Lime Content (lb/bbl)		4.1	3.4		
Clom (mg/L)		50,000	51,000		
CaClom (mg/L)		78,250	79,815		
CaClom (lb/bbl)		27	28		
CaCl (ppm in water phase)		375,750	380,407		
Oil/Water Ratio		84 16	84 16		
Brine Density (S.G.)		1.36	1.37		
LGS (% by vol)	SG= 2.60	2.7	6.0		
LGS (lb/bbl)		24.799	54.325		
HGS (% by vol)	SG= 4.20	14.0	8.7		
HGS (lb/bbl)		206.048	128.164		
Corrected Solids (% by vol)		17	15		
Flowline Temperature		142.7	144.8		

Hydraulics (ft/min)			Operating Data	
Annular Interval	Ann. Vel.	Crit. Vel.	Avg ROP(ft/hr)	12.4
Surface Casing:DP	124.18	258.46	WOB (Klbs)	23
Surface Casing:HWDP	124.18	258.46	Rotating Weight	
Surface Casing:DC	143.32	266.50	Rotatary Speed	
OH:DC	115.09	260.61	Rotating Hrs.	
OH:DC	136.38	269.30	Sliding Hrs.	
OH:BIT & MOTOR	175.58	281.24	Non-Drlg Hrs.	
			P/U (lbs)	
			S/O (lbs)	
			Torque (lbf-ft)	
			Angle	
			Azimuth	
			Surv. Depth(ft)	

Viscometer Rdgs		Solids Control Equipment					
600	34	Shaker	Screens		Hrs	U/F	O/F
300	24	1	230/165/84/84	De-Sander			
200	16	2	230/165/84/84	De-Silter			
100	14	3		Centrifuge	4.0	7.8	10.0
6	8	4		Centrifuge	4.0	7.8	10.0
3	8	M/C			24.0	10.5	12.0

Active Products

Materials	Initial	Rec'd	Used	Balance	Cost (US$)
Bentone38 (50 lb \ sack)	38	0	14	24	980.00
Bulk Tank (50 ton \ ea)	108	0	2	106	100.00
Bulk Tanks Blower (1 \ ea)	42	0	2	40	70.00
Engineering (24 hr) (1 \ ea)	0	0	1	0	500.00
Lime (50 lb \ sx)	424	0	49	375	345.45
New Bar (Ton \ bulk)	92.4	50	81.35	61.05	9,680.65
OBM Lab (1 \ ea)	61	0	1	60	55.00
OptiMul (55 gal \ drum)	7	0	2	5	1,360.00
OptiPlus (55 gal \ Drum)	11	0	2	9	1,620.00

Treatment Recommendations

Last 24 hrs: Added Lime, Bentone, OptiVis, OptiMul, Opti Plus and diesel.
Next 24 hrs: Will continue with same treatment and will begin adding Gilsonite.

Comments/Remarks

Drilled ahead to 4,882 ft. Hole is sticky. Wants to pack off. Raised mud wt from 9.9 ppg to 12.0 ppg to prevent the problem.

Daily Tax (US$)	Trucking (US$)	Daily Cost (US$)	15,563.77
852.67	0.00	Cumulative Cost (US$)	176,051.17

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Newpark Drilling Fluids, L.L.C. — **Mud Report**

Jerry Ard	**Evanston WY**	
Tel:	Tel:	Tel:
Mbl: (985) 688-1226	Tel:	Tel:
Pgr:	Fax:	Fax:

MudPIT™

Date	10/19/2010	MD (ft)	5,157
Report #	28	TVD (ft)	5,157
Spud Date	09/22/2010	Bit MD (ft)	5,157
API Well #	4302330021	Bit TVD (ft)	5,157
Present Activity		Drilling Ahead	

Operator:	**PIONEER NATURAL RESOURCES**	**Contractor:**	**Nabors 169**
Report For:	**Dean Baker/Billy Vigil**	**Report For:**	**Coby Tuller**

Well Name / No.	Field / Block	Sur - Abs or Sec-T-R	County / Parish	State / Province	Country
SOUTH HILLS FEDERAL # 6-1			JUAB COUNTY	UTAH	USA

Drill String	OD(in)	ID(in)	Length(ft)
BIT & MOTOR	9.5	3.5	38.42
DC	8.0	2.875	221.12
DC	6.5	2.875	283.19
HWDP	5.0	3	831.27
DP	5.0	4.28	3783

Casing	OD(in)	ID(in)	Top(ft)	Bottom(ft)
Surface Casing	13.375	12.41	0.0	4340

Pump and Circulating Data (check box for Riser Boost)

	Pump 1 ☐	Pump 2 ☐	Pump 3 ☐			
Pump #				Stand Pipe (psi)		2,946
Liner (in)	6.5	6.5	0.0	Calc P.Loss (psi)		2,193
Stroke (in)	10.0	10.0	0.0	ECD (ppg)		12.51
stk/min	208	0	0	Pump # 1	Min	Stks
Efficiency (%)	95	95	95	Surf-Bit	4	811
(bbl/stk)	0.097	0.097	0.000	Bott's Up	32	6,700
(gpm)	852	0	0	Surf-Surf	36	7,512
Total (gpm)	852			Tot. Circ.	55	11,451

Bit Data

Bit Size (in)	12.25					
% Washout	10					
Bit Type:	HCD505ZX					
Bit #:	11					
(1/32 in)	16	16	16	16		
16	16	16				

Leak Off Test(ppg)	0				
TFA (in²)	1.374				
Noz-Vel (ft/se)	198.25				
Imp-Frc (psi)	1075				
PSI Loss (psi)	433.84				
HSI (hp/in²)	1.824				
Sys HHP (hp)	1463.6				
Sys HHP %	14.727				

Active Volume (bbl)		Storage Volume(bbl)		Volume Reconciliation (bbl)			
Annulus:	653	Frac Tank #1	240	Starting Volume	1285	Total Additions:	176
Drill String:	79	Frac Tank #2	360	Water Additions		Hole Losses	48
Pits:	384	Frac Tank #3		Oil Additions	60	SCE Losses	120
Slug Pit:	0			Chemical Additions:		Other Losses	
Total Circulating Volume	1,116	Total Storage Volume	600	Barite Additions:	16	Total Losses	168
				Whole Mud Add:	100	Mud to Storage:	
				Other Additions		Ending Volume:	1293

Fluid Type	Oil-based	Fluid Properties							
Sample From		Pit	Pit						
Time Sample Taken		3:15 AM	6:00 PM						
Depth @ Time of Sample (ft)		5,157	5,102						
Sample Temperature (°F)		110	111						
Weight (ppg)		12.3	12.0						
Funnel Viscosity (sec/qt)		46	45						
Plastic Vis. (cp) @ 120 (°F)		15	7						
Yield Point (lbf/100ft²)		18	17						
Gel Strength (10s/10m) (lbf/100ft²)		12 / 10	12 / 12						
Gel Strength (30 Min) (lbf/100ft²)		14	14						
HPHT Filtrate @ 250 (°F)		6.0	6.0						
Cake (1/32 in)(API/HPHT)		2.0	2.0						
Diesel SG= 0.84		62.0	63.0						
Water (% by vol)		16.0	15.0						
Solids (% by vol)		22.0	22.0						
Electrical Stability (V)		1035	928						
Pom (Vsa) cc's Sample 1.0		3.2	3.1						
Vsn (0.282N) cc's Sample 1.0		5.0	5.1						
Lime Content (lb/bbl)		4.1	4.0						
Clom (mg/L)		50,000	51,000						
CaClom (mg/L)		78,250	79,815						
CaClom (lb/bbl)		27	28						
CaCl (ppm in water phase)		328,437	347,301						
Oil/Water Ratio		79 / 21	81 / 19						
Brine Density (S.G.)		1.31	1.33						
LGS (% by vol) SG= 2.60		7.3	9.3						
LGS (lb/bbl)		66.436	85.026						
HGS (% by vol) SG= 4.20		12.5	10.4						
HGS (lb/bbl)		184.102	152.947						
Corrected Solids (% by vol)		20	20						
Flowline Temperature		149.4	148.7						

Hydraulics (ft/min)

Annular Interval	Ann. Vel.	Crit. Vel.
Surface Casing:DP	161.43	298.01
Surface Casing:HWDP	161.43	298.01
OH:HWDP	133.14	292.14
OH:DC	149.62	300.74
OH:DC	177.30	311.78
OH:BIT & MOTOR	228.26	327.01

Operating Data

Avg ROP(ft/hr)	11.5
WOB (Klbs)	
Rotating Weight	
Rotatary Speed	
Rotating Hrs.	
Sliding Hrs.	
Non-Drlg Hrs.	
P/U (lbs)	
S/O (lbs)	
Torque (lbf-ft)	
Angle	
Azimuth	
Surv. Depth(ft)	

Viscometer Rdgs

600	48
300	33
200	23
100	17
6	12
3	10

Solids Control Equipment

Shaker	Screens		Hrs	U/F	O/F
1	230/165/84/84	De-Sander			
2	230/165/84/84	De-Silter			
3		Centrifuge	4.0	7.8	10.0
4		Centrifuge	4.0	7.8	10.0
M/C			24.0	10.5	12.0

Active Products

Materials	Initial	Rec'd	Used	Balance	Cost (US$)
Bentone 910 (50 lb \ sk)	0	100	0	100	0.00
Bentone38 (50 lb \ sack)	24	0	6	18	420.00
Bulk Tank (50 ton \ ea)	106	0	2	104	100.00
Bulk Tanks Blower (1 \ ea)	40	0	2	38	70.00
Drum Disposal (1 \ ea)	0	12	12	0	360.00
Dyna Fiber Cor (25 # \ sk)	246	0	16	230	316.80
DynaDet (5 gal \ pail)	7	-7	0	0	0.00
Engineering (24 hr) (1 \ ea)	0	0	1	0	500.00
GSX-510 (50 lb \ sk)	0	50	0	50	0.00
Gilsonite HT (50 lb \ sack)	100	0	24	76	856.80
Lime (50 lb \ sx)	375	100	0	475	0.00
New Bar (Sack) (100 lb \ sk)	240	160	18	382	150.12
New Bar (Ton \ bulk)	61.05	46.04	11.8	95.29	1,404.20
NoFoam X (5 gal \ Bucket)	12	-12	0	0	0.00
OBM Lab (1 \ ea)	60	0	1	59	55.00
Oil Dry (50 lb \ sack)	40	40	0	80	0.00
OptiMul (55 gal \ drum)	5	4	1	8	680.00
OptiPlus (55 gal \ Drum)	9	4	5	8	4,050.00
OptiVis (55 gal \ Drum)	4	0	2	2	1,995.00
Pallets (1 \ ea)	0	0	13	-13	234.00
Shrink Wrap (1 \ ea)	0	10	10	0	120.00
Soap Sticks (ea \ ea)	100	-100	0	0	0.00

Treatment Recommendations

Last 24 hrs: Added Bentone, Gilsonite, Lime and diesel. Pumped several 15 bbl, 15 ppb LCM sweeps while drilling through dolimite formation.
Next 24 hrs: Will continue with same treatment

Comments/Remarks

Drilled ahead to 5,157 ft ar report time. Preparing to POOH to change pump liners as we have reached pump pressure threshold. Received 300 bbls of 15.4 ppg OptiDrill OBM and 400 bbls of OptiDrill base fluid.

Daily Tax (US$)	Trucking (US$)	Daily Cost (US$)	11,960.64
648.72	0.00	Cumulative Cost (US$)	188,011.80

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Newpark Drilling Fluids, L.L.C.

Mud Report

Jerry Ard	Evanston WY	
Tel:	Tel:	Tel:
Mbl: (985) 688-1226	Tel:	Tel:
Pgr:	Fax:	Fax:

MudPIT™

Date	10/20/2010	MD (ft)	5,157
Report #	29	TVD (ft)	5,157
Spud Date	09/22/2010	Bit MD (ft)	5,157
API Well #	4302330021	Bit TVD (ft)	5,157
Present Activity		Drilling Ahead	

Operator:	**PIONEER NATURAL RESOURCES**	**Contractor:**	**Nabors 169**
Report For:	**Dean Baker/Derrick Berry**	**Report For:**	**Coby Tuller**

Well Name / No.	Field / Block	Sur - Abs or Sec-T-R	County / Parish	State / Province	Country
SOUTH HILLS FEDERAL # 6-1			JUAB COUNTY	UTAH	USA

Drill String	OD(in)	ID(in)	Length(ft)
BIT & MOTOR	9.5	3.5	38.42
DC	8.0	2.875	221.12
DC	6.5	2.875	283.19
HWDP	5.0	3	831.27
DP	5.0	4.28	3783

Casing	OD(in)	ID(in)	Top(ft)	Bottom(ft)
Surface Casing	13.375	12.41	0.0	4340

Pump and Circulating Data (check box for Riser Boost)

	Pump # 1 ☐	2 ☐	3 ☐			
Liner (in)	6.0	6.0	0.0	Stand Pipe (psi)		3,210
Stroke (in)	10.0	10.0	0.0	Calc P.Loss (psi)		1,465
stk/min	191	0	0	ECD (ppg)		12.80
Efficiency (%)	95	95	95	Pump # 1	Min	Stks
(bbl/stk)	0.083	0.083	0.000	Surf-Bit	5	952
(gpm)	666	0	0	Bott's Up	41	7,864
Total (gpm)		666		Surf-Surf	46	8,816
				Tot. Circ.	87	16,546

Bit Data											
Bit Size (in)	12.25										
% Washout	10										
Bit Type:	HCD505ZX										
Bit #:	12										
(1/32 in)	22	22	22	22							
22	22	22									

		Active Volume (bbl)		Storage Volume(bbl)		Volume Reconciliation (bbl)			
Leak Off Test(ppg)	0	Annulus:	653	Frac Tank #1	250	Starting Volume	1293	Total Additions:	11
TFA (in²)	2.599	Drill String:	79	Frac Tank #2		Water Additions		Hole Losses	
Noz-Vel (ft/se)	82.046	Pits:	642	Frac Tank #3	280	Oil Additions	4	SCE Losses	
Imp-Frc (psi)	356	Slug Pit:	0			Chemical Additions:		Other Losses	
PSI Loss (psi)	76.117					Barite Additions:	7	Total Losses	
HSI (hp/in²)	0.25	Total Circulating Volume		Total Storage Volume		Whole Mud Add:		Mud to Storage:	
Sys HHP (hp)	1247.8	1,374		530		Other Additions		Ending Volume:	1304
Sys HHP %	2.371	Volume Below Bit		0					

Fluid Type	Oil-based	Fluid Properties			
Sample From		Pit	Pit		
Time Sample Taken		3:15 AM	4:00 PM		
Depth @ Time of Sample (ft)		5,167	5,170		
Sample Temperature (°F)		91	88		
Weight (ppg)		12.6	12.3		
Funnel Viscosity (sec/qt)		54	47		
Plastic Vis. (cp) @ 120 (°F)		18	14		
Yield Point (lbf/100ft²)		14	18		
Gel Strength (10s/10m) (lbf/100ft²)		12 17	10 11		
Gel Strength (30 Min) (lbf/100ft²)		20	12		
HPHT Filtrate @ 250 (°F)		6.5	6.0		
Cake (1/32 in)(API/HPHT)		2.0			
Diesel SG= 0.84		63.0	62.0		
Water (% by vol)		15.0	16.0		
Solids (% by vol)		22.0	22.0		
Electrical Stability (V)		692	1063		
Pom (Vsa) cc's Sample 1.0		2.6	3.2		
Vsn (0.282N) cc's Sample 1.0		5.0	5.0		
Lime Content (lb/bbl)		3.4	4.1		
Clom (mg/L)		50,000	50,000		
CaClom (mg/L)		78,250	78,250		
CaClom (lb/bbl)		27	27		
CaCl (ppm in water phase)		342,826	328,437		
Oil/Water Ratio		81 19	79 21		
Brine Density (S.G.)		1.33	1.31		
LGS (% by vol) SG= 2.60		4.9	7.3		
LGS (lb/bbl)		44.483	66.436		
HGS (% by vol) SG= 4.20		14.9	12.5		
HGS (lb/bbl)		219.203	184.102		
Corrected Solids (% by vol)		20	20		
Flowline Temperature		148.6			

Hydraulics (ft/min)			Operating Data	
Annular Interval	Ann. Vel.	Crit. Vel.	Avg ROP(ft/hr)	13.9
Surface Casing:DP	126.31	298.31	WOB (Klbs)	22
Surface Casing:HWDP	126.31	298.31	Rotating Weight	
OH:HWDP	104.17	293.13	Rotatary Speed	
OH:DC	117.07	300.72	Rotating Hrs.	
OH:DC	138.72	310.42	Sliding Hrs.	
OH:BIT & MOTOR	178.60	323.73	Non-Drlg Hrs.	
			P/U (lbs)	
			S/O (lbs)	
			Torque (lbf-ft)	
			Angle	
			Azimuth	
			Surv. Depth(ft)	

Viscometer Rdgs		Solids Control Equipment					
600	50	Shaker	Screens		Hrs	U/F	O/F
300	32	1	230/165/84/84	De-Sander			
200	25	2	230/165/84/84	De-Silter			
100	18	3		Centrifuge		7.8	10.0
6	14	4		Centrifuge		7.8	10.0
3	11	M/C			24.0	10.5	12.0

Active Products

Materials	Initial	Rec'd	Used	Balance	Cost (US$)
Bentone38 (50 lb \ sack)	18	0	4	14	280.00
Bulk Tank (50 ton \ ea)	104	0	2	102	100.00
Bulk Tanks Blower (1 \ ea)	38	0	2	36	70.00
Engineering (24 hr) (1 \ ea)	0	0	1	0	500.00
Lime (50 lb \ sx)	475	0	15	460	105.75
New Bar (Ton \ bulk)	95.29	0	5.4	89.89	642.60
OBM Lab (1 \ ea)	59	0	1	58	55.00

Treatment Recommendations

Last 24 hrs: Blended reserve mud to build 100 bbls of volume for active system. Raised mud wt to 12.6 ppg.
Next 24 hrs: Will add OptiWet, OptiPlus, Lime, Bentone, Gilsonite and diesel. Will add NewBar as necessary to raise or maintain mud wt.

Comments/Remarks

Drilled ahead to 5,160 ft. POOH to change jets in bit. Changed to 6 in liners in mud pumps during trip. TIH and circulated while raising mud wt to 12.6 ppg. Also built 100 bbls of volume using reserve mud.

****Trucking charges from DT 56349, 56350 & EVA2398

Daily Tax (US$)	Trucking (US$)	Daily Cost (US$)	6,338.75
75.20	4,510.20	Cumulative Cost (US$)	194,350.55

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Newpark Drilling Fluids, L.L.C. — **Mud Report**

Jerry Ard	Evanston WY	
Tel:	Tel:	Tel:
Mbl: (985) 688-1226	Tel:	Tel:
Pgr:	Fax:	Fax:

MudPIT™

Date	10/21/2010	MD (ft)	5,420
Report #	30	TVD (ft)	5,420
Spud Date	09/22/2010	Bit MD (ft)	5,411
API Well #	4302330021	Bit TVD (ft)	5,411
Present Activity		Waiting On Pump Repairs	

Operator:	**PIONEER NATURAL RESOURCES**	**Contractor:**	**Nabors 169**
Report For:	**Dean Baker/Derrick Berry**	**Report For:**	**Coby Tuller**

Well Name / No.	Field / Block	Sur - Abs or Sec-T-R	County / Parish	State / Province	Country
SOUTH HILLS FEDERAL # 6-1			JUAB COUNTY	UTAH	USA

Drill String	OD(in)	ID(in)	Length(ft)
BIT & MOTOR	9.5	3.5	38.42
DC	8.0	2.875	221.12
DC	6.5	2.875	283.19
HWDP	5.0	3	831.27
DP	5.0	4.28	4037

Casing	OD(in)	ID(in)	Top(ft)	Bottom(ft)
Surface Casing	13.375	12.41	0.0	4340

Pump and Circulating Data (check box for Riser Boost)

	Pump 1 ☐	Pump 2 ☐	Pump 3 ☐			
Pump #				Stand Pipe (psi)		3,210
Liner (in)	6.0	6.0	0.0	Calc P.Loss (psi)		512
Stroke (in)	10.0	10.0	0.0	ECD (ppg)		12.86
stk/min	97	0	0	Pump # 1	Min	Stks
Efficiency (%)	95	95	95	Surf-Bit	10	1,007
(bbl/stk)	0.083	0.083	0.000	Bott's Up	86	8,329
(gpm)	338	0	0	Surf-Surf	96	9,336
Total (gpm)		338		Tot. Circ.	176	17,089

Bit Data						Leak Off Test(ppg)	0
Bit Size (in)	12.25					TFA (in²)	2.599
% Washout	10					Noz-Vel (ft/se)	41.668
Bit Type:	HCD505ZX					Imp-Frc (psi)	92
Bit #:	12					PSI Loss (psi)	19.788
(1/32 in)	22	22	22	22		HSI (hp/in²)	0.033
22	22	22				Sys HHP (hp)	633.71
						Sys HHP %	0.616

Active Volume (bbl)	
Annulus:	692
Drill String:	84
Pits:	644
Slug Pit:	0
Total Circulating Volume	1,419
Volume Below Bit	2

Storage Volume(bbl)	
Frac Tank #1	250
Frac Tank #2	
Frac Tank #3	280
Total Storage Volume	530

Volume Reconciliation (bbl)	
Starting Volume	1304
Water Additions	6
Oil Additions	48
Chemical Additions:	
Barite Additions:	57
Whole Mud Add:	
Other Additions	

Total Additions:	111
Hole Losses	23
SCE Losses	76
Other Losses	
Total Losses	99
Mud to Storage:	
Ending Volume:	1316

Fluid Type	Oil-based	Fluid Properties			
Sample From		Pit			
Time Sample Taken		3:00 AM	5:00 PM		
Depth @ Time of Sample (ft)		5,420	5,315		
Sample Temperature (°F)		106	108		
Weight (ppg)		12.7	12.6		
Funnel Viscosity (sec/qt)		47	50		
Plastic Vis. (cp) @ 150 (°F)		17	18		
Yield Point (lbf/100ft²)		14	22		
Gel Strength (10s/10m) (lbf/100ft²)		11 | 10	17 | 19		
Gel Strength (30 Min) (lbf/100ft²)		14	21		
HPHT Filtrate @ 250 (°F)		5.0	6.0		
Cake (1/32 in)(API/HPHT)		2.0	2.0		
Diesel SG= 0.84		63.0	62.0		
Water (% by vol)		15.0	15.0		
Solids (% by vol)		22.0	23.0		
Electrical Stability (V)		997	882		
Pom (Vsa) cc's Sample 1.0		3.1	3.0		
Vsn (0.282N) cc's Sample 1.0		5.0	5.0		
Lime Content (lb/bbl)		4.0	3.9		
Clom (mg/L)		50,000	50,000		
CaClom (mg/L)		78,250	78,250		
CaClom (lb/bbl)		27	27		
CaCl (ppm in water phase)		342,826	342,826		
Oil/Water Ratio		81 | 19	81 | 19		
Brine Density (S.G.)		1.33	1.33		
LGS (% by vol) SG= 2.60		4.1	7.0		
LGS (lb/bbl)		37.667	63.601		
HGS (% by vol) SG= 4.20		15.7	13.8		
HGS (lb/bbl)		230.212	203.019		
Corrected Solids (% by vol)		20	21		
Flowline Temperature		139.2	147.6		

Hydraulics (ft/min)

Annular Interval	Ann. Vel.	Crit. Vel.
Surface Casing:DP	64.15	286.97
Surface Casing:HWDP	64.15	286.97
OH:HWDP	52.90	281.65
OH:DC	59.45	289.44
OH:DC	70.45	299.42
OH:BIT & MOTOR	90.70	313.15

Operating Data

Avg ROP(ft/hr)	10.9
WOB (Klbs)	
Rotating Weight	
Rotatary Speed	
Rotating Hrs.	
Sliding Hrs.	
Non-Drlg Hrs.	
P/U (lbs)	
S/O (lbs)	
Torque (lbf-ft)	
Angle	
Azimuth	
Surv. Depth(ft)	

Viscometer Rdgs		Solids Control Equipment					
600	48	Shaker	Screens		Hrs	U/F	O/F
300	31	1	230/165/84/84	De-Sander			
200	23	2	230/165/84/84	De-Silter			
100	17	3		Centrifuge	12.0	8.2	12.8
6	11	4		Centrifuge	12.0	8.2	12.8
3	10	M/C			24.0	11.2	12.6

Active Products

Materials	Initial	Rec'd	Used	Balance	Cost (US$)
Bentone 910 (50 lb \ sk)	100	0	1	99	70.00
Bentone38 (50 lb \ sack)	14	0	14	0	980.00
Bulk Tank (50 ton \ ea)	102	0	2	100	100.00
Bulk Tanks Blower (1 \ ea)	36	0	2	34	70.00
Engineering (24 hr) (1 \ ea)	0	0	1	0	500.00
Gilsonite HT (50 lb \ sack)	76	0	14	62	499.80
Mica F (50 lb \ sk)	432	0	12	420	234.60
New Bar (Ton \ bulk)	89.89	49.25	42	97.14	4,998.00
Oil Dry (50 lb \ sack)	80	0	6	74	71.40
OptiMul (55 gal \ drum)	8	0	3	5	2,040.00
OptiWet (55 gal \ drum)	4	0	1	3	845.00
Sawdust (20# \ sk)	300	0	5	295	26.85

Treatment Recommendations

Last 24 hrs: Added Bentone, Gilsonite, OptiMul, OptiWet, Lime and diesel to maintain mud within prescribed parameters.
Next 24 hrs: Will continue with same treatment.

Comments/Remarks

Drilled ahead to 5,420 ft and developed a pump problem. Waiting on pump repairs.

****Trucking charges from DT 56351

Daily Tax (US$)	Trucking (US$)	Daily Cost (US$)	12,439.21
596.14	1,407.42	Cumulative Cost (US$)	206,789.76

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Newpark Drilling Fluids, L.L.C. — **Mud Report**

Jerry Ard	Evanston WY	
Tel:	Tel:	Tel:
Mbl: (985) 688-1226	Tel:	Tel:
Pgr:	Fax:	Fax:

MudPIT™

Date	10/22/2010	MD (ft)	5,433
Report #	31	TVD (ft)	5,433
Spud Date	09/22/2010	Bit MD (ft)	5,433
API Well #	4302330021	Bit TVD (ft)	5,433
Present Activity		Drilling Ahead	

Operator:	**PIONEER NATURAL RESOURCES**	**Contractor:**	**Nabors 169**
Report For:	**Dean Baker/Derrick Berry**	**Report For:**	**Coby Tuller**

Well Name / No.	Field / Block	Sur - Abs or Sec-T-R	County / Parish	State / Province	Country
SOUTH HILLS FEDERAL # 6-1			JUAB COUNTY	UTAH	USA

Drill String	OD(in)	ID(in)	Length(ft)
BIT & MOTOR	9.5	3.5	38.42
DC	8.0	2.875	221.12
DC	6.5	2.875	283.19
HWDP	5.0	3	831.27
DP	5.0	4.28	4059

Casing	OD(in)	ID(in)	Top(ft)	Bottom(ft)
Surface Casing	13.375	12.41	0.0	4340

Pump and Circulating Data (check box for Riser Boost)

Pump #	1 ☐	2 ☐	3 ☐	Stand Pipe (psi)		3,071
Liner (in)	6.0	6.0	0.0	Calc P.Loss (psi)		1,348
Stroke (in)	10.0	10.0	0.0	ECD (ppg)		12.98
stk/min	180	0	0	Pump # 1	Min	Stks
Efficiency (%)	95	95	95	Surf-Bit	6	1,011
(bbl/stk)	0.083	0.083	0.000	Bott's Up	46	8,369
(gpm)	628	0	0	Surf-Surf	52	9,381
Total (gpm)		628		Tot. Circ.	86	15,413

Bit Data		Leak Off Test(ppg)	0
Bit Size (in)	12.25	TFA (in²)	2.599
% Washout	10	Noz-Vel (ft/se)	77.321
Bit Type:	HCD505ZX	Imp-Frc (psi)	321
Bit #:	12	PSI Loss (psi)	68.675
(1/32 in)	22 22 22 22	HSI (hp/in²)	0.213
22 22 22		Sys HHP (hp)	1125.0
		Sys HHP %	2.236

Active Volume (bbl)		Storage Volume(bbl)	
Annulus:	695	Frac Tank #1	160
Drill String:	84	Frac Tank #2	
Pits:	501	Frac Tank #3	210
Slug Pit:	0		
Total Circulating Volume	1,280	Total Storage Volume	370

Volume Reconciliation (bbl)			
Starting Volume	1316	Total Additions:	183
Water Additions		Hole Losses	150
Oil Additions		SCE Losses	20
Chemical Additions:		Other Losses	
Barite Additions:	33	Total Losses	170
Whole Mud Add:	150	Mud to Storage:	
Other Additions		Ending Volume:	1329

Fluid Type	Oil-based	Fluid Properties			
Sample From		Pit	Pit		
Time Sample Taken		3:30 AM	5:00 PM		
Depth @ Time of Sample (ft)		5,433	5,420		
Sample Temperature (°F)		103	99		
Weight (ppg)		12.8	12.8		
Funnel Viscosity (sec/qt)		50	53		
Plastic Vis. (cp) @ 150 (°F)		17	18		
Yield Point (lbf/100ft²)		14	18		
Gel Strength (10s/10m) (lbf/100ft²)		10 10	15 16		
Gel Strength (30 Min) (lbf/100ft²)		11	18		
HPHT Filtrate @ 250 (°F)		5.0	5.0		
Cake (1/32 in)(API/HPHT)		2.0	2.0		
Diesel SG= 0.84		62.0	61.0		
Water (% by vol)		16.0	16.0		
Solids (% by vol)		22.0	23.0		
Electrical Stability (V)		761	752		
Pom (Vsa) cc's Sample 1.0		2.5	2.5		
Vsn (0.282N) cc's Sample 1.0		5.0	5.0		
Lime Content (lb/bbl)		3.2	3.2		
Clom (mg/L)		50,000	50,000		
CaClom (mg/L)		78,250	78,250		
CaClom (lb/bbl)		27	27		
CaCl (ppm in water phase)		328,437	328,437		
Oil/Water Ratio		79 21	79 21		
Brine Density (S.G.)		1.31	1.31		
LGS (% by vol) SG= 2.60		3.6	5.7		
LGS (lb/bbl)		32.359	51.477		
HGS (% by vol) SG= 4.20		16.3	15.2		
HGS (lb/bbl)		239.15	222.966		
Corrected Solids (% by vol)		20	21		
Flowline Temperature		130.1			

Hydraulics (ft/min)			Operating Data	
Annular Interval	Ann. Vel.	Crit. Vel.		
Surface Casing:DP	119.04	285.69	Avg ROP(ft/hr)	
Surface Casing:HWDP	119.04	285.69	WOB (Klbs)	27
OH:HWDP	98.17	280.39	Rotating Weight	
OH:DC	110.33	288.15	Rotatary Speed	
OH:DC	130.74	298.08	Rotating Hrs.	
OH:BIT & MOTOR	168.31	311.75	Sliding Hrs.	
			Non-Drlg Hrs.	
			P/U (lbs)	
			S/O (lbs)	
			Torque (lbf-ft)	
			Angle	
			Azimuth	
			Surv. Depth(ft)	

Viscometer Rdgs		Solids Control Equipment					
600	48	Shaker	Screens		Hrs	U/F	O/F
300	31	1	230/165/84/84	De-Sander			
200	24	2	230/165/84/84	De-Silter			
100	17	3		Centrifuge			
6	10	4		Centrifuge			
3	10	M/C			24.0	11.1	12.8

Active Products

Materials	Initial	Rec'd	Used	Balance	Cost (US$)
Bulk Tank (50 ton \ ea)	100	0	2	98	100.00
Bulk Tanks Blower (1 \ ea)	34	0	2	32	70.00
Engineering (24 hr) (1 \ ea)	0	0	1	0	500.00
New Bar (Ton \ bulk)	97.14	0	24	73.14	2,856.00
OBM Lab (1 \ ea)	58	0	1	57	55.00
Oil Dry (50 lb \ sack)	74	0	2	72	23.80
OptiMul (55 gal \ drum)	5	0	1	4	680.00

Treatment Recommendations

Last 24 hrs: Blended mud from Frac Tanks to build 150 bbls of 12.8 ppg mud.
Next 24 hrs: Will add Bentone, Lime, Gilsonite, OptiPlus and diesel to maintain mud within prescribed parameters. Will add NewBar as needed to maintain mud weight.

Comments/Remarks

Completed mud pump repairs. Tripped back to bottom and began drilling ahead. When mud pumps were brought to 628 gpm, began loosing mud downhole. Lost a total of ~150 bbls. Blended mud from Frac Tanks to bring pit volume back up to 500 bbls. Pumped last 50 bbl batch straight downhole as a 15 ppb LCM sweep. Drilling ahead at report time.

****Trucking charges from DT 56358 & 56359

Daily Tax (US$)	Trucking (US$)	Daily Cost (US$)	7,425.52
227.09	2,913.63	Cumulative Cost (US$)	214,215.28

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Newpark Drilling Fluids, L.L.C. — **Mud Report**

Jerry Ard	Evanston WY	
Tel:	Tel:	Tel:
Mbl: (985) 688-1226	Tel:	Tel:
Pgr:	Fax:	Fax:

MudPIT™

Date	10/23/2010	MD (ft)	5,638
Report #	32	TVD (ft)	5,638
Spud Date	09/22/2010	Bit MD (ft)	4,294
API Well #	4302330021	Bit TVD (ft)	4,294
Present Activity		Waiting On Mud	

Operator:	**PIONEER NATURAL RESOURCES**	**Contractor:**	**Nabors 169**
Report For:	**Dean Baker/Derrick Berry**	**Report For:**	**Coby Tuller**

Well Name / No.	Field / Block	Sur - Abs or Sec-T-R	County / Parish	State / Province	Country
SOUTH HILLS FEDERAL # 6-1			JUAB COUNTY	UTAH	USA

Drill String	OD(in)	ID(in)	Length(ft)
BIT & MOTOR	9.5	3.5	38.42
DC	8.0	2.875	221.12
DC	6.5	2.875	283.19
HWDP	5.0	3	831.27
DP	5.0	4.28	2920

Casing	OD(in)	ID(in)	Top(ft)	Bottom(ft)
Surface Casing	13.375	12.41	0.0	4340

Pump and Circulating Data (check box for Riser Boost)

	Pump 1 ☐	Pump 2 ☐	Pump 3 ☐			
Pump #				Stand Pipe (psi)		0
Liner (in)	6.0	6.0	0.0	Calc P.Loss (psi)		0
Stroke (in)	10.0	10.0	0.0	ECD (ppg)		12.80
stk/min	0	0	0	Pump # 1	Min	Stks
Efficiency (%)	95	95	95	Surf-Bit	0	0
(bbl/stk)	0.083	0.083	0.000	Bott's Up	0	0
(gpm)	0	0	0	Surf-Surf	0	0
Total (gpm)		0		Tot. Circ.	0	0

Bit Data

Bit Size (in)	12.25				
% Washout	10				
Bit Type:	HCD505ZX				
Bit #:	12				
(1/32 in)	22	22	22	22	
22	22	22			

Leak Off Test(ppg)	0
TFA (in²)	2.599
Noz-Vel (ft/se)	
Imp-Frc (psi)	
PSI Loss (psi)	
HSI (hp/in²)	
Sys HHP (hp)	
Sys HHP %	

Active Volume (bbl)	
Annulus:	523
Drill String:	64
Pits:	0
Slug Pit:	0
Total Circulating Volume	587
Volume Below Bit	236

Storage Volume(bbl)	
Frac Tank #1	420
Frac Tank #2	80
Frac Tank #3	
Total Storage Volume	500

Volume Reconciliation (bbl)	
Starting Volume	1329
Water Additions	
Oil Additions	
Chemical Additions:	
Barite Additions:	
Whole Mud Add:	
Other Additions	

Total Additions:	0
Hole Losses	
SCE Losses	
Other Losses	
Total Losses	
Mud to Storage:	
Ending Volume:	1329

Fluid Type	Oil-based	Fluid Properties
Sample From		Pit
Time Sample Taken		5:00 PM
Depth @ Time of Sample (ft)		5,638
Sample Temperature (°F)		104
Weight (ppg)		12.8
Funnel Viscosity (sec/qt)		47
Plastic Vis. (cp) @ 150 (°F)		14
Yield Point (lbf/100ft²)		17
Gel Strength (10s/10m) (lbf/100ft²)		14 16
Gel Strength (30 Min) (lbf/100ft²)		19
HPHT Filtrate @ 250 (°F)		5.0
Cake (1/32 in)(API/HPHT)		2.0
Diesel SG= 0.84		63.0
Water (% by vol)		16.0
Solids (% by vol)		21.0
Electrical Stability (V)		999
Pom (Vsa) cc's Sample 1.0		3.4
Vsn (0.282N) cc's Sample 1.0		5.0
Lime Content (lb/bbl)		4.4
Clom (mg/L)		50,000
CaClom (mg/L)		78,250
CaClom (lb/bbl)		27
CaCl (ppm in water phase)		328,437
Oil/Water Ratio		80 20
Brine Density (S.G.)		1.31
LGS (% by vol) SG= 2.60		1.5
LGS (lb/bbl)		13.24
HGS (% by vol) SG= 4.20		17.4
HGS (lb/bbl)		255.334
Corrected Solids (% by vol)		19
Flowline Temperature		128.4

Hydraulics (ft/min)

Annular Interval	Ann. Vel.	Crit. Vel.
Surface Casing:DP	0.00	0.00
Surface Casing:HWDP	0.00	0.00
Surface Casing:DC	0.00	0.00
Surface Casing:DC	0.00	0.00
Surface Casing:BIT &	0.00	0.00

Operating Data

Avg ROP(ft/hr)	
WOB (Klbs)	
Rotating Weight	
Rotatary Speed	
Rotating Hrs.	
Sliding Hrs.	
Non-Drlg Hrs.	
P/U (lbs)	
S/O (lbs)	
Torque (lbf-ft)	
Angle	
Azimuth	
Surv. Depth(ft)	

Viscometer Rdgs

600	0
300	0
200	0
100	0
6	0
3	0

Solids Control Equipment

Shaker	Screens		Hrs	U/F	O/F
1	230/165/165/120	De-Sander			
2	230/165/165/120	De-Silter			
3		Centrifuge			
4		Centrifuge			
M/C			8.0	11.1	12.8

Active Products

Materials	Initial	Rec'd	Used	Balance	Cost (US$)
Bentone 910 (50 lb \ sk)	99	0	12	87	840.00
Bulk Tank (50 ton \ ea)	98	0	2	96	100.00
Bulk Tanks Blower (1 \ ea)	32	0	2	30	70.00
Engineering (24 hr) (1 \ ea)	0	0	1	0	500.00
Gilsonite HT (50 lb \ sack)	62	0	6	56	214.20
Lime (50 lb \ sx)	460	0	18	442	126.90
OBM Lab (1 \ ea)	57	0	1	56	55.00
OptiMul (55 gal \ drum)	4	0	1	3	680.00
OptiPlus (55 gal \ Drum)	12	0	1	11	810.00
OptiWet (55 gal \ drum)	3	0	1	2	845.00

Treatment Recommendations

Last 24 hrs: Added Bentone, Gilsonite, OptiMul, OptiPlus, OptiWet, Lime and diesel.
Next 24 hrs: When base fluid arrives, will blend heavy mud and base to build volume and attempt to establish returns.

Comments/Remarks

Continued to drill ahead. At ~5,511 ft, began experiencing downhole losses. At ~5,586 ft, saw sharp losses. Pulled up off bottom and circulated while building mud volume. Continued to drill ahead. At 5,538 ft, experienced no returns. Pulled up into the casing to build mud volume. After building volume, TIH to bottom and broke circulation. Again lost returns. Pulled back into the casing and built volume with the last of the base fluid on location. Broke circulation and again lost returns. Ordered heavy mud out of Myton, UT. Most of that volume has been delivered at report time. Ordered base mud out of Sand Draw, WY. That mud is on it's way to the rig. Waiting on mud to be delivered to the location at report time.

****Screened up on shakers: 230,165,165,120

Daily Tax (US$)	Trucking (US$)	Daily Cost (US$)	4,465.57
224.47	0.00	Cumulative Cost (US$)	218,680.85

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Newpark Drilling Fluids, L.L.C. — **Mud Report**

Jerry Ard	Evanston WY	
Tel:	Tel:	Tel:
Mbl: (985) 688-1226	Tel:	Tel:
Pgr:	Fax:	Fax:

MudPIT™

Date	10/25/2010	MD (ft)	5,638
Report #	33	TVD (ft)	5,638
Spud Date	09/22/2010	Bit MD (ft)	3,808
API Well #	4302330021	Bit TVD (ft)	3,808
Present Activity		Waiting On Mud	

Operator:	**PIONEER NATURAL RESOURCES**	**Contractor:**	**Nabors 169**
Report For:	**Dean Baker/Derrick Berry**	**Report For:**	**Coby Tuller**

Well Name / No.	Field / Block	Sur - Abs or Sec-T-R	County / Parish	State / Province	Country
SOUTH HILLS FEDERAL # 6-1			JUAB COUNTY	UTAH	USA

Drill String	OD(in)	ID(in)	Length(ft)
HWDP	5.0	3	831.27
DP	5.0	4.28	2976.73

Casing	OD(in)	ID(in)	Top(ft)	Bottom(ft)
Surface Casing	13.375	12.41	0.0	4340

Pump and Circulating Data (check box for Riser Boost)

Pump #	1 ☐	2 ☐	3 ☐	Stand Pipe (psi)		0
Liner (in)	6.0	6.0	0.0	Calc P.Loss (psi)		0
Stroke (in)	10.0	10.0	0.0	ECD (ppg)		15.40
stk/min	0	0	0	Pump # 1	Min	Stks
Efficiency (%)	95	95	95	Surf-Bit	0	0
(bbl/stk)	0.083	0.083	0.000	Bott's Up	0	0
(gpm)	0	0	0	Surf-Surf	0	0
Total (gpm)		0		Tot. Circ.	0	0

Bit Data

Bit Size (in)	12.25				
% Washout	10				
Bit Type:	HCD505ZX				
Bit #:	12				
(1/32 in)	32	32	32	32	
32	32				

Leak Off Test(ppg)	0
TFA (in²)	4.712
Noz-Vel (ft/se)	
Imp-Frc (psi)	
PSI Loss (psi)	
HSI (hp/in²)	
Sys HHP (hp)	
Sys HHP %	

Active Volume (bbl)

Annulus:	478
Drill String:	60
Pits:	0
Slug Pit:	0
Total Circulating Volume	538
Volume Below Bit	309

Storage Volume(bbl)

Frac Tank #1	500
Frac Tank #2	80
Frac Tank #3	
Total Storage Volume	580

Volume Reconciliation (bbl)

Starting Volume	1329	Total Additions:	34
Water Additions		Hole Losses	
Oil Additions		SCE Losses	
Chemical Additions:		Other Losses	
Barite Additions:	34	Total Losses	
Whole Mud Add:		Mud to Storage:	
Other Additions		Ending Volume:	1363

Fluid Type	Oil-based	Fluid Properties
Sample From		Other
Time Sample Taken		6:00 PM
Depth @ Time of Sample (ft)		
Sample Temperature (°F)		69
Weight (ppg)		15.4
Funnel Viscosity (sec/qt)		54
Plastic Vis. (cp) @ 150 (°F)		20
Yield Point (lbf/100ft²)		12
Gel Strength (10s/10m) (lbf/100ft²)		5 6
Gel Strength (30 Min) (lbf/100ft²)		8
HPHT Filtrate @ 250 (°F)		1.0
Cake (1/32 in)(API/HPHT)		
Diesel SG= 0.84		49.0
Water (% by vol)		19.0
Solids (% by vol)		32.0
Electrical Stability (V)		493
Pom (Vsa) cc's Sample 1.0		6.1
Vsn (0.282N) cc's Sample 1.0		7.0
Lime Content (lb/bbl)		7.9
Clom (mg/L)		70,000
CaClom (mg/L)		109,550
CaClom (lb/bbl)		38
CaCl (ppm in water phase)		365,715
Oil/Water Ratio		72 28
Brine Density (S.G.)		1.35
LGS (% by vol) SG= 2.60		4.8
LGS (lb/bbl)		43.951
HGS (% by vol) SG= 4.20		24.0
HGS (lb/bbl)		353.301
Corrected Solids (% by vol)		29

Hydraulics (ft/min)

Annular Interval	Ann. Vel.	Crit. Vel.
Surface Casing:DP	0.00	0.00
Surface Casing:HWDP	0.00	0.00

Operating Data

Avg ROP(ft/hr)	
WOB (Klbs)	
Rotating Weight	
Rotatary Speed	
Rotating Hrs.	
Sliding Hrs.	
Non-Drlg Hrs.	
P/U (lbs)	
S/O (lbs)	
Torque (lbf-ft)	
Angle	
Azimuth	
Surv. Depth(ft)	

Viscometer Rdgs

600	0
300	0
200	0
100	0
6	0
3	0

Solids Control Equipment

Shaker	Screens		Hrs	U/F	O/F
1	230/165/165/120	De-Sander			
2	230/165/165/120	De-Silter			
3		Centrifuge			
4		Centrifuge			
M/C					

Active Products

Materials	Initial	Rec'd	Used	Balance	Cost (US$)
Bentone 910 (50 lb \ sk)	87	0	6	81	420.00
Bulk Tank (50 ton \ ea)	96	0	2	94	100.00
Bulk Tanks Blower (1 \ ea)	30	0	2	28	70.00
Engineering (24 hr) (1 \ ea)	0	0	1	0	500.00
New Bar (Ton \ bulk)	73.14	45.42	24.7	93.86	2,939.30
OBM Lab (1 \ ea)	56	0	1	55	55.00
OptiClean (55 gal \ drum)	8	0	1	7	394.80
OptiMul (55 gal \ drum)	3	0	1	2	680.00
OptiPlus (55 gal \ Drum)	11	0	1	10	810.00
OptiVis (55 gal \ Drum)	2	0	1	1	997.50
OptiWet (55 gal \ drum)	2	0	1	1	845.00

Treatment Recommendations

Last 24 hrs: Have received 500 bbls of 15.4 ppg OBM.
Next 24 hrs: Waiting on delivery of OBM base fluid to blend with the 15.4 ppg mud.

Comments/Remarks

POOH. Racked back drill collars and motor. Picked up a mill tooth bit with no jet nozzles, HWDP and jars and TIH to 3,930 ft at report time.

****Mud check is for the 15.4 ppg mud that was delivered.

Daily Tax (US$)	Trucking (US$)	Daily Cost (US$)	8,250.30
438.70	0.00	Cumulative Cost (US$)	226,931.14

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Newpark Drilling Fluids, L.L.C. — **Mud Report**

Jerry Ard	Evanston WY	
Tel:	Tel:	Tel:
Mbl: (985) 688-1226	Tel:	Tel:
Pgr:	Fax:	Fax:

MudPIT™

Date	10/25/2010	MD (ft)	5,638
Report #	34	TVD (ft)	5,638
Spud Date	09/22/2010	Bit MD (ft)	5,634
API Well #	4302330021	Bit TVD (ft)	5,634
Present Activity		Conditioning Mud	

Operator:	**PIONEER NATURAL RESOURCES**	**Contractor:**	**Nabors 169**
Report For:	**Dean Baker/Derrick Berry**	**Report For:**	**Coby Tuller**

Well Name / No.	Field / Block	Sur - Abs or Sec-T-R	County / Parish	State / Province	Country
SOUTH HILLS FEDERAL # 6-1			JUAB COUNTY	UTAH	USA

Drill String	OD(in)	ID(in)	Length(ft)
Bit & Sub	8.0	2.875	8.97
HWDP	5.0	3	834.84
DP	5.0	4.28	4790.19

Casing	OD(in)	ID(in)	Top(ft)	Bottom(ft)
Surface Casing	13.375	12.41	0.0	4340

Pump and Circulating Data (check box for Riser Boost)

Pump #	1 ☐	2 ☐	3 ☐	Stand Pipe (psi)		593
Liner (in)	6.0	6.0	0.0	Calc P.Loss (psi)		0
Stroke (in)	40.0	10.0	0.0	ECD (ppg)		10.20
stk/min	0	0	0	Pump # 1	Min	Stks
Efficiency (%)	95	95	95	Surf-Bit	0	0
(bbl/stk)	0.332	0.083	0.000	Bott's Up	0	0
(gpm)	0	0	0	Surf-Surf	0	0
Total (gpm)		0		Tot. Circ.	0	0

Bit Data

Bit Size (in)	12.25				
% Washout	10				
Bit Type:	FDS+C				
Bit #:	13				
(1/32 in)	32	32	32	32	
32	32				

Leak Off Test(ppg)	0
TFA (in²)	4.712
Noz-Vel (ft/se)	
Imp-Frc (psi)	
PSI Loss (psi)	
HSI (hp/in²)	
Sys HHP (hp)	
Sys HHP %	

Active Volume (bbl)	
Annulus:	741
Drill String:	93
Pits:	400
Slug Pit:	0
Total Circulating Volume	1,234
Volume Below Bit	1

Storage Volume(bbl)	
Frac Tank #1	500
Frac Tank #2	63
Frac Tank #3	340
Total Storage Volume	903

Volume Reconciliation (bbl)	
Starting Volume	1363
Water Additions	
Oil Additions	
Chemical Additions:	
Barite Additions:	
Whole Mud Add:	
Other Additions	

Total Additions:	0
Hole Losses	200
SCE Losses	
Other Losses	
Total Losses	200
Mud to Storage:	
Ending Volume:	1163

Fluid Type	Oil-based	Fluid Properties
Sample From		Pit
Time Sample Taken		6:00 AM
Depth @ Time of Sample (ft)		5,638
Sample Temperature	(°F)	69
Weight (ppg)		10.2
Funnel Viscosity (sec/qt)		48
Plastic Vis. (cp) @	150 (°F)	13
Yield Point (lbf/100ft²)		18
Gel Strength (10s/10m) (lbf/100ft²)		9 / 8
Gel Strength (30 Min) (lbf/100ft²)		12
HPHT Filtrate @	250 (°F)	4.5
Cake (1/32 in)(API/HPHT)		2.0
Diesel	SG= 0.84	65.0
Water (% by vol)		17.0
Solids (% by vol)		18.0
Electrical Stability (V)		501
Pom (Vsa)	cc's Sample 1.0	5.4
Vsn (0.282N)	cc's Sample 1.0	5.4
Lime Content (lb/bbl)		7.0
Clom (mg/L)		54,000
CaClom (mg/L)		84,510
CaClom (lb/bbl)		30
CaCl (ppm in water phase)		332,050
Oil/Water Ratio		79 / 21
Brine Density (S.G.)		1.31
LGS (% by vol)	SG= 2.60	14.6
LGS (lb/bbl)		133.25
HGS (% by vol)	SG= 4.20	1.0
HGS (lb/bbl)		14.717
Corrected Solids (% by vol)		16
Flowline Temperature		99.4

Hydraulics (ft/min)

Annular Interval	Ann. Vel.	Crit. Vel.
Surface Casing:DP	0.00	306.96
OH:DP	0.00	299.97
OH:HWDP	0.00	299.97
OH:Bit & Sub	0.00	323.44

Operating Data

Avg ROP(ft/hr)	
WOB (Klbs)	
Rotating Weight	
Rotatary Speed	
Rotating Hrs.	
Sliding Hrs.	
Non-Drlg Hrs.	
P/U (lbs)	
S/O (lbs)	
Torque (lbf-ft)	
Angle	
Azimuth	
Surv. Depth(ft)	

Viscometer Rdgs	
600	44
300	31
200	23
100	18
6	9
3	8

Solids Control Equipment

Shaker	Screens		Hrs	U/F	O/F
1	230/165/165/120	De-Sander			
2	230/165/165/120	De-Silter			
3		Centrifuge			
4		Centrifuge			
M/C					

Active Products

Materials	Initial	Rec'd	Used	Balance	Cost (US$)
Bulk Tank (50 ton \ ea)	94	0	2	92	100.00
Bulk Tanks Blower (1 \ ea)	28	0	2	26	70.00
Drum Disposal (1 \ ea)	0	12	0	12	0.00
Engineering (24 hr) (1 \ ea)	0	0	1	0	500.00
OBM Lab (1 \ ea)	55	0	1	54	55.00
OptiMul (55 gal \ drum)	2	8	0	10	0.00
OptiVis (55 gal \ Drum)	1	4	1	4	997.50
Pallets (1 \ ea)	0	5	0	5	0.00
Shrink Wrap (1 \ ea)	0	2	0	2	0.00

Treatment Recommendations

Last 24 hrs: After blending mud to a 10.0 ppg mud wt, added OptiVis and diesel. Pumped 50 bbl, 15 ppg Strata Vanguard sweeps in an attempt to stop downhole losses. At report time, it looks to be successful.

Comments/Remarks

Blended 15.4 ppg OBM with 7.8 ppg Base OBM to make 500 bbls of 10.0 ppg mud. Washed to bottom from 4,340'. Highest mud wt displaced from the hole was 10.9 ppg. Once on bottom, began to condition mud.

Daily Tax (US$)	Trucking (US$)	Daily Cost (US$)	2,717.00
73.35	921.15	Cumulative Cost (US$)	229,648.14

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Newpark Drilling Fluids, L.L.C. — **Mud Report**

Jerry Ard	Evanston WY	
Tel:	Tel:	Tel:
Mbl: (985) 688-1226	Tel:	Tel:
Pgr:	Fax:	Fax:

MudPIT™

Date	10/26/2010	MD (ft)	5,643
Report #	35	TVD (ft)	5,643
Spud Date	09/22/2010	Bit MD (ft)	4,316
API Well #	4302330021	Bit TVD (ft)	4,316
Present Activity		Waiting On Pump Repairs	

Operator:	**PIONEER NATURAL RESOURCES**	**Contractor:**	**Nabors 169**
Report For:	**Dean Baker/Derrick Berry**	**Report For:**	**Coby Tuller**

Well Name / No.	Field / Block	Sur - Abs or Sec-T-R	County / Parish	State / Province	Country
SOUTH HILLS FEDERAL # 6-1			JUAB COUNTY	UTAH	USA

Drill String	OD(in)	ID(in)	Length(ft)
BIT & MOTOR	9.5	3.5	38.42
DC	8.0	2.875	221.12
DC	6.5	2.875	283.21
HWDP	5.0	3	831.27
DP	5.0	4.28	2941.98

Casing	OD(in)	ID(in)	Top(ft)	Bottom(ft)
Surface Casing	13.375	12.41	0.0	4340

Pump and Circulating Data (check box for Riser Boost)

Pump #	1 ☐	2 ☐	3 ☐	Stand Pipe (psi)		593
Liner (in)	6.0	6.0	0.0	Calc P.Loss (psi)		0
Stroke (in)	0.0	10.0	0.0	ECD (ppg)		10.60
stk/min	0	0	0	Pump # 1	Min	Stks
Efficiency (%)	95	95	95	Surf-Bit	0	0
(bbl/stk)	0.000	0.083	0.000	Bott's Up	0	0
(gpm)	0	0	0	Surf-Surf	0	0
Total (gpm)		0		Tot. Circ.	0	0

Bit Data

Bit Size (in)	12.25					
% Washout	10					
Bit Type:	HCD505ZX					
Bit #:	14					
(1/32 in)	22	22	22	22		
22	22	22				

Leak Off Test(ppg)	0
TFA (in²)	2.599
Noz-Vel (ft/se)	
Imp-Frc (psi)	
PSI Loss (psi)	
HSI (hp/in²)	
Sys HHP (hp)	
Sys HHP %	

Active Volume (bbl)	
Annulus:	526
Drill String:	64
Pits:	544
Slug Pit:	0
Total Circulating Volume	1,134
Volume Below Bit	233

Storage Volume(bbl)	
Frac Tank #1	500
Frac Tank #2	63
Frac Tank #3	340
Frac Tank #4	32
Total Storage Volume	935

Volume Reconciliation (bbl)	
Starting Volume	1163
Water Additions	
Oil Additions	
Chemical Additions:	
Barite Additions:	3
Whole Mud Add:	
Other Additions	

Total Additions:	3
Hole Losses	
SCE Losses	
Other Losses	
Total Losses	
Mud to Storage:	32
Ending Volume:	1134

Fluid Type	Oil-based	Fluid Properties			
Sample From		Pit	Pit		
Time Sample Taken		3:00 AM	5:00 PM		
Depth @ Time of Sample (ft)		5,643	5,643		
Sample Temperature (°F)		70	69		
Weight (ppg)		10.6	10.6		
Funnel Viscosity (sec/qt)		50	50		
Plastic Vis. (cp) @ 150 (°F)		16	17		
Yield Point (lbf/100ft²)		16	16		
Gel Strength (10s/10m) (lbf/100ft²)		11 | 10	10 | 9		
Gel Strength (30 Min) (lbf/100ft²)		13	11		
HPHT Filtrate @ 250 (°F)		5.0	5.0		
Cake (1/32 in)(API/HPHT)		2.0	2.0		
Diesel SG= 0.84		65.0	65.0		
Water (% by vol)		17.0	17.0		
Solids (% by vol)		18.0	18.0		
Electrical Stability (V)		722	697		
Pom (Vsa) cc's Sample 1.0		3.6	3.6		
Vsn (0.282N) cc's Sample 1.0		5.4	5.4		
Lime Content (lb/bbl)		4.7	4.7		
Clom (mg/L)		54,000	54,000		
CaClom (mg/L)		84,510	84,510		
CaClom (lb/bbl)		30	30		
CaCl (ppm in water phase)		332,050	332,050		
Oil/Water Ratio		79 | 21	79 | 21		
Brine Density (S.G.)		1.31	1.31		
LGS (% by vol) SG= 2.60		11.6	11.6		
LGS (lb/bbl)		105.988	105.988		
HGS (% by vol) SG= 4.20		4.0	4.0		
HGS (lb/bbl)		58.755	58.755		
Corrected Solids (% by vol)		16	16		

Hydraulics (ft/min)

Annular Interval	Ann. Vel.	Crit. Vel.
Surface Casing:DP	0.00	321.38
Surface Casing:HWDP	0.00	321.38
Surface Casing:DC	0.00	332.06
Surface Casing:DC	0.00	346.39
Surface Casing:BIT &	0.00	367.82

Operating Data

Avg ROP(ft/hr)	
WOB (Klbs)	
Rotating Weight	
Rotatary Speed	
Rotating Hrs.	
Sliding Hrs.	
Non-Drlg Hrs.	
P/U (lbs)	
S/O (lbs)	
Torque (lbf-ft)	
Angle	
Azimuth	
Surv. Depth(ft)	

Viscometer Rdgs

600	48
300	32
200	27
100	17
6	11
3	10

Solids Control Equipment

Shaker	Screens		Hrs	U/F	O/F
1	230/165/165/120	De-Sander			
2	230/165/165/120	De-Silter			
3		Centrifuge			
4		Centrifuge			
M/C					

Active Products

Materials	Initial	Rec'd	Used	Balance	Cost (US$)
Bentone 910 (50 lb \ sk)	81	0	4	77	280.00
Bulk Tank (50 ton \ ea)	92	0	2	90	100.00
Bulk Tanks Blower (1 \ ea)	26	0	2	24	70.00
Engineering (24 hr) (1 \ ea)	0	0	1	0	500.00
Gilsonite HT (50 lb \ sack)	56	0	4	52	142.80
Lime (50 lb \ sx)	442	0	4	438	28.20
New Bar (Ton \ bulk)	93.86	0	1.85	92.01	220.15
OBM Lab (1 \ ea)	54	0	1	53	55.00
OptiMul (55 gal \ drum)	10	0	1	9	680.00
OptiPlus (55 gal \ Drum)	10	0	1	9	810.00
OptiVis (55 gal \ Drum)	4	0	1	3	997.50

Treatment Recommendations

Last 24 hrs: Added Bentone, Gilsonite, Lime, OptiVis, OptiMul, OptiPlus and diesel to bring new mud within prescribed parameters before tripping.
Next 24 hrs: Will determine treatment needed when back on bottom circulating.

Comments/Remarks

Completed conditioning mud. POOH to pick up a new bit and BHA. Picked up new bit, motor and BHA and TIH to 4,310 ft to test motor. Mud pump went down. Working on mud pump at report time.

Daily Tax (US$)	Trucking (US$)	Daily Cost (US$)	4,086.67
203.02	0.00	Cumulative Cost (US$)	233,734.81

The information in this report is based on our experience and represents our best judgment in the matter and is intended to be helpful, but we cannot assume responsibility for any loss or accident that may result from its use. Furthermore, nothing contained herein shell be construed as a recommendation to use any product in conflict with existing patents covering any materials or uses.

Newpark Drilling Fluids, L.L.C. **Mud Report**

Jerry Ard | Evanston WY

Tel: | Tel: | Tel:
Mbl: (985) 688-1226 | Tel: | Tel:
Pgr: | Fax: | Fax:

MudPITTM

Date	10/27/2010	MD (ft)	5,643
Report #	36	TVD (ft)	5,643
Spud Date	09/22/2010	Bit MD (ft)	4,316
API Well #	4302330021	Bit TVD (ft)	4,316
Present Activity		Waiting On Pump Repairs	

Operator:	**PIONEER NATURAL RESOURCES**	**Contractor:**	**Nabors 169**
Report For:	**Dean Baker/Derrick Berry**	**Report For:**	**Coby Tuller**

Well Name / No.	Field / Block	Sur - Abs or Sec-T-R	County / Parish	State / Province	Country
SOUTH HILLS FEDERAL # 6-1			JUAB COUNTY	UTAH	USA

Drill String	OD(in)	ID(in)	Length(ft)
BIT & MOTOR	9.5	3.5	38.42
DC	8.0	2.875	221.12
DC	6.5	2.875	283.21
HWDP	5.0	3	831.27
DP	5.0	4.28	2941.98

Casing	OD(in)	ID(in)	Top(ft)	Bottom(ft)
Surface Casing	13.375	12.41	0.0	4340

Pump and Circulating Data (check box for Riser Boost)

Pump #	1	2	3			
Liner (in)	6.0	6.0	0.0	Stand Pipe (psi)		0
Stroke (in)	0.0	10.0	0.0	Calc P.Loss (psi)		0
stk/min	0	0	0	ECD (ppg)		10.60
Efficiency (%)	95	95	95	Pump # 1	Min	Stks
(bbl/stk)	0.000	0.083	0.000	Surf-Bit	0	0
(gpm)	0	0	0	Bott's Up	0	0
				Surf-Surf	0	0
Total (gpm)		0		Tot. Circ.	0	0

Bit Data					
Bit Size (in)	12.25				
% Washout	10				
Bit Type:	HCD505ZX				
Bit #:	14				
(1/32 in)	22	22	22	22	
22	22	22			

Leak Off Test(ppg)	0
TFA (in²)	2.599
Noz-Vel (ft/se)	
Imp-Frc (psi)	
PSI Loss (psi)	
HSI (hp/in²)	
Sys HHP (hp)	
Sys HHP %	

Active Volume (bbl)		Storage Volume(bbl)	
Annulus:	526	Frac Tank #1	500
Drill String:	64	Frac Tank #2	63
Pits:	0	Frac Tank #3	340
Slug Pit:	0	Frac Tank #4	32
Total Circulating Volume		Total Storage Volume	
590		935	
Volume Below Bit		233	

Volume Reconciliation (bbl)			
Starting Volume	1134	Total Additions:	0
Water Additions		Hole Losses	
Oil Additions		SCE Losses	
Chemical Additions:		Other Losses	
Barite Additions:		Total Losses	
Whole Mud Add:		Mud to Storage:	
Other Additions		Ending Volume:	1134

Fluid Type	Oil-based		Fluid Properties			
Sample From			Pit	Pit		
Time Sample Taken			3:30 AM	4:00 PM		
Depth @ Time of Sample (ft)			5,643	5,643		
Sample Temperature	(°F)		65	67		
Weight (ppg)			10.6	10.6		
Funnel Viscosity (sec/qt)			51	51		
Plastic Vis. (cp) @	150	(°F)	13	14		
Yield Point (lbf/100ft²)			17	17		
Gel Strength (10s/10m) (lbf/100ft²)			10 / 9	11 / 10		
Gel Strength (30 Min) (lbf/100ft²)			12	14		
HPHT Filtrate @	250	(°F)	5.0	5.0		
Cake (1/32 in)(API/HPHT)			2.0	2.0		
Diesel	SG=	0.84	65.0	65.0		
Water (% by vol)			17.0	17.0		
Solids (% by vol)			18.0	18.0		
Electrical Stability (V)			665	720		
Pom (Vsa)	cc's Sample	1.0	3.4	3.5		
Vsn (0.282N)	cc's Sample	1.0	5.3	5.4		
Lime Content (lb/bbl)			4.4	4.5		
Clom (mg/L)			53,000	54,000		
CaClom (mg/L)			82,945	84,510		
CaClom (lb/bbl)			29	30		
CaCl (ppm in water phase)			327,917	332,050		
Oil/Water Ratio			79 / 21	79 / 21		
Brine Density (S.G.)			1.31	1.31		
LGS (% by vol)	SG=	2.60	11.7	11.6		
LGS (lb/bbl)			106.318	105.988		
HGS (% by vol)	SG=	4.20	4.0	4.0		
HGS (lb/bbl)			58.973	58.755		
Corrected Solids (% by vol)			16	16		

Hydraulics (ft/min)

Annular Interval	Ann. Vel.	Crit. Vel.
Surface Casing:DP	0.00	0.00
Surface Casing:HWDP	0.00	0.00
Surface Casing:DC	0.00	0.00
Surface Casing:DC	0.00	0.00
Surface Casing:BIT &	0.00	0.00

Operating Data

Avg ROP(ft/hr)	
WOB (Klbs)	
Rotating Weight	
Rotatary Speed	
Rotating Hrs.	
Sliding Hrs.	
Non-Drlg Hrs.	
P/U (lbs)	
S/O (lbs)	
Torque (lbf-ft)	
Angle	
Azimuth	
Surv. Depth(ft)	

Viscometer Rdgs		Shaker	Screens	Solids Control Equipment	Hrs	U/F	O/F
600	0						
300	0	1	230/165/165/120	De-Sander			
200	0	2	230/165/165/120	De-Silter			
100	0	3		Centrifuge			
6	0	4		Centrifuge			
3	0	M/C					

Active Products

Materials	Initial	Rec'd	Used	Balance	Cost (US$)
Bulk Tank (50 ton \ ea)	90	0	2	88	100.00
Bulk Tanks Blower (1 \ ea)	24	0	2	22	70.00
Drum Disposal (1 \ ea)	12	8	20	0	600.00
Engineering (24 hr) (1 \ ea)	0	0	1	0	500.00
OBM Lab (1 \ ea)	53	0	1	52	55.00
OptiWet (55 gal \ drum)	1	8	0	9	0.00
Pallets (1 \ ea)	5	7	12	0	216.00
Salt (Evaporated)-C (50 lb \ sk)	0	147	0	147	0.00
Sawdust (20# \ sk)	295	150	0	445	0.00
Shrink Wrap (1 \ ea)	2	5	7	0	84.00

Treatment Recommendations

Last 24 hrs: None
Next 24 hrs: Will determine treatment needed when back on bottom circulating.

Comments/Remarks

Still waiting on mud pump repairs.

****Trucking charges from DT EVA2418

Daily Tax (US$)	Trucking (US$)	Daily Cost (US$)	2,613.65
67.50	921.15	Cumulative Cost (US$)	236,348.46

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Newpark Drilling Fluids, L.L.C. — **Mud Report**

Jerry Ard	Evanston WY	
Tel:	Tel:	Tel:
Mbl: (985) 688-1226	Tel:	Tel:
Pgr:	Fax:	Fax:

MudPIT™

Date	10/29/2010	MD (ft)	5,739
Report #	37	TVD (ft)	5,739
Spud Date	09/22/2010	Bit MD (ft)	5,739
API Well #	4302330021	Bit TVD (ft)	5,739
Present Activity		Drilling Ahead	

Operator:	**PIONEER NATURAL RESOURCES**	**Contractor:**	**Nabors 169**
Report For:	**Dean Baker/Derrick Berry**	**Report For:**	**Coby Tuller**

Well Name / No.	Field / Block	Sur - Abs or Sec-T-R	County / Parish	State / Province	Country
SOUTH HILLS FEDERAL # 6-1			JUAB COUNTY	UTAH	USA

Drill String	OD(in)	ID(in)	Length(ft)
BIT & MOTOR	9.5	3.5	38.42
DC	8.0	2.875	221.12
DC	6.5	2.875	283.21
HWDP	5.0	3	831.27
DP	5.0	4.28	4364.98

Casing	OD(in)	ID(in)	Top(ft)	Bottom(ft)
Surface Casing	13.375	12.41	0.0	4340

Pump and Circulating Data (check box for Riser Boost)

Pump #	1 ☐	2 ☐	3 ☐	Stand Pipe (psi)		2,226
Liner (in)	6.0	6.0	0.0	Calc P.Loss (psi)		1,025
Stroke (in)	10.0	10.0	0.0	ECD (ppg)		10.14
stk/min	180	0	0	Pump # 1	Min	Stks
Efficiency (%)	95	95	95	Surf-Bit	6	1,077
(bbl/stk)	0.083	0.083	0.000	Bott's Up	50	8,930
(gpm)	628	0	0	Surf-Surf	56	10,007
Total (gpm)		628		Tot. Circ.	78	14,004

Bit Data

Bit Size (in)	12.25					
% Washout	10					
Bit Type:	HCD505ZX					
Bit #:	14					
(1/32 in)	22	22	22	22		
22	22	22				

Leak Off Test(ppg)	0		
TFA (in²)	2.599		
Noz-Vel (ft/se)	77.321		
Imp-Frc (psi)	251		
PSI Loss (psi)	53.652		
HSI (hp/in²)	0.166		
Sys HHP (hp)	815.47		
Sys HHP %	2.41		

Active Volume (bbl)		Storage Volume(bbl)	
Annulus:	742	FT #1 15.4	500
Drill String:	89	FT #2 7.8	63
Pits:	332	FT #3 7.8	340
Slug Pit:	0	FT #4 15.4	142
Total Circulating Volume	1,163	Total Storage Volume	1,045
Volume Below Bit		0	

Volume Reconciliation (bbl)			
Starting Volume	1134	Total Additions:	117
Water Additions		Hole Losses	24
Oil Additions	24	SCE Losses	64
Chemical Additions:		Other Losses	
Barite Additions:	33	Total Losses	88
Whole Mud Add:	60	Mud to Storage:	
Other Additions		Ending Volume:	1163

Fluid Type	Oil-based	Fluid Properties			
Sample From		Pit	Pit		
Time Sample Taken		3:30 AM	5:00 PM		
Depth @ Time of Sample (ft)		5,789	5,646		
Sample Temperature (°F)		98	70		
Weight (ppg)		10.0	10.6		
Funnel Viscosity (sec/qt)		48	51		
Plastic Vis. (cp) @ 150 (°F)		12	14		
Yield Point (lbf/100ft²)		12	17		
Gel Strength (10s/10m) (lbf/100ft²)		9 / 8	11 / 10		
Gel Strength (30 Min) (lbf/100ft²)		10	13		
HPHT Filtrate @ 250 (°F)		5.0	5.2		
Cake (1/32 in)(API/HPHT)		2.0	2.0		
Diesel SG= 0.84		69.0	68.0		
Water (% by vol)		17.0	17.0		
Solids (% by vol)		14.0	15.0		
Electrical Stability (V)		744	681		
Pom (Vsa) cc's Sample 1.0		3.1	3.1		
Vsn (0.282N) cc's Sample 1.0		5.0	5.0		
Lime Content (lb/bbl)		4.0	4.0		
Clom (mg/L)		50,000	50,000		
CaClom (mg/L)		78,250	78,250		
CaClom (lb/bbl)		27	27		
CaCl (ppm in water phase)		315,206	315,206		
Oil/Water Ratio		80 / 20	80 / 20		
Brine Density (S.G.)		1.3	1.3		
LGS (% by vol) SG= 2.60		7.9	5.5		
LGS (lb/bbl)		71.692	49.918		
HGS (% by vol) SG= 4.20		4.0	7.4		
HGS (lb/bbl)		58.338	108.212		
Corrected Solids (% by vol)		12	13		
Flowline Temperature		114.6	84.6		

Hydraulics (ft/min)

Annular Interval	Ann. Vel.	Crit. Vel.
Surface Casing:DP	119.04	286.65
OH:DP	98.17	281.51
OH:HWDP	98.17	281.51
OH:DC	110.33	289.03
OH:DC	130.74	298.67
OH:BIT & MOTOR	168.31	311.90

Operating Data

Avg ROP(ft/hr)	12.2
WOB (Klbs)	33
Rotating Weight	
Rotatary Speed	
Rotating Hrs.	
Sliding Hrs.	
Non-Drlg Hrs.	
P/U (lbs)	
S/O (lbs)	
Torque (lbf-ft)	
Angle	
Azimuth	
Surv. Depth(ft)	

Viscometer Rdgs		Solids Control Equipment					
600	36	Shaker	Screens		Hrs	U/F	O/F
300	24	1	230/165/165/120	De-Sander			
200	19	2	230/165/165/120	De-Silter	12.0		
100	15	3		Centrifuge	12.0		
6	9	4		Centrifuge	12.0		
3	8	M/C			12.0		

Active Products

Materials	Initial	Rec'd	Used	Balance	Cost (US$)
Bentone 910 (50 lb \ sk)	77	0	20	57	1,400.00
Bulk Tank (50 ton \ ea)	88	0	2	86	100.00
Bulk Tanks Blower (1 \ ea)	22	0	2	20	70.00
Engineering (24 hr) (1 \ ea)	0	0	1	0	500.00
Lime (50 lb \ sx)	438	0	38	400	267.90
New Bar (Ton \ bulk)	92.01	0	24.1	67.91	2,867.90
OBM Lab (1 \ ea)	52	0	1	51	55.00
Sawdust (20# \ sk)	445	0	12	433	64.44
StrataVanguard M (50 lb \ sk)	100	0	30	70	6,300.00

Treatment Recommendations

Last 24 hrs: Pumped Strata Vanguard Sweeps for downhole losses. Added Bentone, Lime, OptiVis, OptiPlus, OptiMul and diesel. Added whole base OBM to bring down mud wt.
Next 24 hrs: Will continue with same treatment

Comments/Remarks

Completed pump repairs. Completed TIH and drilled ahead.

****Barite charges were for 10/22. Charges were not added to inventory on that day.

Daily Tax (US$)	Trucking (US$)	Daily Cost (US$)	12,292.75
667.51	0.00	Cumulative Cost (US$)	248,641.22

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Newpark Drilling Fluids, L.L.C. — **Mud Report**

Jerry Ard	**Evanston WY**	
Tel:	Tel:	Tel:
Mbl: (985) 688-1226	Tel:	Tel:
Pgr:	Fax:	Fax:

MudPIT™

Date	10/29/2010	MD (ft)	5,906
Report #	38	TVD (ft)	5,906
Spud Date	09/22/2010	Bit MD (ft)	5,906
API Well #	4302330021	Bit TVD (ft)	5,906
Present Activity		Drilling Ahead	

Operator:	**PIONEER NATURAL RESOURCES**	**Contractor:**	**Nabors 169**
Report For:	**Dean Baker/Derrick Berry**	**Report For:**	**Coby Tuller**

Well Name / No.	Field / Block	Sur - Abs or Sec-T-R	County / Parish	State / Province	Country
SOUTH HILLS FEDERAL # 6-1			JUAB COUNTY	UTAH	USA

Drill String	OD(in)	ID(in)	Length(ft)
BIT & MOTOR	9.5	3.5	38.42
DC	8.0	2.875	221.12
DC	6.5	2.875	283.21
HWDP	5.0	3	831.27
DP	5.0	4.28	4531.98

Casing	OD(in)	ID(in)	Top(ft)	Bottom(ft)
Surface Casing	13.375	12.41	0.0	4340

Pump and Circulating Data (check box for Riser Boost)

	Pump 1 ☐	Pump 2 ☐	Pump 3 ☐			
Pump #				Stand Pipe (psi)		2,188
Liner (in)	6.0	6.0	0.0	Calc P.Loss (psi)		968
Stroke (in)	10.0	10.0	0.0	ECD (ppg)		9.95
stk/min	180	0	0	Pump # 1	Min	Stks
Efficiency (%)	95	95	95	Surf-Bit	6	1,113
(bbl/stk)	0.083	0.083	0.000	Bott's Up	51	9,235
(gpm)	628	0	0	Surf-Surf	57	10,348
Total (gpm)		628		Tot. Circ.	87	15,742

Bit Data

Bit Size (in)	12.25				
% Washout	10				
Bit Type:	HCD505ZX				
Bit #:	14				
(1/32 in)	22	22	22	22	
22	22	22			

Leak Off Test(ppg)	0
TFA (in²)	2.599
Noz-Vel (ft/se)	77.321
Imp-Frc (psi)	246
PSI Loss (psi)	52.579
HSI (hp/in²)	0.163
Sys HHP (hp)	801.55
Sys HHP %	2.403

Active Volume (bbl)	
Annulus:	767
Drill String:	92
Pits:	448
Slug Pit:	0
Total Circulating Volume	1,307
Volume Below Bit	0

Storage Volume(bbl)	
FT #1 15.4	402
FT #2 13.2	28
FT #3 7.8	9
FT #4 10.8	49
Total Storage Volume	488

Volume Reconciliation (bbl)			
Starting Volume	1163	Total Additions:	205
Water Additions		Hole Losses	98
Oil Additions	25	SCE Losses	73
Chemical Additions:		Other Losses	
Barite Additions:		Total Losses	171
Whole Mud Add:	180	Mud to Storage:	
Other Additions		Ending Volume:	1197

Fluid Type	Oil-based	Fluid Properties			
Sample From		Pit	Pit		
Time Sample Taken		3:30 AM	4:00 PM		
Depth @ Time of Sample (ft)		5,906	5,829		
Sample Temperature (°F)		102	101		
Weight (ppg)		9.8	9.6		
Funnel Viscosity (sec/qt)		42	41		
Plastic Vis. (cp) @ 150 (°F)		11	12		
Yield Point (lbf/100ft²)		14	14		
Gel Strength (10s/10m) (lbf/100ft²)		10 / 12	11 / 12		
Gel Strength (30 Min) (lbf/100ft²)		14	14		
HPHT Filtrate @ 250 (°F)		5.0	5.0		
Cake (1/32 in)(API/HPHT)		2.0	2.0		
Diesel SG= 0.84		70.0	69.0		
Water (% by vol)		17.0	17.0		
Solids (% by vol)		13.0	14.0		
Electrical Stability (V)		740	754		
Pom (Vsa) cc's Sample 1.0		3.1	3.2		
Vsn (0.282N) cc's Sample 1.0		5.0	5.0		
Lime Content (lb/bbl)		4.0	4.1		
Clom (mg/L)		50,000	50,000		
CaClom (mg/L)		78,250	78,250		
CaClom (lb/bbl)		27	27		
CaCl (ppm in water phase)		315,206	315,206		
Oil/Water Ratio		80 / 20	80 / 20		
Brine Density (S.G.)		1.3	1.3		
LGS (% by vol) SG= 2.60		7.3	10.9		
LGS (lb/bbl)		66.204	98.954		
HGS (% by vol) SG= 4.20		3.6	1.0		
HGS (lb/bbl)		52.503	14.3		
Corrected Solids (% by vol)		11	12		
Flowline Temperature		128.4	129.1		

Hydraulics (ft/min)

Annular Interval	Ann. Vel.	Crit. Vel.
Surface Casing:DP	119.04	302.50
OH:DP	98.17	297.50
OH:HWDP	98.17	297.50
OH:DC	110.33	304.82
OH:DC	130.74	314.17
OH:BIT & MOTOR	168.31	326.97

Operating Data

Avg ROP(ft/hr)	7.0
WOB (Klbs)	27
Rotating Weight	
Rotatary Speed	
Rotating Hrs.	
Sliding Hrs.	
Non-Drlg Hrs.	
P/U (lbs)	
S/O (lbs)	
Torque (lbf-ft)	
Angle	
Azimuth	
Surv. Depth(ft)	

Viscometer Rdgs

600	36
300	25
200	21
100	16
6	10
3	9

Solids Control Equipment

Shaker	Screens		Hrs	U/F	O/F
1	230/165/165/120	De-Sander			
2	230/165/165/120	De-Silter	24.0		
3		Centrifuge	12.0		
4		Centrifuge	12.0		
M/C			24.0		

Active Products

Materials	Initial	Rec'd	Used	Balance	Cost (US$)
Bentone 910 (50 lb \ sk)	57	0	21	36	1,470.00
Bulk Tank (50 ton \ ea)	86	0	2	84	100.00
Bulk Tanks Blower (1 \ ea)	20	0	2	18	70.00
Dyna Fiber Cor (25 # \ sk)	230	0	19	211	376.20
Engineering (24 hr) (1 \ ea)	0	0	1	0	500.00
Gilsonite HT (50 lb \ sack)	52	0	2	50	71.40
Lime (50 lb \ sx)	400	0	32	368	225.60
New Bar (Sack) (100 lb \ sk)	382	0	34	348	283.56
NewPHPA (5 Gal \ Pail)	11	0	5	6	400.00
OBM Lab (1 \ ea)	51	0	1	50	55.00
OptiMul (55 gal \ drum)	9	0	2	7	1,360.00
OptiPlus (55 gal \ Drum)	9	0	2	7	1,620.00
OptiVis (55 gal \ Drum)	3	0	2	1	1,995.00
Pallets (1 \ ea)	-23	6	0	-17	0.00
Sawdust (20# \ sk)	433	0	3	430	16.11
Shrink Wrap (1 \ ea)	0	6	0	6	0.00
StrataVanguard M (50 lb \ sk)	70	280	65	285	13,650.00
Walnut Shell M (50 lb \ sk)	249	0	9	240	207.00

Treatment Recommendations

Last 24 hrs: Added base fluid, Bentone, Lime, Gilsonite, OptiMul, OptiPlus, OptiVis and diesel.
Pumped 25 bbl, 10 ppb StrataVanguard sweeps as needed.
Next 24 hrs: Will continue with same treatment and will continue to pump sweeps as needed.

Comments/Remarks

Drilled ahead to 5,906 ft at report time.

****Trucking charges for DT's EVA2428, EVA2427, EVA2429, 58534, 58542, 58544, 58546.

Daily Tax (US$)	Trucking (US$)	Daily Cost (US$)	30,978.94
1,313.99	7,265.08	Cumulative Cost (US$)	279,620.16

The information in this report is based on our experience and represents our best judgment in the matter and is intended to be helpful, but we cannot assume responsibility for any loss or accident that may result from its use. Furthermore, nothing contained herein shell be construed as a recommendation to use any product in conflict with existing patents covering any materials or uses.

Newpark Drilling Fluids, L.L.C. — **Mud Report**

Jerry Ard	Evanston WY	
Tel:	Tel:	Tel:
Mbl: (985) 688-1226	Tel:	Tel:
Pgr:	Fax:	Fax:

MudPIT™

Date	11/01/2010	MD (ft)	5,960
Report #	41	TVD (ft)	5,960
Spud Date	09/22/2010	Bit MD (ft)	5,101
API Well #	4302330021	Bit TVD (ft)	5,101
Present Activity		Trip To Bottom	

Operator:	**PIONEER NATURAL RESOURCES**	**Contractor:**	**Nabors 169**
Report For:	**Dean Baker/Derrick Berry**	**Report For:**	**Coby Tuller**

Well Name / No.	Field / Block	Sur - Abs or Sec-T-R	County / Parish	State / Province	Country
SOUTH HILLS FEDERAL # 6-1			JUAB COUNTY	UTAH	USA

Drill String	OD(in)	ID(in)	Length(ft)
BIT & MOTOR	9.5	3.5	38.42
DC	8.0	2.875	221.12
DC	6.5	2.875	283.21
HWDP	5.0	3	831.27
DP	5.0	4.28	3726.98

Casing	OD(in)	ID(in)	Top(ft)	Bottom(ft)
Surface Casing	13.375	12.41	0.0	4340

Pump and Circulating Data (check box for Riser Boost)

	Pump # 1 ☐	2 ☐	3 ☐			
Liner (in)	6.0	6.0	0.0	Stand Pipe (psi)		2,298
Stroke (in)	10.0	10.0	0.0	Calc P.Loss (psi)		331
stk/min	96	0	0	ECD (ppg)		9.11
Efficiency (%)	95	95	95	Pump # 1	Min	Stks
(bbl/stk)	0.083	0.083	0.000	Surf-Bit	10	940
(gpm)	335	0	0	Bott's Up	81	7,761
Total (gpm)		335		Surf-Surf	91	8,701
				Tot. Circ.	167	16,058

Bit Data		Leak Off Test(ppg)	0
Bit Size (in)	12.25	TFA (in²)	2.227
% Washout	10	Noz-Vel (ft/se)	48.111
Bit Type:	HCD505ZX	Imp-Frc (psi)	75
Bit #:	14	PSI Loss (psi)	18.695
(1/32 in)	22 22 22 22	HSI (hp/in²)	0.031
22 22		Sys HHP (hp)	448.98
		Sys HHP %	0.814

Active Volume (bbl)		Storage Volume(bbl)	
Annulus:	645	FT #1 15.4	402
Drill String:	78	FT #2 9.6	230
Pits:	611	FT #3 7.8	435
Slug Pit:	17	FT #4 10.8	385
Total Circulating Volume	1,334	Total Storage Volume	1,452
Volume Below Bit			152

Volume Reconciliation (bbl)			
Starting Volume	1202	Total Additions:	200
Water Additions		Hole Losses	399
Oil Additions		SCE Losses	12
Chemical Additions:		Other Losses	
Barite Additions:		Total Losses	411
Whole Mud Add:	200	Mud to Storage:	150
Other Additions		Ending Volume:	841

Fluid Type	Oil-based	Fluid Properties	
Sample From		Pit	Pit
Time Sample Taken		3:30 AM	4:00 PM
Depth @ Time of Sample (ft)		5,960	5,960
Sample Temperature	(°F)	81	78
Weight (ppg)		9.0	9.1
Funnel Viscosity (sec/qt)		46	43
Plastic Vis. (cp) @	150 (°F)	11	10
Yield Point (lbf/100ft²)		16	14
Gel Strength (10s/10m) (lbf/100ft²)		9 10	9 11
Gel Strength (30 Min) (lbf/100ft²)		12	12
HPHT Filtrate @	250 (°F)	5.5	5.5
Cake (1/32 in)(API/HPHT)		2.0	2.0
Diesel	SG= 0.84	72.0	72.0
Water (% by vol)		18.0	18.0
Solids (% by vol)		10.0	10.0
Electrical Stability (V)		665	689
Pom (Vsa)	cc's Sample 1.0	3.0	3.0
Vsn (0.282N)	cc's Sample 1.0	5.2	5.2
Lime Content (lb/bbl)		3.9	3.9
Clom (mg/L)		52,000	52,000
CaClom (mg/L)		81,380	81,380
CaClom (lb/bbl)		28	28
CaCl (ppm in water phase)		311,347	311,347
Oil/Water Ratio		80 20	80 20
Brine Density (S.G.)		1.29	1.29
LGS (% by vol)	SG= 2.60	7.1	6.3
LGS (lb/bbl)		64.172	57.357
HGS (% by vol)	SG= 4.20	0.7	1.5
HGS (lb/bbl)		10.517	21.526
Corrected Solids (% by vol)		8	8
Flowline Temperature		94.4	

Hydraulics (ft/min)			Operating Data
Annular Interval	Ann. Vel.	Crit. Vel.	Avg ROP(ft/hr)
Surface Casing:DP	63.49	315.94	WOB (Klbs)
Surface Casing:HWDP	63.49	315.94	Rotating Weight
OH:HWDP	52.36	309.59	Rotatary Speed
OH:DC	58.84	318.90	Rotating Hrs.
OH:DC	69.72	330.87	Sliding Hrs.
OH:BIT & MOTOR	89.77	347.39	Non-Drlg Hrs.
			P/U (lbs)
			S/O (lbs)
			Torque (lbf-ft)
			Angle
			Azimuth
			Surv. Depth(ft)

Viscometer Rdgs		Solids Control Equipment					
600	38	Shaker	Screens		Hrs	U/F	O/F
300	27	1	270/230/200/165	De-Sander	8.0		
200	20	2	270/230/200/165	De-Silter			
100	16	3		Centrifuge	8.0		
6	9	4		Centrifuge	8.0		
3	8	M/C			8.0		

Active Products

Materials	Initial	Rec'd	Used	Balance	Cost (US$)
Bulk Tank (50 ton \ ea)	80	0	2	78	100.00
Bulk Tanks Blower (1 \ ea)	14	0	2	12	70.00
Engineering (24 hr) (1 \ ea)	0	0	1	0	500.00
New Bar (Ton \ bulk)	62.54	23.13	0	85.67	0.00
New Carb Cor (50 lb \ sk)	0	84	0	84	0.00
OBM Lab (1 \ ea)	48	0	1	47	55.00
Pallets (1 \ ea)	0	8	0	8	0.00
Shrink Wrap (1 \ ea)	0	8	0	8	0.00

Treatment Recommendations

Last 24 hrs: No treatment
Next 24 hrs: Will add Bentone, Lime, OptiMul and diesel. Will pump LCM sweeps when necessary. Will add barite as needed to maintain mud wt.

Comments/Remarks

TIH to 1,399 ft. Started pumps to fill pipe. Began taking heavy downhole losses. Waited at that depth and let the hole heal itself. TIH to shoe and waited to see if hole was going to hold steady. TIH to 5,470 ft and tagged up. Washed through obstruction without problem. Washing to bottom at report time.

Screened up on shakers to 270/230/200/165.
****Trucking charges are for DT EVA2435 and for delivery of 400 bbls of 7.8 ppg OptiDrill on 10/19/10 by Longhorn Trucking. Newpark has 3rd partied those charges.

Daily Tax (US$)	Trucking (US$)	Daily Cost (US$)	10,019.65
13.50	9,281.15	Cumulative Cost (US$)	313,918.05

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Newpark Drilling Fluids, L.L.C. — **Mud Report**

Jerry Ard	**Evanston WY**	
Tel:	Tel:	Tel:
Mbl: (985) 688-1226	Tel:	Tel:
Pgr:	Fax:	Fax:

MudPIT™

Date	11/03/2010	MD (ft)	5,962
Report #	42	TVD (ft)	5,962
Spud Date	09/22/2010	Bit MD (ft)	5,962
API Well #	4302330021	Bit TVD (ft)	5,962
Present Activity		Drilling Ahead	

Operator:	**PIONEER NATURAL RESOURCES**	**Contractor:**	**Nabors 169**
Report For:	**Dean Baker/Derrick Berry**	**Report For:**	**Rod Flynn**

Well Name / No.	Field / Block	Sur - Abs or Sec-T-R	County / Parish	State / Province	Country
SOUTH HILLS FEDERAL # 6-1			JUAB COUNTY	UTAH	USA

Drill String	OD(in)	ID(in)	Length(ft)
DC	8.0	2.875	153.83
DC	6.5	2.875	283.22
HWDP	5.0	3	831.27
DP	5.0	4.28	4693.68

Casing	OD(in)	ID(in)	Top(ft)	Bottom(ft)
Surface Casing	13.375	12.41	0.0	4340

Pump and Circulating Data (check box for Riser Boost)

Pump #	1 ☐	2 ☐	3 ☐	Stand Pipe (psi)		2,298
Liner (in)	6.0	6.0	0.0	Calc P.Loss (psi)		677
Stroke (in)	10.0	10.0	0.0	ECD (ppg)		9.34
stk/min	140	0	0	Pump # 1	Min	Stks
Efficiency (%)	95	95	95	Surf-Bit	8	1,135
(bbl/stk)	0.083	0.083	0.000	Bott's Up	67	9,398
(gpm)	488	0	0	Surf-Surf	75	10,533
Total (gpm)		488		Tot. Circ.	118	16,577

Bit Data

Bit Size (in)	12.25				
% Washout	10				
Bit Type:	HCD505ZX				
Bit #:	16				
(1/32 in)	22	22	22	22	
22	22				

Leak Off Test(ppg)	0
TFA (in²)	2.227
Noz-Vel (ft/se)	70.162
Imp-Frc (psi)	163
PSI Loss (psi)	40.643
HSI (hp/in²)	0.098
Sys HHP (hp)	654.77
Sys HHP %	1.769

Active Volume (bbl)		Storage Volume(bbl)	
Annulus:	781	FT #1 15.4	402
Drill String:	94	FT #2 9.6	230
Pits:	502	FT #3 7.8	435
Slug Pit:	31	FT #4 10.8	385
Total Circulating Volume	1,377	Total Storage Volume	1,452
Volume Below Bit			0

Volume Reconciliation (bbl)			
Starting Volume	841	Total Additions:	539
Water Additions		Hole Losses	
Oil Additions		SCE Losses	
Chemical Additions:		Other Losses	
Barite Additions:	3	Total Losses	
Whole Mud Add:		Mud to Storage:	
Other Additions	536	Ending Volume:	1380

Fluid Type	Oil-based	Fluid Properties			
Sample From		Pit	Pit		
Time Sample Taken		3:30 AM	4:00 PM		
Depth @ Time of Sample (ft)		5,962	5,962		
Sample Temperature (°F)		63	82		
Weight (ppg)		9.2	9.1		
Funnel Viscosity (sec/qt)		43	43		
Plastic Vis. (cp) @ 150 (°F)		13	11		
Yield Point (lbf/100ft²)		13	12		
Gel Strength (10s/10m) (lbf/100ft²)		10 / 12	10 / 11		
Gel Strength (30 Min) (lbf/100ft²)		15	14		
HPHT Filtrate @ 250 (°F)		5.0	5.0		
Cake (1/32 in)(API/HPHT)		2.0	2.0		
Diesel SG= 0.84		72.0	72.0		
Water (% by vol)		16.0	17.0		
Solids (% by vol)		12.0	11.0		
Electrical Stability (V)		651	681		
Pom (Vsa) cc's Sample 1.0		3.0	3.1		
Vsn (0.282N) cc's Sample 1.0		5.2	5.2		
Lime Content (lb/bbl)		3.9	4.0		
Clom (mg/L)		52,000	52,000		
CaClom (mg/L)		81,380	81,380		
CaClom (lb/bbl)		28	28		
CaCl (ppm in water phase)		337,145	323,733		
Oil/Water Ratio		82 / 18	81 / 19		
Brine Density (S.G.)		1.32	1.31		
LGS (% by vol) SG= 2.60		9.4	8.2		
LGS (lb/bbl)		85.862	75.044		
HGS (% by vol) SG= 4.20		0.3	0.5		
HGS (lb/bbl)		4.215	7.34		
Corrected Solids (% by vol)		10	9		
Flowline Temperature		94.4			

Hydraulics (ft/min)

Annular Interval	Ann. Vel.	Crit. Vel.
Surface Casing:DP	92.58	317.43
OH:DP	76.36	311.96
OH:HWDP	76.36	311.96
OH:DC	85.81	319.97
OH:DC	101.68	330.22

Operating Data

Avg ROP(ft/hr)	16.0
WOB (Klbs)	19
Rotating Weight	
Rotatary Speed	
Rotating Hrs.	
Sliding Hrs.	
Non-Drlg Hrs.	
P/U (lbs)	
S/O (lbs)	
Torque (lbf-ft)	
Angle	
Azimuth	
Surv. Depth(ft)	

Viscometer Rdgs		Solids Control Equipment					
600	39	Shaker	Screens		Hrs	U/F	O/F
300	26	1	270/230/200/165	De-Sander	8.0		
200	20	2	270/230/200/165	De-Silter			
100	16	3		Centrifuge	8.0		
6	10	4		Centrifuge	8.0		
3	9	M/C			8.0		

Active Products

Materials	Initial	Rec'd	Used	Balance	Cost (US$)
Bulk Tank (50 ton \ ea)	78	0	2	76	100.00
Bulk Tanks Blower (1 \ ea)	12	0	2	10	70.00
Engineering (24 hr) (1 \ ea)	0	0	1	0	500.00
New Bar (Ton \ bulk)	85.67	0	2.25	83.42	267.75
OBM Lab (1 \ ea)	47	0	1	46	55.00
OptiDrill OBM (1 bbl \ bulk)	0	4741	2427	2314	318,446.67

Treatment Recommendations

Last 24 hrs: Set 60 bbl, 15 ppb LCM pill on bottom before pulling out of the hole.
Next 24 hrs: Pill pump 35 bbl, 35 ppb LCM sweeps as needed. Trying different combinations of LCM to determine the most effective mix. Will add Bentone, Lime, Gilsonite and diesel. Will add barite as needed to maintain mud wt.

Comments/Remarks

Completed washing to bottom. Drilled ahead to 5,962 ft. Set a 60 bbl, 15 ppb LCM pill on bottom, pumped a slug and POOH. Picked up bit and dumb iron BHA and TIH. Drilled ahead to 5,985 ft at report time. Presently loosing ~30 bph downhole.

Daily Tax (US$)	Trucking (US$)	Daily Cost (US$)	338,575.78
19,136.36	0.00	Cumulative Cost (US$)	652,493.84

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Newpark Drilling Fluids, L.L.C. — **Mud Report**

Jerry Ard	Evanston WY	
Tel:	Tel:	Tel:
Mbl: (985) 688-1226	Tel:	Tel:
Pgr:	Fax:	Fax:

MudPIT™

Date	11/03/2010	MD (ft)	6,022
Report #	43	TVD (ft)	6,022
Spud Date	09/22/2010	Bit MD (ft)	6,022
API Well #	4302330021	Bit TVD (ft)	6,022
Present Activity		Drilling Ahead	

Operator:	**PIONEER NATURAL RESOURCES**	**Contractor:**	**Nabors 169**
Report For:	**Noah Dupuis/Bill Vigil**	**Report For:**	**Rod Flynn**

Well Name / No.	Field / Block	Sur - Abs or Sec-T-R	County / Parish	State / Province	Country
SOUTH HILLS FEDERAL # 6-1			JUAB COUNTY	UTAH	USA

Drill String	OD(in)	ID(in)	Length(ft)
DC	8.0	2.875	153.83
DC	6.5	2.875	283.22
HWDP	5.0	3	831.27
DP	5.0	4.28	4753.68

Casing	OD(in)	ID(in)	Top(ft)	Bottom(ft)
Surface Casing	13.375	12.41	0.0	4340

Pump and Circulating Data (check box for Riser Boost)

Pump #	1 ☐	2 ☐	3 ☐	Stand Pipe (psi)		1,706
Liner (in)	6.0	6.0	0.0	Calc P.Loss (psi)		861
Stroke (in)	10.0	10.0	0.0	ECD (ppg)		9.27
stk/min	170	0	0	Pump # 1	Min	Stks
Efficiency (%)	95	95	95	Surf-Bit	7	1,148
(bbl/stk)	0.083	0.083	0.000	Bott's Up	56	9,508
(gpm)	593	0	0	Surf-Surf	63	10,656
Total (gpm)		593		Tot. Circ.	95	16,219

Bit Data												Leak Off Test(ppg)	0
Bit Size (in)	12.25											TFA (in²)	2.227
% Washout	10											Noz-Vel (ft/se)	85.197
Bit Type:	HCD505ZX											Imp-Frc (psi)	238
Bit #:	16											PSI Loss (psi)	59.276
(1/32 in)	22	22	22	22								HSI (hp/in²)	0.174
22	22											Sys HHP (hp)	590.25
												Sys HHP %	3.475

Active Volume (bbl)		Storage Volume(bbl)		Volume Reconciliation (bbl)			
Annulus:	790	FT #1 15.4	410	Starting Volume	1377	Total Additions:	300
Drill String:	95	FT #2 9.6	225	Water Additions		Hole Losses	302
Pits:	462	FT #3 7.8	375	Oil Additions		SCE Losses	28
Slug Pit:	65	FT #4 7.8	380	Chemical Additions:		Other Losses	
Total Circulating Volume		Total Storage Volume		Barite Additions:		Total Losses	330
1,347		1,390		Whole Mud Add:	300	Mud to Storage:	
Volume Below Bit		0		Other Additions		Ending Volume:	1347

Fluid Type	Oil-based	Fluid Properties			
Sample From		Pit	Pit		
Time Sample Taken		3:30 AM	4:00 PM		
Depth @ Time of Sample (ft)		6,022	6,003		
Sample Temperature (°F)		91	94		
Weight (ppg)		9.1	9.1		
Funnel Viscosity (sec/qt)		44	43		
Plastic Vis. (cp) @ 150 (°F)		12	11		
Yield Point (lbf/100ft²)		16	14		
Gel Strength (10s/10m) (lbf/100ft²)		10 | 11	9 | 9		
Gel Strength (30 Min) (lbf/100ft²)		13	11		
HPHT Filtrate @ 250 (°F)		5.0	5.0		
Cake (1/32 in)(API/HPHT)		2.0	2.0		
Diesel SG= 0.84		73.0	72.0		
Water (% by vol)		16.0	17.0		
Solids (% by vol)		11.0	11.0		
Electrical Stability (V)		722	699		
Pom (Vsa) cc's Sample 1.0		2.9	3.0		
Vsn (0.282N) cc's Sample 1.0		5.2	5.2		
Lime Content (lb/bbl)		3.8	3.9		
Clom (mg/L)		52,000	52,000		
CaClom (mg/L)		81,380	81,380		
CaClom (lb/bbl)		28	28		
CaCl (ppm in water phase)		337,145	323,733		
Oil/Water Ratio		82 | 18	81 | 19		
Brine Density (S.G.)		1.32	1.31		
LGS (% by vol) SG= 2.60		8.1	8.2		
LGS (lb/bbl)		73.559	75.044		
HGS (% by vol) SG= 4.20		0.6	0.5		
HGS (lb/bbl)		9.39	7.34		
Corrected Solids (% by vol)		9	9		
Flowline Temperature		116.4	120.6		

Hydraulics (ft/min)

Annular Interval	Ann. Vel.	Crit. Vel.
Surface Casing:DP	112.42	335.51
OH:DP	92.72	329.91
OH:HWDP	92.72	329.91
OH:DC	104.20	338.10
OH:DC	123.47	348.56

Operating Data

Avg ROP(ft/hr)	2.5
WOB (Klbs)	31
Rotating Weight	
Rotatary Speed	21
Rotating Hrs.	
Sliding Hrs.	
Non-Drlg Hrs.	
P/U (lbs)	
S/O (lbs)	
Torque (lbf-ft)	
Angle	
Azimuth	
Surv. Depth(ft)	

Viscometer Rdgs		Solids Control Equipment					
600	40	Shaker	Screens		Hrs	U/F	O/F
300	28	1	84/84/200/165	De-Sander	8.0		
200	20	2	84/84/200/165	De-Silter			
100	17	3		Centrifuge	8.0		
6	11	4		Centrifuge	8.0		
3	10	M/C			8.0		

Active Products

Materials	Initial	Rec'd	Used	Balance	Cost (US$)
Bentone 910 (50 lb \ sk)	100	0	54	46	3,780.00
Bulk Tank (50 ton \ ea)	76	0	2	74	100.00
Bulk Tanks Blower (1 \ ea)	10	0	2	8	70.00
Cyber Seal (25 lb \ sk)	180	60	0	240	0.00
Drum Disposal (1 \ ea)	0	8	0	8	0.00
Dyna Fiber Cor (25 # \ sk)	196	0	60	136	1,188.00
Engineering (24 hr) (1 \ ea)	0	0	1	0	500.00
Fiber Fluid Cor (25 lb \ sk)	0	511	0	511	0.00
Gilsonite HT (50 lb \ sack)	38	0	11	27	392.70
Lime (50 lb \ sx)	448	100	104	444	733.20
Mica F (50 lb \ sk)	420	0	65	355	1,270.75
New Carb Cor (50 lb \ sk)	84	84	0	168	0.00
OBM Lab (1 \ ea)	46	0	1	45	55.00
OptiClean (55 gal \ drum)	7	0	1	6	394.80
OptiMul (55 gal \ drum)	7	4	3	8	2,040.00
OptiPlus (55 gal \ Drum)	7	4	3	8	2,430.00
Pallets (1 \ ea)	8	18	0	26	0.00
Shrink Wrap (1 \ ea)	8	16	0	24	0.00
Walnut Shell M (50 lb \ sk)	240	0	25	215	575.00

Treatment Recommendations

Last 24 hrs: Pumped numerous LCM sweeps. Added Bentone, OptiVis, OptiMul, OptiPlus, Gilsonite and diesel. Added LCM (10 ppb) to the active system.
Next 24 hrs: Will continue with same treatment and will maintain LCM concentration to the active system. Will pump LCM sweeps as needed. Will add barite as needed to maintain mud wt.

Comments/Remarks

Continued drilling ahead loosing 30-40 bph. Pumped numerous Strata Vanguard and mixed product LCM sweeps while adding 10 ppb LCM to the active system. Brought losses under control and losses have remained under control. Ramped pumps up to 85/85 with lossess still holding at zero.

****Trucking charges from DT SD0563

Daily Tax (US$)	Trucking (US$)	Daily Cost (US$)	15,898.22
781.77	1,587.00	Cumulative Cost (US$)	668,392.06

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Newpark Drilling Fluids, L.L.C. — **Mud Report**

Jerry Ard	**Evanston WY**	
Tel:	Tel:	Tel:
Mbl: (985) 688-1226	Tel:	Tel:
Pgr:	Fax:	Fax:

MudPIT™

Date	11/04/2010	MD (ft)	6,023
Report #	44	TVD (ft)	6,023
Spud Date	09/22/2010	Bit MD (ft)	249
API Well #	4302330021	Bit TVD (ft)	249
Present Activity		Drilling Ahead	

Operator:	**PIONEER NATURAL RESOURCES**	**Contractor:**	**Nabors 169**
Report For:	**Noah Dupuis/Bill Vigil**	**Report For:**	**Rod Flynn**

Well Name / No.	Field / Block	Sur - Abs or Sec-T-R	County / Parish	State / Province	Country
SOUTH HILLS FEDERAL # 6-1			JUAB COUNTY	UTAH	USA

Drill String	OD(in)	ID(in)	Length(ft)
DC	8.0	2.875	249

Casing	OD(in)	ID(in)	Top(ft)	Bottom(ft)
Surface Casing	13.375	12.41	0.0	4340

Pump and Circulating Data (check box for Riser Boost)

	Pump # 1 ☐	2 ☐	3 ☐	Stand Pipe (psi)		0
Liner (in)	6.0	6.0	0.0	Calc P.Loss (psi)		0
Stroke (in)	10.0	10.0	0.0	ECD (ppg)		9.10
stk/min	0	0	0	Pump # 1	Min	Stks
Efficiency (%)	95	95	95	Surf-Bit	0	0
(bbl/stk)	0.083	0.083	0.000	Bott's Up	0	0
(gpm)	0	0	0	Surf-Surf	0	0
Total (gpm)		0		Tot. Circ.	0	0

Bit Data

Bit Size (in)	12.25	TFA (in²)	2.227	Leak Off Test(ppg)	0	
% Washout	10	Noz-Vel (ft/se)				
Bit Type:	HCD505ZX	Imp-Frc (psi)				
Bit #:	17	PSI Loss (psi)				
(1/32 in)	22 22 22 22	HSI (hp/in²)				
22 22		Sys HHP (hp)				
		Sys HHP %				

Active Volume (bbl)		Storage Volume(bbl)		Volume Reconciliation (bbl)			
Annulus:	22	FT #1 15.4	410	Starting Volume	1347	Total Additions:	0
Drill String:	2	FT #2 9.6	225	Water Additions		Hole Losses	
Pits:	621	FT #3 7.8	375	Oil Additions		SCE Losses	
Slug Pit:	32	FT #4 7.8	380	Chemical Additions:		Other Losses	
Total Circulating Volume		Total Storage Volume		Barite Additions:		Total Losses	
645		1,390		Whole Mud Add:		Mud to Storage:	
Volume Below Bit		909		Other Additions		Ending Volume:	1347

Fluid Type	Oil-based	Fluid Properties			
Sample From		Pit	Pit		
Time Sample Taken		3:00 AM	4:00 PM		
Depth @ Time of Sample (ft)		6,023	6,023		
Sample Temperature (°F)		77	84		
Weight (ppg)		9.1	9.1		
Funnel Viscosity (sec/qt)		46	45		
Plastic Vis. (cp) @ 150 (°F)		12	12		
Yield Point (lbf/100ft²)		16	16		
Gel Strength (10s/10m) (lbf/100ft²)		10 11	10 12		
Gel Strength (30 Min) (lbf/100ft²)		12	13		
HPHT Filtrate @ 250 (°F)		5.0	5.0		
Cake (1/32 in)(API/HPHT)		2.0	2.0		
Diesel SG= 0.84		73.0	73.0		
Water (% by vol)		16.0	16.0		
Solids (% by vol)		11.0	11.0		
Electrical Stability (V)		702	728		
Pom (Vsa) cc's Sample 1.0		3.1	3.1		
Vsn (0.282N) cc's Sample 1.0		5.2	5.2		
Lime Content (lb/bbl)		4.0	4.0		
Clom (mg/L)		52,000	52,000		
CaClom (mg/L)		81,380	81,380		
CaClom (lb/bbl)		28	28		
CaCl (ppm in water phase)		337,145	337,145		
Oil/Water Ratio		82 18	82 18		
Brine Density (S.G.)		1.32	1.32		
LGS (% by vol) SG= 2.60		8.1	8.1		
LGS (lb/bbl)		73.559	73.559		
HGS (% by vol) SG= 4.20		0.6	0.6		
HGS (lb/bbl)		9.39	9.39		
Corrected Solids (% by vol)		9	9		

Hydraulics (ft/min)

Annular Interval	Ann. Vel.	Crit. Vel.
Surface Casing:DC	0.00	358.13

Operating Data

Avg ROP(ft/hr)	
WOB (Klbs)	
Rotating Weight	
Rotatary Speed	
Rotating Hrs.	
Sliding Hrs.	
Non-Drlg Hrs.	
P/U (lbs)	
S/O (lbs)	
Torque (lbf-ft)	
Angle	
Azimuth	
Surv. Depth(ft)	

Viscometer Rdgs

600	40
300	28
200	21
100	16
6	11
3	10

Solids Control Equipment

Shaker	Screens		Hrs	U/F	O/F
1	84/84/200/165	De-Sander			
2	84/84/200/165	De-Silter			
3		Centrifuge			
4		Centrifuge			
M/C					

Active Products

Materials	Initial	Rec'd	Used	Balance	Cost (US$)
Bulk Tank (50 ton \ ea)	74	0	2	72	100.00
Bulk Tanks Blower (1 \ ea)	8	0	2	6	70.00
Engineering (24 hr) (1 \ ea)	0	0	1	0	500.00
OBM Lab (1 \ ea)	45	0	1	44	55.00
OptiDrill OBM (1 bbl \ bulk)	3154	488	294	3348	38,575.74

Treatment Recommendations

Last 24 hrs: No treatment. Received 488 bbls of 7.8 ppg OptiDrill base fluid.
Next 24 hrs: Will blend OptiDrill base with heavy fluid to formulate 350 bbls of 9.0 ppg OBM. Will determine treatment to active system when on bottom circulating.

Comments/Remarks

Drilled ahead to 6,023 ft. POOH for to pick up motor and bit. Once out of the hole, had to wait on downhole tools to arrive. Picked up new bit and tools and TIH. Bit at 249 ft at report time. Experienced no downhole losses while out of the hole.

Daily Tax (US$)	Trucking (US$)	Daily Cost (US$)	41,628.78
2,328.04	0.00	Cumulative Cost (US$)	710,020.84

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Newpark Drilling Fluids, L.L.C. — **Mud Report**

Jerry Ard	Evanston WY	
Tel:	Tel:	Tel:
Mbl: (985) 688-1226	Tel:	Tel:
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MudPIT™

Date	11/05/2010	MD (ft)	6,023
Report #	45	TVD (ft)	6,023
Spud Date	09/22/2010	Bit MD (ft)	47
API Well #	4302330021	Bit TVD (ft)	47
Present Activity		Preparing To TIH	

Operator:	**PIONEER NATURAL RESOURCES**	**Contractor:**	**Nabors 169**
Report For:	**Noah Dupuis/Bill Vigil**	**Report For:**	**Rod Flynn**

Well Name / No.	Field / Block	Sur - Abs or Sec-T-R	County / Parish	State / Province	Country
SOUTH HILLS FEDERAL # 6-1			JUAB COUNTY	UTAH	USA

Drill String	OD(in)	ID(in)	Length(ft)
DC	8.0	2.875	47

Casing	OD(in)	ID(in)	Top(ft)	Bottom(ft)
Surface Casing	13.375	12.41	0.0	4340

Pump and Circulating Data (check box for Riser Boost)

Pump #	1 ☐	2 ☐	3 ☐	Stand Pipe (psi)		0
Liner (in)	6.0	6.0	0.0	Calc P.Loss (psi)		0
Stroke (in)	10.0	10.0	0.0	ECD (ppg)		9.10
stk/min	0	0	0	Pump # 1	Min	Stks
Efficiency (%)	95	95	95	Surf-Bit	0	0
(bbl/stk)	0.083	0.083	0.000	Bott's Up	0	0
(gpm)	0	0	0	Surf-Surf	0	0
Total (gpm)		0		Tot. Circ.	0	0

Bit Data		Leak Off Test(ppg)	0
Bit Size (in)	12.25	TFA (in²)	
% Washout	10	Noz-Vel (ft/se)	
Bit Type:		Imp-Frc (psi)	
Bit #:	0	PSI Loss (psi)	
(1/32 in)		HSI (hp/in²)	
		Sys HHP (hp)	
		Sys HHP %	

Active Volume (bbl)	
Annulus:	4
Drill String:	0
Pits:	577
Slug Pit:	29
Total Circulating Volume	581
Volume Below Bit	940

Storage Volume(bbl)	
FT #1 10.7	440
FT #2 9.6	255
FT #3 7.8	345
FT #4 7.8	420
Total Storage Volume	1,460

Volume Reconciliation (bbl)			
Starting Volume	1347	Total Additions:	0
Water Additions		Hole Losses	6
Oil Additions		SCE Losses	14
Chemical Additions:		Other Losses	7
Barite Additions:		Total Losses	27
Whole Mud Add:		Mud to Storage:	
Other Additions		Ending Volume:	1320

Fluid Type	Oil-based	Fluid Properties			
Sample From		Pit	Pit		
Time Sample Taken		3:30 AM	4:00 PM		
Depth @ Time of Sample (ft)		6,028	6,024		
Sample Temperature (°F)		79	98		
Weight (ppg)		9.1	9.1		
Funnel Viscosity (sec/qt)		45	43		
Plastic Vis. (cp) @ 150 (°F)		11	11		
Yield Point (lbf/100ft²)		17	15		
Gel Strength (10s/10m) (lbf/100ft²)		10 | 11	9 | 10		
Gel Strength (30 Min) (lbf/100ft²)		13	12		
HPHT Filtrate @ 250 (°F)		5.0	5.0		
Cake (1/32 in)(API/HPHT)		2.0	2.0		
Diesel SG= 0.84		73.0	73.0		
Water (% by vol)		16.0	16.0		
Solids (% by vol)		11.0	11.0		
Electrical Stability (V)		725	720		
Pom (Vsa) cc's Sample 1.0		3.0	3.1		
Vsn (0.282N) cc's Sample 1.0		5.2	5.2		
Lime Content (lb/bbl)		3.9	4.0		
Clom (mg/L)		52,000	52,000		
CaClom (mg/L)		81,380	81,380		
CaClom (lb/bbl)		28	28		
CaCl (ppm in water phase)		337,145	337,145		
Oil/Water Ratio		82 | 18	82 | 18		
Brine Density (S.G.)		1.32	1.32		
LGS (% by vol) SG= 2.60		8.1	8.1		
LGS (lb/bbl)		73.559	73.559		
HGS (% by vol) SG= 4.20		0.6	0.6		
HGS (lb/bbl)		9.39	9.39		
Corrected Solids (% by vol)		9	9		
Flowline Temperature			162.1		

Hydraulics (ft/min)			Operating Data	
Annular Interval	Ann. Vel.	Crit. Vel.	Avg ROP(ft/hr)	
Surface Casing:DC	0.00	358.13	WOB (Klbs)	
			Rotating Weight	
			Rotatary Speed	
			Rotating Hrs.	
			Sliding Hrs.	
			Non-Drlg Hrs.	
			P/U (lbs)	
			S/O (lbs)	
			Torque (lbf-ft)	
			Angle	
			Azimuth	
			Surv. Depth(ft)	

Viscometer Rdgs		Solids Control Equipment					
600	39	Shaker	Screens		Hrs	U/F	O/F
300	28	1	84/84/200/165	De-Sander			
200	21	2	84/84/200/165	De-Silter			
100	17	3		Centrifuge			
6	11	4		Centrifuge			
3	10	M/C					

Active Products

Materials	Initial	Rec'd	Used	Balance	Cost (US$)
Bentone 910 (50 lb \ sk)	46	0	18	28	1,260.00
Bulk Tank (50 ton \ ea)	72	0	2	70	100.00
Bulk Tanks Blower (1 \ ea)	6	0	2	4	70.00
Cyber Seal (25 lb \ sk)	240	0	45	195	1,669.50
Drum Disposal (1 \ ea)	8	0	8	0	240.00
Dyna Fiber Cor (25 # \ sk)	136	0	75	61	1,485.00
Engineering (24 hr) (1 \ ea)	0	0	1	0	500.00
Gilsonite HT (50 lb \ sack)	27	0	27	0	963.90
Lime (50 lb \ sx)	444	0	19	425	133.95
Mica F (50 lb \ sk)	355	0	37	318	723.35
New Seal (50 lb \ sk)	160	0	62	98	5,034.40
OBM Lab (1 \ ea)	44	0	1	43	55.00
OptiDrill OBM (1 bbl \ bulk)	3348	0	27	3321	3,542.67
OptiMul (55 gal \ drum)	8	0	3	5	2,040.00
OptiPlus (55 gal \ Drum)	8	0	3	5	2,430.00
OptiVis RM (5 gal \ bucket)	72	0	14	58	1,323.00
StrataVanguard M (50 lb \ sk)	255	0	27	228	5,670.00
Walnut Shell M (50 lb \ sk)	215	0	19	196	437.00

Treatment Recommendations

Last 24 hrs: Added Bentone, Lime, Gilsonite, OptiMul, OptiPlus, OptiVis and diesel. Maintained LCM at 12 ppb in the active system.
Next 24 hrs: Will continue with same treatment

Comments/Remarks

TIH with junk basket assembly. Circulated on bottom. Drilled ahead to 6,028 ft. Pumped slug and POOH. Out of hole at report time.

Daily Tax (US$)	Trucking (US$)	Daily Cost (US$)	29,308.44
1,630.67	0.00	Cumulative Cost (US$)	739,329.28

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Newpark Drilling Fluids, L.L.C. — **Mud Report**

Jerry Ard	Evanston WY	
Tel:	Tel:	Tel:
Mbl: (985) 688-1226	Tel:	Tel:
Pgr:	Fax:	Fax:

MudPIT™

Date	11/06/2010	MD (ft)	6,137
Report #	46	TVD (ft)	6,137
Spud Date	09/22/2010	Bit MD (ft)	6,137
API Well #	4302330021	Bit TVD (ft)	6,137
Present Activity		Drilling Ahead	

Operator:	**PIONEER NATURAL RESOURCES**	**Contractor:**	**Nabors 169**
Report For:	**Noah Dupuis/Bill Vigil**	**Report For:**	**Rod Flynn**

Well Name / No.	Field / Block	Sur - Abs or Sec-T-R	County / Parish	State / Province	Country
SOUTH HILLS FEDERAL # 6-1			JUAB COUNTY	UTAH	USA

Drill String	OD(in)	ID(in)	Length(ft)
BIT & MOTOR	9.5	3.5	38.48
DC	8.0	2.875	221.12
DC	6.5	2.875	283.19
HWDP	5.0	3	831.27
DP	5.0	4.28	4762.94

Casing	OD(in)	ID(in)	Top(ft)	Bottom(ft)
Surface Casing	13.375	12.41	0.0	4340

Pump and Circulating Data (check box for Riser Boost)

Pump #	1 ☐	2 ☐	3 ☐	Stand Pipe (psi)		2,742
Liner (in)	6.0	6.0	0.0	Calc P.Loss (psi)		1,690
Stroke (in)	10.0	10.0	0.0	ECD (ppg)		9.57
stk/min	190	0	0	Pump # 1	Min	Stks
Efficiency (%)	95	95	95	Surf-Bit	6	1,162
(bbl/stk)	0.083	0.083	0.000	Bott's Up	51	9,658
(gpm)	663	0	0	Surf-Surf	57	10,821
Total (gpm)		663		Tot. Circ.	95	17,972

Bit Data

Bit Size (in)	12.25					
% Washout	10					
Bit Type:	Smith F57					
Bit #:	18					
(1/32 in)	18	18	18			

Leak Off Test(ppg)	0		
TFA (in²)	0.746		
Noz-Vel (ft/se)	284.48		
Imp-Frc (psi)	918		
PSI Loss (psi)	682.70		
HSI (hp/in²)	2.234		
Sys HHP (hp)	1060.3		
Sys HHP %	24.898		

Active Volume (bbl)		Storage Volume(bbl)	
Annulus:	802	FT #1 10.7	440
Drill String:	97	FT #2 9.6	255
Pits:	594	FT #3 7.8	345
Slug Pit:	41	FT #4 7.8	420
Total Circulating Volume	1,493	Total Storage Volume	1,460
Volume Below Bit			0

Volume Reconciliation (bbl)			
Starting Volume	1320	Total Additions:	18
Water Additions		Hole Losses	28
Oil Additions	14	SCE Losses	32
Chemical Additions:		Other Losses	
Barite Additions:	4	Total Losses	60
Whole Mud Add:		Mud to Storage:	
Other Additions		Ending Volume:	1278

Fluid Type	Oil-based	Fluid Properties			
Sample From		Pit	Pit		
Time Sample Taken		3:30 AM	4:00 PM		
Depth @ Time of Sample (ft)		6,137	6,028		
Sample Temperature (°F)		91	83		
Weight (ppg)		9.4	9.3		
Funnel Viscosity (sec/qt)		45	44		
Plastic Vis. (cp) @ 150 (°F)		12	12		
Yield Point (lbf/100ft²)		16	15		
Gel Strength (10s/10m) (lbf/100ft²)		11 | 13	10 | 11		
Gel Strength (30 Min) (lbf/100ft²)		15	14		
HPHT Filtrate @ 250 (°F)		5.0	5.0		
Cake (1/32 in)(API/HPHT)		2.0	2.0		
Diesel SG= 0.84		72.0	72.0		
Water (% by vol)		15.0	16.0		
Solids (% by vol)		13.0	12.0		
Electrical Stability (V)		731	752		
Pom (Vsa) cc's Sample 1.0		3.5	3.2		
Vsn (0.282N) cc's Sample 1.0		5.2	5.2		
Lime Content (lb/bbl)		4.5	4.1		
Clom (mg/L)		52,000	52,000		
CaClom (mg/L)		81,380	81,380		
CaClom (lb/bbl)		28	28		
CaCl (ppm in water phase)		351,716	337,145		
Oil/Water Ratio		83 | 17	82 | 18		
Brine Density (S.G.)		1.34	1.32		
LGS (% by vol) SG= 2.60		9.9	8.7		
LGS (lb/bbl)		89.805	79.046		
HGS (% by vol) SG= 4.20		0.8	1.0		
HGS (lb/bbl)		12.161	15.225		
Corrected Solids (% by vol)		11	10		
Flowline Temperature		122.4			

Hydraulics (ft/min)

Annular Interval	Ann. Vel.	Crit. Vel.
Surface Casing:DP	125.65	329.44
OH:DP	103.62	323.94
OH:HWDP	103.62	323.94
OH:DC	116.46	331.98
OH:DC	138.00	342.26
OH:BIT & MOTOR	177.66	356.33

Operating Data

Avg ROP(ft/hr)	10.9
WOB (Klbs)	33
Rotating Weight	
Rotatary Speed	
Rotating Hrs.	
Sliding Hrs.	
Non-Drlg Hrs.	
P/U (lbs)	
S/O (lbs)	
Torque (lbf-ft)	
Angle	
Azimuth	
Surv. Depth(ft)	

Viscometer Rdgs		Solids Control Equipment					
600	40	Shaker	Screens		Hrs	U/F	O/F
300	28	1	84/84/120/120	De-Sander			
200	22	2	84/84/120/120	De-Silter			
100	17	3		Centrifuge			
6	11	4		Centrifuge			
3	10	M/C					

Active Products

Materials	Initial	Rec'd	Used	Balance	Cost (US$)
Bulk Tank (50 ton \ ea)	70	0	2	68	100.00
Bulk Tanks Blower (1 \ ea)	4	0	2	2	70.00
Engineering (24 hr) (1 \ ea)	0	0	1	0	500.00
New Bar (Ton \ bulk)	83.42	0	2.65	80.77	315.35
OBM Lab (1 \ ea)	43	0	1	42	55.00
StrataVanguard M (50 lb \ sk)	228	0	27	201	5,670.00

Treatment Recommendations

Last 24 hrs: Added Bentone, Lime, OptiVis, OptiPlus,OptiMul and diesel. Adding LCM to the active system to maintain 10 ppb throughout the system. Pumping 20 bbl, 20 ppb LCM sweeps as needed.
Next 24 hrs: Will continue with same treatment and will continue to pump LCM sweeps for downhole losses as needed.

Comments/Remarks

Picked up True Track drilling assembly and TIH. Found ~3 ft of fill on bottom. Washed to bottom and drilled ahead to 6,137 ft. Taking intermittent losses of approximately 15-20 bbls at a time at report time.

Daily Tax (US$)	Trucking (US$)	Daily Cost (US$)	7,082.97
372.62	0.00	Cumulative Cost (US$)	746,412.25

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Newpark Drilling Fluids, L.L.C. — **Mud Report**

Jerry Ard	**Evanston WY**	
Tel:	Tel:	Tel:
Mbl: (985) 688-1226	Tel:	Tel:
Pgr:	Fax:	Fax:

MudPIT™

Date	11/07/2010	MD (ft)	6,323
Report #	47	TVD (ft)	6,323
Spud Date	09/22/2010	Bit MD (ft)	6,323
API Well #	4302330021	Bit TVD (ft)	6,323
Present Activity		Drilling Ahead	

Operator:	**PIONEER NATURAL RESOURCES**	**Contractor:**	**Nabors 169**
Report For:	**Noah Dupuis/Bill Vigil**	**Report For:**	**Rod Flynn**

Well Name / No.	Field / Block	Sur - Abs or Sec-T-R	County / Parish	State / Province	Country
SOUTH HILLS FEDERAL # 6-1			JUAB COUNTY	UTAH	USA

Drill String	OD(in)	ID(in)	Length(ft)
BIT & MOTOR	9.5	3.5	38.48
DC	8.0	2.875	221.12
DC	6.5	2.875	283.19
HWDP	5.0	3	831.27
DP	5.0	4.28	4948.94

Casing	OD(in)	ID(in)	Top(ft)	Bottom(ft)
Surface Casing	13.375	12.41	0.0	4340

Pump and Circulating Data (check box for Riser Boost)

Pump #	1 ☐	2 ☐	3 ☐	Stand Pipe (psi)		2,836
Liner (in)	6.0	6.0	0.0	Calc P.Loss (psi)		1,756
Stroke (in)	10.0	10.0	0.0	ECD (ppg)		9.57
stk/min	190	0	0	Pump # 1	Min	Stks
Efficiency (%)	95	95	95	Surf-Bit	6	1,202
(bbl/stk)	0.083	0.083	0.000	Bott's Up	53	9,999
(gpm)	663	0	0	Surf-Surf	59	11,201
Total (gpm)		663		Tot. Circ.	93	17,667

Bit Data

Bit Size (in)	12.25	TFA (in²)	0.746	Leak Off Test(ppg)	0
% Washout	10	Noz-Vel (ft/se)	284.48		
Bit Type:	Smith F57	Imp-Frc (psi)	918		
Bit #:	18	PSI Loss (psi)	682.70		
(1/32 in)	18 18 18	HSI (hp/in²)	2.234		
		Sys HHP (hp)	1096.6		
		Sys HHP %	24.073		

Active Volume (bbl)		Storage Volume(bbl)	
Annulus:	830	FT #1 10.7	440
Drill String:	100	FT #2 9.6	6
Pits:	537	FT #3 7.8	345
Slug Pit:	29	FT #4 7.8	420
Total Circulating Volume	1,467	Total Storage Volume	1,211
Volume Below Bit			0

Volume Reconciliation (bbl)			
Starting Volume	1278	Total Additions:	279
Water Additions	30	Hole Losses	204
Oil Additions		SCE Losses	81
Chemical Additions:		Other Losses	
Barite Additions:		Total Losses	285
Whole Mud Add:	249	Mud to Storage:	
Other Additions		Ending Volume:	1272

Fluid Type	Oil-based	Fluid Properties			
Sample From			Pit		
Time Sample Taken		3:30 AM	4:00 PM		
Depth @ Time of Sample (ft)		6,323	6,237		
Sample Temperature	(°F)	98	99		
Weight (ppg)		9.4	9.4		
Funnel Viscosity (sec/qt)		47	46		
Plastic Vis. (cp) @	150 (°F)	13	12		
Yield Point (lbf/100ft²)		15	15		
Gel Strength (10s/10m) (lbf/100ft²)		12 13	12 14		
Gel Strength (30 Min) (lbf/100ft²)		16	15		
HPHT Filtrate @	250 (°F)	5.0	5.0		
Cake (1/32 in)(API/HPHT)		2.0	2.0		
Diesel	SG= 0.84	72.0	72.0		
Water (% by vol)		15.0	15.0		
Solids (% by vol)		13.0	13.0		
Electrical Stability (V)		701	722		
Pom (Vsa)	cc's Sample 1.0	3.2	3.2		
Vsn (0.282N)	cc's Sample 1.0	5.2	5.2		
Lime Content (lb/bbl)		4.1	4.1		
Clom (mg/L)		52,000	52,000		
CaClom (mg/L)		81,380	81,380		
CaClom (lb/bbl)		28	28		
CaCl (ppm in water phase)		351,716	351,716		
Oil/Water Ratio		83 17	83 17		
Brine Density (S.G.)		1.34	1.34		
LGS (% by vol)	SG= 2.60	9.9	9.9		
LGS (lb/bbl)		89.805	89.805		
HGS (% by vol)	SG= 4.20	0.8	0.8		
HGS (lb/bbl)		12.161	12.161		
Corrected Solids (% by vol)		11	11		
Flowline Temperature		132.8	128.4		

Hydraulics (ft/min)

Annular Interval	Ann. Vel.	Crit. Vel.
Surface Casing:DP	125.65	329.44
OH:DP	103.62	323.94
OH:HWDP	103.62	323.94
OH:DC	116.46	331.98
OH:DC	138.00	342.26
OH:BIT & MOTOR	177.66	356.33

Operating Data

Avg ROP(ft/hr)	7.8
WOB (Klbs)	35
Rotating Weight	
Rotatary Speed	
Rotating Hrs.	
Sliding Hrs.	
Non-Drlg Hrs.	
P/U (lbs)	
S/O (lbs)	
Torque (lbf-ft)	
Angle	
Azimuth	
Surv. Depth(ft)	

Viscometer Rdgs		Solids Control Equipment					
600	41	Shaker	Screens		Hrs	U/F	O/F
300	28	1	84/84/120/120	De-Sander			
200	22	2	84/84/120/120	De-Silter			
100	18	3		Centrifuge			
6	11	4		Centrifuge			
3	10	M/C					

Active Products

Materials	Initial	Rec'd	Used	Balance	Cost (US$)
Bentone 910 (50 lb \ sk)	28	200	28	200	1,960.00
Bulk Tank (50 ton \ ea)	68	0	2	66	100.00
Bulk Tanks Blower (1 \ ea)	2	0	2	0	70.00
Cyber Seal (25 lb \ sk)	195	240	162	273	6,010.20
Drum Disposal (1 \ ea)	0	16	16	0	480.00
Dyna Fiber Cor (25 # \ sk)	61	200	61	200	1,207.80
Engineering (24 hr) (1 \ ea)	0	0	1	0	500.00
GSX-509 (50 lb \ sk)	50	50	0	100	0.00
Lime (50 lb \ sx)	425	0	12	413	84.60
Mica F (50 lb \ sk)	318	0	78	240	1,524.90
New Bar (Sack) (100 lb \ sk)	348	80	0	428	0.00
New Carb Med (50 # \ sk)	196	0	31	165	341.00
New Seal (50 lb \ sk)	98	0	98	0	7,957.60
OBM Lab (1 \ ea)	42	0	1	41	55.00
OptiDrill OBM (1 bbl \ bulk)	3321	0	285	3036	37,394.85
OptiMul (55 gal \ drum)	5	8	5	8	3,400.00
OptiPlus (55 gal \ Drum)	5	8	5	8	4,050.00
OptiVis RM (5 gal \ bucket)	58	64	26	96	2,457.00
Pallets (1 \ ea)	26	21	47	0	846.00
Shrink Wrap (1 \ ea)	24	15	39	0	468.00

Treatment Recommendations

Last 24 hrs: Pumped numerous 25 ppb LCM sweeps. Maintained 10 ppb LCM in the active system. Moved 255 bbls of 9.4+ OptiDrill OBM from the Frac Tanks to the active system. Added Bentone, OptiVis, OptiMul, OptiPlus, GSX-509 and diesel.
Next 24 hrs: Will continue with same treatment. Will continue to pump LCM sweeps

Comments/Remarks

Drilled ahead loosing ~10 bph downhole. Drilled to 6,323 ft at report time.

****Trucking charges from DT EVA2452

Daily losses: 285 bbls (actually losses for 11/6 and 11/7)
Cumulative losses: 3,033 bbls

Daily Tax (US$)	Trucking (US$)	Daily Cost (US$)	74,598.37
4,104.42	1,587.00	Cumulative Cost (US$)	821,010.61

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Newpark Drilling Fluids, L.L.C.

Mud Report

Jerry Ard	Evanston WY	
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MudPIT™

Date	11/08/2010	MD (ft)	6,338
Report #	48	TVD (ft)	6,338
Spud Date	09/22/2010	Bit MD (ft)	6,178
API Well #	4302330021	Bit TVD (ft)	6,178
Present Activity		TIH	

Operator:	**PIONEER NATURAL RESOURCES**	**Contractor:**	**Nabors 169**
Report For:	**Noah Dupuis/Bill Vigil**	**Report For:**	**Rod Flynn**

Well Name / No.	Field / Block	Sur - Abs or Sec-T-R	County / Parish	State / Province	Country
SOUTH HILLS FEDERAL # 6-1			JUAB COUNTY	UTAH	USA

Drill String	OD(in)	ID(in)	Length(ft)
BIT & MOTOR	9.5	3.5	38.48
DC	8.0	2.875	221.12
DC	6.5	2.875	283.19
HWDP	5.0	3	831.27
DP	5.0	4.28	4803.94

Casing	OD(in)	ID(in)	Top(ft)	Bottom(ft)
Surface Casing	13.375	12.41	0.0	4340

Pump and Circulating Data (check box for Riser Boost)

	Pump 1 ☐	Pump 2 ☐	Pump 3 ☐			
Pump #				Stand Pipe (psi)		0
Liner (in)	6.0	6.0	0.0	Calc P.Loss (psi)		0
Stroke (in)	10.0	10.0	0.0	ECD (ppg)		9.00
stk/min	0	0	0	Pump # 1	Min	Stks
Efficiency (%)	95	95	95	Surf-Bit	0	0
(bbl/stk)	0.083	0.083	0.000	Bott's Up	0	0
(gpm)	0	0	0	Surf-Surf	0	0
Total (gpm)		0		Tot. Circ.	0	0

Bit Data						Leak Off Test(ppg)	0
Bit Size (in)	12.25					TFA (in²)	0.746
% Washout	10					Noz-Vel (ft/se)	
Bit Type:	Smith F57					Imp-Frc (psi)	
Bit #:	18					PSI Loss (psi)	
(1/32 in)	18	18	18			HSI (hp/in²)	
						Sys HHP (hp)	
						Sys HHP %	

Active Volume (bbl)		Storage Volume(bbl)		Volume Reconciliation (bbl)			
Annulus:	808	FT #1 10.7	320	Starting Volume	1272	Total Additions:	81
Drill String:	97	FT #2 9.6	6	Water Additions		Hole Losses	160
Pits:	532	FT #3 7.8	305	Oil Additions	12	SCE Losses	20
Slug Pit:	26	FT #4 7.8	420	Chemical Additions:		Other Losses	
Total Circulating Volume		Total Storage Volume		Barite Additions:	4	Total Losses	180
1,438		1,051		Whole Mud Add:	65	Mud to Storage:	
Volume Below Bit		28		Other Additions		Ending Volume:	1173

Fluid Type	Oil-based	Fluid Properties	
Sample From		Pit	Pit
Time Sample Taken		3:30 AM	4:00 PM
Depth @ Time of Sample (ft)		6,338	6,338
Sample Temperature (°F)		79	91
Weight (ppg)		9.0	9.0
Funnel Viscosity (sec/qt)		48	47
Plastic Vis. (cp) @ 150 (°F)		12	13
Yield Point (lbf/100ft²)		16	17
Gel Strength (10s/10m) (lbf/100ft²)		12 / 15	12 / 13
Gel Strength (30 Min) (lbf/100ft²)		16	15
HPHT Filtrate @ 250 (°F)		5.0	5.0
Cake (1/32 in)(API/HPHT)		2.0	2.0
Diesel SG= 0.84		73.0	73.0
Water (% by vol)		17.0	17.0
Solids (% by vol)		10.0	10.0
Electrical Stability (V)		801	788
Pom (Vsa) cc's Sample 1.0		3.3	3.3
Vsn (0.282N) cc's Sample 1.0		5.2	5.2
Lime Content (lb/bbl)		4.3	4.3
Clom (mg/L)		52,000	52,000
CaClom (mg/L)		81,380	81,380
CaClom (lb/bbl)		28	28
CaCl (ppm in water phase)		323,733	323,733
Oil/Water Ratio		81 / 19	81 / 19
Brine Density (S.G.)		1.31	1.31
LGS (% by vol) SG= 2.60		6.9	6.9
LGS (lb/bbl)		62.74	62.74
HGS (% by vol) SG= 4.20		0.9	0.9
HGS (lb/bbl)		12.514	12.514
Corrected Solids (% by vol)		8	8

Hydraulics (ft/min)			Operating Data	
Annular Interval	Ann. Vel.	Crit. Vel.	Avg ROP(ft/hr)	
Surface Casing:DP	0.00	344.96	WOB (Klbs)	
OH:DP	0.00	339.80	Rotating Weight	
OH:HWDP	0.00	339.80	Rotatary Speed	
OH:DC	0.00	347.35	Rotating Hrs.	
OH:DC	0.00	356.98	Sliding Hrs.	
OH:BIT & MOTOR	0.00	370.12	Non-Drlg Hrs.	
			P/U (lbs)	
			S/O (lbs)	
			Torque (lbf-ft)	
			Angle	
			Azimuth	
			Surv. Depth(ft)	

Viscometer Rdgs		Solids Control Equipment					
600	40	Shaker	Screens		Hrs	U/F	O/F
300	28	1	84/84/120/120	De-Sander			
200	22	2	84/84/120/120	De-Silter			
100	19	3		Centrifuge			
6	12	4		Centrifuge			
3	11	M/C					

Active Products

Materials	Initial	Rec'd	Used	Balance	Cost (US$)
Bentone 910 (50 lb \ sk)	200	0	24	176	1,680.00
Bulk Tank (50 ton \ ea)	66	0	2	64	100.00
Bulk Tanks Blower (1 \ ea)	0	0	2	-2	70.00
Engineering (24 hr) (1 \ ea)	0	0	1	0	500.00
Fiber Fluid Cor (25 lb \ sk)	511	0	144	367	5,342.40
GSX-509 (50 lb \ sk)	100	0	6	94	456.00
Lime (50 lb \ sx)	413	0	36	377	253.80
New Bar (Ton \ bulk)	80.77	0	2.65	78.12	315.35
OBM Lab (1 \ ea)	41	0	1	40	55.00
OptiDrill OBM (1 bbl \ bulk)	3036	0	180	2856	23,617.80
OptiMul (55 gal \ drum)	8	0	2	6	1,360.00
OptiPlus (55 gal \ Drum)	8	0	2	6	1,620.00
OptiVis RM (5 gal \ bucket)	96	0	12	84	1,134.00

Treatment Recommendations

Last 24 hrs: Began adding Fiber Fluid LCM to the Active System. Brought mud wt down to 9.0 ppg. Added Bentone, OptiVis, GSX-509, Lime, OptiMul, OptiPlus, OptiDrill base fluid and diesel. Blended mud to 325 bbls of 9.0 ppg OBM in the Pre-Mix Pit.
Next 24 hrs: Will continue to add Fiber Fluid to the active system. Will continue with same treatment

Comments/Remarks

Drilled ahead to 6,338 ft. Still loosing ~10 bph downhole. Pumped slug and POOH for bit change. Picked up new bit and TIH to 6,178 ft at report time. Had very light downhole losses while out of the hole.

Daily Losses: 180 bbls
Cumulative Losses: 3,213 bbls

Daily Tax (US$)	Trucking (US$)	Daily Cost (US$)	38,664.61
2,160.26	0.00	Cumulative Cost (US$)	859,675.23

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Newpark Drilling Fluids, L.L.C. — **Mud Report**

Jerry Ard	Evanston WY	
Tel:	Tel:	Tel:
Mbl: (985) 688-1226	Tel:	Tel:
Pgr:	Fax:	Fax:

MudPIT™

Date	11/09/2010	MD (ft)	6,338
Report #	49	TVD (ft)	6,338
Spud Date	09/22/2010	Bit MD (ft)	122
API Well #	4302330021	Bit TVD (ft)	122
Present Activity		P/U BHA	

Operator:	**PIONEER NATURAL RESOURCES**	**Contractor:**	**Nabors 169**
Report For:	**Noah Dupuis/Bill Vigil**	**Report For:**	**Rod Flynn**

Well Name / No.	Field / Block	Sur - Abs or Sec-T-R	County / Parish	State / Province	Country
SOUTH HILLS FEDERAL # 6-1			JUAB COUNTY	UTAH	USA

Drill String	OD(in)	ID(in)	Length(ft)
Teledrift Assy	8.0	2.875	29.79

Casing	OD(in)	ID(in)	Top(ft)	Bottom(ft)
Surface Casing	13.375	12.41	0.0	4340

Pump and Circulating Data (check box for Riser Boost)

Pump #	1 ☐	2 ☐	3 ☐	Stand Pipe (psi)		0
Liner (in)	6.0	6.0	0.0	Calc P.Loss (psi)		0
Stroke (in)	10.0	10.0	0.0	ECD (ppg)		9.00
stk/min	0	0	0	Pump # 1	Min	Stks
Efficiency (%)	95	95	95	Surf-Bit	0	0
(bbl/stk)	0.083	0.083	0.000	Bott's Up	0	0
(gpm)	0	0	0	Surf-Surf	0	0
Total (gpm)		0		Tot. Circ.	0	0

Bit Data

Bit Size (in)	12.25						
% Washout	10						
Bit Type:	Smith F67						
Bit #:	20						
(1/32 in)	18	18	18				

Leak Off Test(ppg)	0
TFA (in²)	0.746
Noz-Vel (ft/se)	
Imp-Frc (psi)	
PSI Loss (psi)	
HSI (hp/in²)	
Sys HHP (hp)	
Sys HHP %	

Active Volume (bbl)	
Annulus:	3
Drill String:	0
Pits:	561
Slug Pit:	27
Total Circulating Volume	564
Volume Below Bit	998

Storage Volume(bbl)	
FT #1 10.7	320
FT #2 9.6	6
FT #3 7.8	210
FT #4 7.8	420
Total Storage Volume	956

Volume Reconciliation (bbl)	
Starting Volume	1173
Water Additions	
Oil Additions	24
Chemical Additions:	
Barite Additions:	
Whole Mud Add:	130
Other Additions	

Total Additions:	154
Hole Losses	3
SCE Losses	1
Other Losses	
Total Losses	4
Mud to Storage:	
Ending Volume:	1323

Fluid Type	Oil-based	Fluid Properties			
Sample From		Pit	Pit		
Time Sample Taken		3:30 AM	4:00 PM		
Depth @ Time of Sample (ft)		6,352	6,352		
Sample Temperature (°F)		78	91		
Weight (ppg)		9.0	9.0		
Funnel Viscosity (sec/qt)		52	50		
Plastic Vis. (cp) @ 150 (°F)		12	12		
Yield Point (lbf/100ft²)		16	15		
Gel Strength (10s/10m) (lbf/100ft²)		13 14	12 14		
Gel Strength (30 Min) (lbf/100ft²)		16	17		
HPHT Filtrate @ 250 (°F)		4.5	5.0		
Cake (1/32 in)(API/HPHT)		2.0	2.0		
Diesel SG= 0.84		73.0	73.0		
Water (% by vol)		17.0	17.0		
Solids (% by vol)		10.0	10.0		
Electrical Stability (V)		766	792		
Pom (Vsa) cc's Sample 1.0		3.2	3.2		
Vsn (0.282N) cc's Sample 1.0		5.2	5.2		
Lime Content (lb/bbl)		4.1	4.1		
Clom (mg/L)		52,000	52,000		
CaClom (mg/L)		81,380	81,380		
CaClom (lb/bbl)		28	28		
CaCl (ppm in water phase)		323,733	323,733		
Oil/Water Ratio		81 19	81 19		
Brine Density (S.G.)		1.31	1.31		
LGS (% by vol) SG= 2.60		6.9	6.9		
LGS (lb/bbl)		62.74	62.74		
HGS (% by vol) SG= 4.20		0.9	0.9		
HGS (lb/bbl)		12.514	12.514		
Corrected Solids (% by vol)		8	8		
Flowline Temperature			132.3		

Hydraulics (ft/min)

Annular Interval	Ann. Vel.	Crit. Vel.
Surface Casing:Teledrift	0.00	370.43

Operating Data

Avg ROP(ft/hr)	
WOB (Klbs)	
Rotating Weight	
Rotatary Speed	
Rotating Hrs.	
Sliding Hrs.	
Non-Drlg Hrs.	
P/U (lbs)	
S/O (lbs)	
Torque (lbf-ft)	
Angle	
Azimuth	
Surv. Depth(ft)	

Viscometer Rdgs

600	40
300	28
200	23
100	20
6	13
3	12

Solids Control Equipment

Shaker	Screens		Hrs	U/F	O/F
1	70/70/70/70	De-Sander			
2	70/70/70/70	De-Silter			
3		Centrifuge			
4		Centrifuge			
M/C					

Active Products

Materials	Initial	Rec'd	Used	Balance	Cost (US$)
Bentone 910 (50 lb \ sk)	176	0	26	150	1,820.00
Bulk Tank (50 ton \ ea)	64	0	2	62	100.00
Bulk Tanks Blower (1 \ ea)	-2	90	2	86	70.00
Engineering (24 hr) (1 \ ea)	0	0	1	0	500.00
Fiber Fluid Cor (25 lb \ sk)	367	0	120	247	4,452.00
GSX-509 (50 lb \ sk)	94	0	16	78	1,216.00
Lime (50 lb \ sx)	377	0	46	331	324.30
OBM Lab (1 \ ea)	40	0	1	39	55.00
OptiDrill OBM (1 bbl \ bulk)	2856	0	4	2852	524.84
OptiMul (55 gal \ drum)	6	0	4	2	2,720.00
OptiPlus (55 gal \ Drum)	6	0	4	2	3,240.00

Treatment Recommendations

Last 24 hrs: Added Fiber Fluid LCM to the active system. Added Bentone, GSX-509, Lime, OptiMul, OptiVis, OptiPlus and diesel. Added OptiDrill base fluid to maintain 9.0 ppg mud wt.
Next 24 hrs: When on bottom will continue to add Fiber Fluid to the active system. Will continue with the same treatment.

Comments/Remarks

Drilled ahead to 6,356 ft. Pumped slug and POOH. Fiber Fluid LCM additions appear to have stopped downhole losses. Laid down BHA. Began picking up new BHA and TIH to 122 ft at report time.

****Trucking charges from DT 58562,58568,58569.

Daily losses: 4 bbls
Cumulative losses: 3,217 bbls

Daily Tax (US$)	Trucking (US$)	Daily Cost (US$)	19,603.41
871.33	3,709.94	Cumulative Cost (US$)	879,278.63

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Newpark Drilling Fluids, L.L.C. — **Mud Report**

Jerry Ard	**Evanston WY**	
Tel:	Tel:	Tel:
Mbl: (985) 688-1226	Tel:	Tel:
Pgr:	Fax:	Fax:

MudPIT™

Date	11/09/2010	MD (ft)	6,424
Report #	50	TVD (ft)	6,424
Spud Date	09/22/2010	Bit MD (ft)	6,424
API Well #	4302330021	Bit TVD (ft)	6,424
Present Activity		Drilling Ahead	

Operator:	**PIONEER NATURAL RESOURCES**	**Contractor:**	**Nabors 169**
Report For:	**Dean Baker/Bill Vigil**	**Report For:**	**Coby Tuller**

Well Name / No.	Field / Block	Sur - Abs or Sec-T-R	County / Parish	State / Province	Country
SOUTH HILLS FEDERAL # 6-1			JUAB COUNTY	UTAH	USA

Drill String	OD(in)	ID(in)	Length(ft)
TELEDRIFT	8.0	2.875	29.79
DC	8.0	2.875	190.66
DC	6.5	2.875	283.19
HWDP	5.0	3	831.27
DP	5.0	4.28	5089.09

Casing	OD(in)	ID(in)	Top(ft)	Bottom(ft)
Surface Casing	13.375	12.41	0.0	4340

Pump and Circulating Data (check box for Riser Boost)

	Pump 1 ☐	Pump 2 ☐	Pump 3 ☐			
Pump #				Stand Pipe (psi)		2,741
Liner (in)	6.0	6.0	0.0	Calc P.Loss (psi)		1,736
Stroke (in)	10.0	10.0	0.0	ECD (ppg)		9.19
stk/min	192	0	0	Pump # 1	Min	Stks
Efficiency (%)	95	95	95	Surf-Bit	6	1,227
(bbl/stk)	0.083	0.083	0.000	Bott's Up	53	10,214
(gpm)	670	0	0	Surf-Surf	60	11,440
Total (gpm)		670		Tot. Circ.	98	18,857

Bit Data							
Bit Size (in)	12.25						
% Washout	10						
Bit Type:	Smith F67						
Bit #:	20						
(1/32 in)	18	18	18				

Leak Off Test(ppg)	0						
TFA (in²)	0.746						
Noz-Vel (ft/se)	287.47						
Imp-Frc (psi)	897						
PSI Loss (psi)	667.48						
HSI (hp/in²)	2.207						
Sys HHP (hp)	1071.0						
Sys HHP %	24.352						

Active Volume (bbl)							
Annulus:	848						
Drill String:	102						
Pits:	616						
Slug Pit:	21						
Total Circulating Volume	1,566						

Storage Volume(bbl)							
FT #1 10.7	320						
FT #2 9.6	6						
FT #3 7.8	305						
FT #4 7.8	420						
Total Storage Volume	1,051						

Volume Reconciliation (bbl)			
Starting Volume	1323	Total Additions:	48
Water Additions		Hole Losses	4
Oil Additions	48	SCE Losses	18
Chemical Additions:		Other Losses	
Barite Additions:		Total Losses	22
Whole Mud Add:		Mud to Storage:	
Other Additions		Ending Volume:	1349

Fluid Type	Oil-based	Fluid Properties			
Sample From		Pit	Pit		
Time Sample Taken		3:30 AM	4:00 PM		
Depth @ Time of Sample (ft)		6,424	6,366		
Sample Temperature (°F)		91	92		
Weight (ppg)		9.0	9.0		
Funnel Viscosity (sec/qt)		52	52		
Plastic Vis. (cp) @ 150 (°F)		13	12		
Yield Point (lbf/100ft²)		15	16		
Gel Strength (10s/10m) (lbf/100ft²)		13 / 15	13 / 14		
Gel Strength (30 Min) (lbf/100ft²)		16	16		
HPHT Filtrate @ 250 (°F)		4.0	4.0		
Cake (1/32 in)(API/HPHT)		2.0	2.0		
Diesel SG= 0.84		73.0	73.0		
Water (% by vol)		17.0	17.0		
Solids (% by vol)		10.0	10.0		
Electrical Stability (V)		822	799		
Pom (Vsa) cc's Sample 1.0		3.2	3.2		
Vsn (0.282N) cc's Sample 1.0		5.2	5.2		
Lime Content (lb/bbl)		4.1	4.1		
Clom (mg/L)		52,000	52,000		
CaClom (mg/L)		81,380	81,380		
CaClom (lb/bbl)		28	28		
CaCl (ppm in water phase)		323,733	323,733		
Oil/Water Ratio		81 / 19	81 / 19		
Brine Density (S.G.)		1.31	1.31		
LGS (% by vol) SG= 2.60		6.9	6.9		
LGS (lb/bbl)		62.74	62.74		
HGS (% by vol) SG= 4.20		0.9	0.9		
HGS (lb/bbl)		12.514	12.514		
Corrected Solids (% by vol)		8	8		
Flowline Temperature		131.2	132.7		

Hydraulics (ft/min)

Annular Interval	Ann. Vel.	Crit. Vel.
Surface Casing:DP	126.97	351.48
OH:DP	104.72	346.75
OH:HWDP	104.72	346.75
OH:DC	117.68	353.66
OH:DC	139.45	362.44
OH:TELEDRIFT ASSY	139.45	362.44

Operating Data

Avg ROP(ft/hr)	4.0
WOB (Klbs)	31
Rotating Weight	
Rotatary Speed	
Rotating Hrs.	
Sliding Hrs.	
Non-Drlg Hrs.	
P/U (lbs)	
S/O (lbs)	
Torque (lbf-ft)	
Angle	
Azimuth	
Surv. Depth(ft)	

Viscometer Rdgs		Solids Control Equipment					
					Hrs	U/F	O/F
600	41	Shaker	Screens				
300	28	1	84/84/120/120	De-Sander			
200	23	2	84/84/120/120	De-Silter			
100	19	3		Centrifuge			
6	13	4		Centrifuge	2.0		
3	12	M/C			2.0		

Active Products

Materials	Initial	Rec'd	Used	Balance	Cost (US$)
Bentone 910 (50 lb \ sk)	150	100	0	250	0.00
Bulk Tank (50 ton \ ea)	62	0	2	60	100.00
Bulk Tanks Blower (1 \ ea)	86	0	2	84	70.00
Engineering (24 hr) (1 \ ea)	0	0	1	0	500.00
Mica F (50 lb \ sk)	240	96	0	336	0.00
New X-Prima (25 lb \ sk)	0	500	0	500	0.00
OBM Lab (1 \ ea)	39	0	1	38	55.00
OptiDrill OBM (1 bbl \ bulk)	2852	0	18	2834	2,361.78
OptiMul (55 gal \ drum)	2	0	1	1	680.00
OptiPlus (55 gal \ Drum)	2	0	1	1	810.00
Salt (Evaporated)-C (50 lb \ sk)	147	0	4	143	22.52

Treatment Recommendations

Last 24 hrs: Added Lime, OptiMul, OptiPlus, GSX-509, OptiDrill base fluid and diesel. Added Fiber Fluid for LCM.

Next 24 hrs: Will continue with same treatment.

Comments/Remarks

Drilled ahead to 6,424 ft at report time. Downhole losses have been kept to a minimum by additions of Fiber Fluid LCM.

Daily Losses: 22 bbls
Cumulative Losses: 3,239 bbls

Daily Tax (US$)	Trucking (US$)	Daily Cost (US$)	4,845.26
245.96	0.00	Cumulative Cost (US$)	884,123.89

The information in this report is based on our experience and represents our best judgment in the matter and is intended to be helpful, but we cannot assume responsibility for any loss or accident that may result from its use. Furthermore, nothing contained herein shell be construed as a recommendation to use any product in conflict with existing patents covering any materials or uses.

Newpark Drilling Fluids, L.L.C. — **Mud Report**

Jerry Ard	**Evanston WY**	
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MudPIT™

Date	11/11/2010	MD (ft)	6,500
Report #	51	TVD (ft)	6,500
Spud Date	09/22/2010	Bit MD (ft)	6,500
API Well #	4302330021	Bit TVD (ft)	6,500
Present Activity		Drilling Ahead	

Operator:	**PIONEER NATURAL RESOURCES**	**Contractor:**	**Nabors 169**
Report For:	**Dean Baker/Bill Vigil**	**Report For:**	**Coby Tuller**

Well Name / No.	Field / Block	Sur - Abs or Sec-T-R	County / Parish	State / Province	Country
SOUTH HILLS FEDERAL # 6-1			JUAB COUNTY	UTAH	USA

Drill String	OD(in)	ID(in)	Length(ft)
TELEDRIFT	8.0	2.875	29.79
DC	8.0	2.875	190.66
DC	6.5	2.875	283.19
HWDP	5.0	3	831.27
DP	5.0	4.28	5165.09

Casing	OD(in)	ID(in)	Top(ft)	Bottom(ft)
Surface Casing	13.375	12.41	0.0	4340

Pump and Circulating Data (check box for Riser Boost)

	Pump # 1 ☐	2 ☐	3 ☐			
Liner (in)	6.0	6.0	0.0	Stand Pipe (psi)		2,675
Stroke (in)	10.0	10.0	0.0	Calc P.Loss (psi)		1,713
stk/min	190	0	0	ECD (ppg)		9.19
Efficiency (%)	95	95	95	Pump # 1	Min	Stks
(bbl/stk)	0.083	0.083	0.000	Surf-Bit	7	1,243
(gpm)	663	0	0	Bott's Up	54	10,353
Total (gpm)		663		Surf-Surf	61	11,596
				Tot. Circ.	101	19,133

Bit Data							
Bit Size (in)	12.25						
% Washout	10						
Bit Type:	Smith F67						
Bit #:	20						
(1/32 in)	18	18	18				

Leak Off Test(ppg)	0						
TFA (in²)	0.746						
Noz-Vel (ft/se)	284.48						
Imp-Frc (psi)	879						
PSI Loss (psi)	653.65						
HSI (hp/in²)	2.139						
Sys HHP (hp)	1034.4						
Sys HHP %	24.436						

Active Volume (bbl)		Storage Volume(bbl)		Volume Reconciliation (bbl)			
Annulus:	860	FT #1 10.7	203	Starting Volume	1349	Total Additions:	178
Drill String:	103	FT #2 9.6	28	Water Additions		Hole Losses	9
Pits:	626	FT #3 7.8	125	Oil Additions	48	SCE Losses	22
Slug Pit:	31	FT #4 7.8	420	Chemical Additions:		Other Losses	
Total Circulating Volume	1,589	Total Storage Volume	776	Barite Additions:		Total Losses	31
				Whole Mud Add:	130	Mud to Storage:	
				Other Additions		Ending Volume:	1496

Fluid Type	Oil-based						
Sample From			Pit	Pit			
Time Sample Taken			3:30 AM	4:00 PM			
Depth @ Time of Sample (ft)			6,500	6,473			
Sample Temperature	(°F)		91	92			
Weight (ppg)			9.0	9.0			
Funnel Viscosity (sec/qt)			54	53			
Plastic Vis. (cp) @	150	(°F)	13	13			
Yield Point (lbf/100ft²)			15	15			
Gel Strength (10s/10m) (lbf/100ft²)			13 | 15	13 | 14			
Gel Strength (30 Min) (lbf/100ft²)			17	16			
HPHT Filtrate @	250	(°F)	4.0	4.0			
Cake (1/32 in)(API/HPHT)			2.0	2.0			
Diesel	SG=	0.84	74.0	73.0			
Water (% by vol)			16.0	17.0			
Solids (% by vol)			10.0	10.0			
Electrical Stability (V)			801	821			
Pom (Vsa)	cc's Sample	1.0	3.3	3.3			
Vsn (0.282N)	cc's Sample	1.0	5.2	5.2			
Lime Content (lb/bbl)			4.3	4.3			
Clom (mg/L)			52,000	52,000			
CaClom (mg/L)			81,380	81,380			
CaClom (lb/bbl)			28	28			
CaCl (ppm in water phase)			337,145	323,733			
Oil/Water Ratio			82 | 18	81 | 19			
Brine Density (S.G.)			1.32	1.31			
LGS (% by vol)	SG=	2.60	6.7	6.9			
LGS (lb/bbl)			61.256	62.74			
HGS (% by vol)	SG=	4.20	1.0	0.9			
HGS (lb/bbl)			14.564	12.514			
Corrected Solids (% by vol)			8	8			
Flowline Temperature			130.1	132.7			

Hydraulics (ft/min)

Annular Interval	Ann. Vel.	Crit. Vel.
Surface Casing:DP	125.65	351.48
OH:DP	103.62	346.75
OH:HWDP	103.62	346.75
OH:DC	116.46	353.66
OH:DC	138.00	362.44
OH:TELEDRIFT ASSY	138.00	362.44

Operating Data

Avg ROP(ft/hr)	3.2
WOB (Klbs)	51
Rotating Weight	
Rotatary Speed	105
Rotating Hrs.	
Sliding Hrs.	
Non-Drlg Hrs.	
P/U (lbs)	
S/O (lbs)	
Torque (lbf-ft)	
Angle	
Azimuth	
Surv. Depth(ft)	

Viscometer Rdgs		Solids Control Equipment					
600	41	Shaker	Screens		Hrs	U/F	O/F
300	28	1	70/70/70/70	De-Sander			
200	22	2	70/70/70/70	De-Silter			
100	19	3		Centrifuge			
6	13	4		Centrifuge			
3	12	M/C					

Active Products

Materials	Initial	Rec'd	Used	Balance	Cost (US$)
Bentone 910 (50 lb \ sk)	250	0	48	202	3,360.00
Bulk Tank (50 ton \ ea)	60	0	2	58	100.00
Bulk Tanks Blower (1 \ ea)	84	0	2	82	70.00
Engineering (24 hr) (1 \ ea)	0	0	1	0	500.00
GSX-509 (50 lb \ sk)	78	0	7	71	532.00
Lime (50 lb \ sx)	331	0	52	279	366.60
New Seal (50 lb \ sk)	0	-40	0	-40	0.00
New X-Prima (25 lb \ sk)	500	0	89	411	5,762.75
OBM Lab (1 \ ea)	38	0	1	37	55.00
OptiClean (55 gal \ drum)	6	0	1	5	394.80
OptiDrill OBM (1 bbl \ bulk)	2834	0	31	2803	4,067.51
OptiMul (55 gal \ drum)	1	0	1	0	680.00
OptiPlus (55 gal \ Drum)	1	0	1	0	810.00

Treatment Recommendations

Last 24 hrs: Continued to treat active system with Fiber Fluid LCM for downhole losses. Added Bentone, Lime, OptiVis, OptiPlus, GSX-509 and diesel. Added OptiDrill base fluid to keep mud wt at 9.0 ppg.
Next 24 hrs: Will continue with same treatment.

Comments/Remarks

Drilled ahead to 6,500 ft at report time. Had mud pump problems at 6,486 ft and 6,492 ft. Drilled ahead while making repairs.

Daily Losses: 31 bbls
Cumulative Losses: 3,270 bbls

Daily Tax (US$)	Trucking (US$)	Daily Cost (US$)	17,670.58
971.92	0.00	Cumulative Cost (US$)	901,794.47

The information in this report is based on our experience and represents our best judgment in the matter and is intended to be helpful, but we cannot assume responsibility for any loss or accident that may result from its use. Furthermore, nothing contained herein shell be construed as a recommendation to use any product in conflict with existing patents covering any materials or uses.

Newpark Drilling Fluids, L.L.C. — **Mud Report**

Jerry Ard	Evanston WY	
Tel:	Tel:	Tel:
Mbl: (985) 688-1226	Tel:	Tel:
Pgr:	Fax:	Fax:

MudPIT™

Date	11/12/2010	MD (ft)	6,596
Report #	52	TVD (ft)	6,596
Spud Date	09/22/2010	Bit MD (ft)	6,596
API Well #	4302330021	Bit TVD (ft)	6,596
Present Activity		Drilling Ahead	

Operator:	**PIONEER NATURAL RESOURCES**	**Contractor:**	**Nabors 169**
Report For:	**Dean Baker/Bill Vigil**	**Report For:**	**Coby Tuller**

Well Name / No.	Field / Block	Sur - Abs or Sec-T-R	County / Parish	State / Province	Country
SOUTH HILLS FEDERAL # 6-1			JUAB COUNTY	UTAH	USA

Drill String	OD(in)	ID(in)	Length(ft)
TELEDRIFT	8.0	2.875	29.79
DC	8.0	2.875	190.66
DC	6.5	2.875	283.19
HWDP	5.0	3	831.27
DP	5.0	4.28	5261.09

Casing	OD(in)	ID(in)	Top(ft)	Bottom(ft)
Surface Casing	13.375	12.41	0.0	4340

Pump and Circulating Data (check box for Riser Boost)

Pump #	1 ☐	2 ☐	3 ☐	Stand Pipe (psi)		2,750
Liner (in)	6.0	6.0	0.0	Calc P.Loss (psi)		560
Stroke (in)	10.0	10.0	0.0	ECD (ppg)		9.16
stk/min	97	0	0	Pump # 1	Min	Stks
Efficiency (%)	95	95	95	Surf-Bit	13	1,263
(bbl/stk)	0.083	0.083	0.000	Bott's Up	109	10,529
(gpm)	338	0	0	Surf-Surf	122	11,792
Total (gpm)		338		Tot. Circ.	200	19,377

Bit Data

Bit Size (in)	12.25	TFA (in²)	0.746	Leak Off Test(ppg)	0	
% Washout	10	Noz-Vel (ft/se)	145.23			
Bit Type:	Smith F67	Imp-Frc (psi)	229			
Bit #:	20	PSI Loss (psi)	170.36			
(1/32 in)	18 18 18	HSI (hp/in²)	0.285			
		Sys HHP (hp)	542.89			
		Sys HHP %	6.195			

Active Volume (bbl)		Storage Volume(bbl)		Volume Reconciliation (bbl)		Volume Reconciliation (bbl)	
Annulus:	874	FT #1 10.7	203	Starting Volume	1496	Total Additions:	113
Drill String:	105	FT #2 9.6	28	Water Additions		Hole Losses	6
Pits:	630	FT #3 7.8	125	Oil Additions	48	SCE Losses	15
Slug Pit:	40	FT #4 7.8	420	Chemical Additions:		Other Losses	
Total Circulating Volume	1,609	Total Storage Volume	776	Barite Additions:		Total Losses	21
				Whole Mud Add:	65	Mud to Storage:	
				Other Additions		Ending Volume:	1588

Fluid Type	Oil-based	Fluid Properties			
Sample From		Pit	Pit		
Time Sample Taken		3:30 AM	4:00 PM		
Depth @ Time of Sample (ft)		6,596	6,544		
Sample Temperature (°F)		92	95		
Weight (ppg)		9.0	9.0		
Funnel Viscosity (sec/qt)		54	54		
Plastic Vis. (cp) @ 150 (°F)		12	13		
Yield Point (lbf/100ft²)		16	15		
Gel Strength (10s/10m) (lbf/100ft²)		13 15	12 14		
Gel Strength (30 Min) (lbf/100ft²)		16	16		
HPHT Filtrate @ 250 (°F)		4.0	4.0		
Cake (1/32 in)(API/HPHT)		2.0	2.0		
Diesel SG= 0.84		74.0	74.0		
Water (% by vol)		16.0	16.0		
Solids (% by vol)		10.0	10.0		
Electrical Stability (V)		789	802		
Pom (Vsa) cc's Sample 1.0		3.3	3.3		
Vsn (0.282N) cc's Sample 1.0		5.2	5.2		
Lime Content (lb/bbl)		4.3	4.3		
Clom (mg/L)		52,000	52,000		
CaClom (mg/L)		81,380	81,380		
CaClom (lb/bbl)		28	28		
CaCl (ppm in water phase)		337,145	337,145		
Oil/Water Ratio		82 18	82 18		
Brine Density (S.G.)		1.32	1.32		
LGS (% by vol) SG= 2.60		6.7	6.7		
LGS (lb/bbl)		61.256	61.256		
HGS (% by vol) SG= 4.20		1.0	1.0		
HGS (lb/bbl)		14.564	14.564		
Corrected Solids (% by vol)		8	8		
Flowline Temperature		144.7	146.8		

Hydraulics (ft/min)

Annular Interval	Ann. Vel.	Crit. Vel.
Surface Casing:DP	64.15	351.48
OH:DP	52.90	346.75
OH:HWDP	52.90	346.75
OH:DC	59.45	353.66
OH:DC	70.45	362.44
OH:TELEDRIFT ASSY	70.45	362.44

Operating Data

Avg ROP(ft/hr)	4.0
WOB (Klbs)	59
Rotating Weight	
Rotatary Speed	36
Rotating Hrs.	
Sliding Hrs.	
Non-Drlg Hrs.	
P/U (lbs)	
S/O (lbs)	
Torque (lbf-ft)	2674
Angle	
Azimuth	
Surv. Depth(ft)	

Viscometer Rdgs

600	40
300	28
200	23
100	19
6	13
3	12

Solids Control Equipment

Shaker	Screens		Hrs	U/F	O/F
1	70/70/70/70	De-Sander			
2	70/70/70/70	De-Silter			
3		Centrifuge			
4		Centrifuge			
M/C					

Active Products

Materials	Initial	Rec'd	Used	Balance	Cost (US$)
Bentone 910 (50 lb \ sk)	202	0	16	186	1,120.00
Bulk Tank (50 ton \ ea)	58	0	2	56	100.00
Bulk Tanks Blower (1 \ ea)	82	0	2	80	70.00
Engineering (24 hr) (1 \ ea)	0	0	1	0	500.00
Fiber Fluid Cor (25 lb \ sk)	247	0	48	199	1,780.80
GSX-509 (50 lb \ sk)	71	0	4	67	304.00
Lime (50 lb \ sx)	279	0	30	249	211.50
OBM Lab (1 \ ea)	37	0	1	36	55.00
OptiDrill OBM (1 bbl \ bulk)	2803	366	21	3148	2,755.41
OptiVis RM (5 gal \ bucket)	84	0	2	82	189.00

Treatment Recommendations

Last 24 hrs: Continued to add Fiber Fluid LCM, but have cut back to 3 sacks per hr. Added Bentone, OptiVis, Lime, GSX-509 and diesel. Added OptiDrill base fluid as needed to keep mud wt at 9.0 ppg.
Next 24 hrs: Will continue with same treatment.

Comments/Remarks

Drilled ahead to 6,596 ft. Have been drilling with one pump for the last 6 hrs.

Daily Losses: 21 bbls
Cumulative losses: 3,291 bbls

Daily Tax (US$)	Trucking (US$)	Daily Cost (US$)	7,480.85
395.14	0.00	Cumulative Cost (US$)	909,275.32

The information in this report is based on our experience and represents our best judgment in the matter and is intended to be helpful, but we cannot assume responsibility for any loss or accident that may result from its use. Furthermore, nothing contained herein shell be construed as a recommendation to use any product in conflict with existing patents covering any materials or uses.

Newpark Drilling Fluids, L.L.C. — **Mud Report**

Jerry Ard	Evanston WY	
Tel:	Tel:	Tel:
Mbl: (985) 688-1226	Tel:	Tel:
Pgr:	Fax:	Fax:

MudPIT™

Date	11/13/2010	MD (ft)	6,631
Report #	53	TVD (ft)	6,631
Spud Date	09/22/2010	Bit MD (ft)	5,639
API Well #	4302330021	Bit TVD (ft)	5,639
Present Activity		TIH	

Operator:	**PIONEER NATURAL RESOURCES**	**Contractor:**	**Nabors 169**
Report For:	**Dean Baker/Bill Vigil**	**Report For:**	**Coby Tuller**

Well Name / No.	Field / Block	Sur - Abs or Sec-T-R	County / Parish	State / Province	Country
SOUTH HILLS FEDERAL # 6-1			JUAB COUNTY	UTAH	USA

Drill String	OD(in)	ID(in)	Length(ft)
TELEDRIFT	8.0	2.875	24.53
DC	8.0	2.875	223.7
DC	6.5	2.875	280.27
HWDP	5.0	3	831.27
DP	5.0	4.28	4279.23

Casing	OD(in)	ID(in)	Top(ft)	Bottom(ft)
Surface Casing	13.375	12.41	0.0	4340

Pump and Circulating Data (check box for Riser Boost)

Pump #	1 ☐	2 ☐	3 ☐	Stand Pipe (psi)		0
Liner (in)	6.0	6.0	0.0	Calc P.Loss (psi)		0
Stroke (in)	10.0	10.0	0.0	ECD (ppg)		9.10
stk/min	0	0	0	Pump # 1	Min	Stks
Efficiency (%)	95	95	95	Surf-Bit	0	0
(bbl/stk)	0.083	0.083	0.000	Bott's Up	0	0
(gpm)	0	0	0	Surf-Surf	0	0
Total (gpm)		0		Tot. Circ.	0	0

Bit Data						Leak Off Test(ppg)	0
Bit Size (in)	12.25					TFA (in²)	0.746
% Washout	10					Noz-Vel (ft/se)	
Bit Type:	R 50 PDH2					Imp-Frc (psi)	
Bit #:	21					PSI Loss (psi)	
(1/32 in)	18	18	18			HSI (hp/in²)	
						Sys HHP (hp)	
						Sys HHP %	

Active Volume (bbl)		Storage Volume(bbl)		Volume Reconciliation (bbl)			
Annulus:	728	FT #1 10.7	167	Starting Volume	1588	Total Additions:	188
Drill String:	88	FT #2 9.6	220	Water Additions		Hole Losses	42
Pits:	599	FT #3 7.8	215	Oil Additions	48	SCE Losses	8
Slug Pit:	34	FT #4 7.8	350	Chemical Additions:		Other Losses	
Total Circulating Volume		Total Storage Volume		Barite Additions:		Total Losses	50
1,415		952		Whole Mud Add:	140	Mud to Storage:	
Volume Below Bit		175		Other Additions		Ending Volume:	1726

Fluid Type	Oil-based	Fluid Properties	
Sample From		Pit	Pit
Time Sample Taken		3:00 AM	4:00 PM
Depth @ Time of Sample (ft)		6,631	6,630
Sample Temperature (°F)		83	94
Weight (ppg)		9.1	9.0
Funnel Viscosity (sec/qt)		54	54
Plastic Vis. (cp) @ 150 (°F)		12	13
Yield Point (lbf/100ft²)		16	15
Gel Strength (10s/10m) (lbf/100ft²)		14 16	13 14
Gel Strength (30 Min) (lbf/100ft²)		17	17
HPHT Filtrate @ 250 (°F)		4.0	4.0
Cake (1/32 in)(API/HPHT)		2.0	2.0
Diesel SG= 0.84		74.0	74.0
Water (% by vol)		16.0	16.0
Solids (% by vol)		10.0	10.0
Electrical Stability (V)		805	794
Pom (Vsa) cc's Sample 1.0		3.3	3.3
Vsn (0.282N) cc's Sample 1.0		5.2	5.2
Lime Content (lb/bbl)		4.3	4.3
Clom (mg/L)		52,000	52,000
CaClom (mg/L)		81,380	81,380
CaClom (lb/bbl)		28	28
CaCl (ppm in water phase)		337,145	337,145
Oil/Water Ratio		82 18	82 18
Brine Density (S.G.)		1.32	1.32
LGS (% by vol) SG= 2.60		6.0	6.7
LGS (lb/bbl)		54.44	61.256
HGS (% by vol) SG= 4.20		1.7	1.0
HGS (lb/bbl)		25.573	14.564
Corrected Solids (% by vol)		8	8
Flowline Temperature			145.9

Hydraulics (ft/min)

Annular Interval	Ann. Vel.	Crit. Vel.
Surface Casing:DP	0.00	355.12
Surface Casing:HWDP	0.00	355.12
OH:HWDP	0.00	350.83
OH:DC	0.00	357.10
OH:DC	0.00	365.04
OH:TELEDRIFT ASSY	0.00	365.04

Operating Data

Avg ROP(ft/hr)	
WOB (Klbs)	
Rotating Weight	
Rotatary Speed	
Rotating Hrs.	
Sliding Hrs.	
Non-Drlg Hrs.	
P/U (lbs)	
S/O (lbs)	
Torque (lbf-ft)	
Angle	
Azimuth	
Surv. Depth(ft)	

Viscometer Rdgs		Solids Control Equipment					
600	40	Shaker	Screens		Hrs	U/F	O/F
300	28	1	70/70/70/70	De-Sander			
200	24	2	70/70/70/70	De-Silter			
100	20	3		Centrifuge			
6	14	4		Centrifuge			
3	13	M/C					

Active Products

Materials	Initial	Rec'd	Used	Balance	Cost (US$)
Bentone 910 (50 lb \ sk)	186	0	7	179	490.00
Bulk Tank (50 ton \ ea)	56	0	2	54	100.00
Bulk Tanks Blower (1 \ ea)	80	0	2	78	70.00
Engineering (24 hr) (1 \ ea)	0	0	1	0	500.00
Fiber Fluid Cor (25 lb \ sk)	199	200	44	355	1,632.40
GSX-509 (50 lb \ sk)	67	0	3	64	228.00
Lime (50 lb \ sx)	249	0	15	234	105.75
OBM Lab (1 \ ea)	36	0	1	35	55.00
OptiClean (55 gal \ drum)	5	4	0	9	0.00
OptiDrill OBM (1 bbl \ bulk)	3148	0	50	3098	6,560.50
OptiMul (55 gal \ drum)	0	12	0	12	0.00
OptiPlus (55 gal \ Drum)	0	12	1	11	810.00
OptiVis (55 gal \ Drum)	0	4	0	4	0.00
Pallets (1 \ ea)	0	12	12	0	216.00
Shrink Wrap (1 \ ea)	0	4	4	0	48.00
StrataVanguard M (50 lb \ sk)	201	0	50	151	10,500.00

Treatment Recommendations

Last 24 hrs: Added Bentone, Lime, OptiPlus, GSX-509 and diesel. Added Fiber Fluid LCM to the active system. Added OptiDrill base fluid to maintain 9.0 ppg mud wt. Pumped 20 ppb Strata Vanguard sweeps to stem downhole losses.

Next 24 hrs: Will continue with same treatment. Will pump Strata Vanguard sweeps as needed.

Comments/Remarks

Drilled ahead to 6,631 ft. Pumped slug and POOH for bit change. Picked up new bit and TIH to 5,639 ft at report time. Started to show downhole losses before pullling out. Cured the losses with Strata Vanguard LCM sweeps.

Daily Losses: 50 bbls
Cumulative Losses: 3,189 bbls

Daily Tax (US$)	Trucking (US$)	Daily Cost (US$)	22,564.59
1,248.94	0.00	Cumulative Cost (US$)	931,839.91

The information in this report is based on our experience and represents our best judgment in the matter and is intended to be helpful, but we cannot assume responsibility for any loss or accident that may result from its use. Furthermore, nothing contained herein shell be construed as a recommendation to use any product in conflict with existing patents covering any materials or uses.

Newpark Drilling Fluids, L.L.C. — **Mud Report**

Jerry Ard	Evanston WY	
Tel:	Tel:	Tel:
Mbl: (985) 688-1226	Tel:	Tel:
Pgr:	Fax:	Fax:

MudPIT™

Date	11/14/2010	MD (ft)	6,746
Report #	54	TVD (ft)	6,746
Spud Date	09/22/2010	Bit MD (ft)	6,746
API Well #	4302330021	Bit TVD (ft)	6,746
Present Activity		Drilling Ahead	

Operator:	**PIONEER NATURAL RESOURCES**	**Contractor:**	**Nabors 169**
Report For:	**Dean Baker/Bill Vigil**	**Report For:**	**Coby Tuller**

Well Name / No.	Field / Block	Sur - Abs or Sec-T-R	County / Parish	State / Province	Country
SOUTH HILLS FEDERAL # 6-1			JUAB COUNTY	UTAH	USA

Drill String	OD(in)	ID(in)	Length(ft)
TELEDRIFT	8.0	2.875	24.53
DC	8.0	2.875	223.7
DC	6.5	2.875	280.27
HWDP	5.0	3	831.27
DP	5.0	4.28	5386.23

Casing	OD(in)	ID(in)	Top(ft)	Bottom(ft)
Surface Casing	13.375	12.41	0.0	4340

Pump and Circulating Data (check box for Riser Boost)

Pump #	1 ☐	2 ☐	3 ☐	Stand Pipe (psi)		2,791
Liner (in)	6.0	6.0	0.0	Calc P.Loss (psi)		1,748
Stroke (in)	10.0	10.0	0.0	ECD (ppg)		9.19
stk/min	190	0	0	Pump # 1	Min	Stks
Efficiency (%)	95	95	95	Surf-Bit	7	1,293
(bbl/stk)	0.083	0.083	0.000	Bott's Up	57	10,791
(gpm)	663	0	0	Surf-Surf	64	12,084
Total (gpm)		663		Tot. Circ.	99	18,874

Bit Data							
Bit Size (in)	12.25						
% Washout	10						
Bit Type:	R 50 PDH2						
Bit #:	21						
(1/32 in)	18	18	18				

Leak Off Test(ppg)	0						
TFA (in²)	0.746						
Noz-Vel (ft/se)	284.48						
Imp-Frc (psi)	879						
PSI Loss (psi)	653.65						
HSI (hp/in²)	2.139						
Sys HHP (hp)	1079.2						
Sys HHP %	23.42						

Active Volume (bbl)		Storage Volume(bbl)		Volume Reconciliation (bbl)			
Annulus:	896	FT #1 10.7	140	Starting Volume	1726	Total Additions:	91
Drill String:	107	FT #2 9.6	220	Water Additions		Hole Losses	17
Pits:	564	FT #3 7.8	215	Oil Additions	48	SCE Losses	25
Slug Pit:	32	FT #4 7.8	350	Chemical Additions:		Other Losses	
Total Circulating Volume	1,568	Total Storage Volume	925	Barite Additions:	3	Total Losses	42
				Whole Mud Add:	40	Mud to Storage:	
			0	Other Additions		Ending Volume:	1775

Fluid Type	Oil-based	Fluid Properties			
Sample From		Pit	Pit		
Time Sample Taken		3:30 AM	4:00 PM		
Depth @ Time of Sample (ft)		6,746	6,681		
Sample Temperature (°F)		92	93		
Weight (ppg)		9.0	9.0		
Funnel Viscosity (sec/qt)		55	54		
Plastic Vis. (cp) @ 150 (°F)		13	12		
Yield Point (lbf/100ft²)		15	16		
Gel Strength (10s/10m) (lbf/100ft²)		14 15	14 16		
Gel Strength (30 Min) (lbf/100ft²)		16	18		
HPHT Filtrate @ 250 (°F)		4.0	4.0		
Cake (1/32 in)(API/HPHT)		2.0	2.0		
Diesel SG= 0.84		74.0	74.0		
Water (% by vol)		16.0	16.0		
Solids (% by vol)		10.0	10.0		
Electrical Stability (V)		828	822		
Pom (Vsa) cc's Sample 1.0		3.3	3.3		
Vsn (0.282N) cc's Sample 1.0		5.2	5.2		
Lime Content (lb/bbl)		4.3	4.3		
Clom (mg/L)		52,000	52,000		
CaClom (mg/L)		81,380	81,380		
CaClom (lb/bbl)		28	28		
CaCl (ppm in water phase)		337,145	337,145		
Oil/Water Ratio		82 18	82 18		
Brine Density (S.G.)		1.32	1.32		
LGS (% by vol) SG= 2.60		6.7	6.7		
LGS (lb/bbl)		61.256	61.256		
HGS (% by vol) SG= 4.20		1.0	1.0		
HGS (lb/bbl)		14.564	14.564		
Corrected Solids (% by vol)		8	8		
Flowline Temperature		144.3	144.8		

Hydraulics (ft/min)

Annular Interval	Ann. Vel.	Crit. Vel.
Surface Casing:DP	125.65	357.26
OH:DP	103.62	352.95
OH:HWDP	103.62	352.95
OH:DC	116.46	359.26
OH:DC	138.00	367.25
OH:TELEDRIFT ASSY	138.00	367.25

Operating Data

Avg ROP(ft/hr)	4.8
WOB (Klbs)	58
Rotating Weight	
Rotatary Speed	105
Rotating Hrs.	
Sliding Hrs.	
Non-Drlg Hrs.	
P/U (lbs)	
S/O (lbs)	
Torque (lbf-ft)	2987
Angle	
Azimuth	
Surv. Depth(ft)	

Viscometer Rdgs		Solids Control Equipment					
600	41	Shaker	Screens		Hrs	U/F	O/F
300	28	1	70/70/70/70	De-Sander			
200	25	2	70/70/70/70	De-Silter			
100	21	3		Centrifuge			
6	14	4		Centrifuge			
3	13	M/C					

Active Products

Materials	Initial	Rec'd	Used	Balance	Cost (US$)
Bentone 910 (50 lb \ sk)	179	0	14	165	980.00
Bulk Tank (50 ton \ ea)	54	0	2	52	100.00
Bulk Tanks Blower (1 \ ea)	78	0	2	76	70.00
Engineering (24 hr) (1 \ ea)	0	0	1	0	500.00
Fiber Fluid Cor (25 lb \ sk)	355	0	110	245	4,081.00
GSX-509 (50 lb \ sk)	64	0	3	61	228.00
Lime (50 lb \ sx)	234	0	24	210	169.20
New Bar (Ton \ bulk)	78.12	0	2.5	75.62	297.50
OBM Lab (1 \ ea)	35	0	1	34	55.00
OptiDrill OBM (1 bbl \ bulk)	3098	0	42	3056	5,510.82
OptiMul (55 gal \ drum)	12	0	1	11	680.00
OptiPlus (55 gal \ Drum)	11	0	1	10	810.00
StrataVanguard M (50 lb \ sk)	151	0	20	131	4,200.00

Treatment Recommendations

Last 24 hrs: Added Bentone, Lime, OptiMul, OptiPlus, GSX-509 and diesel. Added OptiDrill base fluid to maintain 9.0 ppg mud wt. Added Fiber Fluid and Strata Vanguard to active system to control downhole losses.

Next 24 hrs: Will continue with same treatment.

Comments/Remarks

Picked up new bit and TIH to bottom. Detected no fill. Drilled ahead to 6,746 ft at report time.

Daily Losses: 42 bbls
Cumulative Losses: 3,231 bbls

Daily Tax (US$)	Trucking (US$)	Daily Cost (US$)	18,712.41
1,030.89	0.00	Cumulative Cost (US$)	950,552.32

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Newpark Drilling Fluids, L.L.C. — **Mud Report**

Jerry Ard	Evanston WY	
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Mbl: (985) 688-1226	Tel:	Tel:
Pgr:	Fax:	Fax:

MudPIT™

Date	11/15/2010	MD (ft)	6,839
Report #	55	TVD (ft)	6,839
Spud Date	09/22/2010	Bit MD (ft)	6,839
API Well #	4302330021	Bit TVD (ft)	6,839
Present Activity		Drilling Ahead	

Operator:	**PIONEER NATURAL RESOURCES**	**Contractor:**	**Nabors 169**
Report For:	**Dean Baker/Bill Vigil**	**Report For:**	**Coby Tuller**

Well Name / No.	Field / Block	Sur - Abs or Sec-T-R	County / Parish	State / Province	Country
SOUTH HILLS FEDERAL # 6-1			JUAB COUNTY	UTAH	USA

Drill String	OD(in)	ID(in)	Length(ft)
TELEDRIFT	8.0	2.875	24.53
DC	8.0	2.875	223.7
DC	6.5	2.875	280.27
HWDP	5.0	3	831.27
DP	5.0	4.28	5479.23

Casing	OD(in)	ID(in)	Top(ft)	Bottom(ft)
Surface Casing	13.375	12.41	0.0	4340

Pump and Circulating Data (check box for Riser Boost)

Pump #	1 ☐	2 ☐	3 ☐	Stand Pipe (psi)		2,709
Liner (in)	6.0	6.0	0.0	Calc P.Loss (psi)		1,749
Stroke (in)	10.0	10.0	0.0	ECD (ppg)		9.20
stk/min	190	0	0	Pump # 1	Min	Stks
Efficiency (%)	95	95	95	Surf-Bit	7	1,313
(bbl/stk)	0.083	0.083	0.000	Bott's Up	58	10,962
(gpm)	663	0	0	Surf-Surf	65	12,274
Total (gpm)		663		Tot. Circ.	102	19,317

Bit Data							
Bit Size (in)	12.25						
% Washout	10						
Bit Type:	R 50 PDH2						
Bit #:	21						
(1/32 in)	18	18	18				

Leak Off Test(ppg)	0						
TFA (in²)	0.746						
Noz-Vel (ft/se)	284.48						
Imp-Frc (psi)	879						
PSI Loss (psi)	653.65						
HSI (hp/in²)	2.139						
Sys HHP (hp)	1047.5						
Sys HHP %	24.129						

Active Volume (bbl)		Storage Volume(bbl)		Volume Reconciliation (bbl)			
Annulus:	910	FT #1 10.7	145	Starting Volume	1775	Total Additions:	116
Drill String:	109	FT #2 9.6	375	Water Additions		Hole Losses	31
Pits:	585	FT #3 7.8	490	Oil Additions	48	SCE Losses	53
Slug Pit:	41	FT #4 7.8	350	Chemical Additions:		Other Losses	
Total Circulating Volume	1,604	Total Storage Volume	1,360	Barite Additions:	3	Total Losses	84
				Whole Mud Add:	65	Mud to Storage:	
			0	Other Additions		Ending Volume:	1807

Fluid Type	Oil-based	Fluid Properties			
Sample From		Pit	Pit		
Time Sample Taken		3:30 AM	4:00 PM		
Depth @ Time of Sample (ft)		6,839	6,801		
Sample Temperature (°F)		92	93		
Weight (ppg)		9.0	9.0		
Funnel Viscosity (sec/qt)		55	54		
Plastic Vis. (cp) @ 150 (°F)		13	12		
Yield Point (lbf/100ft²)		16	15		
Gel Strength (10s/10m) (lbf/100ft²)		15 16	15 17		
Gel Strength (30 Min) (lbf/100ft²)		19	18		
HPHT Filtrate @ 250 (°F)		3.5	3.4		
Cake (1/32 in)(API/HPHT)		2.0	2.0		
Diesel SG= 0.84		74.0	74.0		
Water (% by vol)		16.0	16.0		
Solids (% by vol)		10.0	10.0		
Electrical Stability (V)		841	823		
Pom (Vsa) cc's Sample 1.0		3.6	3.6		
Vsn (0.282N) cc's Sample 1.0		5.1	5.1		
Lime Content (lb/bbl)		4.7	4.7		
Clom (mg/L)		51,000	51,000		
CaClom (mg/L)		79,815	79,815		
CaClom (lb/bbl)		28	28		
CaCl (ppm in water phase)		332,819	332,819		
Oil/Water Ratio		82 18	82 18		
Brine Density (S.G.)		1.32	1.32		
LGS (% by vol) SG= 2.60		6.8	6.8		
LGS (lb/bbl)		61.592	61.592		
HGS (% by vol) SG= 4.20		1.0	1.0		
HGS (lb/bbl)		14.775	14.775		
Corrected Solids (% by vol)		8	8		
Flowline Temperature		137.6	140.4		

Hydraulics (ft/min)

Annular Interval	Ann. Vel.	Crit. Vel.
Surface Casing:DP	125.65	366.93
OH:DP	103.62	362.75
OH:HWDP	103.62	362.75
OH:DC	116.46	368.86
OH:DC	138.00	376.61
OH:TELEDRIFT ASSY	138.00	376.61

Operating Data

Avg ROP(ft/hr)	4.0
WOB (Klbs)	59
Rotating Weight	
Rotatary Speed	71
Rotating Hrs.	
Sliding Hrs.	
Non-Drlg Hrs.	
P/U (lbs)	
S/O (lbs)	
Torque (lbf-ft)	2670
Angle	
Azimuth	
Surv. Depth(ft)	

Viscometer Rdgs		Solids Control Equipment					
600	42	Shaker	Screens		Hrs	U/F	O/F
300	29	1	70/70/70/70	De-Sander			
200	26	2	70/70/70/70	De-Silter	12.0		
100	23	3		Centrifuge	12.0		
6	15	4		Centrifuge	12.0		
3	14	M/C			12.0		

Active Products

Materials	Initial	Rec'd	Used	Balance	Cost (US$)
Bentone 910 (50 lb \ sk)	165	0	48	117	3,360.00
Bulk Tank (50 ton \ ea)	52	0	2	50	100.00
Bulk Tanks Blower (1 \ ea)	76	0	2	74	70.00
Engineering (24 hr) (1 \ ea)	0	0	1	0	500.00
Fiber Fluid Cor (25 lb \ sk)	245	0	225	20	8,347.50
GSX-509 (50 lb \ sk)	61	0	6	55	456.00
Lime (50 lb \ sx)	210	0	48	162	338.40
New Bar (Ton \ bulk)	75.62	0	2.4	73.22	285.60
OBM Lab (1 \ ea)	34	0	1	33	55.00
Oil Dry (50 lb \ sack)	72	0	3	69	35.70
OptiDrill OBM (1 bbl \ bulk)	3056	480	84	3452	11,021.64
OptiMul (55 gal \ drum)	11	0	3	8	2,040.00
OptiPlus (55 gal \ Drum)	10	0	2	8	1,620.00
Salt (Evaporated)-C (50 lb \ sk)	143	0	6	137	33.78
StrataVanguard M (50 lb \ sk)	131	0	40	91	8,400.00

Treatment Recommendations

Last 24 hrs: Added Fiber Fluid to the active system. Added Bentone, Lime, OptiPlus, OptiMul, GSX-509 and diesel. Added OptiDrill base fluid to maintain a 9.0 ppg mud wt. Added LCM to the active system as described in today's Comments.

Next 24 hrs: Will continue with the same treatment. Will complete LCM plan.

Comments/Remarks

Drilled ahead to 6,839 ft at report time. We were warned by the Mud Logger that we will be crossing a fault within the next 200'-300' the Geologist expects will result in loss returns. In preparation for this situation, we have pulled the screens off the shakers and added 15 ppb LCM to the active system, built a 70 bbl, 35 ppb LCM pill in the Pill Pit and will add 30 ppb of Strata Vanguard to the mud in the Pre-Mix Pit.

Daily Losses: 84 bbls
Cumulative Losses: 3,315 bbls

**** Trucking charges are for 3 shipments of OptiDrill OBM base fluid from Sand Draw, WY; ticket #'s P59523, P59528, P59540

Daily Tax (US$)	Trucking (US$)	Daily Cost (US$)	69,853.44
2,169.82	31,020.00	Cumulative Cost (US$)	1,020,405.76

The information in this report is based on our experience and represents our best judgment in the matter and is intended to be helpful, but we cannot assume responsibility for any loss or accident that may result from its use. Furthermore, nothing contained herein shell be construed as a recommendation to use any product in conflict with existing patents covering any materials or uses.

Newpark Drilling Fluids, L.L.C.

Mud Report

Jerry Ard	Evanston WY	
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Mbl: (985) 688-1226	Tel:	Tel:
Pgr:	Fax:	Fax:

MudPIT™

Date	11/16/2010	MD (ft)	6,887
Report #	56	TVD (ft)	6,887
Spud Date	09/22/2010	Bit MD (ft)	6,887
API Well #	4302330021	Bit TVD (ft)	6,887
Present Activity		Drilling Ahead	

Operator:	**PIONEER NATURAL RESOURCES**	**Contractor:**	**Nabors 169**
Report For:	**Dean Baker/Bill Vigil**	**Report For:**	**Coby Tuller**

Well Name / No.	Field / Block	Sur - Abs or Sec-T-R	County / Parish	State / Province	Country
SOUTH HILLS FEDERAL # 6-1			JUAB COUNTY	UTAH	USA

Drill String	OD(in)	ID(in)	Length(ft)
TELEDRIFT	8.0	2.875	24.53
DC	8.0	2.875	223.7
DC	6.5	2.875	280.27
HWDP	5.0	3	831.27
DP	5.0	4.28	5527.23

Casing	OD(in)	ID(in)	Top(ft)	Bottom(ft)
Surface Casing	13.375	12.41	0.0	4340

Pump and Circulating Data (check box for Riser Boost)						
Pump #	1 ☐	2 ☐	3 ☐	Stand Pipe (psi)		2,326
Liner (in)	6.0	6.0	0.0	Calc P.Loss (psi)		1,286
Stroke (in)	10.0	10.0	0.0	ECD (ppg)		9.19
stk/min	160	0	0	Pump # 1	Min	Stks
Efficiency (%)	95	95	95	Surf-Bit	8	1,323
(bbl/stk)	0.083	0.083	0.000	Bott's Up	69	11,049
(gpm)	558	0	0	Surf-Surf	77	12,372
Total (gpm)		558		Tot. Circ.	121	19,283

Bit Data							
Bit Size (in)	12.25						
% Washout	10						
Bit Type:	R 50 PDH2						
Bit #:	21						
(1/32 in)	18	18	18				

Leak Off Test(ppg)	0						
TFA (in²)	0.746						
Noz-Vel (ft/se)	239.56						
Imp-Frc (psi)	623						
PSI Loss (psi)	463.53						
HSI (hp/in²)	1.277						
Sys HHP (hp)	757.43						
Sys HHP %	19.928						

Active Volume (bbl)		Storage Volume(bbl)		Volume Reconciliation (bbl)			
Annulus:	918	FT #1 10.7	145	Starting Volume	1807	Total Additions:	48
Drill String:	110	FT #2 9.6	375	Water Additions		Hole Losses	
Pits:	574	FT #3 7.8	490	Oil Additions	48	SCE Losses	
Slug Pit:	50	FT #4 7.8	350	Chemical Additions:		Other Losses	
Total Circulating Volume	1,602	Total Storage Volume	1,360	Barite Additions:		Total Losses	
				Whole Mud Add:		Mud to Storage:	
Volume Below Bit	0			Other Additions		Ending Volume:	1855

Fluid Type	Oil-based	Fluid Properties							
Sample From		Pit	Pit						
Time Sample Taken		3:30 AM	4:00 PM						
Depth @ Time of Sample (ft)		6,887	6,885						
Sample Temperature (°F)		92	91						
Weight (ppg)		9.0	9.0						
Funnel Viscosity (sec/qt)		56	55						
Plastic Vis. (cp) @ 150 (°F)		12	13						
Yield Point (lbf/100ft²)		16	16						
Gel Strength (10s/10m) (lbf/100ft²)		14 / 16	13 / 15						
Gel Strength (30 Min) (lbf/100ft²)		17	16						
HPHT Filtrate @ 250 (°F)		3.5	3.5						
Cake (1/32 in)(API/HPHT)		2.0	2.0						
Diesel SG= 0.84		74.0	74.0						
Water (% by vol)		16.0	16.0						
Solids (% by vol)		10.0	10.0						
Electrical Stability (V)		864	821						
Pom (Vsa) cc's Sample 1.0		3.6	3.6						
Vsn (0.282N) cc's Sample 1.0		5.2	5.2						
Lime Content (lb/bbl)		4.7	4.7						
Clom (mg/L)		52,000	52,000						
CaClom (mg/L)		81,380	81,380						
CaClom (lb/bbl)		28	28						
CaCl (ppm in water phase)		337,145	337,145						
Oil/Water Ratio		82 / 18	82 / 18						
Brine Density (S.G.)		1.32	1.32						
LGS (% by vol) SG= 2.60		6.7	6.7						
LGS (lb/bbl)		61.256	61.256						
HGS (% by vol) SG= 4.20		1.0	1.0						
HGS (lb/bbl)		14.564	14.564						
Corrected Solids (% by vol)		8	8						
Flowline Temperature		133.5	132.7						

Hydraulics (ft/min)			Operating Data	
Annular Interval	Ann. Vel.	Crit. Vel.	Avg ROP(ft/hr)	
Surface Casing:DP	105.81	357.26	WOB (Klbs)	57
OH:DP	87.26	352.95	Rotating Weight	
OH:HWDP	87.26	352.95	Rotatary Speed	112
OH:DC	98.07	359.26	Rotating Hrs.	
OH:DC	116.21	367.25	Sliding Hrs.	
OH:TELEDRIFT ASSY	116.21	367.25	Non-Drlg Hrs.	
			P/U (lbs)	
			S/O (lbs)	
			Torque (lbf-ft)	2164
			Angle	
			Azimuth	
			Surv. Depth(ft)	

Viscometer Rdgs		Solids Control Equipment					
600	40	Shaker	Screens		Hrs	U/F	O/F
300	28	1	70/70/70/70	De-Sander			
200	25	2	70/70/70/70	De-Silter	8.0		
100	20	3		Centrifuge			
6	14	4		Centrifuge			
3	13	M/C			8.0		

Active Products

Materials	Initial	Rec'd	Used	Balance	Cost (US$)
Bentone 910 (50 lb \ sk)	117	0	8	109	560.00
Bulk Tank (50 ton \ ea)	50	0	2	48	100.00
Bulk Tanks Blower (1 \ ea)	74	0	2	72	70.00
Cyber Seal (25 lb \ sk)	273	0	26	247	964.60
Drum Disposal (1 \ ea)	0	12	0	12	0.00
Dyna Fiber Cor (25 # \ sk)	200	0	114	86	2,257.20
Engineering (24 hr) (1 \ ea)	0	0	1	0	500.00
Fiber Fluid Cor (25 lb \ sk)	20	0	114	-94	4,229.40
Lime (50 lb \ sx)	162	200	24	338	169.20
Mica F (50 lb \ sk)	336	0	127	209	2,482.85
OBM Lab (1 \ ea)	33	0	1	32	55.00
OptiClean (55 gal \ drum)	9	4	1	12	394.80
OptiMul (55 gal \ drum)	8	4	2	10	1,360.00
OptiPlus (55 gal \ Drum)	8	4	1	11	810.00
Pallets (1 \ ea)	0	13	0	13	0.00
Shrink Wrap (1 \ ea)	0	10	0	10	0.00
StrataVanguard M (50 lb \ sk)	91	300	0	391	0.00
Walnut Shell F (50 lb \ sk)	50	0	50	0	1,150.00
Walnut Shell M (50 lb \ sk)	196	0	77	119	1,771.00

Treatment Recommendations

Last 24 hrs: Added OptiMul, OptiPlus, Lime, diesel and OptiDrill base fluid to maintain a 9.0 ppg mud wt.

Next 24 hrs: Will add Fiber Fluid LCM as needed. Will add Bentone, Lime, OptiMul, OptiPlus and diesel. Will add mud from the Pre-Mix pit as needed for volume.

Comments/Remarks

Drilled ahead to 6,887 ft. Put full screens back on the shakers.

****Trucking charges from DT EVA2478

Daily Tax (US$)	Trucking (US$)	Daily Cost (US$)	19,443.49
982.44	1,587.00	Cumulative Cost (US$)	1,039,849.25

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Newpark Drilling Fluids, L.L.C. — **Mud Report**

Jerry Ard	Evanston WY	
Tel:	Tel:	Tel:
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Pgr:	Fax:	Fax:

MudPIT™

Date	11/17/2010	MD (ft)	7,027
Report #	57	TVD (ft)	7,027
Spud Date	09/22/2010	Bit MD (ft)	7,027
API Well #	4302330021	Bit TVD (ft)	7,027
Present Activity		Drilling Ahead	

Operator:	**PIONEER NATURAL RESOURCES**	**Contractor:**	**Nabors 169**
Report For:	**Dean Baker/Derrick Berry**	**Report For:**	**Coby Tuller**

Well Name / No.	Field / Block	Sur - Abs or Sec-T-R	County / Parish	State / Province	Country
SOUTH HILLS FEDERAL # 6-1			JUAB COUNTY	UTAH	USA

Drill String	OD(in)	ID(in)	Length(ft)
TELEDRIFT	8.0	2.875	24.53
DC	8.0	2.875	223.7
DC	6.5	2.875	280.27
HWDP	5.0	3	831.27
DP	5.0	4.28	5667.23

Casing	OD(in)	ID(in)	Top(ft)	Bottom(ft)
Surface Casing	13.375	12.41	0.0	4340

Pump and Circulating Data (check box for Riser Boost)

Pump #	1 ☐	2 ☐	3 ☐	Stand Pipe (psi)		2,326
Liner (in)	6.0	6.0	0.0	Calc P.Loss (psi)		1,419
Stroke (in)	10.0	10.0	0.0	ECD (ppg)		9.20
stk/min	170	0	0	Pump # 1	Min	Stks
Efficiency (%)	95	95	95	Surf-Bit	8	1,353
(bbl/stk)	0.083	0.083	0.000	Bott's Up	66	11,306
(gpm)	593	0	0	Surf-Surf	74	12,659
Total (gpm)		593		Tot. Circ.	113	19,208

Bit Data								Leak Off Test(ppg)	0
Bit Size (in)	12.25							TFA (in²)	0.746
% Washout	10							Noz-Vel (ft/se)	254.53
Bit Type:	R 50 PDH2							Imp-Frc (psi)	703
Bit #:	21							PSI Loss (psi)	523.28
(1/32 in)	18	18	18					HSI (hp/in²)	1.532
								Sys HHP (hp)	804.77
								Sys HHP %	22.497

Active Volume (bbl)		Storage Volume(bbl)	
Annulus:	939	FT #1 10.7	145
Drill String:	112	FT #2 9.6	375
Pits:	544	FT #3 7.8	490
Slug Pit:	49	FT #4 7.8	350
Total Circulating Volume	1,595	Total Storage Volume	1,360
Volume Below Bit			0

Volume Reconciliation (bbl)			
Starting Volume	1855	Total Additions:	58
Water Additions	10	Hole Losses	48
Oil Additions	48	SCE Losses	36
Chemical Additions:		Other Losses	
Barite Additions:		Total Losses	84
Whole Mud Add:		Mud to Storage:	
Other Additions		Ending Volume:	1829

Fluid Type	Oil-based	Fluid Properties			
Sample From		Pit	Pit		
Time Sample Taken		3:30 AM	4:00 PM		
Depth @ Time of Sample (ft)		7,027	6,970		
Sample Temperature (°F)		92	93		
Weight (ppg)		9.0	9.0		
Funnel Viscosity (sec/qt)		56	55		
Plastic Vis. (cp) @ 150 (°F)		12	13		
Yield Point (lbf/100ft²)		18	16		
Gel Strength (10s/10m) (lbf/100ft²)		15 | 16	14 | 16		
Gel Strength (30 Min) (lbf/100ft²)		18	18		
HPHT Filtrate @ 250 (°F)		3.0	3.5		
Cake (1/32 in)(API/HPHT)		2.0	2.0		
Diesel SG= 0.84		74.0	74.0		
Water (% by vol)		16.0	16.0		
Solids (% by vol)		10.0	10.0		
Electrical Stability (V)		855	828		
Pom (Vsa) cc's Sample 1.0		3.6	3.6		
Vsn (0.282N) cc's Sample 1.0		5.2	5.2		
Lime Content (lb/bbl)		4.7	4.7		
Clom (mg/L)		52,000	52,000		
CaClom (mg/L)		81,380	81,380		
CaClom (lb/bbl)		28	28		
CaCl (ppm in water phase)		337,145	337,145		
Oil/Water Ratio		82 | 18	82 | 18		
Brine Density (S.G.)		1.32	1.32		
LGS (% by vol) SG= 2.60		6.7	6.7		
LGS (lb/bbl)		61.256	61.256		
HGS (% by vol) SG= 4.20		1.0	1.0		
HGS (lb/bbl)		14.564	14.564		
Corrected Solids (% by vol)		8	8		
Flowline Temperature		132.6	132.7		

Hydraulics (ft/min)			Operating Data	
Annular Interval	Ann. Vel.	Crit. Vel.	Avg ROP(ft/hr)	5.5
Surface Casing:DP	112.42	371.33	WOB (Klbs)	28
OH:DP	92.72	366.88	Rotating Weight	
OH:HWDP	92.72	366.88	Rotatary Speed	97
OH:DC	104.20	373.39	Rotating Hrs.	
OH:DC	123.47	381.63	Sliding Hrs.	
OH:TELEDRIFT ASSY	123.47	381.63	Non-Drlg Hrs.	
			P/U (lbs)	
			S/O (lbs)	
			Torque (lbf-ft)	3191
			Angle	
			Azimuth	
			Surv. Depth(ft)	

Viscometer Rdgs		Solids Control Equipment					
600	42	Shaker	Screens		Hrs	U/F	O/F
300	30	1	70/70/70/70	De-Sander			
200	26	2	70/70/70/70	De-Silter	24.0		
100	23	3		Centrifuge	24.0		
6	15	4		Centrifuge	24.0		
3	14	M/C			24.0		

Active Products

Materials	Initial	Rec'd	Used	Balance	Cost (US$)
Bentone 910 (50 lb \ sk)	109	0	4	105	280.00
Bulk Tank (50 ton \ ea)	48	0	2	46	100.00
Bulk Tanks Blower (1 \ ea)	72	0	2	70	70.00
Engineering (24 hr) (1 \ ea)	0	0	1	0	500.00
Fiber Fluid Cor (25 lb \ sk)	-94	560	0	466	0.00
Lime (50 lb \ sx)	338	0	19	319	133.95
OBM Lab (1 \ ea)	32	0	1	31	55.00
OptiDrill OBM (1 bbl \ bulk)	3452	0	84	3368	11,021.64
OptiMul (55 gal \ drum)	10	0	3	7	2,040.00
OptiPlus (55 gal \ Drum)	11	0	3	8	2,430.00
Pallets (1 \ ea)	13	12	25	0	450.00
Shrink Wrap (1 \ ea)	10	12	22	0	264.00

Treatment Recommendations

Last 24 hrs: Added Fiber Fluid LCM to active system. Pumped 30 bbl, 25 ppb Strata Vanguard sweeps as needed for downhole losses. Added Lime, GSX-509, OptiMul, OptiPlus and diesel.

Next 24 hrs: Will continue with LCM treatments and sweeps as needed. Will add Lime, OptiPlus, OptiThin and diesel. Will add OptiDrill base fluid if needed to maintain 9.0 ppg mud wt.

Comments/Remarks

Drilled ahead to 7,027 ft at report time. Pumped 30 bbl, 25 ppb Strata Vanguard sweeps for downhole losses as needed.

Daily Losses: 84 bbls
Cumulative Losses: 3,280 bbls

Daily Tax (US$)	Trucking (US$)	Daily Cost (US$)	18,355.27
1,010.68	0.00	Cumulative Cost (US$)	1,058,204.52

The information in this report is based on our experience and represents our best judgment in the matter and is intended to be helpful, but we cannot assume responsibility for any loss or accident that may result from its use. Furthermore, nothing contained herein shell be construed as a recommendation to use any product in conflict with existing patents covering any materials or uses.

Newpark Drilling Fluids, L.L.C. — Mud Report

Jerry Ard	Evanston WY	
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Mbl: (985) 688-1226	Tel:	Tel:
Pgr:	Fax:	Fax:

MudPIT™

Date	11/18/2010	MD (ft)	7,105
Report #	58	TVD (ft)	7,105
Spud Date	09/22/2010	Bit MD (ft)	7,105
API Well #	4302330021	Bit TVD (ft)	7,105
Present Activity		Drilling Ahead	

Operator:	**PIONEER NATURAL RESOURCES**	**Contractor:**	**Nabors 169**
Report For:	**Dean Baker/Derrick Berry**	**Report For:**	**Coby Tuller**

Well Name / No.	Field / Block	Sur - Abs or Sec-T-R	County / Parish	State / Province	Country
SOUTH HILLS FEDERAL # 6-1			JUAB COUNTY	UTAH	USA

Drill String	OD(in)	ID(in)	Length(ft)
TELEDRIFT	8.0	2.875	24.53
DC	8.0	2.875	223.7
DC	6.5	2.875	280.27
HWDP	5.0	3	831.27
DP	5.0	4.28	5745.23

Casing	OD(in)	ID(in)	Top(ft)	Bottom(ft)
Surface Casing	13.375	12.41	0.0	4340

Pump and Circulating Data (check box for Riser Boost)

Pump #	1 ☐	2 ☐	3 ☐	Stand Pipe (psi)		2,184
Liner (in)	6.0	6.0	0.0	Calc P.Loss (psi)		1,341
Stroke (in)	10.0	10.0	0.0	ECD (ppg)		9.19
stk/min	164	0	0	Pump # 1	Min	Stks
Efficiency (%)	95	95	95	Surf-Bit	8	1,370
(bbl/stk)	0.083	0.083	0.000	Bott's Up	70	11,449
(gpm)	572	0	0	Surf-Surf	78	12,818
Total (gpm)		572		Tot. Circ.	121	19,886

Bit Data

Bit Size (in)	12.25	TFA (in²)	0.746	Leak Off Test(ppg)	0
% Washout	10	Noz-Vel (ft/se)	245.55		
Bit Type:	R 50 PDH2	Imp-Frc (psi)	655		
Bit #:	21	PSI Loss (psi)	487.0		
(1/32 in)	18 18 18	HSI (hp/in²)	1.376		
		Sys HHP (hp)	728.97		
		Sys HHP %	22.299		

Active Volume (bbl)		Storage Volume(bbl)	
Annulus:	951	FT #1 10.7	145
Drill String:	114	FT #2 9.6	375
Pits:	587	FT #3 7.8	490
Slug Pit:	25	FT #4 7.8	350
Total Circulating Volume	1,652	Total Storage Volume	1,360
Volume Below Bit			0

Volume Reconciliation (bbl)			
Starting Volume	1829	Total Additions:	274
Water Additions		Hole Losses	134
Oil Additions	48	SCE Losses	22
Chemical Additions:		Other Losses	
Barite Additions:	31	Total Losses	156
Whole Mud Add:	195	Mud to Storage:	
Other Additions		Ending Volume:	1947

Fluid Type	Oil-based											
Sample From				Pit		Pit						
Time Sample Taken				3:30 AM		4:00 PM						
Depth @ Time of Sample (ft)				7,105		7,074						
Sample Temperature	(°F)			93		95						
Weight (ppg)				9.0		9.0						
Funnel Viscosity (sec/qt)				55		56						
Plastic Vis. (cp) @	150	(°F)		12		12						
Yield Point (lbf/100ft²)				18		18						
Gel Strength (10s/10m) (lbf/100ft²)				14	15	14	16					
Gel Strength (30 Min) (lbf/100ft²)				16		17						
HPHT Filtrate @	250	(°F)		3.0		3.0						
Cake (1/32 in)(API/HPHT)					2.0		2.0					
Diesel	SG=	0.84		74.0		74.0						
Water (% by vol)				17.0		17.0						
Solids (% by vol)				9.0		9.0						
Electrical Stability (V)				822		831						
Pom (Vsa)	cc's Sample		1.0	3.6		3.6						
Vsn (0.282N)	cc's Sample		5.2	5.2		5.2						
Lime Content (lb/bbl)				4.7		4.7						
Clom (mg/L)				10,000		10,000						
CaClom (mg/L)				15,650		15,650						
CaClom (lb/bbl)				5		5						
CaCl (ppm in water phase)				84,298		84,298						
Oil/Water Ratio				81	19	81	19					
Brine Density (S.G.)				1.07		1.07						
LGS (% by vol)	SG=	2.60		5.6		5.6						
LGS (lb/bbl)				50.698		50.698						
HGS (% by vol)	SG=	4.20		3.0		3.0						
HGS (lb/bbl)				44.627		44.627						
Corrected Solids (% by vol)				9		9						
Flowline Temperature				133.1		133.9						

Hydraulics (ft/min)

Annular Interval	Ann. Vel.	Crit. Vel.
Surface Casing:DP	108.46	365.91
OH:DP	89.44	361.06
OH:HWDP	89.44	361.06
OH:DC	100.52	368.15
OH:DC	119.11	377.16
OH:TELEDRIFT ASSY	119.11	377.16

Operating Data

Avg ROP(ft/hr)	3.2
WOB (Klbs)	50
Rotating Weight	
Rotatary Speed	54
Rotating Hrs.	
Sliding Hrs.	
Non-Drlg Hrs.	
P/U (lbs)	
S/O (lbs)	
Torque (lbf-ft)	2553
Angle	
Azimuth	
Surv. Depth(ft)	

Viscometer Rdgs		Solids Control Equipment					
600	42	Shaker	Screens		Hrs	U/F	O/F
300	30	1	70/70/70/70	De-Sander			
200	25	2	70/70/70/70	De-Silter	24.0		
100	22	3		Centrifuge	24.0		
6	14	4		Centrifuge	24.0		
3	13	M/C			24.0		

Active Products

Materials	Initial	Rec'd	Used	Balance	Cost (US$)
Bentone 910 (50 lb \ sk)	105	0	6	99	420.00
Bulk Tank (50 ton \ ea)	46	0	2	44	100.00
Bulk Tanks Blower (1 \ ea)	70	0	2	68	70.00
Engineering (24 hr) (1 \ ea)	0	0	1	0	500.00
Fiber Fluid Cor (25 lb \ sk)	466	0	175	291	6,492.50
GSX-509 (50 lb \ sk)	55	0	4	51	304.00
Lime (50 lb \ sx)	319	0	48	271	338.40
New Bar (Ton \ bulk)	73.22	48.35	22.62	98.95	2,691.78
OBM Lab (1 \ ea)	31	0	1	30	55.00
OptiDrill OBM (1 bbl \ bulk)	3368	0	156	3212	20,468.76
OptiThin (55 gal \ Drum)	4	0	1	3	257.05
StrataVanguard M (50 lb \ sk)	391	0	140	251	29,400.00

Treatment Recommendations

Last 24 hrs: Pumped 30 bbl, 25 ppb Strata Vanguard sweeps as needed. Added Bentone, Lime, OptiThin, OptiMul, OptiPlus, GSX-509 and diesel. Added 9.0 ppg whole mud from Pre-Mix pit to build sweeps. Used barite to maintain mud wt at 9.0 ppg.

Next 24 hrs: At report time it appears that fewer LCM sweeps will be needed for downhole losses. Will add Lime, OptiPlus and diesel. Will add barite as needed to maintain 9.0 ppg mud wt.

Comments/Remarks

Drilled ahead to 7,105 ft at report time. Averaged 5.5 bph downhole losses. Losses seem under control at report time.

****Trucking charges from DT EVA2489 and EVA2490

Daily Tax (US$)	Trucking (US$)	Daily Cost (US$)	66,957.44
3,635.85	2,224.10	Cumulative Cost (US$)	1,125,161.96

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Newpark Drilling Fluids, L.L.C. — **Mud Report**

Jerry Ard	**Evanston WY**	
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Mbl: (985) 688-1226	Tel:	Tel:
Pgr:	Fax:	Fax:

MudPIT™

Date	11/19/2010	MD (ft)	7,114
Report #	59	TVD (ft)	7,114
Spud Date	09/22/2010	Bit MD (ft)	7,114
API Well #	4302330021	Bit TVD (ft)	7,114
Present Activity		Drilling Ahead	

Operator:	**PIONEER NATURAL RESOURCES**	**Contractor:**	**Nabors 169**
Report For:	**Dean Baker/Derrick Berry**	**Report For:**	**Coby Tuller**

Well Name / No.	Field / Block	Sur - Abs or Sec-T-R	County / Parish	State / Province	Country
SOUTH HILLS FEDERAL # 6-1			JUAB COUNTY	UTAH	USA

Drill String	OD(in)	ID(in)	Length(ft)
RR Assy	8.0	2.875	28.01
DC	8.0	2.875	220.78
DC	6.5	2.875	283.19
HWDP	5.0	3	831.27
DP	5.0	4.28	5750.75

Casing	OD(in)	ID(in)	Top(ft)	Bottom(ft)
Surface Casing	13.375	12.41	0.0	4340

Pump and Circulating Data (check box for Riser Boost)

	Pump # 1 ☐	2 ☐	3 ☐			
Liner (in)	6.0	6.0	6.0	Stand Pipe (psi)		2,003
Stroke (in)	10.0	10.0	10.0	Calc P.Loss (psi)		1,289
stk/min	160	0	0	ECD (ppg)		9.19
Efficiency (%)	95	95	95	Pump # 1	Min	Stks
(bbl/stk)	0.083	0.083	0.083	Surf-Bit	9	1,371
(gpm)	558	0	0	Bott's Up	72	11,464
Total (gpm)	558			Surf-Surf	80	12,835
				Tot. Circ.	122	19,566

Bit Data					Leak Off Test(ppg)	0
Bit Size (in)	12.25				TFA (in²)	0.746
% Washout	10				Noz-Vel (ft/se)	239.56
Bit Type:	R44FPDH				Imp-Frc (psi)	623
Bit #:	22				PSI Loss (psi)	463.53
(1/32 in)	18	18	18		HSI (hp/in²)	1.277
					Sys HHP (hp)	652.25
					Sys HHP %	23.142

Active Volume (bbl)		Storage Volume(bbl)	
Annulus:	952	FT #1 10.7	265
Drill String:	114	FT #2 9.6	410
Pits:	559	FT #3 7.8	410
Slug Pit:	29	FT #4 7.8	410
Total Circulating Volume	1,625	Total Storage Volume	1,495
Volume Below Bit			0

Volume Reconciliation (bbl)			
Starting Volume	1947	Total Additions:	4
Water Additions		Hole Losses	10
Oil Additions	4	SCE Losses	8
Chemical Additions:		Other Losses	
Barite Additions:		Total Losses	18
Whole Mud Add:		Mud to Storage:	
Other Additions		Ending Volume:	1933

Fluid Type	Oil-based	Fluid Properties	
Sample From		Pit	Pit
Time Sample Taken		3:30 AM	4:30 PM
Depth @ Time of Sample (ft)		7,107	7,107
Sample Temperature	(°F)	85	88
Weight (ppg)		9.0	9.0
Funnel Viscosity (sec/qt)		55	55
Plastic Vis. (cp) @	150 (°F)	12	12
Yield Point (lbf/100ft²)		18	18
Gel Strength (10s/10m) (lbf/100ft²)		14 16	14 15
Gel Strength (30 Min) (lbf/100ft²)		18	18
HPHT Filtrate @	250 (°F)	3.0	3.0
Cake (1/32 in)(API/HPHT)		2.0	2.0
Diesel	SG= 0.84	74.0	74.0
Water (% by vol)		17.0	17.0
Solids (% by vol)		9.0	9.0
Electrical Stability (V)		854	850
Pom (Vsa)	cc's Sample 1.0	3.6	3.6
Vsn (0.282N)	cc's Sample 1.0	5.1	5.1
Lime Content (lb/bbl)		4.7	4.7
Clom (mg/L)		51,000	51,000
CaClom (mg/L)		79,815	79,815
CaClom (lb/bbl)		28	28
CaCl (ppm in water phase)		319,496	319,496
Oil/Water Ratio		81 19	81 19
Brine Density (S.G.)		1.3	1.3
LGS (% by vol)	SG= 2.60	4.8	4.8
LGS (lb/bbl)		43.94	43.94
HGS (% by vol)	SG= 4.20	2.0	2.0
HGS (lb/bbl)		28.927	28.927
Corrected Solids (% by vol)		7	7

Hydraulics (ft/min)			Operating Data	
Annular Interval	Ann. Vel.	Crit. Vel.		
Surface Casing:DP	105.81	365.91	Avg ROP(ft/hr)	
OH:DP	87.26	361.06	WOB (Klbs)	14
OH:HWDP	87.26	361.06	Rotating Weight	
OH:DC	98.07	368.15	Rotatary Speed	39
OH:DC	116.21	377.16	Rotating Hrs.	
OH:RR Assy	116.21	377.16	Sliding Hrs.	
			Non-Drlg Hrs.	
			P/U (lbs)	
			S/O (lbs)	
			Torque (lbf-ft)	1865
			Angle	
			Azimuth	
			Surv. Depth(ft)	

Viscometer Rdgs		Solids Control Equipment					
600	42	Shaker	Screens		Hrs	U/F	O/F
300	30	1	70/70/70/70	De-Sander			
200	26	2	70/70/70/70	De-Silter	12.0		
100	22	3		Centrifuge	12.0		
6	14	4		Centrifuge	12.0		
3	13	M/C			12.0		

Active Products

Materials	Initial	Rec'd	Used	Balance	Cost (US$)
Bentone 910 (50 lb \ sk)	99	0	2	97	140.00
Bulk Tank (50 ton \ ea)	44	0	2	42	100.00
Bulk Tanks Blower (1 \ ea)	68	0	2	66	70.00
Engineering (24 hr) (1 \ ea)	0	0	1	0	500.00
GSX-509 (50 lb \ sk)	51	0	3	48	228.00
Lime (50 lb \ sx)	271	0	19	252	133.95
OBM Lab (1 \ ea)	30	0	1	29	55.00
Oil Dry (50 lb \ sack)	69	0	4	65	47.60
OptiDrill OBM (1 bbl \ bulk)	3212	0	18	3194	2,361.78
OptiMul (55 gal \ drum)	7	0	4	3	2,720.00
StrataVanguard M (50 lb \ sk)	251	0	40	211	8,400.00

Treatment Recommendations

Last 24 hrs: Added Lime, GSX-509, OptiMul and diesel.

Next 24 hrs: Will continue with same treatment. Will pump LCM sweeps as needed.

Comments/Remarks

Drilled ahead to 7,107 ft. Circulated B/U, pumped slug and POOH for bit change. Picked up new bit and TIH. Drilling ahead, breaking in new bit at report time.

Daily Losses: 18 bbls
Cumulative Losses: 3,454 bbls

Daily Tax (US$)	Trucking (US$)	Daily Cost (US$)	15,611.71
855.38	0.00	Cumulative Cost (US$)	1,140,773.67

The information in this report is based on our experience and represents our best judgment in the matter and is intended to be helpful, but we cannot assume responsibility for any loss or accident that may result from its use. Furthermore, nothing contained herein shell be construed as a recommendation to use any product in conflict with existing patents covering any materials or uses.

Newpark Drilling Fluids, L.L.C. — **Mud Report**

Jerry Ard	Evanston WY	
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Mbl: (985) 688-1226	Tel:	Tel:
Pgr:	Fax:	Fax:

MudPIT™

Date	11/20/2010	MD (ft)	7,234
Report #	60	TVD (ft)	7,234
Spud Date	09/22/2010	Bit MD (ft)	7,234
API Well #	4302330021	Bit TVD (ft)	7,234
Present Activity		Drilling Ahead	

Operator:	**PIONEER NATURAL RESOURCES**	**Contractor:**	**Nabors 169**
Report For:	**Dean Baker/Derrick Berry**	**Report For:**	**Coby Tuller**

Well Name / No.	Field / Block	Sur - Abs or Sec-T-R	County / Parish	State / Province	Country
SOUTH HILLS FEDERAL # 6-1			JUAB COUNTY	UTAH	USA

Drill String	OD(in)	ID(in)	Length(ft)
RR Assy	8.0	2.875	28.01
DC	8.0	2.875	220.78
DC	6.5	2.875	283.19
HWDP	5.0	3	831.27
DP	5.0	4.28	5870.75

Casing	OD(in)	ID(in)	Top(ft)	Bottom(ft)
Surface Casing	13.375	12.41	0.0	4340

Pump and Circulating Data (check box for Riser Boost)

Pump #	1 ☐	2 ☐	3 ☐	Stand Pipe (psi)		2,081
Liner (in)	6.0	6.0	6.0	Calc P.Loss (psi)		1,396
Stroke (in)	10.0	10.0	10.0	ECD (ppg)		9.19
stk/min	164	0	0	Pump # 1	Min	Stks
Efficiency (%)	95	95	95	Surf-Bit	9	1,397
(bbl/stk)	0.083	0.083	0.083	Bott's Up	71	11,684
(gpm)	572	0	0	Surf-Surf	80	13,081
Total (gpm)		572		Tot. Circ.	122	19,980

Bit Data							
Bit Size (in)	12.25						
% Washout	10						
Bit Type:	R44FPDH						
Bit #:	22						
(1/32 in)	18	18	18				

Leak Off Test(ppg)	0						
TFA (in²)	0.746						
Noz-Vel (ft/se)	245.55						
Imp-Frc (psi)	655						
PSI Loss (psi)	487.0						
HSI (hp/in²)	1.376						
Sys HHP (hp)	694.59						
Sys HHP %	23.402						

Active Volume (bbl)		Storage Volume(bbl)		Volume Reconciliation (bbl)			
Annulus:	970	FT #1 10.7	480	Starting Volume	1933	Total Additions:	181
Drill String:	116	FT #2 9.6	430	Water Additions		Hole Losses	6
Pits:	573	FT #3 7.8	410	Oil Additions	48	SCE Losses	22
Slug Pit:	46	FT #4 7.8	410	Chemical Additions:		Other Losses	
Total Circulating Volume	1,659	Total Storage Volume	1,730	Barite Additions:	3	Total Losses	28
				Whole Mud Add:	130	Mud to Storage:	
Volume Below Bit	0			Other Additions		Ending Volume:	2086

Fluid Type	Oil-based	Fluid Properties							
Sample From		Pit	Pit						
Time Sample Taken		3:30 AM	4:00 PM						
Depth @ Time of Sample (ft)		7,234	7,170						
Sample Temperature	(°F)	91	92						
Weight (ppg)		9.0	9.0						
Funnel Viscosity (sec/qt)		55	56						
Plastic Vis. (cp) @	150 (°F)	13	12						
Yield Point (lbf/100ft²)		16	18						
Gel Strength (10s/10m) (lbf/100ft²)		14 15	15 16						
Gel Strength (30 Min) (lbf/100ft²)		17	17						
HPHT Filtrate @	250 (°F)	3.0	3.0						
Cake (1/32 in)(API/HPHT)		2.0	2.0						
Diesel	SG= 0.84	74.0	74.0						
Water (% by vol)		17.0	17.0						
Solids (% by vol)		9.0	9.0						
Electrical Stability (V)		864	884						
Pom (Vsa)	cc's Sample 1.0	3.6	3.6						
Vsn (0.282N)	cc's Sample 1.0	5.1	5.0						
Lime Content (lb/bbl)		4.7	4.7						
Clom (mg/L)		51,000	50,000						
CaClom (mg/L)		79,815	78,250						
CaClom (lb/bbl)		28	27						
CaCl (ppm in water phase)		319,496	315,206						
Oil/Water Ratio		81 19	81 19						
Brine Density (S.G.)		1.3	1.3						
LGS (% by vol)	SG= 2.60	4.8	4.9						
LGS (lb/bbl)		43.94	44.253						
HGS (% by vol)	SG= 4.20	2.0	2.0						
HGS (lb/bbl)		28.927	29.162						
Corrected Solids (% by vol)		7	7						
Flowline Temperature		132.1	132.8						

Hydraulics (ft/min)

Annular Interval	Ann. Vel.	Crit. Vel.
Surface Casing:DP	108.46	361.64
OH:DP	89.44	357.06
OH:HWDP	89.44	357.06
OH:DC	100.52	363.75
OH:DC	119.11	372.26
OH:RR Assy	119.11	372.26

Operating Data

Avg ROP(ft/hr)	5.0
WOB (Klbs)	51
Rotating Weight	
Rotatary Speed	149
Rotating Hrs.	
Sliding Hrs.	
Non-Drlg Hrs.	
P/U (lbs)	
S/O (lbs)	
Torque (lbf-ft)	2881
Angle	
Azimuth	
Surv. Depth(ft)	

Viscometer Rdgs		Solids Control Equipment					
600	42	Shaker	Screens		Hrs	U/F	O/F
300	29	1	70/70/70/70	De-Sander			
200	25	2	70/70/70/70	De-Silter	24.0		
100	22	3		Centrifuge	24.0		
6	14	4		Centrifuge	24.0		
3	13	M/C			24.0		

Active Products

Materials	Initial	Rec'd	Used	Balance	Cost (US$)
Bentone 910 (50 lb \ sk)	97	0	6	91	420.00
Bulk Tank (50 ton \ ea)	42	0	2	40	100.00
Bulk Tanks Blower (1 \ ea)	66	0	2	64	70.00
Engineering (24 hr) (1 \ ea)	0	0	1	0	500.00
Lime (50 lb \ sx)	252	0	24	228	169.20
New Bar (Ton \ bulk)	98.95	0	2.5	96.45	297.50
OBM Lab (1 \ ea)	29	0	1	28	55.00
Oil Dry (50 lb \ sack)	65	0	8	57	95.20
OptiDrill OBM (1 bbl \ bulk)	3194	0	30	3164	3,936.30
OptiMul (55 gal \ drum)	3	0	2	1	1,360.00
OptiPlus (55 gal \ Drum)	8	0	2	6	1,620.00
OptiThin (55 gal \ Drum)	3	0	1	2	257.05
StrataVanguard M (50 lb \ sk)	211	0	30	181	6,300.00

Treatment Recommendations

Last 24 hrs: Added Lime, OptiPlus, OptiThin and diesel. Pumped one 30 bbl, 25 ppb Strata Vanguard sweep at 7,174 ft.

Next 24 hrs: Will continue with same treatment. Will pump LCM sweeps as needed for downhole losses.

Comments/Remarks

Drilled ahead to 7,234 ft. Pumped one LCM sweep at 7,174 ft for downhole losses and saw no additional problems after that.

Daily Losses: 30 bbls
Cumulative Losses: 3,484 bbls

Daily Tax (US$)	Trucking (US$)	Daily Cost (US$)	16,061.06
880.81	0.00	Cumulative Cost (US$)	1,156,834.73

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Newpark Drilling Fluids, L.L.C. — **Mud Report**

Jerry Ard	Evanston WY	
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MudPIT™

Date	11/21/2010	MD (ft)	7,300
Report #	61	TVD (ft)	7,300
Spud Date	09/22/2010	Bit MD (ft)	183
API Well #	4302330021	Bit TVD (ft)	183
Present Activity		POOH	

Operator:	**PIONEER NATURAL RESOURCES**	**Contractor:**	**Nabors 169**
Report For:	**Dean Baker/Derrick Berry**	**Report For:**	**Coby Tuller**

Well Name / No.	Field / Block	Sur - Abs or Sec-T-R	County / Parish	State / Province	Country
SOUTH HILLS FEDERAL # 6-1			JUAB COUNTY	UTAH	USA

Drill String	OD(in)	ID(in)	Length(ft)
RR Assy	8.0	2.875	28.01
DC	8.0	2.875	154.99

Casing	OD(in)	ID(in)	Top(ft)	Bottom(ft)
Surface Casing	13.375	12.41	0.0	4340

Pump and Circulating Data (check box for Riser Boost)

Pump #	1 ☐	2 ☐	3 ☐	Stand Pipe (psi)		0
Liner (in)	6.0	6.0	6.0	Calc P.Loss (psi)		0
Stroke (in)	10.0	10.0	10.0	ECD (ppg)		9.00
stk/min	0	0	0	Pump # 1	Min	Stks
Efficiency (%)	95	95	95	Surf-Bit	0	0
(bbl/stk)	0.083	0.083	0.083	Bott's Up	0	0
(gpm)	0	0	0	Surf-Surf	0	0
Total (gpm)		0		Tot. Circ.	0	0

Bit Data

Bit Size (in)	12.25						
% Washout	10						
Bit Type:	R44FPDH						
Bit #:	22						
(1/32 in)	18	18	18				

Leak Off Test(ppg)	0
TFA (in²)	0.746
Noz-Vel (ft/se)	
Imp-Frc (psi)	
PSI Loss (psi)	
HSI (hp/in²)	
Sys HHP (hp)	
Sys HHP %	

Active Volume (bbl)	
Annulus:	16
Drill String:	1
Pits:	516
Slug Pit:	16
Total Circulating Volume	533
Volume Below Bit	1,145

Storage Volume(bbl)	
FT #1 10.7	480
FT #2 9.6	430
FT #3 7.8	410
FT #4 7.8	410
Total Storage Volume	1,730

Volume Reconciliation (bbl)	
Starting Volume	2086
Water Additions	
Oil Additions	60
Chemical Additions:	
Barite Additions:	3
Whole Mud Add:	
Other Additions	

Total Additions:	63
Hole Losses	6
SCE Losses	12
Other Losses	
Total Losses	18
Mud to Storage:	
Ending Volume:	2131

Fluid Type	Oil-based	Fluid Properties							
Sample From		Pit	Pit						
Time Sample Taken		3:30 AM	4:00 PM						
Depth @ Time of Sample (ft)		7,300	7,295						
Sample Temperature (°F)		87	92						
Weight (ppg)		9.0	9.0						
Funnel Viscosity (sec/qt)		55	56						
Plastic Vis. (cp) @ 150 (°F)		12	12						
Yield Point (lbf/100ft²)		18	18						
Gel Strength (10s/10m) (lbf/100ft²)		14	15	14	16				
Gel Strength (30 Min) (lbf/100ft²)		17	18						
HPHT Filtrate @ 250 (°F)		3.0	3.0						
Cake (1/32 in)(API/HPHT)		2.0	2.0						
Diesel	SG= 0.84	75.0	75.0						
Water (% by vol)		16.0	16.0						
Solids (% by vol)		9.0	9.0						
Electrical Stability (V)		888	863						
Pom (Vsa)	cc's Sample 1.0	3.6	3.6						
Vsn (0.282N)	cc's Sample 1.0	5.2	5.2						
Lime Content (lb/bbl)		4.7	4.7						
Clom (mg/L)		52,000	52,000						
CaClom (mg/L)		81,380	81,380						
CaClom (lb/bbl)		28	28						
CaCl (ppm in water phase)		337,145	337,145						
Oil/Water Ratio		82 / 18	82 / 18						
Brine Density (S.G.)		1.32	1.32						
LGS (% by vol)	SG= 2.60	4.6	4.6						
LGS (lb/bbl)		42.137	42.137						
HGS (% by vol)	SG= 4.20	2.1	2.1						
HGS (lb/bbl)		30.748	30.748						
Corrected Solids (% by vol)		7	7						
Flowline Temperature			131.8						

Hydraulics (ft/min)

Annular Interval	Ann. Vel.	Crit. Vel.
Surface Casing:DC	0.00	385.36
Surface Casing:RR Assy	0.00	385.36

Operating Data

Avg ROP(ft/hr)	
WOB (Klbs)	
Rotating Weight	
Rotatary Speed	
Rotating Hrs.	
Sliding Hrs.	
Non-Drlg Hrs.	
P/U (lbs)	
S/O (lbs)	
Torque (lbf-ft)	
Angle	
Azimuth	
Surv. Depth(ft)	

Viscometer Rdgs

600	42
300	30
200	26
100	22
6	14
3	13

Solids Control Equipment

Shaker	Screens		Hrs	U/F	O/F
1	70/70/70/70	De-Sander			
2	70/70/70/70	De-Silter	18.0		
3		Centrifuge	18.0		
4		Centrifuge	18.0		
M/C			18.0		

Active Products

Materials	Initial	Rec'd	Used	Balance	Cost (US$)
Bulk Tank (50 ton \ ea)	40	0	2	38	100.00
Bulk Tanks Blower (1 \ ea)	64	0	2	62	70.00
Engineering (24 hr) (1 \ ea)	0	0	1	0	500.00
Lime (50 lb \ sx)	228	0	36	192	253.80
New Bar (Ton \ bulk)	96.45	0	2.5	93.95	297.50
OBM Lab (1 \ ea)	28	0	1	27	55.00
Oil Dry (50 lb \ sack)	57	0	6	51	71.40
OptiDrill OBM (1 bbl \ bulk)	3404	0	18	3386	2,361.78

Treatment Recommendations

Last 24 hrs: Added Lime, OptiMul and diesel. Pumped 2 30 bbl, 25 ppb Strata Vanguard sweeps before pulling out of the hole to log.

Next 24 hrs: None anticipated. Will be logging.

Comments/Remarks

Drilled ahead to 7,300 ft (logging TD). Pumped bottoms-up. POOH 6 stands. Tripped back in to bottom. Pumped bottoms-up starting with a 30 bbl, 25 ppb Strata Vanguard LCM sweep followed by another Strata Vanguard sweep 10 min later. Pumped slug and POOH to log.

Daily Tax (US$)	Trucking (US$)	Daily Cost (US$)	3,902.05
192.57	0.00	Cumulative Cost (US$)	1,160,736.78

The information in this report is based on our experience and represents our best judgment in the matter and is intended to be helpful, but we cannot assume responsibility for any loss or accident that may result from its use. Furthermore, nothing contained herein shell be construed as a recommendation to use any product in conflict with existing patents covering any materials or uses.

Newpark Drilling Fluids, L.L.C. — **Mud Report**

Jerry Ard	Evanston WY	
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MudPIT™

Date	11/23/2010	MD (ft)	7,300
Report #	63	TVD (ft)	7,300
Spud Date	09/22/2010	Bit MD (ft)	183
API Well #	4302330021	Bit TVD (ft)	183
Present Activity		Logging	

Operator:	**PIONEER NATURAL RESOURCES**	**Contractor:**	**Nabors 169**
Report For:	**Dean Baker/Derrick Berry**	**Report For:**	**Coby Tuller**

Well Name / No.	Field / Block	Sur - Abs or Sec-T-R	County / Parish	State / Province	Country
SOUTH HILLS FEDERAL # 6-1			JUAB COUNTY	UTAH	USA

Drill String	OD(in)	ID(in)	Length(ft)
DP	5.0	4.28	183

Casing	OD(in)	ID(in)	Top(ft)	Bottom(ft)
Surface Casing	13.375	12.41	0.0	4340

Pump and Circulating Data (check box for Riser Boost)

	Pump # 1 ☐	2 ☐	3 ☐			
Liner (in)	6.0	6.0	6.0	Stand Pipe (psi)		0
Stroke (in)	10.0	10.0	10.0	Calc P.Loss (psi)		0
stk/min	0	0	0	ECD (ppg)		9.00
Efficiency (%)	95	95	95	Pump # 1	Min	Stks
(bbl/stk)	0.083	0.083	0.083	Surf-Bit	0	0
(gpm)	0	0	0	Bott's Up	0	0
Total (gpm)		0		Surf-Surf	0	0
				Tot. Circ.	0	0

Bit Data		Leak Off Test(ppg)	0
Bit Size (in)	12.25	TFA (in²)	
% Washout	10	Noz-Vel (ft/se)	
Bit Type:		Imp-Frc (psi)	
Bit #:	0	PSI Loss (psi)	
(1/32 in)		HSI (hp/in²)	
		Sys HHP (hp)	
		Sys HHP %	

Active Volume (bbl)	
Annulus:	23
Drill String:	3
Pits:	505
Slug Pit:	0
Total Circulating Volume	531
Volume Below Bit	1,145

Storage Volume(bbl)	
FT #1 10.7	480
FT #2 9.6	430
FT #3 7.8	425
FT #4 7.8	425
Total Storage Volume	1,760

Volume Reconciliation (bbl)			
Starting Volume	2131	Total Additions:	0
Water Additions		Hole Losses	27
Oil Additions		SCE Losses	
Chemical Additions:		Other Losses	
Barite Additions:		Total Losses	27
Whole Mud Add:		Mud to Storage:	
Other Additions		Ending Volume:	2104

Fluid Type	Oil-based	Fluid Properties			
Sample From		Pit	Pit		
Time Sample Taken		3:30 AM	4:00 PM		
Depth @ Time of Sample (ft)		7,300	7,300		
Sample Temperature (°F)		69	70		
Weight (ppg)		9.0	9.0		
Funnel Viscosity (sec/qt)		57	56		
Plastic Vis. (cp) @ 150 (°F)		12	12		
Yield Point (lbf/100ft²)		18	18		
Gel Strength (10s/10m) (lbf/100ft²)		14 15	14 15		
Gel Strength (30 Min) (lbf/100ft²)		16	17		
HPHT Filtrate @ 250 (°F)		3.0	3.0		
Cake (1/32 in)(API/HPHT)		2.0	2.0		
Diesel SG= 0.84		75.0	75.0		
Water (% by vol)		16.0	16.0		
Solids (% by vol)		9.0	9.0		
Electrical Stability (V)		848	861		
Pom (Vsa) cc's Sample 1.0		3.6	3.6		
Vsn (0.282N) cc's Sample 1.0		5.2	5.2		
Lime Content (lb/bbl)		4.7	4.7		
Clom (mg/L)		52,000	52,000		
CaClom (mg/L)		81,380	81,380		
CaClom (lb/bbl)		28	28		
CaCl (ppm in water phase)		337,145	337,145		
Oil/Water Ratio		82 18	82 18		
Brine Density (S.G.)		1.32	1.32		
LGS (% by vol) SG= 2.60		4.6	4.6		
LGS (lb/bbl)		42.137	42.137		
HGS (% by vol) SG= 4.20		2.1	2.1		
HGS (lb/bbl)		30.748	30.748		
Corrected Solids (% by vol)		7	7		

Hydraulics (ft/min)

Annular Interval	Ann. Vel.	Crit. Vel.
Surface Casing:DP	0.00	365.91

Operating Data

Avg ROP(ft/hr)	
WOB (Klbs)	
Rotating Weight	
Rotatary Speed	
Rotating Hrs.	
Sliding Hrs.	
Non-Drlg Hrs.	
P/U (lbs)	
S/O (lbs)	
Torque (lbf-ft)	
Angle	
Azimuth	
Surv. Depth(ft)	

Viscometer Rdgs

600	42
300	30
200	25
100	21
6	14
3	13

Solids Control Equipment

Shaker	Screens		Hrs	U/F	O/F
1	70/70/70/70	De-Sander			
2	70/70/70/70	De-Silter			
3		Centrifuge			
4		Centrifuge			
M/C					

Active Products

Materials	Initial	Rec'd	Used	Balance	Cost (US$)
Bulk Tank (50 ton \ ea)	36	0	2	34	100.00
Bulk Tanks Blower (1 \ ea)	60	0	2	58	70.00
Engineering (24 hr) (1 \ ea)	0	0	1	0	500.00
OBM Lab (1 \ ea)	26	0	1	25	55.00
OptiDrill OBM (1 bbl \ bulk)	3383	0	27	3356	3,542.67

Treatment Recommendations

Last 24 hrs: None

Next 24 hrs: None until on bottome circulating.

Comments/Remarks

Logging hole.

Daily Losses: 27 bbls
Cumulative Losses: 3,478 bbls

Daily Tax (US$)	Trucking (US$)	Daily Cost (US$)	4,493.73
226.06	0.00	Cumulative Cost (US$)	1,167,409.80

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Newpark Drilling Fluids, L.L.C. — **Mud Report**

Jerry Ard	Evanston WY	
Tel:	Tel:	Tel:
Mbl: (985) 688-1226	Tel:	Tel:
Pgr:	Fax:	Fax:

MudPIT™

Date	11/24/2010	MD (ft)	7,300
Report #	64	TVD (ft)	7,300
Spud Date	09/22/2010	Bit MD (ft)	85
API Well #	4302330021	Bit TVD (ft)	85
Present Activity		Logging	

Operator:	**PIONEER NATURAL RESOURCES**	**Contractor:**	**Nabors 169**
Report For:	**Noah Dupuis/Derrick Berry**	**Report For:**	**Rod Flynn**

Well Name / No.	Field / Block	Sur - Abs or Sec-T-R	County / Parish	State / Province	Country
SOUTH HILLS FEDERAL # 6-1			JUAB COUNTY	UTAH	USA

Drill String	OD(in)	ID(in)	Length(ft)
DP	5.0	4.28	85

Casing	OD(in)	ID(in)	Top(ft)	Bottom(ft)
Surface Casing	13.375	12.41	0.0	4340

Pump and Circulating Data (check box for Riser Boost)

Pump #	1 ☐	2 ☐	3 ☐	Stand Pipe (psi)		0
Liner (in)	6.0	6.0	6.0	Calc P.Loss (psi)		0
Stroke (in)	10.0	10.0	10.0	ECD (ppg)		9.00
stk/min	0	0	0	Pump # 1	Min	Stks
Efficiency (%)	95	95	95	Surf-Bit	0	0
(bbl/stk)	0.083	0.083	0.083	Bott's Up	0	0
(gpm)	0	0	0	Surf-Surf	0	0
Total (gpm)		0		Tot. Circ.	0	0

Bit Data		Leak Off Test(ppg)	0
Bit Size (in)	12.25	TFA (in²)	
% Washout	10	Noz-Vel (ft/se)	
Bit Type:		Imp-Frc (psi)	
Bit #:	0	PSI Loss (psi)	
(1/32 in)		HSI (hp/in²)	
		Sys HHP (hp)	
		Sys HHP %	

Active Volume (bbl)		Storage Volume(bbl)		Volume Reconciliation (bbl)			
Annulus:	11	FT #1 10.7	480	Starting Volume	2104	Total Additions:	0
Drill String:	2	FT #2 9.6	430	Water Additions		Hole Losses	26
Pits:	572	FT #3 7.8	425	Oil Additions		SCE Losses	
Slug Pit:	21	FT #4 7.8	425	Chemical Additions:		Other Losses	
Total Circulating Volume		Total Storage Volume		Barite Additions:		Total Losses	26
584		1,760		Whole Mud Add:		Mud to Storage:	
Volume Below Bit		1,159		Other Additions		Ending Volume:	2078

Fluid Type	Oil-based	Fluid Properties			
Sample From		Pit	Pit		
Time Sample Taken		3:30 AM	4:00 PM		
Depth @ Time of Sample (ft)		7,300	7,300		
Sample Temperature (°F)		62	79		
Weight (ppg)		9.0	9.0		
Funnel Viscosity (sec/qt)		59	57		
Plastic Vis. (cp) @ 150 (°F)		12	13		
Yield Point (lbf/100ft²)		18	18		
Gel Strength (10s/10m) (lbf/100ft²)		14 16	14 17		
Gel Strength (30 Min) (lbf/100ft²)		17	19		
HPHT Filtrate @ 250 (°F)		3.0	3.0		
Cake (1/32 in)(API/HPHT)		2.0	2.0		
Diesel SG= 0.84		76.0	76.0		
Water (% by vol)		16.0	16.0		
Solids (% by vol)		8.0	8.0		
Electrical Stability (V)		861	856		
Pom (Vsa) cc's Sample 1.0		3.7	3.7		
Vsn (0.282N) cc's Sample 1.0		5.3	5.3		
Lime Content (lb/bbl)		4.8	4.8		
Clom (mg/L)		53,000	53,000		
CaClom (mg/L)		82,945	82,945		
CaClom (lb/bbl)		29	29		
CaCl (ppm in water phase)		341,415	341,415		
Oil/Water Ratio		83 17	83 17		
Brine Density (S.G.)		1.33	1.33		
LGS (% by vol) SG= 2.60		2.5	2.5		
LGS (lb/bbl)		22.676	22.676		
HGS (% by vol) SG= 4.20		3.2	3.2		
HGS (lb/bbl)		46.726	46.726		
Corrected Solids (% by vol)		6	6		
Flowline Temperature			119.6		

Hydraulics (ft/min)

Annular Interval	Ann. Vel.	Crit. Vel.
Surface Casing:DP	0.00	365.91

Operating Data

Avg ROP(ft/hr)	
WOB (Klbs)	
Rotating Weight	
Rotatary Speed	
Rotating Hrs.	
Sliding Hrs.	
Non-Drlg Hrs.	
P/U (lbs)	
S/O (lbs)	
Torque (lbf-ft)	
Angle	
Azimuth	
Surv. Depth(ft)	

Viscometer Rdgs

600	42
300	30
200	26
100	21
6	14
3	13

Solids Control Equipment

Shaker	Screens		Hrs	U/F	O/F
1	70/70/70/70	De-Sander			
2	70/70/70/70	De-Silter			
3		Centrifuge			
4		Centrifuge			
M/C					

Active Products

Materials	Initial	Rec'd	Used	Balance	Cost (US$)
Bulk Tank (50 ton \ ea)	34	0	2	32	100.00
Bulk Tanks Blower (1 \ ea)	58	0	2	56	70.00
Engineering (24 hr) (1 \ ea)	0	0	1	0	500.00
OBM Lab (1 \ ea)	25	0	1	24	55.00
OptiDrill OBM (1 bbl \ bulk)	3356	0	26	3330	3,411.46

Treatment Recommendations

Last 24 hrs: None

Next 24 hrs: None until logging is complete and we are back on bottom circulating.

Comments/Remarks

Continued logging. TIH to 7,298 ft. Circulated bottoms-up. POOH. Continued logging.

Daily Tax (US$)	Trucking (US$)	Daily Cost (US$)	4,354.65
218.19	0.00	Cumulative Cost (US$)	1,171,764.44

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Newpark Drilling Fluids, L.L.C. — **Mud Report**

Jerry Ard	Evanston WY	
Tel:	Tel:	Tel:
Mbl: (985) 688-1226	Tel:	Tel:
Pgr:	Fax:	Fax:

MudPIT™

Date	11/26/2010	MD (ft)	7,300
Report #	66	TVD (ft)	7,300
Spud Date	09/22/2010	Bit MD (ft)	1
API Well #	4302330021	Bit TVD (ft)	1
Present Activity		Preparing To TIH	

Operator:	**PIONEER NATURAL RESOURCES**	**Contractor:**	**Nabors 169**
Report For:	**Noah Dupuis/Derrick Berry**	**Report For:**	**Rod Flynn**

Well Name / No.	Field / Block	Sur - Abs or Sec-T-R	County / Parish	State / Province	Country
SOUTH HILLS FEDERAL # 6-1			JUAB COUNTY	UTAH	USA

Drill String	OD(in)	ID(in)	Length(ft)
DP	5.0	4.28	1

Casing	OD(in)	ID(in)	Top(ft)	Bottom(ft)
Surface Casing	13.375	12.41	0.0	4340

Pump and Circulating Data (check box for Riser Boost)

	Pump # 1 ☐	2 ☐	3 ☐	Stand Pipe (psi)	0
Liner (in)	6.0	6.0	6.0	Calc P.Loss (psi)	0
Stroke (in)	10.0	10.0	10.0	ECD (ppg)	9.00
stk/min	0	0	0	Pump # 1 Min	Stks
Efficiency (%)	95	95	95	Surf-Bit	0 0
(bbl/stk)	0.083	0.083	0.083	Bott's Up	0 0
(gpm)	0	0	0	Surf-Surf	0 0
Total (gpm)		0		Tot. Circ.	0 0

Bit Data		Leak Off Test(ppg)	0
Bit Size (in)	12.25	TFA (in²)	
% Washout	10	Noz-Vel (ft/se)	
Bit Type:		Imp-Frc (psi)	
Bit #:	0	PSI Loss (psi)	
(1/32 in)		HSI (hp/in²)	
		Sys HHP (hp)	
		Sys HHP %	

Active Volume (bbl)		Storage Volume(bbl)		Volume Reconciliation (bbl)			
Annulus:	0	FT #1 10.7	480	Starting Volume	2049	Total Additions:	0
Drill String:	0	FT #2 9.6	430	Water Additions		Hole Losses	28
Pits:	423	FT #3 7.8	425	Oil Additions		SCE Losses	
Slug Pit:	32	FT #4 7.8	425	Chemical Additions:		Other Losses	
Total Circulating Volume		Total Storage Volume		Barite Additions:		Total Losses	28
423		1,760		Whole Mud Add:		Mud to Storage:	
Volume Below Bit		1,172		Other Additions		Ending Volume:	2021

Fluid Type	Oil-based	Fluid Properties			
Sample From		Pit	Pit		
Time Sample Taken		3:30 AM	4:00 PM		
Depth @ Time of Sample (ft)		7,300	7,300		
Sample Temperature (°F)		54	57		
Weight (ppg)		9.0	9.0		
Funnel Viscosity (sec/qt)		58	58		
Plastic Vis. (cp) @ 150 (°F)		12	12		
Yield Point (lbf/100ft²)		18	18		
Gel Strength (10s/10m) (lbf/100ft²)		14 15	14 16		
Gel Strength (30 Min) (lbf/100ft²)		17	18		
HPHT Filtrate @ 250 (°F)		3.0	3.0		
Cake (1/32 in)(API/HPHT)		2.0	2.0		
Diesel SG= 0.84		76.0	76.0		
Water (% by vol)		16.0	16.0		
Solids (% by vol)		8.0	8.0		
Electrical Stability (V)		828	847		
Pom (Vsa) cc's Sample 1.0		3.7	3.7		
Vsn (0.282N) cc's Sample 1.0		5.3	5.3		
Lime Content (lb/bbl)		4.8	4.8		
Clom (mg/L)		53,000	53,000		
CaClom (mg/L)		82,945	82,945		
CaClom (lb/bbl)		29	29		
CaCl (ppm in water phase)		341,415	341,415		
Oil/Water Ratio		83 17	83 17		
Brine Density (S.G.)		1.33	1.33		
LGS (% by vol) SG= 2.60		2.5	2.5		
LGS (lb/bbl)		22.676	22.676		
HGS (% by vol) SG= 4.20		3.2	3.2		
HGS (lb/bbl)		46.726	46.726		
Corrected Solids (% by vol)		6	6		

Hydraulics (ft/min)

Annular Interval	Ann. Vel.	Crit. Vel.
Surface Casing:DP	0.00	359.85

Operating Data

Avg ROP(ft/hr)	
WOB (Klbs)	
Rotating Weight	
Rotatary Speed	
Rotating Hrs.	
Sliding Hrs.	
Non-Drlg Hrs.	
P/U (lbs)	
S/O (lbs)	
Torque (lbf-ft)	
Angle	
Azimuth	
Surv. Depth(ft)	

Viscometer Rdgs		Solids Control Equipment					
600	42	Shaker	Screens		Hrs	U/F	O/F
300	30	1	70/70/70/70	De-Sander			
200	25	2	70/70/70/70	De-Silter			
100	20	3		Centrifuge			
6	13	4		Centrifuge			
3	12	M/C					

Active Products

Materials	Initial	Rec'd	Used	Balance	Cost (US$)
Bulk Tank (50 ton \ ea)	30	0	2	28	100.00
Bulk Tanks Blower (1 \ ea)	54	0	2	52	70.00
Engineering (24 hr) (1 \ ea)	0	0	1	0	500.00
OBM Lab (1 \ ea)	24	0	2	22	110.00
OptiDrill OBM (1 bbl \ bulk)	3301	0	28	3273	3,673.88

Treatment Recommendations

Last 24 hrs: None

Next 24 hrs: Will be determined when on bottom circulating

Comments/Remarks

Completed logging. Rigged down Halliburton. Preparing to P/U BHA and trip in the hole.

Daily Tax (US$)	Trucking (US$)	Daily Cost (US$)	4,691.11
237.23	0.00	Cumulative Cost (US$)	1,181,169.15

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Newpark Drilling Fluids, L.L.C. — **Mud Report**

Jerry Ard	Evanston WY	
Tel:	Tel:	Tel:
Mbl: (985) 688-1226	Tel:	Tel:
Pgr:	Fax:	Fax:

MudPIT™

Date	11/29/2010	MD (ft)	7,554
Report #	69	TVD (ft)	7,554
Spud Date	09/22/2010	Bit MD (ft)	1
API Well #	4302330021	Bit TVD (ft)	1
Present Activity		Waiting On Tools	

Operator:	**PIONEER NATURAL RESOURCES**	**Contractor:**	**Nabors 169**
Report For:	**Noah Dupuis/Derrick Berry**	**Report For:**	**Rod Flynn**

Well Name / No.	Field / Block	Sur - Abs or Sec-T-R	County / Parish	State / Province	Country
SOUTH HILLS FEDERAL # 6-1			JUAB COUNTY	UTAH	USA

Drill String	OD(in)	ID(in)	Length(ft)
DP	5.0	4.28	1

Casing	OD(in)	ID(in)	Top(ft)	Bottom(ft)
Surface Casing	13.375	12.41	0.0	4345

Pump and Circulating Data (check box for Riser Boost)

Pump #	1 ☐	2 ☐	3 ☐	Stand Pipe (psi)		0
Liner (in)	6.0	6.0	6.0	Calc P.Loss (psi)		0
Stroke (in)	10.0	10.0	10.0	ECD (ppg)		9.00
stk/min	0	0	0	Pump # 1	Min	Stks
Efficiency (%)	95	95	95	Surf-Bit	0	0
(bbl/stk)	0.083	0.083	0.083	Bott's Up	0	0
(gpm)	0	0	0	Surf-Surf	0	0
Total (gpm)		0		Tot. Circ.	0	0

Bit Data		Leak Off Test(ppg)	0
Bit Size (in)	12.25	TFA (in²)	
% Washout	10	Noz-Vel (ft/se)	
Bit Type:		Imp-Frc (psi)	
Bit #:	0	PSI Loss (psi)	
(1/32 in)		HSI (hp/in²)	
		Sys HHP (hp)	
		Sys HHP %	

Active Volume (bbl)	
Annulus:	0
Drill String:	0
Pits:	540
Slug Pit:	33
Total Circulating Volume	540
Volume Below Bit	1,216

Storage Volume(bbl)	
FT #1 - 11.1	480
FT #2 - 9.6	430
FT #3 - 7.8	425
FT #4 - 7.8	425
Total Storage Volume	1,760

Volume Reconciliation (bbl)			
Starting Volume	2190	Total Additions:	15
Water Additions	2	Hole Losses	6
Oil Additions	10	SCE Losses	14
Chemical Additions:		Other Losses	
Barite Additions:	3	Total Losses	20
Whole Mud Add:		Mud to Storage:	
Other Additions		Ending Volume:	2185

Fluid Type	Oil-based	Fluid Properties			
Sample From		Pit	Pit		
Time Sample Taken		3:30 AM	4:00 PM		
Depth @ Time of Sample (ft)		7,554	7,554		
Sample Temperature (°F)		60	78		
Weight (ppg)		9.0	9.0		
Funnel Viscosity (sec/qt)		59	57		
Plastic Vis. (cp) @ 150 (°F)		12	12		
Yield Point (lbf/100ft²)		18	18		
Gel Strength (10s/10m) (lbf/100ft²)		14 15	14 16		
Gel Strength (30 Min) (lbf/100ft²)		16	17		
HPHT Filtrate @ 250 (°F)		3.0	3.0		
Cake (1/32 in)(API/HPHT)		2.0	2.0		
Diesel SG= 0.84		76.0	76.0		
Water (% by vol)		15.0	15.0		
Solids (% by vol)		9.0	9.0		
Electrical Stability (V)		924	902		
Pom (Vsa) cc's Sample 1.0		3.7	3.7		
Vsn (0.282N) cc's Sample 1.0		5.2	5.2		
Lime Content (lb/bbl)		4.8	4.8		
Clom (mg/L)		52,000	52,000		
CaClom (mg/L)		81,380	81,380		
CaClom (lb/bbl)		28	28		
CaCl (ppm in water phase)		351,716	351,716		
Oil/Water Ratio		84 16	84 16		
Brine Density (S.G.)		1.34	1.34		
LGS (% by vol) SG= 2.60		4.5	4.5		
LGS (lb/bbl)		40.592	40.592		
HGS (% by vol) SG= 4.20		2.2	2.2		
HGS (lb/bbl)		32.858	32.858		
Corrected Solids (% by vol)		7	7		

Hydraulics (ft/min)

Annular Interval	Ann. Vel.	Crit. Vel.
Surface Casing:DP	0.00	365.91

Operating Data

Avg ROP(ft/hr)	
WOB (Klbs)	
Rotating Weight	
Rotatary Speed	
Rotating Hrs.	
Sliding Hrs.	
Non-Drlg Hrs.	
P/U (lbs)	
S/O (lbs)	
Torque (lbf-ft)	
Angle	
Azimuth	
Surv. Depth(ft)	

Viscometer Rdgs

600	42
300	30
200	26
100	21
6	14
3	13

Solids Control Equipment

Shaker	Screens		Hrs	U/F	O/F
1	70/70/70/70	De-Sander			
2	70/70/70/70	De-Silter	9.0		
3		Centrifuge	9.0		
4		Centrifuge	9.0		
M/C			9.0		

Active Products

Materials	Initial	Rec'd	Used	Balance	Cost (US$)
Bulk Tank (50 ton \ ea)	24	0	2	22	100.00
Bulk Tanks Blower (1 \ ea)	48	0	2	46	70.00
Engineering (24 hr) (1 \ ea)	0	0	1	0	500.00
GSX-509 (50 lb \ sk)	45	0	2	43	152.00
Lime (50 lb \ sx)	180	0	8	172	56.40
New Bar (Ton \ bulk)	88.45	0	2.5	85.95	297.50
OBM Lab (1 \ ea)	20	0	1	19	55.00
OptiDrill OBM (1 bbl \ bulk)	3257	0	20	3237	2,624.20
OptiMul (55 gal \ drum)	5	0	1	4	680.00

Treatment Recommendations

Last 24 hrs: Added Lime, GSX-509, water and diesel. Used barite to mix slug.

Next 24 hrs: Treatment will be determined when back on bottom circulating.

Comments/Remarks

Waiting on BHA tools to arrive to TIH.

Daily Losses: 20 bbls
Cumulative Losses: 3,560 bbls

Daily Tax (US$)	Trucking (US$)	Daily Cost (US$)	4,777.21
242.11	0.00	Cumulative Cost (US$)	1,195,493.22

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Newpark Drilling Fluids, L.L.C. — **Mud Report**

Jerry Ard	**Evanston WY**	
Tel:	Tel:	Tel:
Mbl: (985) 688-1226	Tel:	Tel:
Pgr:	Fax:	Fax:

MudPIT™

Date	11/30/2010	MD (ft)	7,696
Report #	70	TVD (ft)	7,696
Spud Date	09/22/2010	Bit MD (ft)	7,696
API Well #	4302330021	Bit TVD (ft)	7,696
Present Activity		Drilling Ahead	

Operator:	**PIONEER NATURAL RESOURCES**	**Contractor:**	**Nabors 169**
Report For:	**Noah Dupuis/Derrick Berry**	**Report For:**	**Rod Flynn**

Well Name / No.	Field / Block	Sur - Abs or Sec-T-R	County / Parish	State / Province	Country
SOUTH HILLS FEDERAL # 6-1			JUAB COUNTY	UTAH	USA

Drill String	OD(in)	ID(in)	Length(ft)
TRUTRAC	9.5	3	24
DC	8.0	2.875	191
DC	6.5	2.875	283
HWDP	5.0	3	738
DP	5.0	4.28	6460

Casing	OD(in)	ID(in)	Top(ft)	Bottom(ft)
Surface Casing	13.375	12.41	0.0	4345

Pump and Circulating Data (check box for Riser Boost)

	Pump # 1 ☐	2 ☐	3 ☐			
Liner (in)	6.0	6.0	6.0	Stand Pipe (psi)		2,945
Stroke (in)	10.0	10.0	10.0	Calc P.Loss (psi)		1,385
stk/min	180	0	0	ECD (ppg)		9.19
Efficiency (%)	95	95	95	Pump # 1	Min	Stks
(bbl/stk)	0.083	0.083	0.083	Surf-Bit	8	1,510
(gpm)	628	0	0	Bott's Up	70	12,537
Total (gpm)		628		Surf-Surf	78	14,047
				Tot. Circ.	116	20,837

Bit Data

Bit Size (in)	12.25					
% Washout	10					
Bit Type:	HCC Q507					
Bit #:	22					
(1/32 in)	13	13	13	13		
13	13	13				

Leak Off Test(ppg)	0				
TFA (in²)	0.907				
Noz-Vel (ft/se)	221.44				
Imp-Frc (psi)	648				
PSI Loss (psi)	396.05				
HSI (hp/in²)	1.228				
Sys HHP (hp)	1078.8				
Sys HHP %	13.448				

Active Volume (bbl)		Storage Volume(bbl)	
Annulus:	1,041	FT #1 - 11.1	480
Drill String:	125	FT #2 - 9.6	430
Pits:	564	FT #3 - 7.8	425
Slug Pit:	27	FT #4 - 7.8	425
Total Circulating Volume	1,731	Total Storage Volume	1,760
Volume Below Bit			0

Volume Reconciliation (bbl)			
Starting Volume	2185	Total Additions:	9
Water Additions	3	Hole Losses	
Oil Additions	6	SCE Losses	
Chemical Additions:		Other Losses	
Barite Additions:		Total Losses	
Whole Mud Add:		Mud to Storage:	
Other Additions		Ending Volume:	2194

Fluid Type	Oil-based	Fluid Properties			
Sample From		Pit	Pit		
Time Sample Taken		3:30 AM	4:00 PM		
Depth @ Time of Sample (ft)		7,696	7,554		
Sample Temperature (°F)		86	56		
Weight (ppg)		9.0	9.0		
Funnel Viscosity (sec/qt)		57	59		
Plastic Vis. (cp) @ 150 (°F)		12	13		
Yield Point (lbf/100ft²)		18	16		
Gel Strength (10s/10m) (lbf/100ft²)		14 15	14 16		
Gel Strength (30 Min) (lbf/100ft²)		16	18		
HPHT Filtrate @ 250 (°F)		3.0	3.0		
Cake (1/32 in)(API/HPHT)		2.0	2.0		
Diesel	SG= 0.84	76.0	76.0		
Water (% by vol)		15.0	15.0		
Solids (% by vol)		9.0	9.0		
Electrical Stability (V)		932	922		
Pom (Vsa)	cc's Sample 1.0	3.7	3.7		
Vsn (0.282N)	cc's Sample 1.0	5.2	5.2		
Lime Content (lb/bbl)		4.8	4.8		
Clom (mg/L)		52,000	52,000		
CaClom (mg/L)		81,380	81,380		
CaClom (lb/bbl)		28	28		
CaCl (ppm in water phase)		351,716	351,716		
Oil/Water Ratio		84 16	84 16		
Brine Density (S.G.)		1.34	1.34		
LGS (% by vol)	SG= 2.60	4.5	4.5		
LGS (lb/bbl)		40.592	40.592		
HGS (% by vol)	SG= 4.20	2.2	2.2		
HGS (lb/bbl)		32.858	32.858		
Corrected Solids (% by vol)		7	7		
Flowline Temperature		121.7			

Hydraulics (ft/min)

Annular Interval	Ann. Vel.	Crit. Vel.
Surface Casing:DP	119.04	365.91
OH:DP	98.17	361.06
OH:HWDP	98.17	361.06
OH:DC	110.33	368.15
OH:DC	130.74	377.16
OH:TRUTRAC ASSY	168.31	389.42

Operating Data

Avg ROP(ft/hr)	17.6
WOB (Klbs)	20
Rotating Weight	
Rotatary Speed	
Rotating Hrs.	
Sliding Hrs.	
Non-Drlg Hrs.	
P/U (lbs)	
S/O (lbs)	
Torque (lbf-ft)	
Angle	
Azimuth	
Surv. Depth(ft)	

Viscometer Rdgs		Solids Control Equipment					
600	42	Shaker	Screens		Hrs	U/F	O/F
300	30	1	70/70/70/70	De-Sander			
200	26	2	70/70/70/70	De-Silter	6.0		
100	22	3		Centrifuge	6.0		
6	14	4		Centrifuge	6.0		
3	13	M/C			6.0		

Active Products

Materials	Initial	Rec'd	Used	Balance	Cost (US$)
Bulk Tank (50 ton \ ea)	22	0	2	20	100.00
Bulk Tanks Blower (1 \ ea)	46	0	2	44	70.00
Engineering (24 hr) (1 \ ea)	0	0	1	0	500.00
OBM Lab (1 \ ea)	19	0	1	18	55.00

Treatment Recommendations

Last 24 hrs: Added Lime, OptiMul, OptiPlus, water and diesel.

Next 24 hrs: Will continue with same treatment and will add GSX-509.

Comments/Remarks

TIH. Drilled ahead to 7,696 ft at report time. Showing no downhole losses at this time

****Trucking charges from DT 56372KD and 56274KD

Daily Losses: 0 bbls
Cumulative Losses: 3,560 bbls

Daily Tax (US$)	Trucking (US$)	Daily Cost (US$)	3,111.20
13.50	2,372.70	Cumulative Cost (US$)	1,198,604.42

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Newpark Drilling Fluids, L.L.C. — **Mud Report**

Jerry Ard	Evanston WY	
Tel:	Tel:	Tel:
Mbl: (985) 688-1226	Tel:	Tel:
Pgr:	Fax:	Fax:

MudPIT™

Date	12/01/2010	MD (ft)	7,982
Report #	71	TVD (ft)	7,982
Spud Date	09/22/2010	Bit MD (ft)	1
API Well #	4302330021	Bit TVD (ft)	1
Present Activity		Preparing To TIH	

Operator:	**PIONEER NATURAL RESOURCES**	**Contractor:**	**Nabors 169**
Report For:	**Noah Dupuis/Bill Vigil**	**Report For:**	**Rod Flynn**

Well Name / No.	Field / Block	Sur - Abs or Sec-T-R	County / Parish	State / Province	Country
SOUTH HILLS FEDERAL # 6-1			JUAB COUNTY	UTAH	USA

Drill String	OD(in)	ID(in)	Length(ft)
TruTrac Assy	9.5	3	1
DC	8.0	2.875	0.0
DC	6.5	2.875	0.0
HWDP	5.0	3	0.0
DP	5.0	4.28	0.0

Casing	OD(in)	ID(in)	Top(ft)	Bottom(ft)
Surface Casing	13.375	12.41	0.0	4345

Pump and Circulating Data (check box for Riser Boost)

	Pump # 1 ☐	2 ☐	3 ☐	Stand Pipe (psi)	2,915
Liner (in)	6.0	6.0	6.0	Calc P.Loss (psi)	0
Stroke (in)	10.0	10.0	10.0	ECD (ppg)	9.00
stk/min	0	0	0	Pump # 1 Min	Stks
Efficiency (%)	95	95	95	Surf-Bit	0 0
(bbl/stk)	0.083	0.083	0.083	Bott's Up	0 0
(gpm)	0	0	0	Surf-Surf	0 0
Total (gpm)		0		Tot. Circ.	0 0

Bit Data

Bit Size (in)	12.25					
% Washout	10					
Bit Type:	HCC Q507					
Bit #:	24					
(1/32 in)	15	15	15	15		
15	15	15				

Leak Off Test(ppg)	0
TFA (in²)	1.208
Noz-Vel (ft/se)	
Imp-Frc (psi)	
PSI Loss (psi)	
HSI (hp/in²)	
Sys HHP (hp)	
Sys HHP %	

Active Volume (bbl)	
Annulus:	0
Drill String:	0
Pits:	477
Slug Pit:	22
Total Circulating Volume	477
Volume Below Bit	1,292

Storage Volume(bbl)	
FT #1 - 11.1	350
FT #2 - 9.6	430
FT #3 - 7.8	350
FT #4 - 7.8	425
Total Storage Volume	1,555

Volume Reconciliation (bbl)			
Starting Volume	2194	Total Additions:	124
Water Additions	8	Hole Losses	28
Oil Additions	18	SCE Losses	27
Chemical Additions:		Other Losses	
Barite Additions:	22	Total Losses	55
Whole Mud Add:	76	Mud to Storage:	
Other Additions		Ending Volume:	2263

Fluid Type	Oil-based	Fluid Properties			
Sample From		Pit	Pit		
Time Sample Taken		3:30 AM	4:00 PM		
Depth @ Time of Sample (ft)		7,982	7,957		
Sample Temperature (°F)		83	121		
Weight (ppg)		9.0	9.0		
Funnel Viscosity (sec/qt)		59	56		
Plastic Vis. (cp) @ 150 (°F)		12	12		
Yield Point (lbf/100ft²)		18	18		
Gel Strength (10s/10m) (lbf/100ft²)		14 15	14 16		
Gel Strength (30 Min) (lbf/100ft²)		17	17		
HPHT Filtrate @ 250 (°F)		3.0	3.0		
Cake (1/32 in)(API/HPHT)		2.0	2.0		
Diesel SG= 0.84		76.0	76.0		
Water (% by vol)		15.0	15.0		
Solids (% by vol)		9.0	9.0		
Electrical Stability (V)		918	926		
Pom (Vsa) cc's Sample 1.0		3.7	3.7		
Vsn (0.282N) cc's Sample 1.0		5.2	5.2		
Lime Content (lb/bbl)		4.8	4.8		
Clom (mg/L)		52,000	52,000		
CaClom (mg/L)		81,380	81,380		
CaClom (lb/bbl)		28	28		
CaCl (ppm in water phase)		351,716	351,716		
Oil/Water Ratio		84 16	84 16		
Brine Density (S.G.)		1.34	1.34		
LGS (% by vol) SG= 2.60		4.5	4.5		
LGS (lb/bbl)		40.592	40.592		
HGS (% by vol) SG= 4.20		2.2	2.2		
HGS (lb/bbl)		32.858	32.858		
Corrected Solids (% by vol)		7	7		
Flowline Temperature			160.4		

Hydraulics (ft/min)

Annular Interval	Ann. Vel.	Crit. Vel.
Surface Casing:TruTrac	0.00	401.67

Operating Data

Avg ROP(ft/hr)	16.8
WOB (Klbs)	20
Rotating Weight	
Rotatary Speed	
Rotating Hrs.	
Sliding Hrs.	
Non-Drlg Hrs.	
P/U (lbs)	
S/O (lbs)	
Torque (lbf-ft)	
Angle	
Azimuth	
Surv. Depth(ft)	

Viscometer Rdgs		Solids Control Equipment					
600	42	Shaker	Screens		Hrs	U/F	O/F
300	30	1	70/70/70/70	De-Sander			
200	25	2	70/70/70/70	De-Silter	17.0		
100	21	3		Centrifuge	17.0		
6	14	4		Centrifuge	17.0		
3	13	M/C			17.0		

Active Products

Materials	Initial	Rec'd	Used	Balance	Cost (US$)
Bentone 910 (50 lb \ sk)	91	0	6	85	420.00
Bulk Tank (50 ton \ ea)	20	0	2	18	100.00
Bulk Tanks Blower (1 \ ea)	44	0	2	42	70.00
Engineering (24 hr) (1 \ ea)	0	0	1	0	500.00
Fiber Fluid Cor (25 lb \ sk)	291	0	96	195	3,561.60
GSX-509 (50 lb \ sk)	43	0	3	40	228.00
Lime (50 lb \ sx)	172	0	24	148	169.20
New Bar (Ton \ bulk)	85.95	23.94	16	93.89	1,904.00
OBM Lab (1 \ ea)	18	0	1	17	55.00
OptiDrill OBM (1 bbl \ bulk)	3237	0	55	3182	7,216.55

Treatment Recommendations

Last 24 hrs: Added Lime, GSX-509, Bentone, water and diesel. Added Fiber Fluid LCM to the Active System for downhole losses.

Next 24 hrs: Will be determined when back on bottom circulating.

Comments/Remarks

Drilled ahead to 7,982 ft. Motor lost pulse. Pumped slug and POOH for motor change. Cleaning drill floor before tripping back in hole at report time.

Daily Losses: 55 bbls
Cumulative Losses: 3,615 bbls

Daily Tax (US$)	Trucking (US$)	Daily Cost (US$)	15,047.81
823.46	0.00	Cumulative Cost (US$)	1,213,652.23

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Newpark Drilling Fluids, L.L.C. — **Mud Report**

Jerry Ard	Evanston WY	
Tel:	Tel:	Tel:
Mbl: (985) 688-1226	Tel:	Tel:
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MudPIT™

Date	12/03/2010	MD (ft)	8,255
Report #	73	TVD (ft)	8,255
Spud Date	09/22/2010	Bit MD (ft)	8,255
API Well #	4302330021	Bit TVD (ft)	8,255
Present Activity		Drilling Ahead	

Operator:	**PIONEER NATURAL RESOURCES**	**Contractor:**	**Nabors 169**
Report For:	**Noah Dupuis/Bill Vigil**	**Report For:**	**Rod Flynn**

Well Name / No.	Field / Block	Sur - Abs or Sec-T-R	County / Parish	State / Province	Country
SOUTH HILLS FEDERAL # 6-1			JUAB COUNTY	UTAH	USA

Drill String	OD(in)	ID(in)	Length(ft)
TruTrac Assy	9.5	3	24
DC	8.0	2.875	191
DC	6.5	2.875	283
HWDP	5.0	3	738
DP	5.0	4.28	7019

Casing	OD(in)	ID(in)	Top(ft)	Bottom(ft)
Surface Casing	13.375	12.41	0.0	4345

Pump and Circulating Data (check box for Riser Boost)

Pump #	1 ☐	2 ☐	3 ☐	Stand Pipe (psi)		2,807
Liner (in)	6.0	6.0	6.0	Calc P.Loss (psi)		1,368
Stroke (in)	10.0	10.0	10.0	ECD (ppg)		9.19
stk/min	190	0	0	Pump # 1	Min	Stks
Efficiency (%)	95	95	95	Surf-Bit	9	1,630
(bbl/stk)	0.083	0.083	0.083	Bott's Up	71	13,560
(gpm)	663	0	0	Surf-Surf	80	15,190
Total (gpm)		663		Tot. Circ.	101	19,175

Bit Data									
Bit Size (in)	12.25								
% Washout	10								
Bit Type:	HCC Q507								
Bit #:	24								
(1/32 in)	15	15	15	15					
15	15	15							

Leak Off Test(ppg)	0
TFA (in²)	1.208
Noz-Vel (ft/se)	175.56
Imp-Frc (psi)	542
PSI Loss (psi)	248.95
HSI (hp/in²)	0.815
Sys HHP (hp)	1085.4
Sys HHP %	8.869

Active Volume (bbl)	
Annulus:	1,126
Drill String:	135
Pits:	331
Slug Pit:	28
Total Circulating Volume	1,593
Volume Below Bit	0

Storage Volume(bbl)	
FT #1 - 11.1	350
FT #2 - 9.6	430
FT #3 - 7.8	230
FT #4 - 7.8	425
Total Storage Volume	1,435

Volume Reconciliation (bbl)			
Starting Volume	2263	Total Additions:	92
Water Additions		Hole Losses	
Oil Additions		SCE Losses	6
Chemical Additions:		Other Losses	
Barite Additions:	27	Total Losses	6
Whole Mud Add:	65	Mud to Storage:	
Other Additions		Ending Volume:	2349

Fluid Type	Oil-based	Fluid Properties			
Sample From		Pit	Pit		
Time Sample Taken		3:30 AM	4:00 PM		
Depth @ Time of Sample (ft)		8,255	8,004		
Sample Temperature (°F)		121	122		
Weight (ppg)		9.0	9.0		
Funnel Viscosity (sec/qt)		54	55		
Plastic Vis. (cp) @ 150 (°F)		12	13		
Yield Point (lbf/100ft²)		18	18		
Gel Strength (10s/10m) (lbf/100ft²)		14 16	14 15		
Gel Strength (30 Min) (lbf/100ft²)		17	19		
HPHT Filtrate @ 250 (°F)		2.5	2.5		
Cake (1/32 in)(API/HPHT)		2.0	2.0		
Diesel SG= 0.84		76.0	76.0		
Water (% by vol)		15.0	15.0		
Solids (% by vol)		9.0	9.0		
Electrical Stability (V)		956	941		
Pom (Vsa) cc's Sample 1.0		3.8	3.8		
Vsn (0.282N) cc's Sample 1.0		5.3	5.3		
Lime Content (lb/bbl)		4.9	4.9		
Clom (mg/L)		53,000	53,000		
CaClom (mg/L)		82,945	82,945		
CaClom (lb/bbl)		29	29		
CaCl (ppm in water phase)		356,071	356,071		
Oil/Water Ratio		84 16	84 16		
Brine Density (S.G.)		1.34	1.34		
LGS (% by vol) SG= 2.60		4.4	4.4		
LGS (lb/bbl)		40.231	40.231		
HGS (% by vol) SG= 4.20		2.2	2.2		
HGS (lb/bbl)		32.671	32.671		
Corrected Solids (% by vol)		7	7		
Flowline Temperature		161.8	161.9		

Hydraulics (ft/min)

Annular Interval	Ann. Vel.	Crit. Vel.
Surface Casing:DP	125.65	365.91
OH:DP	103.62	361.06
OH:HWDP	103.62	361.06
OH:DC	116.46	368.15
OH:DC	138.00	377.16
OH:TruTrac Assy	177.66	389.42

Operating Data

Avg ROP(ft/hr)	2.0
WOB (Klbs)	26
Rotating Weight	
Rotatary Speed	
Rotating Hrs.	
Sliding Hrs.	
Non-Drlg Hrs.	
P/U (lbs)	
S/O (lbs)	
Torque (lbf-ft)	
Angle	
Azimuth	
Surv. Depth(ft)	

Viscometer Rdgs		Solids Control Equipment					
600	42	Shaker	Screens		Hrs	U/F	O/F
300	30	1	70/70/70/70	De-Sander			
200	26	2	70/70/70/70	De-Silter			
100	21	3		Centrifuge	24.0		
6	14	4		Centrifuge	24.0		
3	13	M/C			12.0		

Active Products

Materials	Initial	Rec'd	Used	Balance	Cost (US$)
Bentone 910 (50 lb \ sk)	80	0	24	56	1,680.00
Bulk Tank (50 ton \ ea)	16	0	2	14	100.00
Bulk Tanks Blower (1 \ ea)	40	0	2	38	70.00
Drum Disposal (1 \ ea)	22	0	22	0	660.00
Engineering (24 hr) (1 \ ea)	0	0	1	0	500.00
Lime (50 lb \ sx)	140	0	48	92	338.40
New Bar (Ton \ bulk)	91.39	0	20	71.39	2,380.00
OBM Lab (1 \ ea)	16	0	1	15	55.00
Oil Dry (50 lb \ sack)	51	0	8	43	95.20
OptiClean (55 gal \ drum)	12	0	2	10	789.60
OptiDrill OBM (1 bbl \ bulk)	3152	0	6	3146	787.26
OptiThin (55 gal \ Drum)	9	0	2	7	514.10
OptiVis RM (5 gal \ bucket)	82	0	6	76	567.00
Salt (Evaporated)-C (50 lb \ sk)	137	0	12	125	67.56

Treatment Recommendations

Last 24 hrs: Added Bentone, Lime, OptiMul, OptiPlus, GSX-509 and diesel. Added Fiber Fluid LCM to the active system to treat for downhole losses.

Next 24 hrs: Will continue with same treatment.

Comments/Remarks

Drilled ahead to 8,255 ft at report time. ROP has slowed to ~2 fph.

Daily Losses: 6 bbls
Cumulative Losses: 3,596 bbls

Daily Tax (US$)	Trucking (US$)	Daily Cost (US$)	9,090.37
486.25	0.00	Cumulative Cost (US$)	1,231,162.71

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Newpark Drilling Fluids, L.L.C. — **Mud Report**

Jerry Ard	Evanston WY	
Tel:	Tel:	Tel:
Mbl: (985) 688-1226	Tel:	Tel:
Pgr:	Fax:	Fax:

MudPIT™

Date	12/04/2010	MD (ft)	8,255
Report #	74	TVD (ft)	8,255
Spud Date	09/22/2010	Bit MD (ft)	1
API Well #	4302330021	Bit TVD (ft)	1
Present Activity		Preparing To Run Casing	

Operator:	**PIONEER NATURAL RESOURCES**	**Contractor:**	**Nabors 169**
Report For:	**Noah Dupuis/Bill Vigil**	**Report For:**	**Rod Flynn**

Well Name / No.	Field / Block	Sur - Abs or Sec-T-R	County / Parish	State / Province	Country
SOUTH HILLS FEDERAL # 6-1			JUAB COUNTY	UTAH	USA

Drill String	OD(in)	ID(in)	Length(ft)
DP	5.0	4.28	1

Casing	OD(in)	ID(in)	Top(ft)	Bottom(ft)
Surface Casing	13.375	12.41	0.0	4345

Pump and Circulating Data (check box for Riser Boost)

	Pump # 1 ☐	2 ☐	3 ☐	Stand Pipe (psi)	0
Liner (in)	6.0	6.0	6.0	Calc P.Loss (psi)	0
Stroke (in)	10.0	10.0	10.0	ECD (ppg)	9.00
stk/min	0	0	0	Pump # 1 Min	Stks
Efficiency (%)	95	95	95	Surf-Bit	0 / 0
(bbl/stk)	0.083	0.083	0.083	Bott's Up	0 / 0
(gpm)	0	0	0	Surf-Surf	0 / 0
Total (gpm)		0		Tot. Circ.	0 / 0

Bit Data		Leak Off Test(ppg)	0
Bit Size (in)	12.25	TFA (in²)	
% Washout	10	Noz-Vel (ft/se)	
Bit Type:		Imp-Frc (psi)	
Bit #:	0	PSI Loss (psi)	
(1/32 in)		HSI (hp/in²)	
		Sys HHP (hp)	
		Sys HHP %	

Active Volume (bbl)	
Annulus:	0
Drill String:	0
Pits:	465
Slug Pit:	12
Total Circulating Volume	465
Volume Below Bit	1,340

Storage Volume(bbl)	
FT #1 - 11.1	350
FT #2 - 9.6	430
FT #3 - 7.8	230
FT #4 - 7.8	425
Total Storage Volume	1,435

Volume Reconciliation (bbl)			
Starting Volume	2349	Total Additions:	51
Water Additions		Hole Losses	109
Oil Additions	48	SCE Losses	22
Chemical Additions:		Other Losses	
Barite Additions:	3	Total Losses	131
Whole Mud Add:		Mud to Storage:	
Other Additions		Ending Volume:	2269

Fluid Type	Oil-based	Fluid Properties			
Sample From		Pit	Pit		
Time Sample Taken		3:30 AM	4:00 PM		
Depth @ Time of Sample (ft)		8,257	8,257		
Sample Temperature (°F)		101	119		
Weight (ppg)		9.0	9.0		
Funnel Viscosity (sec/qt)		58	57		
Plastic Vis. (cp) @ 150 (°F)		12	12		
Yield Point (lbf/100ft²)		18	18		
Gel Strength (10s/10m) (lbf/100ft²)		14 / 15	14 / 16		
Gel Strength (30 Min) (lbf/100ft²)		16	17		
HPHT Filtrate @ 250 (°F)		2.5	2.5		
Cake (1/32 in)(API/HPHT)		2.0	2.0		
Diesel SG= 0.84		76.0	76.0		
Water (% by vol)		15.0	15.0		
Solids (% by vol)		9.0	9.0		
Electrical Stability (V)		955	950		
Pom (Vsa) cc's Sample 1.0		3.8	3.8		
Vsn (0.282N) cc's Sample 1.0		5.3	5.3		
Lime Content (lb/bbl)		4.9	4.9		
Clom (mg/L)		53,000	53,000		
CaClom (mg/L)		82,945	82,945		
CaClom (lb/bbl)		29	29		
CaCl (ppm in water phase)		356,071	356,071		
Oil/Water Ratio		84 / 16	84 / 16		
Brine Density (S.G.)		1.34	1.34		
LGS (% by vol) SG= 2.60		4.4	4.4		
LGS (lb/bbl)		40.231	40.231		
HGS (% by vol) SG= 4.20		2.2	2.2		
HGS (lb/bbl)		32.671	32.671		
Corrected Solids (% by vol)		7	7		

Hydraulics (ft/min)			
Annular Interval	Ann. Vel.	Crit. Vel.	
Surface Casing:DP	0.00	365.91	

Operating Data	
Avg ROP(ft/hr)	
WOB (Klbs)	
Rotating Weight	
Rotatary Speed	
Rotating Hrs.	
Sliding Hrs.	
Non-Drlg Hrs.	
P/U (lbs)	
S/O (lbs)	
Torque (lbf-ft)	
Angle	
Azimuth	
Surv. Depth(ft)	

Viscometer Rdgs		Solids Control Equipment					
600	42	Shaker	Screens		Hrs	U/F	O/F
300	30	1	70/70/70/70	De-Sander			
200	26	2	70/70/70/70	De-Silter			
100	20	3		Centrifuge	24.0		
6	14	4		Centrifuge	24.0		
3	13	M/C			24.0		

Active Products

Materials	Initial	Rec'd	Used	Balance	Cost (US$)
Bentone 910 (50 lb \ sk)	56	0	14	42	980.00
Bulk Tank (50 ton \ ea)	14	0	2	12	100.00
Bulk Tanks Blower (1 \ ea)	38	0	2	36	70.00
Engineering (24 hr) (1 \ ea)	0	0	1	0	500.00
Fiber Fluid Cor (25 lb \ sk)	169	0	88	81	3,264.80
GSX-509 (50 lb \ sk)	38	0	3	35	228.00
Lime (50 lb \ sx)	92	0	42	50	296.10
New Bar (Ton \ bulk)	71.39	0	2.5	68.89	297.50
OBM Lab (1 \ ea)	15	0	1	14	55.00
OptiDrill OBM (1 bbl \ bulk)	3146	0	131	3015	17,188.51
OptiPlus (55 gal \ Drum)	12	0	1	11	810.00

Treatment Recommendations

Last 24 hrs: Added Bentone, Lime, GSX-509 and diesel. Added Fiber Fluid LCM to the active system to treat downhole losses.

Next 24 hrs: None.

Comments/Remarks

Drilled ahead to 8,257 ft (casing point). Circulated B/U .Pumped slug and did short trip. Pumped 2 - B/U, pumped slug and POOH to log and run casing. Logged hole. Preparing to run casing at report time.

****Trucking charges from DT EVA2526

Daily Tax (US$)	Trucking (US$)	Daily Cost (US$)	26,288.54
1,397.39	1,101.24	Cumulative Cost (US$)	1,257,451.25

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Newpark Drilling Fluids, L.L.C. — **Mud Report**

Jerry Ard	Evanston WY	
Tel:	Tel:	Tel:
Mbl: (985) 688-1226	Tel:	Tel:
Pgr:	Fax:	Fax:

MudPIT™

Date	12/05/2010	MD (ft)	8,255
Report #	75	TVD (ft)	8,255
Spud Date	09/22/2010	Bit MD (ft)	5,315
API Well #	4302330021	Bit TVD (ft)	5,315
Present Activity		Running Casing	

Operator:	**PIONEER NATURAL RESOURCES**	**Contractor:**	**Nabors 169**
Report For:	**Noah Dupuis/Bill Vigil**	**Report For:**	**Rod Flynn**

Well Name / No.	Field / Block	Sur - Abs or Sec-T-R	County / Parish	State / Province	Country
SOUTH HILLS FEDERAL # 6-1			JUAB COUNTY	UTAH	USA

Drill String	OD(in)	ID(in)	Length(ft)
Casing	9.875	8.625	5315

Casing	OD(in)	ID(in)	Top(ft)	Bottom(ft)
Surface Casing	13.375	12.41	0.0	4345

Pump and Circulating Data (check box for Riser Boost)

Pump #	1 ☐	2 ☐	3 ☐	Stand Pipe (psi)		0
Liner (in)	6.0	6.0	6.0	Calc P.Loss (psi)		0
Stroke (in)	10.0	10.0	10.0	ECD (ppg)		9.00
stk/min	0	0	0	Pump # 1	Min	Stks
Efficiency (%)	95	95	95	Surf-Bit	0	0
(bbl/stk)	0.083	0.083	0.083	Bott's Up	0	0
(gpm)	0	0	0	Surf-Surf	0	0
Total (gpm)		0		Tot. Circ.	0	0

Bit Data		Leak Off Test(ppg)	0
Bit Size (in)	12.25	TFA (in²)	
% Washout	10	Noz-Vel (ft/se)	
Bit Type:		Imp-Frc (psi)	
Bit #:	0	PSI Loss (psi)	
(1/32 in)		HSI (hp/in²)	
		Sys HHP (hp)	
		Sys HHP %	

Active Volume (bbl)	
Annulus:	318
Drill String:	384
Pits:	566
Slug Pit:	65
Total Circulating Volume	1,268
Volume Below Bit	519

Storage Volume(bbl)	
FT #1 - 11.1	430
FT #2 - 9.6	430
FT #3 - 7.8	31
FT #4 - 7.8	425
Total Storage Volume	1,316

Volume Reconciliation (bbl)			
Starting Volume	2269	Total Additions:	0
Water Additions		Hole Losses	
Oil Additions		SCE Losses	
Chemical Additions:		Other Losses	
Barite Additions:		Total Losses	
Whole Mud Add:		Mud to Storage:	
Other Additions		Ending Volume:	2269

Fluid Type	Oil-based	Fluid Properties			
Sample From		Pit	Pit		
Time Sample Taken		3:30 AM	4:00 PM		
Depth @ Time of Sample (ft)		8,257	8,257		
Sample Temperature (°F)		82	82		
Weight (ppg)		9.0	9.0		
Funnel Viscosity (sec/qt)		57	58		
Plastic Vis. (cp) @ 150 (°F)		12	12		
Yield Point (lbf/100ft²)		18	18		
Gel Strength (10s/10m) (lbf/100ft²)		14 / 15	15 / 16		
Gel Strength (30 Min) (lbf/100ft²)		16	17		
HPHT Filtrate @ 250 (°F)		2.5	2.5		
Cake (1/32 in)(API/HPHT)		2.0	2.0		
Diesel SG= 0.84		76.0	76.0		
Water (% by vol)		15.0	15.0		
Solids (% by vol)		9.0	9.0		
Electrical Stability (V)		961	958		
Pom (Vsa) cc's Sample 1.0		3.8	3.8		
Vsn (0.282N) cc's Sample 1.0		5.3	5.3		
Lime Content (lb/bbl)		4.9	4.9		
Clom (mg/L)		53,000	53,000		
CaClom (mg/L)		82,945	82,945		
CaClom (lb/bbl)		29	29		
CaCl (ppm in water phase)		356,071	356,071		
Oil/Water Ratio		84 / 16	84 / 16		
Brine Density (S.G.)		1.34	1.34		
LGS (% by vol) SG= 2.60		4.4	4.4		
LGS (lb/bbl)		40.231	40.231		
HGS (% by vol) SG= 4.20		2.2	2.2		
HGS (lb/bbl)		32.671	32.671		
Corrected Solids (% by vol)		7	7		

Hydraulics (ft/min)			Operating Data	
Annular Interval	Ann. Vel.	Crit. Vel.	Avg ROP(ft/hr)	
Surface Casing:Casing	0.00	407.23	WOB (Klbs)	
OH:Casing	0.00	393.29	Rotating Weight	
			Rotatary Speed	
			Rotating Hrs.	
			Sliding Hrs.	
			Non-Drlg Hrs.	
			P/U (lbs)	
			S/O (lbs)	
			Torque (lbf-ft)	
			Angle	
			Azimuth	
			Surv. Depth(ft)	

Viscometer Rdgs		Solids Control Equipment					
600	42	Shaker	Screens		Hrs	U/F	O/F
300	30	1	70/70/70/70	De-Sander			
200	25	2	70/70/70/70	De-Silter			
100	21	3		Centrifuge			
6	14	4		Centrifuge			
3	13	M/C					

Active Products

Materials	Initial	Rec'd	Used	Balance	Cost (US$)
Bulk Tank (50 ton \ ea)	12	0	2	10	100.00
Bulk Tanks Blower (1 \ ea)	36	0	2	34	70.00
Engineering (24 hr) (1 \ ea)	0	0	1	0	500.00
OBM Lab (1 \ ea)	14	0	1	13	55.00

Treatment Recommendations

Last 24 hrs: Pumped 50 bbl, 11.7 ppb slug to keep casing from flowing out of the top. Moved mud around on location to make room for cement displacement. Shipped 140 bbls to Denton's.

Next 24 hrs: None

Comments/Remarks

Ran 9 7/8 in casing to 5,315 ft at report time.

Daily Tax (US$)	Trucking (US$)	Daily Cost (US$)	738.50
13.50	0.00	Cumulative Cost (US$)	1,281,454.75

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Newpark Drilling Fluids, L.L.C. — **Mud Report**

Jerry Ard	Evanston WY	
Tel:	Tel:	Tel:
Mbl: (985) 688-1226	Tel:	Tel:
Pgr:	Fax:	Fax:

MudPIT™

Date	12/07/2010	MD (ft)	8,247
Report #	76	TVD (ft)	8,247
Spud Date	09/22/2010	Bit MD (ft)	1
API Well #	4302330021	Bit TVD (ft)	1
Present Activity		Waiting On Cement	

Operator:	**PIONEER NATURAL RESOURCES**	**Contractor:**	**Nabors 169**
Report For:	**Noah Dupuis/Bill Vigil**	**Report For:**	**Rod Flynn**

Well Name / No.	Field / Block	Sur - Abs or Sec-T-R	County / Parish	State / Province	Country
SOUTH HILLS FEDERAL # 6-1			JUAB COUNTY	UTAH	USA

Drill String	OD(in)	ID(in)	Length(ft)
DP	5.0	4.28	1

Casing	OD(in)	ID(in)	Top(ft)	Bottom(ft)
Surface Casing	13.375	12.41	0.0	4345
INTERMEDIAT	9.875	8.625	0.0	8247

Pump and Circulating Data (check box for Riser Boost)

	Pump # 1 ☐	2 ☐	3 ☐	Stand Pipe (psi)		0
Liner (in)	6.0	6.0	6.0	Calc P.Loss (psi)		0
Stroke (in)	10.0	10.0	10.0	ECD (ppg)		9.50
stk/min	0	0	0	Pump # 1	Min	Stks
Efficiency (%)	95	95	95	Surf-Bit	0	0
(bbl/stk)	0.083	0.083	0.083	Bott's Up	0	0
(gpm)	0	0	0	Surf-Surf	0	0
Total (gpm)		0		Tot. Circ.	0	0

Bit Data		Leak Off Test(ppg)	0
Bit Size (in)	8.62	TFA (in²)	
% Washout	10	Noz-Vel (ft/se)	
Bit Type:		Imp-Frc (psi)	
Bit #:	0	PSI Loss (psi)	
(1/32 in)		HSI (hp/in²)	
		Sys HHP (hp)	
		Sys HHP %	

Active Volume (bbl)	
Annulus:	0
Drill String:	0
Pits:	630
Slug Pit:	58
Total Circulating Volume	631
Volume Below Bit	596

Storage Volume(bbl)	
FT #1 - 11.1	430
FT #2 - 9.6	430
FT #3 - 7.8	31
FT #4 - 7.8	425
Total Storage Volume	1,316

Volume Reconciliation (bbl)			
Starting Volume	2269	Total Additions:	12
Water Additions		Hole Losses	131
Oil Additions		SCE Losses	
Chemical Additions:		Other Losses	
Barite Additions:	12	Total Losses	131
Whole Mud Add:		Mud to Storage:	
Other Additions		Ending Volume:	2150

Fluid Type	Oil-based	Fluid Properties			
Sample From		Pit	Pit		
Time Sample Taken		2:00 AM	4:00 PM		
Depth @ Time of Sample (ft)		8,257	8,257		
Sample Temperature (°F)		110	117		
Weight (ppg)		9.5	9.0		
Funnel Viscosity (sec/qt)		71	78		
Plastic Vis. (cp) @ 150 (°F)		13	12		
Yield Point (lbf/100ft²)		16	18		
Gel Strength (10s/10m) (lbf/100ft²)		14 / 17	15 / 16		
Gel Strength (30 Min) (lbf/100ft²)		19	18		
HPHT Filtrate @ 250 (°F)		2.0	2.0		
Cake (1/32 in)(API/HPHT)		2.0	2.0		
Diesel SG= 0.84		76.0	76.0		
Water (% by vol)		15.0	15.0		
Solids (% by vol)		9.0	9.0		
Electrical Stability (V)		955	959		
Pom (Vsa) cc's Sample 1.0		3.7	3.7		
Vsn (0.282N) cc's Sample 1.0		5.3	5.3		
Lime Content (lb/bbl)		4.8	4.8		
Clom (mg/L)		53,000	53,000		
CaClom (mg/L)		82,945	82,945		
CaClom (lb/bbl)		29	29		
CaCl (ppm in water phase)		356,071	356,071		
Oil/Water Ratio		84 / 16	84 / 16		
Brine Density (S.G.)		1.34	1.34		
LGS (% by vol) SG= 2.60		0.7	4.4		
LGS (lb/bbl)		6.154	40.231		
HGS (% by vol) SG= 4.20		6.0	2.2		
HGS (lb/bbl)		87.719	32.671		
Corrected Solids (% by vol)		7	7		
Flowline Temperature			127.0		

Hydraulics (ft/min)

Annular Interval	Ann. Vel.	Crit. Vel.
INTERMEDIATE	0.00	372.43

Operating Data

Avg ROP(ft/hr)	
WOB (Klbs)	
Rotating Weight	
Rotatary Speed	
Rotating Hrs.	
Sliding Hrs.	
Non-Drlg Hrs.	
P/U (lbs)	
S/O (lbs)	
Torque (lbf-ft)	
Angle	
Azimuth	
Surv. Depth(ft)	

Viscometer Rdgs

600	42
300	29
200	25
100	20
6	13
3	12

Solids Control Equipment

Shaker	Screens		Hrs	U/F	O/F
1	70/70/70/70	De-Sander			
2	70/70/70/70	De-Silter			
3		Centrifuge			
4		Centrifuge			
M/C					

Active Products

Materials	Initial	Rec'd	Used	Balance	Cost (US$)
Bentone 910 (50 lb \ sk)	42	0	12	30	840.00
Bulk Tank (50 ton \ ea)	10	0	2	8	100.00
Bulk Tanks Blower (1 \ ea)	34	0	2	32	70.00
Engineering (24 hr) (1 \ ea)	0	0	1	0	500.00
New Bar (Ton \ bulk)	68.89	0	9	59.89	1,071.00
NewGel HY (50 # \ sk)	63	0	63	0	425.25
NewPHPA (5 Gal \ Pail)	6	0	6	0	480.00
OBM Lab (1 \ ea)	13	0	1	12	55.00
OptiDrill OBM (1 bbl \ bulk)	3015	0	131	2884	17,188.51

Treatment Recommendations

Last 24 hrs: None

Next 24 hrs: Will be determined when drilling resumes.

Comments/Remarks

Completed running casing and cemented same. Lost 131 bbls by the end of the cement job.

Daily Losses: 131 bbls
Cumulative Losses: 4,507 bbls

Daily Tax (US$)	Trucking (US$)	Daily Cost (US$)	21,943.55
1,213.79	0.00	Cumulative Cost (US$)	1,303,398.30

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Newpark Drilling Fluids, L.L.C. — **Mud Report** — ***MudPIT™***

Jerry Ard		Evanston WY		
Tel:		Tel:		Tel:
Mbl:	(985) 688-1226	Tel:		Tel:
Pgr:		Fax:		Fax:

Date	12/07/2010	MD (ft)	8,247
Report #	77	TVD (ft)	8,247
Spud Date	09/22/2010	Bit MD (ft)	8,134
API Well #	4302330021	Bit TVD (ft)	8,134
Present Activity		Preparing To TIH	

Operator:	**PIONEER NATURAL RESOURCES**	**Contractor:**	**Nabors 169**
Report For:	**Dean Baker/Bill Vigil**	**Report For:**	**Coby Tuller**

Well Name / No.	Field / Block	Sur - Abs or Sec-T-R	County / Parish	State / Province	Country
SOUTH HILLS FEDERAL # 6-1			JUAB COUNTY	UTAH	USA

Drill String	OD(in)	ID(in)	Length(ft)
TRUTRAC	6.875	2.825	74.82
DC	6.5	2.875	280.27
HWDP	5.0	3	738.26
DP	5.0	4.28	7040.65

Casing	OD(in)	ID(in)	Top(ft)	Bottom(ft)
Surface Casing	13.375	12.41	0.0	4345
Intermediate	9.875	8.625	0.0	8247

Pump and Circulating Data (check box for Riser Boost)

Pump #	1	2	3			
Liner (in)	6.0	6.0	6.0	Stand Pipe (psi)		1,758
Stroke (in)	10.0	10.0	10.0	Calc P.Loss (psi)		426
stk/min	55	0	0	ECD (ppg)		9.78
Efficiency (%)	95	95	95	Pump # 1	Min	Stks
(bbl/stk)	0.083	0.083	0.083	Surf-Bit	29	1,620
(gpm)	192	0	0	Bott's Up	84	4,623
				Surf-Surf	114	6,243
Total (gpm)		192		Tot. Circ.	197	10,854

Bit Data						
Bit Size (in)	8.62					
% Washout	0					
Bit Type:	Q507FX					
Bit #:	24					
(1/32 in)	11	11	11	12		
12	12	12				

Leak Off Test(ppg)	0
TFA (in²)	0.72
Noz-Vel (ft/se)	85.245
Imp-Frc (psi)	78
PSI Loss (psi)	60.647
HSI (hp/in²)	0.116
Sys HHP (hp)	196.78
Sys HHP %	3.45

Active Volume (bbl)		Storage Volume(bbl)	
Annulus:	384	FT #1 - 11.1	430
Drill String:	135	FT #2 - 9.6	455
Pits:	383	FT #3 - 7.8	285
Slug Pit:	54	FT #4 - 7.8	480
Total Circulating Volume		Total Storage Volume	
902		1,650	
Volume Below Bit		8	

Volume Reconciliation (bbl)			
Starting Volume	2150	Total Additions:	0
Water Additions		Hole Losses	
Oil Additions		SCE Losses	
Chemical Additions:		Other Losses	
Barite Additions:		Total Losses	
Whole Mud Add:		Mud to Storage:	
Other Additions		Ending Volume:	2150

Fluid Type: Oil-based			Fluid Properties			
Sample From			Pit	Pit		
Time Sample Taken			4:00 AM	4:00 PM		
Depth @ Time of Sample (ft)			8,257	8,257		
Sample Temperature	(°F)		71	71		
Weight (ppg)			9.3	9.2		
Funnel Viscosity (sec/qt)			119	79		
Plastic Vis. (cp) @	150	(°F)	11	12		
Yield Point (lbf/100ft²)			20	18		
Gel Strength (10s/10m) (lbf/100ft²)			15 / 17	15 / 16		
Gel Strength (30 Min) (lbf/100ft²)			20	18		
HPHT Filtrate @	250	(°F)	2.0	2.0		
Cake (1/32 in)(API/HPHT)			2.0	2.0		
Diesel	SG=	0.84	75.0	76.0		
Water (% by vol)			15.0	16.0		
Solids (% by vol)			10.0	8.0		
Electrical Stability (V)			944	922		
Pom (Vsa)	cc's Sample	1.0	3.8	3.8		
Vsn (0.282N)	cc's Sample	1.0	5.3	5.3		
Lime Content (lb/bbl)			4.9	4.9		
Clom (mg/L)			53,000	53,000		
CaClom (mg/L)			82,945	82,945		
CaClom (lb/bbl)			29	29		
CaCl (ppm in water phase)			356,071	341,415		
Oil/Water Ratio			83 / 17	83 / 17		
Brine Density (S.G.)			1.34	1.33		
LGS (% by vol)	SG=	2.60	4.3	1.0		
LGS (lb/bbl)			38.903	9.045		
HGS (% by vol)	SG=	4.20	3.4	4.7		
HGS (lb/bbl)			49.516	68.745		
Corrected Solids (% by vol)			8	6		
Flowline Temperature			90.2			

Hydraulics (ft/min)

Annular Interval	Ann. Vel.	Crit. Vel.
Intermediate Casing:DP	95.09	391.59
Intermediate Casing:	95.09	391.59
Intermediate Casing:DC	146.13	413.99
Intermediate Casing:	173.15	422.45

Operating Data	
Avg ROP(ft/hr)	
WOB (Klbs)	
Rotating Weight	
Rotatary Speed	
Rotating Hrs.	
Sliding Hrs.	
Non-Drlg Hrs.	
P/U (lbs)	
S/O (lbs)	
Torque (lbf-ft)	
Angle	
Azimuth	
Surv. Depth(ft)	

Viscometer Rdgs		Shaker	Screens	Solids Control Equipment	Hrs	U/F	O/F
600	42						
300	31	1	70/70/70/70	De-Sander			
200	26	2	70/70/70/70	De-Silter			
100	22	3		Centrifuge			
6	14	4		Centrifuge			
3	13	M/C					

Active Products

Materials	Initial	Rec'd	Used	Balance	Cost (US$)
Bentone 910 (50 lb \ sk)	30	100	0	130	0.00
Bulk Tank (50 ton \ ea)	8	0	2	6	100.00
Bulk Tanks Blower (1 \ ea)	32	0	2	30	70.00
Drum Disposal (1 \ ea)	0	16	16	0	480.00
Engineering (24 hr) (1 \ ea)	0	0	1	0	500.00
Lime (50 lb \ sx)	50	300	0	350	0.00
OBM Lab (1 \ ea)	12	0	1	11	55.00
OptiMul (55 gal \ drum)	3	8	0	11	0.00
OptiPlus (55 gal \ Drum)	11	8	0	19	0.00
Pallets (1 \ ea)	0	12	12	0	216.00
Shrink Wrap (1 \ ea)	0	8	8	0	96.00

Treatment Recommendations

Last 24 hrs: None

Next 24 hrs: Will move mud from active system to Frac Tank. Will add OptiDrill base fluid to cut mud wt to 9.0 ppg. Once mud wt is 9.0 ppg, additional treatment will be determined.

Comments/Remarks

Tested casing. Picked up 8 1/2 in bit and new BHA and tripped in the hole to drill cement and shoe track. Tripped to 8,147 ft and broke circulation. Mud wt is 9.3 ppg due to 50 bbl, 11.7 ppg slugs pumped while running casing. Mud wt will be cut back to 9.0 ppg with OptiDrill 7.8 ppg base fluid.

Daily Losses: 0 bbls
Cumulative Losses: 4,507 bbls

****Trucking charges from DT EVA2534

Daily Tax (US$)	Trucking (US$)	Daily Cost (US$)	3,165.02
61.02	1,587.00	Cumulative Cost (US$)	1,306,563.32

The information in this report is based on our experience and represents our best judgment in the matter and is intended to be helpful, but we cannot assume responsibility for any loss or accident that may result from its use. Furthermore, nothing contained herein shell be construed as a recommendation to use any product in conflict with existing patents covering any materials or uses.

Newpark Drilling Fluids, L.L.C. — **Mud Report**

Jerry Ard	Evanston WY	
Tel:	Tel:	Tel:
Mbl: (985) 688-1226	Tel:	Tel:
Pgr:	Fax:	Fax:

MudPIT™

Date	12/08/2010	MD (ft)	8,315
Report #	78	TVD (ft)	8,315
Spud Date	09/22/2010	Bit MD (ft)	8,315
API Well #	4302330021	Bit TVD (ft)	8,315
Present Activity		Drilling Ahead	

Operator:	**PIONEER NATURAL RESOURCES**	**Contractor:**	**Nabors 169**
Report For:	**Dean Baker/Bill Vigil**	**Report For:**	**Coby Tuller**

Well Name / No.	Field / Block	Sur - Abs or Sec-T-R	County / Parish	State / Province	Country
SOUTH HILLS FEDERAL # 6-1			JUAB COUNTY	UTAH	USA

Drill String	OD(in)	ID(in)	Length(ft)
TRUTRAC	6.875	2.825	74.82
DC	6.5	2.875	280.27
HWDP	5.0	3	738.26
DP	5.0	4.28	7221.65

Casing	OD(in)	ID(in)	Top(ft)	Bottom(ft)
Surface Casing	13.375	12.41	0.0	4345
Intermediate	9.875	8.625	0.0	8247

Pump and Circulating Data (check box for Riser Boost)

Pump #	1 ☐	2 ☐	3 ☐	Stand Pipe (psi)		3,036
Liner (in)	6.0	6.0	6.0	Calc P.Loss (psi)		1,591
Stroke (in)	10.0	10.0	10.0	ECD (ppg)		9.49
stk/min	156	0	0	Pump # 1	Min	Stks
Efficiency (%)	95	95	95	Surf-Bit	11	1,659
(bbl/stk)	0.083	0.083	0.083	Bott's Up	30	4,733
(gpm)	544	0	0	Surf-Surf	41	6,392
Total (gpm)		544		Tot. Circ.	88	13,797

Bit Data		Leak Off Test(ppg)	0
Bit Size (in)	8.62	TFA (in²)	0.72
% Washout	5	Noz-Vel (ft/se)	241.78
Bit Type:	Q507FX	Imp-Frc (psi)	613
Bit #:	24	PSI Loss (psi)	472.16
(1/32 in)	11 11 11 12	HSI (hp/in²)	2.562
12 12 12		Sys HHP (hp)	963.92
		Sys HHP %	15.552

Active Volume (bbl)		Storage Volume(bbl)	
Annulus:	393	FT #1 - 11.1	430
Drill String:	138	FT #2 - 9.6	420
Pits:	615	FT #3 - 7.8	285
Slug Pit:	2	FT #4 - 7.8	480
Total Circulating Volume	1,146	Total Storage Volume	1,615
Volume Below Bit			0

Volume Reconciliation (bbl)			
Starting Volume	2150	Total Additions:	98
Water Additions		Hole Losses	
Oil Additions	48	SCE Losses	
Chemical Additions:		Other Losses	
Barite Additions:		Total Losses	
Whole Mud Add:	50	Mud to Storage:	
Other Additions		Ending Volume:	2248

Fluid Type	Oil-based	Fluid Properties	
Sample From		Pit	Pit
Time Sample Taken		3:30 AM	4:00 PM
Depth @ Time of Sample (ft)		8,315	8,281
Sample Temperature (°F)		123	122
Weight (ppg)		9.0	9.0
Funnel Viscosity (sec/qt)		52	51
Plastic Vis. (cp) @ 150 (°F)		17	15
Yield Point (lbf/100ft²)		10	10
Gel Strength (10s/10m) (lbf/100ft²)		10 11	10 13
Gel Strength (30 Min) (lbf/100ft²)		12	14
HPHT Filtrate @ 250 (°F)		2.0	2.0
Cake (1/32 in)(API/HPHT)		2.0	2.0
Diesel SG= 0.84		75.0	75.0
Water (% by vol)		15.0	15.0
Solids (% by vol)		10.0	10.0
Electrical Stability (V)		961	940
Pom (Vsa) cc's Sample 1.0		3.8	3.8
Vsn (0.282N) cc's Sample 1.0		5.3	5.3
Lime Content (lb/bbl)		4.9	4.9
Clom (mg/L)		53,000	53,000
CaClom (mg/L)		82,945	82,945
CaClom (lb/bbl)		29	29
CaCl (ppm in water phase)		356,071	356,071
Oil/Water Ratio		83 17	83 17
Brine Density (S.G.)		1.34	1.34
LGS (% by vol) SG= 2.60		6.5	6.5
LGS (lb/bbl)		59.35	59.35
HGS (% by vol) SG= 4.20		1.1	1.1
HGS (lb/bbl)		16.488	16.488
Corrected Solids (% by vol)		8	8
Flowline Temperature		163.4	161.4

Hydraulics (ft/min)

Annular Interval	Ann. Vel.	Crit. Vel.
Intermediate Casing:DP	269.72	358.48
Intermediate Casing:	269.72	358.48
Intermediate Casing:DC	414.48	385.37
Intermediate Casing:	491.12	395.64
OH:TRUTRAC ASSY	384.41	384.13

Operating Data

Avg ROP(ft/hr)	2.8
WOB (Klbs)	19
Rotating Weight	
Rotatary Speed	
Rotating Hrs.	
Sliding Hrs.	
Non-Drlg Hrs.	
P/U (lbs)	
S/O (lbs)	
Torque (lbf-ft)	
Angle	
Azimuth	
Surv. Depth(ft)	

Viscometer Rdgs		Solids Control Equipment					
600	44	Shaker	Screens		Hrs	U/F	O/F
300	27	1	180/180/165/165	De-Sander			
200	24	2	180/180/165/165	De-Silter	24.0		
100	18	3		Centrifuge	24.0		
6	10	4		Centrifuge	24.0		
3	9	M/C			24.0		

Active Products

Materials	Initial	Rec'd	Used	Balance	Cost (US$)
Bulk Tank (50 ton \ ea)	6	0	2	4	100.00
Bulk Tanks Blower (1 \ ea)	30	0	2	28	70.00
Engineering (24 hr) (1 \ ea)	0	0	1	0	500.00
OBM Lab (1 \ ea)	11	0	1	10	55.00
OptiMul (55 gal \ drum)	11	0	1	10	680.00
OptiPlus (55 gal \ Drum)	19	0	1	18	810.00
OptiThin (55 gal \ Drum)	7	0	1	6	257.05

Treatment Recommendations

Last 24 hrs: Added OptiMul, OptiPlus, OptiThin and diesel. Added OptiDrill base fluid to keep mud wt at 9.0 ppg.

Next 24 hrs: Will continue with same treatment.

Comments/Remarks

Drilled ahead to 8,315 ft. Screened up shakers - 180/180/165/165

Daily Tax (US$)	Trucking (US$)	Daily Cost (US$)	2,590.37
118.32	0.00	Cumulative Cost (US$)	1,309,153.69

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Newpark Drilling Fluids, L.L.C.

Mud Report

Jerry Ard	Evanston WY	
Tel:	Tel:	Tel:
Mbl: (985) 688-1226	Tel:	Tel:
Pgr:	Fax:	Fax:

MudPIT™

Date	12/09/2010	MD (ft)	8,315
Report #	79	TVD (ft)	8,315
Spud Date	09/22/2010	Bit MD (ft)	1,382
API Well #	4302330021	Bit TVD (ft)	1,382
Present Activity		Drilling Ahead	

Operator:	**PIONEER NATURAL RESOURCES**	**Contractor:**	**Nabors 169**
Report For:	**Dean Baker/Bill Vigil**	**Report For:**	**Coby Tuller**

Well Name / No.	Field / Block	Sur - Abs or Sec-T-R	County / Parish	State / Province	Country
SOUTH HILLS FEDERAL # 6-1			JUAB COUNTY	UTAH	USA

Drill String	OD(in)	ID(in)	Length(ft)
TRUTRAC	6.875	2.825	74.82
DC	6.5	2.875	280.27
HWDP	5.0	3	738.26
DP	5.0	4.28	288.65

Casing	OD(in)	ID(in)	Top(ft)	Bottom(ft)
Surface Casing	13.375	12.41	0.0	4345
Intermediate	9.875	8.625	0.0	8247

Pump and Circulating Data (check box for Riser Boost)

	Pump # 1 ☐	2 ☐	3 ☐			
Liner (in)	6.0	6.0	6.0	Stand Pipe (psi)		0
Stroke (in)	10.0	10.0	10.0	Calc P.Loss (psi)		0
stk/min	0	0	0	ECD (ppg)		9.00
Efficiency (%)	95	95	95	Pump # 1	Min	Stks
(bbl/stk)	0.083	0.083	0.083	Surf-Bit	0	0
(gpm)	0	0	0	Bott's Up	0	0
Total (gpm)		0		Surf-Surf	0	0
				Tot. Circ.	0	0

Bit Data						Leak Off Test(ppg)	0
Bit Size (in)	8.5					TFA (in²)	1.325
% Washout	5					Noz-Vel (ft/se)	
Bit Type:	M4377PDH					Imp-Frc (psi)	
Bit #:	25					PSI Loss (psi)	
(1/32 in)	24	24	24			HSI (hp/in²)	
						Sys HHP (hp)	
						Sys HHP %	

Active Volume (bbl)		Storage Volume(bbl)		Volume Reconciliation (bbl)			
Annulus:	60	FT #1 - 11.1	430	Starting Volume	2248	Total Additions:	28
Drill String:	14	FT #2 - 9.6	420	Water Additions		Hole Losses	
Pits:	632	FT #3 - 7.8	285	Oil Additions	24	SCE Losses	
Slug Pit:	30	FT #4 - 7.8	480	Chemical Additions:		Other Losses	
Total Circulating Volume		Total Storage Volume		Barite Additions:	4	Total Losses	
706		1,615		Whole Mud Add:		Mud to Storage:	
Volume Below Bit		501		Other Additions		Ending Volume:	2276

Fluid Type	Oil-based	Fluid Properties	
Sample From		Pit	Pit
Time Sample Taken		3:30 AM	4:00 PM
Depth @ Time of Sample (ft)		8,338	8,338
Sample Temperature	(°F)	140	161
Weight (ppg)		9.0	9.0
Funnel Viscosity (sec/qt)		53	53
Plastic Vis. (cp) @	150 (°F)	17	17
Yield Point (lbf/100ft²)		10	10
Gel Strength (10s/10m) (lbf/100ft²)		10 11	10 12
Gel Strength (30 Min) (lbf/100ft²)		13	13
HPHT Filtrate @	250 (°F)	2.0	2.0
Cake (1/32 in)(API/HPHT)		2.0	2.0
Diesel	SG= 0.84	75.0	75.0
Water (% by vol)		15.0	15.0
Solids (% by vol)		10.0	10.0
Electrical Stability (V)		1021	1029
Pom (Vsa)	cc's Sample 1.0	3.9	3.9
Vsn (0.282N)	cc's Sample 1.0	5.3	5.3
Lime Content (lb/bbl)		5.1	5.1
Clom (mg/L)		53,000	53,000
CaClom (mg/L)		82,945	82,945
CaClom (lb/bbl)		29	29
CaCl (ppm in water phase)		356,071	356,071
Oil/Water Ratio		83 17	83 17
Brine Density (S.G.)		1.34	1.34
LGS (% by vol)	SG= 2.60	6.5	6.5
LGS (lb/bbl)		59.35	59.35
HGS (% by vol)	SG= 4.20	1.1	1.1
HGS (lb/bbl)		16.488	16.488
Corrected Solids (% by vol)		8	8

Hydraulics (ft/min)

Annular Interval	Ann. Vel.	Crit. Vel.
Intermediate Casing:DP	0.00	358.48
Intermediate Casing:	0.00	358.48
Intermediate Casing:DC	0.00	385.37
Intermediate Casing:	0.00	395.64

Operating Data

Avg ROP(ft/hr)	
WOB (Klbs)	
Rotating Weight	
Rotatary Speed	
Rotating Hrs.	
Sliding Hrs.	
Non-Drlg Hrs.	
P/U (lbs)	
S/O (lbs)	
Torque (lbf-ft)	
Angle	
Azimuth	
Surv. Depth(ft)	

Viscometer Rdgs		Solids Control Equipment					
600	44	Shaker	Screens		Hrs	U/F	O/F
300	27	1	180/180/165/165	De-Sander			
200	24	2	180/180/165/165	De-Silter	24.0		
100	17	3		Centrifuge	24.0		
6	10	4		Centrifuge	24.0		
3	9	M/C			24.0		

Active Products

Materials	Initial	Rec'd	Used	Balance	Cost (US$)
Bentone 910 (50 lb \ sk)	130	0	30	100	2,100.00
Bulk Tank (50 ton \ ea)	4	0	2	2	100.00
Bulk Tanks Blower (1 \ ea)	28	0	2	26	70.00
Engineering (24 hr) (1 \ ea)	0	0	1	0	500.00
GSX-509 (50 lb \ sk)	35	0	6	29	456.00
New Bar (Ton \ bulk)	59.89	23.48	3	80.37	357.00
OBM Lab (1 \ ea)	10	0	1	9	55.00
OptiClean (55 gal \ drum)	10	0	2	8	789.60
OptiMul (55 gal \ drum)	10	0	4	6	2,720.00
OptiPlus (55 gal \ Drum)	18	0	4	14	3,240.00
OptiVis RM (5 gal \ bucket)	76	0	6	70	567.00
Soda Ash (50 # \ sk)	6	0	6	0	172.50
Walnut Shell M (50 lb \ sk)	119	0	9	110	207.00

Treatment Recommendations

Last 24 hrs: Added Bentone, OptiVis, OptiPlus, OptiMul, Lime and diesel.

Next 24 hrs: Will add Lime, OptiMul and OptiPlus.

Comments/Remarks

Drilled ahead to 8,338 ft. ROP was 2 fph. Pumped slug and POOH for bit change. Picked up new bit and TIH to 1,382 ft at report time.

****Trucking charges from DT EVA2542

Daily Tax (US$)	Trucking (US$)	Daily Cost (US$)	13,064.23
650.05	1,080.08	Cumulative Cost (US$)	1,322,217.92

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Newpark Drilling Fluids, L.L.C. — **Mud Report**

Jerry Ard	**Evanston WY**	
Tel:	Tel:	Tel:
Mbl: (985) 688-1226	Tel:	Tel:
Pgr:	Fax:	Fax:

MudPIT™

Date	12/10/2010	MD (ft)	8,389
Report #	80	TVD (ft)	8,389
Spud Date	09/22/2010	Bit MD (ft)	8,389
API Well #	4302330021	Bit TVD (ft)	8,389
Present Activity		Drilling Ahead	

Operator:	**PIONEER NATURAL RESOURCES**	**Contractor:**	**Nabors 169**
Report For:	**Dean Baker/Bill Vigil**	**Report For:**	**Coby Tuller**

Well Name / No.	Field / Block	Sur - Abs or Sec-T-R	County / Parish	State / Province	Country
SOUTH HILLS FEDERAL # 6-1			JUAB COUNTY	UTAH	USA

Drill String	OD(in)	ID(in)	Length(ft)
TRUTRAC	6.875	2.825	74.82
DC	6.5	2.875	280.27
HWDP	5.0	3	738.26
DP	5.0	4.28	7295.65

Casing	OD(in)	ID(in)	Top(ft)	Bottom(ft)
Surface Casing	13.375	12.41	0.0	4345
Intermediate	9.875	8.625	0.0	8247

Pump and Circulating Data (check box for Riser Boost)

Pump #	1 ☐	2 ☐	3 ☐	Stand Pipe (psi)		3,204
Liner (in)	6.0	6.0	6.0	Calc P.Loss (psi)		1,585
Stroke (in)	10.0	10.0	10.0	ECD (ppg)		9.50
stk/min	182	0	0	Pump # 1	Min	Stks
Efficiency (%)	95	95	95	Surf-Bit	9	1,675
(bbl/stk)	0.083	0.083	0.083	Bott's Up	26	4,779
(gpm)	635	0	0	Surf-Surf	35	6,454
Total (gpm)		635		Tot. Circ.	77	14,039

Bit Data

Bit Size (in)	8.5	TFA (in²)	1.325	Leak Off Test(ppg)	0
% Washout	5	Noz-Vel (ft/se)	153.28		
Bit Type:	M4377PDH	Imp-Frc (psi)	453		
Bit #:	25	PSI Loss (psi)	189.77		
(1/32 in)	24 24 24	HSI (hp/in²)	1.236		
		Sys HHP (hp)	1186.8		
		Sys HHP %	5.923		

Active Volume (bbl)		Storage Volume(bbl)	
Annulus:	397	FT #1 - 11.1	430
Drill String:	139	FT #2 - 9.6	420
Pits:	630	FT #3 - 7.8	285
Slug Pit:	12	FT #4 - 7.8	480
Total Circulating Volume	1,166	Total Storage Volume	1,615
Volume Below Bit			0

Volume Reconciliation (bbl)

Starting Volume	2276	Total Additions:	36
Water Additions		Hole Losses	
Oil Additions	36	SCE Losses	13
Chemical Additions:		Other Losses	
Barite Additions:		Total Losses	13
Whole Mud Add:		Mud to Storage:	
Other Additions		Ending Volume:	2299

Fluid Type	Oil-based	Fluid Properties	
Sample From		Pit	Pit
Time Sample Taken		3:30 AM	4:00 PM
Depth @ Time of Sample (ft)		8,389	8,366
Sample Temperature (°F)		160	161
Weight (ppg)		9.0	9.0
Funnel Viscosity (sec/qt)		53	53
Plastic Vis. (cp) @ 150 (°F)		17	17
Yield Point (lbf/100ft²)		10	10
Gel Strength (10s/10m) (lbf/100ft²)		10 11	10 12
Gel Strength (30 Min) (lbf/100ft²)		12	13
HPHT Filtrate @ 250 (°F)		2.0	2.0
Cake (1/32 in)(API/HPHT)		2.0	2.0
Diesel SG= 0.84		75.0	75.0
Water (% by vol)		15.0	15.0
Solids (% by vol)		10.0	10.0
Electrical Stability (V)		1030	1029
Pom (Vsa) cc's Sample 1.0		4.0	4.0
Vsn (0.282N) cc's Sample 1.0		5.3	5.3
Lime Content (lb/bbl)		5.2	5.2
Clom (mg/L)		53,000	53,000
CaClom (mg/L)		82,945	82,945
CaClom (lb/bbl)		29	29
CaCl (ppm in water phase)		356,071	356,071
Oil/Water Ratio		83 17	83 17
Brine Density (S.G.)		1.34	1.34
LGS (% by vol) SG= 2.60		6.5	6.5
LGS (lb/bbl)		59.35	59.35
HGS (% by vol) SG= 4.20		1.1	1.1
HGS (lb/bbl)		16.488	16.488
Corrected Solids (% by vol)		8	8
Flowline Temperature		173.3	173.1

Hydraulics (ft/min)

Annular Interval	Ann. Vel.	Crit. Vel.
Intermediate Casing:DP	314.68	358.48
Intermediate Casing:	314.68	358.48
Intermediate Casing:DC	483.57	385.37
OH:DC	415.50	378.54
OH:TRUTRAC ASSY	479.84	387.25

Operating Data

Avg ROP(ft/hr)	
WOB (Klbs)	
Rotating Weight	
Rotatary Speed	
Rotating Hrs.	
Sliding Hrs.	
Non-Drlg Hrs.	
P/U (lbs)	
S/O (lbs)	
Torque (lbf-ft)	
Angle	
Azimuth	
Surv. Depth(ft)	

Viscometer Rdgs

600	44
300	27
200	23
100	19
6	10
3	9

Solids Control Equipment

Shaker	Screens		Hrs	U/F	O/F
1	165/165/120/120	De-Sander			
2	165/165/120/120	De-Silter	24.0		
3		Centrifuge	24.0		
4		Centrifuge	24.0		
M/C			24.0		

Active Products

Materials	Initial	Rec'd	Used	Balance	Cost (US$)
Bentone 910 (50 lb \ sk)	100	0	6	94	420.00
Bulk Tank (50 ton \ ea)	2	0	2	0	100.00
Bulk Tanks Blower (1 \ ea)	26	0	2	24	70.00
Engineering (24 hr) (1 \ ea)	0	0	1	0	500.00
Fiber Fluid Cor (25 lb \ sk)	81	400	0	481	0.00
Lime (50 lb \ sx)	350	0	10	340	70.50
OBM Lab (1 \ ea)	9	0	1	8	55.00
OptiClean (55 gal \ drum)	8	0	1	7	394.80
OptiDrill OBM (1 bbl \ bulk)	2884	0	13	2871	1,705.73
OptiMul (55 gal \ drum)	6	0	2	4	1,360.00
OptiPlus (55 gal \ Drum)	14	0	2	12	1,620.00
OptiVis RM (5 gal \ bucket)	70	0	3	67	283.50
Pallets (1 \ ea)	0	8	8	0	144.00
Shrink Wrap (1 \ ea)	0	8	8	0	96.00

Treatment Recommendations

Last 24 hrs: Added Bentone, OptiMul, OptiPlus, Lime, OptiVis and diesel.

Next 24 hrs: Will continue with same treatment.

Comments/Remarks

Drilled ahead to 8,389 ft.

****Trucking charges from DT 58331

Daily Losses: 13 bbls
Cumulative Losses: 4,520 bbls

Daily Tax (US$)	Trucking (US$)	Daily Cost (US$)	8,281.32
379.17	1,082.62	Cumulative Cost (US$)	1,330,499.24

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Newpark Drilling Fluids, L.L.C.

Mud Report

Jerry Ard	Evanston WY	
Tel:	Tel:	Tel:
Mbl: (985) 688-1226	Tel:	Tel:
Pgr:	Fax:	Fax:

MudPIT™

Date	12/13/2010	MD (ft)	8,606
Report #	83	TVD (ft)	8,606
Spud Date	09/22/2010	Bit MD (ft)	8,606
API Well #	4302330021	Bit TVD (ft)	8,606
Present Activity		Drilling Ahead	

Operator:	**PIONEER NATURAL RESOURCES**	**Contractor:**	**Nabors 169**
Report For:	**Dean Baker/Bill Vigil**	**Report For:**	**Coby Tuller**

Well Name / No.	Field / Block	Sur - Abs or Sec-T-R	County / Parish	State / Province	Country
SOUTH HILLS FEDERAL # 6-1			JUAB COUNTY	UTAH	USA

Drill String	OD(in)	ID(in)	Length(ft)
RR ASSY	6.625	2.5	22.19
DC	6.5	2.875	286.78
HWDP	5.0	3	788.89
DP	5.0	4.28	7508.14

Casing	OD(in)	ID(in)	Top(ft)	Bottom(ft)
Surface Casing	13.375	12.41	0.0	4345
Intermediate	9.875	8.625	0.0	8247

Pump and Circulating Data (check box for Riser Boost)

	1 ☐	2 ☐	3 ☐			
Pump #				Stand Pipe (psi)		2,629
Liner (in)	6.0	6.0	6.0	Calc P.Loss (psi)		1,805
Stroke (in)	10.0	10.0	10.0	ECD (ppg)		9.50
stk/min	190	0	0	Pump # 1	Min	Stks
Efficiency (%)	95	95	95	Surf-Bit	9	1,721
(bbl/stk)	0.083	0.083	0.083	Bott's Up	26	4,931
(gpm)	663	0	0	Surf-Surf	35	6,652
Total (gpm)		663		Tot. Circ.	73	13,960

Bit Data					Leak Off Test(ppg)	0
Bit Size (in)	8.5				TFA (in²)	1.114
% Washout	5				Noz-Vel (ft/se)	190.43
Bit Type:	MSi616				Imp-Frc (psi)	588
Bit #:	27				PSI Loss (psi)	292.91
(1/32 in)	22	22	22		HSI (hp/in²)	1.991
					Sys HHP (hp)	1016.6
					Sys HHP %	11.142

Active Volume (bbl)	
Annulus:	410
Drill String:	143
Pits:	607
Slug Pit:	21
Total Circulating Volume	1,159
Volume Below Bit	0

Storage Volume(bbl)	
FT #1 - 11.1	430
FT #2 - 9.6	420
FT #3 - 7.8	285
FT #4 - 7.8	480
Total Storage Volume	1,615

Volume Reconciliation (bbl)	
Starting Volume	2315
Water Additions	50
Oil Additions	24
Chemical Additions:	
Barite Additions:	
Whole Mud Add:	50
Other Additions	

Total Additions:	124
Hole Losses	
SCE Losses	
Other Losses	
Total Losses	
Mud to Storage:	
Ending Volume:	2439

Fluid Type	Oil-based	Fluid Properties	
Sample From		Pit	Pit
Time Sample Taken		3:30 AM	4:00 PM
Depth @ Time of Sample (ft)		8,606	8,478
Sample Temperature	(°F)	160	160
Weight (ppg)		9.0	9.0
Funnel Viscosity (sec/qt)		53	59
Plastic Vis. (cp) @	150 (°F)	17	18
Yield Point (lbf/100ft²)		10	13
Gel Strength (10s/10m) (lbf/100ft²)		10 | 11	15 | 18
Gel Strength (30 Min) (lbf/100ft²)		12	21
HPHT Filtrate @	250 (°F)	2.0	2.0
Cake (1/32 in)(API/HPHT)		2.0	2.0
Diesel	SG= 0.84	73.0	76.0
Water (% by vol)		17.0	14.0
Solids (% by vol)		10.0	10.0
Electrical Stability (V)		1038	1024
Pom (Vsa)	cc's Sample 1.0	4.1	4.1
Vsn (0.282N)	cc's Sample 1.0	5.3	5.1
Lime Content (lb/bbl)		5.3	5.3
Clom (mg/L)		53,000	51,000
CaClom (mg/L)		82,945	79,815
CaClom (lb/bbl)		29	28
CaCl (ppm in water phase)		327,917	363,101
Oil/Water Ratio		81 | 19	84 | 16
Brine Density (S.G.)		1.31	1.35
LGS (% by vol)	SG= 2.60	6.9	6.4
LGS (lb/bbl)		62.416	58.473
HGS (% by vol)	SG= 4.20	0.8	1.3
HGS (lb/bbl)		12.29	19.025
Corrected Solids (% by vol)		8	8
Flowline Temperature		169.5	170.1

Hydraulics (ft/min)			Operating Data	
Annular Interval	Ann. Vel.	Crit. Vel.	Avg ROP(ft/hr)	8.8
Intermediate Casing:DP	328.51	358.48	WOB (Klbs)	21
Intermediate Casing:	328.51	358.48	Rotating Weight	
OH:HWDP	296.86	354.64	Rotatary Speed	101
OH:DC	433.76	378.54	Rotating Hrs.	
OH:RR ASSY	453.66	381.26	Sliding Hrs.	
			Non-Drlg Hrs.	
			P/U (lbs)	
			S/O (lbs)	
			Torque (lbf-ft)	8619
			Angle	
			Azimuth	
			Surv. Depth(ft)	

Viscometer Rdgs		Solids Control Equipment					
600	44	Shaker	Screens		Hrs	U/F	O/F
300	27	1	165/165/120/120	De-Sander			
200	24	2	165/165/120/120	De-Silter	24.0		
100	18	3		Centrifuge	24.0		
6	10	4		Centrifuge	24.0		
3	9	M/C			24.0		

Active Products

Materials	Initial	Rec'd	Used	Balance	Cost (US$)
Bulk Tank (50 ton \ ea)	-4	56	2	50	100.00
Bulk Tanks Blower (1 \ ea)	20	32	2	50	70.00
Calcium Chloride Powder (50 lb	112	0	12	100	223.20
Drum Disposal (1 \ ea)	0	48	48	0	1,440.00
Engineering (24 hr) (1 \ ea)	0	0	1	0	500.00
Lime (50 lb \ sx)	326	0	12	314	84.60
OBM Lab (1 \ ea)	6	45	1	50	55.00
OptiClean (55 gal \ drum)	7	12	0	19	0.00
OptiMul (55 gal \ drum)	2	12	2	12	1,360.00
OptiPlus (55 gal \ Drum)	10	12	2	20	1,620.00
OptiThin (55 gal \ Drum)	3	12	4	11	1,028.20
Pallets (1 \ ea)	0	12	12	0	216.00

Treatment Recommendations

Last 24 hrs: Added Lime, GSX-509, OptiMul, OptiPlus, OptiThin and diesel. Added water and Calcium Chloride to pick up water in the O/W ratio. Added OptiDrill Base to maintain mud wt at 9.0 ppg.

Next 24 hrs: Will add Lime, OptiMul and diesel.

Comments/Remarks

Drilled ahead to 8,606 ft at report time.

Daily Tax (US$)	Trucking (US$)	Daily Cost (US$)	8,586.82
371.82	1,518.00	Cumulative Cost (US$)	1,347,065.15

The information in this report is based on our experience and represents our best judgment in the matter and is intended to be helpful, but we cannot assume responsibility for any loss or accident that may result from its use. Furthermore, nothing contained herein shell be construed as a recommendation to use any product in conflict with existing patents covering any materials or uses.

Newpark Drilling Fluids, L.L.C. — **Mud Report**

Jerry Ard	Evanston WY	
Tel:	Tel:	Tel:
Mbl: (985) 688-1226	Tel:	Tel:
Pgr:	Fax:	Fax:

MudPIT™

Date	12/14/2010	MD (ft)	8,698
Report #	84	TVD (ft)	8,698
Spud Date	09/22/2010	Bit MD (ft)	1
API Well #	4302330021	Bit TVD (ft)	1
Present Activity		Preparing To TIH	

Operator:	**PIONEER NATURAL RESOURCES**	**Contractor:**	**Nabors 169**
Report For:	**Dean Baker/Bill Vigil**	**Report For:**	**Coby Tuller**

Well Name / No.	Field / Block	Sur - Abs or Sec-T-R	County / Parish	State / Province	Country
SOUTH HILLS FEDERAL # 6-1			JUAB COUNTY	UTAH	USA

Drill String	OD(in)	ID(in)	Length(ft)
DP	5.0	4.28	1

Casing	OD(in)	ID(in)	Top(ft)	Bottom(ft)
Surface Casing	13.375	12.41	0.0	4345
Intermediate	9.875	8.625	0.0	8247

Pump and Circulating Data (check box for Riser Boost)

	Pump 1 ☐	Pump 2 ☐	Pump 3 ☐			
Pump #				Stand Pipe (psi)		0
Liner (in)	6.0	6.0	6.0	Calc P.Loss (psi)		0
Stroke (in)	10.0	10.0	10.0	ECD (ppg)		9.00
stk/min	0	0	0	Pump # 1	Min	Stks
Efficiency (%)	95	95	95	Surf-Bit	0	0
(bbl/stk)	0.083	0.083	0.083	Bott's Up	0	0
(gpm)	0	0	0	Surf-Surf	0	0
Total (gpm)		0		Tot. Circ.	0	0

Bit Data		Leak Off Test(ppg)	0
Bit Size (in)	8.5	TFA (in²)	
% Washout	5	Noz-Vel (ft/se)	
Bit Type:		Imp-Frc (psi)	
Bit #:	0	PSI Loss (psi)	
(1/32 in)		HSI (hp/in²)	
		Sys HHP (hp)	
		Sys HHP %	

Active Volume (bbl)	
Annulus:	0
Drill String:	0
Pits:	510
Slug Pit:	16
Total Circulating Volume	510
Volume Below Bit	631

Storage Volume(bbl)	
FT #1 - 11.1	215
FT #2 - 9.6	455
FT #3 - 7.8	285
FT #4 - 7.8	480
Total Storage Volume	1,435

Volume Reconciliation (bbl)	
Starting Volume	2439
Water Additions	50
Oil Additions	40
Chemical Additions:	
Barite Additions:	
Whole Mud Add:	
Other Additions	
Total Additions:	90
Hole Losses	
SCE Losses	
Other Losses	
Total Losses	
Mud to Storage:	
Ending Volume:	2529

Fluid Type	Oil-based	Fluid Properties	
Sample From		Pit	Pit
Time Sample Taken		3:30 AM	4:00 PM
Depth @ Time of Sample (ft)		8,698	8,690
Sample Temperature (°F)		142	161
Weight (ppg)		9.0	9.0
Funnel Viscosity (sec/qt)		54	53
Plastic Vis. (cp) @ 150 (°F)		17	17
Yield Point (lbf/100ft²)		10	10
Gel Strength (10s/10m) (lbf/100ft²)		11 / 12	10 / 11
Gel Strength (30 Min) (lbf/100ft²)		14	12
HPHT Filtrate @ 250 (°F)		2.0	2.0
Cake (1/32 in)(API/HPHT)		2.0	2.0
Diesel SG= 0.84		73.0	73.0
Water (% by vol)		17.0	17.0
Solids (% by vol)		10.0	10.0
Electrical Stability (V)		1111	1096
Pom (Vsa) cc's Sample 1.0		4.2	4.2
Vsn (0.282N) cc's Sample 1.0		5.1	5.1
Lime Content (lb/bbl)		5.4	5.4
Clom (mg/L)		51,000	51,000
CaClom (mg/L)		79,815	79,815
CaClom (lb/bbl)		28	28
CaCl (ppm in water phase)		319,496	319,496
Oil/Water Ratio		81 / 19	81 / 19
Brine Density (S.G.)		1.3	1.3
LGS (% by vol) SG= 2.60		6.9	6.9
LGS (lb/bbl)		63.059	63.059
HGS (% by vol) SG= 4.20		0.9	0.9
HGS (lb/bbl)		12.743	12.743
Corrected Solids (% by vol)		8	8
Flowline Temperature			171.1

Hydraulics (ft/min)			Operating Data	
Annular Interval	Ann. Vel.	Crit. Vel.	Avg ROP(ft/hr)	
Intermediate Casing:DP	0.00	358.48	WOB (Klbs)	
			Rotating Weight	
			Rotatary Speed	
			Rotating Hrs.	
			Sliding Hrs.	
			Non-Drlg Hrs.	
			P/U (lbs)	
			S/O (lbs)	
			Torque (lbf-ft)	
			Angle	
			Azimuth	
			Surv. Depth(ft)	

Viscometer Rdgs		Solids Control Equipment					
600	44	Shaker	Screens		Hrs	U/F	O/F
300	27	1	165/165/120/120	De-Sander			
200	23	2	165/165/120/120	De-Silter	24.0		
100	18	3		Centrifuge	24.0		
6	10	4		Centrifuge	24.0		
3	9	M/C			24.0		

Active Products

Materials	Initial	Rec'd	Used	Balance	Cost (US$)
Bulk Tank (50 ton \ ea)	50	0	2	48	100.00
Bulk Tanks Blower (1 \ ea)	50	0	2	48	70.00
Engineering (24 hr) (1 \ ea)	0	0	1	0	500.00
Lime (50 lb \ sx)	314	0	24	290	169.20
OBM Lab (1 \ ea)	50	0	1	49	55.00
OptiMul (55 gal \ drum)	12	0	4	8	2,720.00
OptiPlus (55 gal \ Drum)	20	0	1	19	810.00

Treatment Recommendations

Last 24 hrs: Added Lime, OptiMul, OptiPlus, water and diesel.

Next 24 hrs: Will continue with same treatment.

Comments/Remarks

Drilled ahead to 8,698 ft. Circulated B/U, pumped a slug and POOH for bit change.

****Trucking charges from DT P59624

Daily Tax (US$)	Trucking (US$)	Daily Cost (US$)	12,194.65
235.45	7,535.00	Cumulative Cost (US$)	1,359,259.81

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Newpark Drilling Fluids, L.L.C. — **Mud Report**

Jerry Ard	**Evanston WY**	
Tel:	Tel:	Tel:
Mbl: (985) 688-1226	Tel:	Tel:
Pgr:	Fax:	Fax:

MudPIT™

Date	12/15/2010	MD (ft)	8,757
Report #	85	TVD (ft)	8,757
Spud Date	09/22/2010	Bit MD (ft)	8,757
API Well #	4302330021	Bit TVD (ft)	8,757
Present Activity		Drilling Ahead	

Operator:	**PIONEER NATURAL RESOURCES**	**Contractor:**	**Nabors 169**
Report For:	**Dean Baker/Derrick Berry**	**Report For:**	**Coby Tuller**

Well Name / No.	Field / Block	Sur - Abs or Sec-T-R	County / Parish	State / Province	Country
SOUTH HILLS FEDERAL # 6-1			JUAB COUNTY	UTAH	USA

Drill String	OD(in)	ID(in)	Length(ft)
RR ASSY	6.625	2.375	22.17
DC	6.5	2.875	286.22
HWDP	5.0	3	768.89
DP	5.0	4.28	7679.72

Casing	OD(in)	ID(in)	Top(ft)	Bottom(ft)
Surface Casing	13.375	12.41	0.0	4345
Intermediate	9.875	8.625	0.0	8247

Pump and Circulating Data (check box for Riser Boost)

Pump #	1 ☐	2 ☐	3 ☐	Stand Pipe (psi)		2,560
Liner (in)	6.0	6.0	6.0	Calc P.Loss (psi)		1,640
Stroke (in)	10.0	10.0	10.0	ECD (ppg)		9.50
stk/min	190	0	0	Pump # 1	Min	Stks
Efficiency (%)	95	95	95	Surf-Bit	9	1,755
(bbl/stk)	0.083	0.083	0.083	Bott's Up	26	5,027
(gpm)	663	0	0	Surf-Surf	36	6,783
Total (gpm)		663		Tot. Circ.	73	13,802

Bit Data

Bit Size (in)	8.5						
% Washout	5						
Bit Type:	M4378PDH						
Bit #:	28						
(1/32 in)	28	28	28				

Leak Off Test(ppg)	0
TFA (in²)	1.804
Noz-Vel (ft/se)	117.56
Imp-Frc (psi)	363
PSI Loss (psi)	111.63
HSI (hp/in²)	0.759
Sys HHP (hp)	989.93
Sys HHP %	4.361

Active Volume (bbl)		Storage Volume(bbl)	
Annulus:	418	FT #1 - 11.1	31
Drill String:	146	FT #2 - 9.6	455
Pits:	583	FT #3 - 7.8	285
Slug Pit:	12	FT #4 - 7.8	480
Total Circulating Volume	1,146	Total Storage Volume	1,251
Volume Below Bit			0

Volume Reconciliation (bbl)			
Starting Volume	2683	Total Additions:	30
Water Additions	24	Hole Losses	
Oil Additions	6	SCE Losses	31
Chemical Additions:		Other Losses	
Barite Additions:		Total Losses	31
Whole Mud Add:		Mud to Storage:	
Other Additions		Ending Volume:	2682

Fluid Type	Oil-based	Fluid Properties			
Sample From		Pit	Pit		
Time Sample Taken		3:30 AM	4:00 PM		
Depth @ Time of Sample (ft)		8,757	8,712		
Sample Temperature (°F)		152	163		
Weight (ppg)		9.0	9.0		
Funnel Viscosity (sec/qt)		53	53		
Plastic Vis. (cp) @ 150 (°F)		17	17		
Yield Point (lbf/100ft²)		10	10		
Gel Strength (10s/10m) (lbf/100ft²)		10 / 11	10 / 11		
Gel Strength (30 Min) (lbf/100ft²)		12	12		
HPHT Filtrate @ 250 (°F)		2.0	2.0		
Cake (1/32 in)(API/HPHT)		2.0	2.0		
Diesel SG= 0.84		73.0	73.0		
Water (% by vol)		17.0	17.0		
Solids (% by vol)		10.0	10.0		
Electrical Stability (V)		1138	1140		
Pom (Vsa) cc's Sample 1.0		4.2	4.2		
Vsn (0.282N) cc's Sample 1.0		5.1	5.1		
Lime Content (lb/bbl)		5.4	5.4		
Clom (mg/L)		51,000	51,000		
CaClom (mg/L)		79,815	79,815		
CaClom (lb/bbl)		28	28		
CaCl (ppm in water phase)		319,496	319,496		
Oil/Water Ratio		81 / 19	81 / 19		
Brine Density (S.G.)		1.3	1.3		
LGS (% by vol) SG= 2.60		6.9	6.9		
LGS (lb/bbl)		63.059	63.059		
HGS (% by vol) SG= 4.20		0.9	0.9		
HGS (lb/bbl)		12.743	12.743		
Corrected Solids (% by vol)		8	8		
Flowline Temperature		168.8	170.2		

Hydraulics (ft/min)

Annular Interval	Ann. Vel.	Crit. Vel.
Intermediate Casing:DP	328.51	358.48
Intermediate Casing:	328.51	358.48
OH:HWDP	296.86	354.64
OH:DC	433.76	378.54
OH:RR ASSY	453.66	381.26

Operating Data

Avg ROP(ft/hr)	2.4
WOB (Klbs)	43
Rotating Weight	
Rotatary Speed	93
Rotating Hrs.	
Sliding Hrs.	
Non-Drlg Hrs.	
P/U (lbs)	
S/O (lbs)	
Torque (lbf-ft)	3978
Angle	
Azimuth	
Surv. Depth(ft)	

Viscometer Rdgs	
600	44
300	27
200	23
100	18
6	10
3	9

Solids Control Equipment

Shaker	Screens		Hrs	U/F	O/F
1	165/165/120/120	De-Sander			
2	165/165/120/120	De-Silter	24.0		
3		Centrifuge	24.0		
4		Centrifuge	24.0		
M/C			24.0		

Active Products

Materials	Initial	Rec'd	Used	Balance	Cost (US$)
Bulk Tank (50 ton \ ea)	48	0	2	46	100.00
Bulk Tanks Blower (1 \ ea)	48	0	2	46	70.00
Engineering (24 hr) (1 \ ea)	0	0	1	0	500.00
Lime (50 lb \ sx)	290	0	12	278	84.60
OBM Lab (1 \ ea)	49	0	1	48	55.00
OptiDrill OBM (1 bbl \ bulk)	2871	0	55	2816	7,216.55
OptiPlus (55 gal \ Drum)	19	0	4	15	3,240.00

Treatment Recommendations

Last 24 hrs: Added Lime, OptiPlus, water and diesel.

Next 24 hrs: Will continue with same treatment.

Comments/Remarks

Drilled ahead to 8,757 ft at report time.

****Losses shown today actually reflect losses for today and yesterday

Daily Tax (US$)	Trucking (US$)	Daily Cost (US$)	11,912.12
645.97	0.00	Cumulative Cost (US$)	1,372,187.35

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Newpark Drilling Fluids, L.L.C. — **Mud Report**

Jerry Ard	Evanston WY	
Tel:	Tel:	Tel:
Mbl: (985) 688-1226	Tel:	Tel:
Pgr:	Fax:	Fax:

MudPIT™

Date	12/16/2010	MD (ft)	8,856
Report #	86	TVD (ft)	8,856
Spud Date	09/22/2010	Bit MD (ft)	8,856
API Well #	4302330021	Bit TVD (ft)	8,856
Present Activity		Drilling Ahead	

Operator:	**PIONEER NATURAL RESOURCES**	**Contractor:**	**Nabors 169**
Report For:	**Dean Baker/Derrick Berry**	**Report For:**	**Coby Tuller**

Well Name / No.	Field / Block	Sur - Abs or Sec-T-R	County / Parish	State / Province	Country
SOUTH HILLS FEDERAL # 6-1			JUAB COUNTY	UTAH	USA

Drill String	OD(in)	ID(in)	Length(ft)
RR ASSY	6.625	2.375	22.17
DC	6.5	2.875	286.22
HWDP	5.0	3	768.89
DP	5.0	4.28	7778.72

Casing	OD(in)	ID(in)	Top(ft)	Bottom(ft)
Surface Casing	13.375	12.41	0.0	4345
Intermediate	9.875	8.625	0.0	8247

Pump and Circulating Data (check box for Riser Boost)

Pump #	1 ☐	2 ☐	3 ☐	Stand Pipe (psi)		2,595
Liner (in)	6.0	6.0	6.0	Calc P.Loss (psi)		1,606
Stroke (in)	10.0	10.0	10.0	ECD (ppg)		9.52
stk/min	190	0	0	Pump # 1	Min	Stks
Efficiency (%)	95	95	95	Surf-Bit	9	1,777
(bbl/stk)	0.083	0.083	0.083	Bott's Up	27	5,091
(gpm)	663	0	0	Surf-Surf	36	6,867
Total (gpm)		663		Tot. Circ.	75	14,272

Bit Data

Bit Size (in)	8.5	TFA (in²)	1.804	Leak Off Test(ppg)	0	
% Washout	5	Noz-Vel (ft/se)	117.56			
Bit Type:	M4378PDH	Imp-Frc (psi)	363			
Bit #:	28	PSI Loss (psi)	111.63			
(1/32 in)	28 28 28	HSI (hp/in²)	0.759			
		Sys HHP (hp)	1003.4			
		Sys HHP %	4.302			

Active Volume (bbl)		Storage Volume(bbl)		Volume Reconciliation (bbl)			
Annulus:	423	FT #1 - 11.1	31	Starting Volume	2682	Total Additions:	12
Drill String:	148	FT #2 - 9.6	455	Water Additions		Hole Losses	
Pits:	615	FT #3 - 7.8	285	Oil Additions	12	SCE Losses	
Slug Pit:	10	FT #4 - 7.8	480	Chemical Additions:		Other Losses	
Total Circulating Volume	1,185	Total Storage Volume	1,251	Barite Additions:		Total Losses	
				Whole Mud Add:		Mud to Storage:	
				Other Additions		Ending Volume:	2694

Fluid Type	Oil-based	Fluid Properties			
Sample From		Pit	Pit		
Time Sample Taken		3:30 AM	4:00 PM		
Depth @ Time of Sample (ft)		8,856	8,809		
Sample Temperature (°F)		161	163		
Weight (ppg)		9.0	9.0		
Funnel Viscosity (sec/qt)		53	53		
Plastic Vis. (cp) @ 150 (°F)		16	17		
Yield Point (lbf/100ft²)		12	10		
Gel Strength (10s/10m) (lbf/100ft²)		11 13	11 12		
Gel Strength (30 Min) (lbf/100ft²)		14	13		
HPHT Filtrate @ 250 (°F)		2.0	2.0		
Cake (1/32 in)(API/HPHT)		2.0	2.0		
Diesel SG= 0.84		73.0	73.0		
Water (% by vol)		17.0	17.0		
Solids (% by vol)		10.0	10.0		
Electrical Stability (V)		1151	1164		
Pom (Vsa) cc's Sample 1.0		4.2	4.2		
Vsn (0.282N) cc's Sample 1.0		5.2	5.2		
Lime Content (lb/bbl)		5.4	5.4		
Clom (mg/L)		52,000	52,000		
CaClom (mg/L)		81,380	81,380		
CaClom (lb/bbl)		28	28		
CaCl (ppm in water phase)		323,733	323,733		
Oil/Water Ratio		81 19	81 19		
Brine Density (S.G.)		1.31	1.31		
LGS (% by vol) SG= 2.60		6.9	6.9		
LGS (lb/bbl)		62.74	62.74		
HGS (% by vol) SG= 4.20		0.9	0.9		
HGS (lb/bbl)		12.514	12.514		
Corrected Solids (% by vol)		8	8		
Flowline Temperature		173.4	173.9		

Hydraulics (ft/min)

Annular Interval	Ann. Vel.	Crit. Vel.
Intermediate Casing:DP	328.51	369.42
Intermediate Casing:	328.51	369.42
OH:HWDP	296.86	365.74
OH:DC	433.76	388.60
OH:RR ASSY	453.66	391.19

Operating Data

Avg ROP(ft/hr)	4.1
WOB (Klbs)	38
Rotating Weight	
Rotatary Speed	80
Rotating Hrs.	
Sliding Hrs.	
Non-Drlg Hrs.	
P/U (lbs)	
S/O (lbs)	
Torque (lbf-ft)	4232
Angle	
Azimuth	
Surv. Depth(ft)	

Viscometer Rdgs		Solids Control Equipment					
600	44	Shaker	Screens		Hrs	U/F	O/F
300	28	1	165/165/120/120	De-Sander			
200	24	2	165/165/120/120	De-Silter	24.0		
100	19	3		Centrifuge	24.0		
6	11	4		Centrifuge	24.0		
3	10	M/C			24.0		

Active Products

Materials	Initial	Rec'd	Used	Balance	Cost (US$)
Bulk Tank (50 ton \ ea)	46	0	2	44	100.00
Bulk Tanks Blower (1 \ ea)	46	0	2	44	70.00
Engineering (24 hr) (1 \ ea)	0	0	1	0	500.00
Lime (50 lb \ sx)	278	0	24	254	169.20
OBM Lab (1 \ ea)	48	0	1	47	55.00
OptiClean (55 gal \ drum)	19	0	2	17	789.60
OptiPlus (55 gal \ Drum)	15	0	3	12	2,430.00
OptiThin (55 gal \ Drum)	11	0	2	9	514.10
OptiVis RM (5 gal \ bucket)	67	0	7	60	661.50

Treatment Recommendations

Last 24 hrs: Added Lime, OptiPlus, OptiVis, water and diesel.

Next 24 hrs: Will continue with same treatment.

Comments/Remarks

Drilled ahead to 8,856 ft at report time.

Daily Tax (US$)	Trucking (US$)	Daily Cost (US$)	5,576.76
287.36	0.00	Cumulative Cost (US$)	1,377,764.12

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Newpark Drilling Fluids, L.L.C. — **Mud Report**

Jerry Ard	Evanston WY	
Tel:	Tel:	Tel:
Mbl: (985) 688-1226	Tel:	Tel:
Pgr:	Fax:	Fax:

MudPIT™

Date	12/17/2010	MD (ft)	8,887
Report #	87	TVD (ft)	8,887
Spud Date	09/22/2010	Bit MD (ft)	1
API Well #	4302330021	Bit TVD (ft)	1
Present Activity		Preparing To TIH	

Operator:	**PIONEER NATURAL RESOURCES**	**Contractor:**	**Nabors 169**
Report For:	**Dean Baker/Derrick Berry**	**Report For:**	**Coby Tuller**

Well Name / No.	Field / Block	Sur - Abs or Sec-T-R	County / Parish	State / Province	Country
SOUTH HILLS FEDERAL # 6-1			JUAB COUNTY	UTAH	USA

Drill String	OD(in)	ID(in)	Length(ft)
DP	5.0	4.28	1

Casing	OD(in)	ID(in)	Top(ft)	Bottom(ft)
Surface Casing	13.375	12.41	0.0	4345
Intermediate	9.875	8.625	0.0	8247

Pump and Circulating Data (check box for Riser Boost)

	Pump # 1 ☐	2 ☐	3 ☐	Stand Pipe (psi)		0
Liner (in)	6.0	6.0	6.0	Calc P.Loss (psi)		0
Stroke (in)	10.0	10.0	10.0	ECD (ppg)		9.00
stk/min	0	0	0	Pump # 1	Min	Stks
Efficiency (%)	95	95	95	Surf-Bit	0	0
(bbl/stk)	0.083	0.083	0.083	Bott's Up	0	0
(gpm)	0	0	0	Surf-Surf	0	0
Total (gpm)		0		Tot. Circ.	0	0

Bit Data		Leak Off Test(ppg)	0
Bit Size (in)	8.5	TFA (in²)	
% Washout	5	Noz-Vel (ft/se)	
Bit Type:		Imp-Frc (psi)	
Bit #:		PSI Loss (psi)	
(1/32 in)		HSI (hp/in²)	
		Sys HHP (hp)	
		Sys HHP %	

Active Volume (bbl)		Storage Volume(bbl)		Volume Reconciliation (bbl)			
Annulus:	0	FT #1 - 11.1	31	Starting Volume	2694	Total Additions:	42
Drill String:	0	FT #2 - 9.6	455	Water Additions	36	Hole Losses	
Pits:	602	FT #3 - 7.8	285	Oil Additions	6	SCE Losses	
Slug Pit:	28	FT #4 - 7.8	480	Chemical Additions:		Other Losses	
Total Circulating Volume		Total Storage Volume		Barite Additions:		Total Losses	
602		1,251		Whole Mud Add:		Mud to Storage:	
Volume Below Bit		645		Other Additions		Ending Volume:	2736

Fluid Type	Oil-based	Fluid Properties			
Sample From		Pit	Pit		
Time Sample Taken		3:30 AM	4:00 PM		
Depth @ Time of Sample (ft)		8,887	8,883		
Sample Temperature (°F)		132	164		
Weight (ppg)		9.0	9.0		
Funnel Viscosity (sec/qt)		57	57		
Plastic Vis. (cp) @ 150 (°F)		16	16		
Yield Point (lbf/100ft²)		12	12		
Gel Strength (10s/10m) (lbf/100ft²)		11 | 12	12 | 13		
Gel Strength (30 Min) (lbf/100ft²)		14	14		
HPHT Filtrate @ 250 (°F)		2.0	2.0		
Cake (1/32 in)(API/HPHT)		2.0	2.0		
Diesel SG= 0.84		73.0	73.0		
Water (% by vol)		17.0	17.0		
Solids (% by vol)		10.0	10.0		
Electrical Stability (V)		1114	1134		
Pom (Vsa) cc's Sample 1.0		4.2	4.2		
Vsn (0.282N) cc's Sample 1.0		5.2	5.2		
Lime Content (lb/bbl)		5.4	5.4		
Clom (mg/L)		52,000	52,000		
CaClom (mg/L)		81,380	81,380		
CaClom (lb/bbl)		28	28		
CaCl (ppm in water phase)		323,733	323,733		
Oil/Water Ratio		81 | 19	81 | 19		
Brine Density (S.G.)		1.31	1.31		
LGS (% by vol) SG= 2.60		6.9	6.9		
LGS (lb/bbl)		62.74	62.74		
HGS (% by vol) SG= 4.20		0.9	0.9		
HGS (lb/bbl)		12.514	12.514		
Corrected Solids (% by vol)		8	8		
Flowline Temperature			174.1		

Hydraulics (ft/min)

Annular Interval	Ann. Vel.	Crit. Vel.
Intermediate Casing:DP	0.00	369.42

Operating Data

Avg ROP(ft/hr)	
WOB (Klbs)	
Rotating Weight	
Rotatary Speed	
Rotating Hrs.	
Sliding Hrs.	
Non-Drlg Hrs.	
P/U (lbs)	
S/O (lbs)	
Torque (lbf-ft)	
Angle	
Azimuth	
Surv. Depth(ft)	

Viscometer Rdgs

600	44
300	28
200	25
100	20
6	11
3	10

Solids Control Equipment

Shaker	Screens		Hrs	U/F	O/F
1	165/165/120/120	De-Sander			
2	165/165/120/120	De-Silter	18.0		
3		Centrifuge	18.0		
4		Centrifuge	18.0		
M/C			18.0		

Active Products

Materials	Initial	Rec'd	Used	Balance	Cost (US$)
Bulk Tank (50 ton \ ea)	44	0	2	42	100.00
Bulk Tanks Blower (1 \ ea)	44	0	2	42	70.00
Calcium Chloride Powder (50 lb	100	0	30	70	558.00
Engineering (24 hr) (1 \ ea)	0	0	1	0	500.00
Lime (50 lb \ sx)	254	0	18	236	126.90
OBM Lab (1 \ ea)	47	0	1	46	55.00
OptiPlus (55 gal \ Drum)	12	0	4	8	3,240.00
OptiThin (55 gal \ Drum)	9	0	3	6	771.15

Treatment Recommendations

Last 24 hrs: Added Lime, OptiPlus, OptiThin, water and diesel.

Next 24 hrs: Will continue with same treatment.

Comments/Remarks

Drilled ahead to 8,887 ft. Circulated B/U then pumped slug. POOH for bit change.

Daily Tax (US$)	Trucking (US$)	Daily Cost (US$)	5,716.31
295.26	0.00	Cumulative Cost (US$)	1,383,480.43

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Newpark Drilling Fluids, L.L.C.

Mud Report

Jerry Ard — **Evanston WY**

Tel: | Tel: | Tel:

Mbl: (985) 688-1226 | Tel: | Tel:

Pgr: | Fax: | Fax:

MudPIT$_{TM}$

Date	12/18/2010	MD (ft)	8,887
Report #	88	TVD (ft)	8,887
Spud Date	09/22/2010	Bit MD (ft)	8,435
API Well #	4302330021	Bit TVD (ft)	8,435
Present Activity		TIH	

Operator:	**PIONEER NATURAL RESOURCES**	**Contractor:**	**Nabors 169**
Report For:	**Dean Baker/Derrick Berry**	**Report For:**	**Coby Tuller**

Well Name / No.	Field / Block	Sur - Abs or Sec-T-R	County / Parish	State / Province	Country
SOUTH HILLS FEDERAL # 6-1			JUAB COUNTY	UTAH	USA

Drill String	OD(in)	ID(in)	Length(ft)
Basket Assy	6.625	2.625	22
DC	6.5	2.875	286.22
HWDP	5.0	3	768.89
DP	5.0	4.28	7357.89

Casing	OD(in)	ID(in)	Top(ft)	Bottom(ft)
Surface Casing	13.375	12.41	0.0	4345
Intermediate	9.875	8.625	0.0	8247

Pump and Circulating Data (check box for Riser Boost)

Pump #	1 ☐	2 ☐	3 ☐	Stand Pipe (psi)		0
Liner (in)	6.0	6.0	6.0	Calc P.Loss (psi)		0
Stroke (in)	10.0	10.0	10.0	ECD (ppg)		9.00
stk/min	0	0	0	Pump # 1	Min	Stks
Efficiency (%)	95	95	95	Surf-Bit	0	0
(bbl/stk)	0.083	0.083	0.083	Bott's Up	0	0
(gpm)	0	0	0	Surf-Surf	0	0
Total (gpm)		0		Tot. Circ.	0	0

Bit Data		Leak Off Test(ppg)	0
Bit Size (in)	8.5	TFA (in²)	
% Washout	5	Noz-Vel (ft/se)	
Bit Type:		Imp-Frc (psi)	
Bit #:		PSI Loss (psi)	
(1/32 in)		HSI (hp/in²)	
		Sys HHP (hp)	
		Sys HHP %	

Active Volume (bbl)		Storage Volume(bbl)		Volume Reconciliation (bbl)			
Annulus:	400	FT #1 - 11.1	31	Starting Volume	2736	Total Additions:	0
Drill String:	140	FT #2 - 9.6	455	Water Additions		Hole Losses	
Pits:	656	FT #3 - 7.8	285	Oil Additions		SCE Losses	
Slug Pit:	26	FT #4 - 7.8	480	Chemical Additions:		Other Losses	
Total Circulating Volume		Total Storage Volume		Barite Additions:		Total Losses	
1,197		1,251		Whole Mud Add:		Mud to Storage:	
Volume Below Bit		35		Other Additions		Ending Volume:	2736

Fluid Type	Oil-based	Fluid Properties			
Sample From		Pit	Pit		
Time Sample Taken		3:30 AM	4:00 PM		
Depth @ Time of Sample (ft)		8,887	8,887		
Sample Temperature (°F)		92	95		
Weight (ppg)		9.0	9.0		
Funnel Viscosity (sec/qt)		57	56		
Plastic Vis. (cp) @ 150 (°F)		16	16		
Yield Point (lbf/100ft²)		12	12		
Gel Strength (10s/10m) (lbf/100ft²)		11 / 12	11 / 13		
Gel Strength (30 Min) (lbf/100ft²)		14	15		
HPHT Filtrate @ 250 (°F)		2.0	2.0		
Cake (1/32 in)(API/HPHT)		2.0	2.0		
Diesel SG= 0.84		73.0	73.0		
Water (% by vol)		17.0	17.0		
Solids (% by vol)		10.0	10.0		
Electrical Stability (V)		1110	1121		
Pom (Vsa) cc's Sample 1.0		4.2	4.2		
Vsn (0.282N) cc's Sample 1.0		5.2	5.2		
Lime Content (lb/bbl)		5.4	5.4		
Clom (mg/L)		52,000	52,000		
CaClom (mg/L)		81,380	81,380		
CaClom (lb/bbl)		28	28		
CaCl (ppm in water phase)		323,733	323,733		
Oil/Water Ratio		81 / 19	81 / 19		
Brine Density (S.G.)		1.31	1.31		
LGS (% by vol) SG= 2.60		6.9	6.9		
LGS (lb/bbl)		62.74	62.74		
HGS (% by vol) SG= 4.20		0.9	0.9		
HGS (lb/bbl)		12.514	12.514		
Corrected Solids (% by vol)		8	8		
Flowline Temperature			112.6		

Hydraulics (ft/min)

Annular Interval	Ann. Vel.	Crit. Vel.
Intermediate Casing:DP	0.00	364.08
Intermediate Casing:	0.00	364.08
Intermediate Casing:DC	0.00	392.46
OH:DC	0.00	385.24
OH:Basket Assy	0.00	388.12

Operating Data

Avg ROP(ft/hr)	
WOB (Klbs)	
Rotating Weight	
Rotatary Speed	
Rotating Hrs.	
Sliding Hrs.	
Non-Drlg Hrs.	
P/U (lbs)	
S/O (lbs)	
Torque (lbf-ft)	
Angle	
Azimuth	
Surv. Depth(ft)	

Viscometer Rdgs		Solids Control Equipment					
600	44	Shaker	Screens		Hrs	U/F	O/F
300	28	1	165/165/120/120	De-Sander			
200	22	2	165/165/120/120	De-Silter			
100	15	3		Centrifuge			
6	10	4		Centrifuge			
3	9	M/C					

Active Products

Materials	Initial	Rec'd	Used	Balance	Cost (US$)
Bulk Tank (50 ton \ ea)	42	0	2	40	100.00
Bulk Tanks Blower (1 \ ea)	42	0	2	40	70.00
EXWATE (Ton \ bulk)	28.32	23.66	0	51.98	0.00
Engineering (24 hr) (1 \ ea)	0	0	1	0	500.00
OBM Lab (1 \ ea)	46	0	1	45	55.00

Treatment Recommendations

Last 24 hrs: None

Next 24 hrs: Treatment will be determined when back on bottom circulating.

Comments/Remarks

TIH to bottom with junk baskets. Circulated in an attempt to recover junk. POOH. Recovered two cones and a lot of unidentified metal. Tripped back in the hole with junk baskets in an attempt to recover the remainder of junk.

Daily Tax (US$)	Trucking (US$)	Daily Cost (US$)	738.50
13.50	0.00	Cumulative Cost (US$)	1,384,218.93

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Newpark Drilling Fluids, L.L.C. — **Mud Report**

Jerry Ard	**Evanston WY**	
Tel:	Tel:	Tel:
Mbl: (985) 688-1226	Tel:	Tel:
Pgr:	Fax:	Fax:

MudPIT™

Date	12/21/2010	MD (ft)	8,955
Report #	91	TVD (ft)	8,955
Spud Date	09/22/2010	Bit MD (ft)	8,955
API Well #	4302330021	Bit TVD (ft)	8,955
Present Activity		Drilling Ahead	

Operator:	**PIONEER NATURAL RESOURCES**	**Contractor:**	**Nabors 169**
Report For:	**Dean Baker/Derrick Berry**	**Report For:**	**Coby Tuller**

Well Name / No.	Field / Block	Sur - Abs or Sec-T-R	County / Parish	State / Province	Country
SOUTH HILLS FEDERAL # 6-1			JUAB COUNTY	UTAH	USA

Drill String	OD(in)	ID(in)	Length(ft)
Boot Baskets	7.0	2.375	7.02
RR ASSY	6.675	2.625	57.16
DC	6.5	2.875	249.57
HWDP	5.0	3	768.89
DP	5.0	4.28	7872.36

Casing	OD(in)	ID(in)	Top(ft)	Bottom(ft)
Surface Casing	13.375	12.41	0.0	4345
Intermediate	9.875	8.625	0.0	8247

Pump and Circulating Data (check box for Riser Boost)

Pump #	1 ☐	2 ☐	3 ☐	Stand Pipe (psi)		2,356
Liner (in)	6.0	6.0	6.0	Calc P.Loss (psi)		1,400
Stroke (in)	10.0	10.0	10.0	ECD (ppg)		9.50
stk/min	176	0	0	Pump # 1	Min	Stks
Efficiency (%)	95	95	95	Surf-Bit	10	1,797
(bbl/stk)	0.083	0.083	0.083	Bott's Up	29	5,151
(gpm)	614	0	0	Surf-Surf	39	6,948
Total (gpm)		614		Tot. Circ.	85	14,943

Bit Data

Bit Size (in)	8.5						
% Washout	5						
Bit Type:	FHi90YODR						
Bit #:	31						
(1/32 in)	28	28	28				

Leak Off Test(ppg)	0
TFA (in²)	1.804
Noz-Vel (ft/se)	108.90
Imp-Frc (psi)	311
PSI Loss (psi)	95.791
HSI (hp/in²)	0.603
Sys HHP (hp)	843.92
Sys HHP %	4.066

Active Volume (bbl)		Storage Volume(bbl)	
Annulus:	428	FT #1 - 11.1	31
Drill String:	149	FT #2 - 9.6	455
Pits:	664	FT #3 - 7.8	285
Slug Pit:	35	Pre-Mix - 9.3	327
Total Circulating Volume	1,241	Total Storage Volume	1,098
Volume Below Bit			0

Volume Reconciliation (bbl)			
Starting Volume	2736	Total Additions:	60
Water Additions	48	Hole Losses	
Oil Additions	12	SCE Losses	
Chemical Additions:		Other Losses	
Barite Additions:		Total Losses	
Whole Mud Add:		Mud to Storage:	
Other Additions		Ending Volume:	2796

Fluid Type	Oil-based	Fluid Properties			
Sample From		Pit	Pit		
Time Sample Taken		3:30 AM	4:00 PM		
Depth @ Time of Sample (ft)		8,955	8,921		
Sample Temperature	(°F)	140	141		
Weight (ppg)		9.0	9.0		
Funnel Viscosity (sec/qt)		58	54		
Plastic Vis. (cp) @ 120	(°F)	15	16		
Yield Point (lbf/100ft²)		14	12		
Gel Strength (10s/10m) (lbf/100ft²)		9 | 10	11 | 12		
Gel Strength (30 Min) (lbf/100ft²)		11	14		
HPHT Filtrate @ 250	(°F)	2.0	2.0		
Cake (1/32 in)(API/HPHT)		2.0	2.0		
Diesel	SG= 0.84	76.0	76.0		
Water (% by vol)		14.0	14.0		
Solids (% by vol)		10.0	10.0		
Electrical Stability (V)		1164	1178		
Pom (Vsa)	cc's Sample 1.0	4.4	4.4		
Vsn (0.282N)	cc's Sample 1.0	5.1	5.1		
Lime Content (lb/bbl)		5.7	5.7		
Clom (mg/L)		51,000	51,000		
CaClom (mg/L)		79,815	79,815		
CaClom (lb/bbl)		28	28		
CaCl (ppm in water phase)		363,101	363,101		
Oil/Water Ratio		84 | 16	84 | 16		
Brine Density (S.G.)		1.35	1.35		
LGS (% by vol)	SG= 2.60	6.4	6.4		
LGS (lb/bbl)		58.473	58.473		
HGS (% by vol)	SG= 4.20	1.3	1.3		
HGS (lb/bbl)		19.025	19.025		
Corrected Solids (% by vol)		8	8		
Optional Label 1		170.2	171.4		

Hydraulics (ft/min)

Annular Interval	Ann. Vel.	Crit. Vel.
Intermediate Casing:DP	304.30	355.51
Intermediate Casing:	304.30	355.51
OH:HWDP	274.99	350.39
OH:DC	401.80	382.57
OH:RR ASSY	428.20	387.84
OH:Boot Baskets	490.27	399.04

Operating Data

Avg ROP(ft/hr)	2.8
WOB (Klbs)	36
Rotating Weight	
Rotatary Speed	62
Rotating Hrs.	
Sliding Hrs.	
Non-Drlg Hrs.	
P/U (lbs)	
S/O (lbs)	
Torque (lbf-ft)	2683
Angle	
Azimuth	
Surv. Depth(ft)	

Viscometer Rdgs	
600	44
300	29
200	26
100	20
6	8
3	7

Solids Control Equipment

Shaker	Screens		Hrs	U/F	O/F
1	165/165/120/120	De-Sander			
2	165/165/120/120	De-Silter	24.0		
3		Centrifuge	24.0		
4		Centrifuge	24.0		
M/C			24.0		

Active Products

Treatment Recommendations

Last 24 hrs: Added Lime, OptiThin, OptiPlus, GSX-509, water and diesel.

Next 24 hrs: Will continue with same treatment

Comments/Remarks

Drilled ahead to 8,955 ft at report time.

Daily Tax (US$)	Trucking (US$)	Daily Cost (US$)	0.00
0.00	0.00	Cumulative Cost (US$)	1,387,744.48

The information in this report is based on our experience and represents our best judgment in the matter and is intended to be helpful, but we cannot assume responsibility for any loss or accident that may result from its use. Furthermore, nothing contained herein shell be construed as a recommendation to use any product in conflict with existing patents covering any materials or uses.

Newpark Drilling Fluids, L.L.C.

Mud Report

Jerry Ard	Evanston WY	
Tel:	Tel:	Tel:
Mbl: (985) 688-1226	Tel:	Tel:
Pgr:	Fax:	Fax:

MudPIT™

Date	12/21/2010	MD (ft)	8,973
Report #	91	TVD (ft)	8,973
Spud Date	09/22/2010	Bit MD (ft)	3,666
API Well #	4302330021	Bit TVD (ft)	3,666
Present Activity		TIH	

Operator:	**PIONEER NATURAL RESOURCES**	**Contractor:**	**Nabors 169**
Report For:	**Dean Baker/Derrick Berry**	**Report For:**	**Rod Flynn**

Well Name / No.	Field / Block	Sur - Abs or Sec-T-R	County / Parish	State / Province	Country
SOUTH HILLS FEDERAL # 6-1			JUAB COUNTY	UTAH	USA

Drill String	OD(in)	ID(in)	Length(ft)
RR ASSY	6.675	2.625	57.16
DC	6.5	2.875	249.57
HWDP	5.0	3	768.89
DP	5.0	4.28	2590.38

Casing	OD(in)	ID(in)	Top(ft)	Bottom(ft)
Surface Casing	13.375	12.41	0.0	4345
Intermediate	9.875	8.625	0.0	8247

Pump and Circulating Data (check box for Riser Boost)

	Pump 1 ☐	Pump 2 ☐	Pump 3 ☐			
Pump #				Stand Pipe (psi)		0
Liner (in)	6.0	6.0	6.0	Calc P.Loss (psi)		0
Stroke (in)	10.0	10.0	10.0	ECD (ppg)		9.00
stk/min	0	0	0	Pump # 1	Min	Stks
Efficiency (%)	95	95	95	Surf-Bit	0	0
(bbl/stk)	0.083	0.083	0.083	Bott's Up	0	0
(gpm)	0	0	0	Surf-Surf	0	0
Total (gpm)		0		Tot. Circ.	0	0

Bit Data							Leak Off Test(ppg)	0
Bit Size (in)	8.5						TFA (in²)	1.804
% Washout	5						Noz-Vel (ft/se)	
Bit Type:	FHi90YODR						Imp-Frc (psi)	
Bit #:	31						PSI Loss (psi)	
(1/32 in)	28	28	28				HSI (hp/in²)	
							Sys HHP (hp)	
							Sys HHP %	

Active Volume (bbl)		Storage Volume(bbl)		Volume Reconciliation (bbl)			
Annulus:	171	FT #1 - 11.1	31	Starting Volume	2736	Total Additions:	60
Drill String:	55	FT #2 - 9.6	455	Water Additions	48	Hole Losses	
Pits:	773	FT #3 - 7.8	285	Oil Additions	12	SCE Losses	
Slug Pit:	35	Pre-Mix - 9.3	327	Chemical Additions:		Other Losses	
Total Circulating Volume		Total Storage Volume		Barite Additions:		Total Losses	
999		1,098		Whole Mud Add:		Mud to Storage:	
Volume Below Bit		387		Other Additions		Ending Volume:	2796

Fluid Type	Oil-based	Fluid Properties							
Sample From		Pit	Pit						
Time Sample Taken		3:30 AM	4:00 PM						
Depth @ Time of Sample (ft)		8,973	8,973						
Sample Temperature (°F)		90	122						
Weight (ppg)		9.0	9.0						
Funnel Viscosity (sec/qt)		58	54						
Plastic Vis. (cp) @ 120 (°F)		15	16						
Yield Point (lbf/100ft²)		14	12						
Gel Strength (10s/10m) (lbf/100ft²)		9	10	11	12				
Gel Strength (30 Min) (lbf/100ft²)		11	14						
HPHT Filtrate @ 250 (°F)		2.0	2.0						
Cake (1/32 in)(API/HPHT)			2.0		2.0				
Diesel SG= 0.84		77.0	77.0						
Water (% by vol)		13.0	13.0						
Solids (% by vol)		10.0	10.0						
Electrical Stability (V)		1164	1178						
Pom (Vsa) cc's Sample 1.0		4.4	4.4						
Vsn (0.282N) cc's Sample 1.0		5.1	5.1						
Lime Content (lb/bbl)		5.7	5.7						
Clom (mg/L)		51,000	51,000						
CaClom (mg/L)		79,815	79,815						
CaClom (lb/bbl)		28	28						
CaCl (ppm in water phase)		380,407	380,407						
Oil/Water Ratio		86	14	86	14				
Brine Density (S.G.)		1.37	1.37						
LGS (% by vol) SG= 2.60		6.2	6.2						
LGS (lb/bbl)		56.804	56.804						
HGS (% by vol) SG= 4.20		1.4	1.4						
HGS (lb/bbl)		21.26	21.26						
Corrected Solids (% by vol)		8	8						

Hydraulics (ft/min)

Annular Interval	Ann. Vel.	Crit. Vel.
Intermediate Casing:DP	0.00	355.51
Intermediate Casing:	0.00	355.51
Intermediate Casing:DC	0.00	391.90
Intermediate Casing:RR	0.00	398.10

Operating Data

Avg ROP(ft/hr)	
WOB (Klbs)	
Rotating Weight	
Rotatary Speed	
Rotating Hrs.	
Sliding Hrs.	
Non-Drlg Hrs.	
P/U (lbs)	
S/O (lbs)	
Torque (lbf-ft)	
Angle	
Azimuth	
Surv. Depth(ft)	

Viscometer Rdgs		Solids Control Equipment					
600	44	Shaker	Screens		Hrs	U/F	O/F
300	29	1	165/165/120/120	De-Sander			
200	25	2	165/165/120/120	De-Silter	14.0		
100	20	3		Centrifuge	14.0		
6	8	4		Centrifuge	14.0		
3	7	M/C			14.0		

Active Products

Materials	Initial	Rec'd	Used	Balance	Cost (US$)
Bulk Tank (50 ton \ ea)	36	0	2	34	100.00
Bulk Tanks Blower (1 \ ea)	36	0	2	34	70.00
Drum Disposal (1 \ ea)	0	16	0	16	0.00
Engineering (24 hr) (1 \ ea)	0	0	1	0	500.00
GSX-509 (50 lb \ sk)	24	0	5	19	380.00
Lime (50 lb \ sx)	224	0	18	206	126.90
OBM Lab (1 \ ea)	43	0	1	42	55.00
OptiDrill OBM (1 bbl \ bulk)	2816	-669	0	2147	0.00
OptiPlus (55 gal \ Drum)	6	12	4	14	3,240.00
OptiThin (55 gal \ Drum)	6	4	6	4	1,542.30
Pallets (1 \ ea)	0	4	0	4	0.00

Treatment Recommendations

Last 24 hrs: Added Lime, OptiPlus, OptiThin, GSX-509, water and diesel.

Next 24 hrs: Treatment will be determined when on bottom circulating.

Comments/Remarks

Drilled ahead to 8,973 ft. Circulated B/U, pumped slug and POOH for bit change

****Trucking charges from DT EVA2579, EVA2580

Daily Tax (US$)	Trucking (US$)	Daily Cost (US$)	8,354.56
330.85	2,009.51	Cumulative Cost (US$)	1,396,099.05

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PIONEER NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 9/22/2010
REPORT: 27
DOL: 27.00
DFS: 0.00

Rig Name: NABORS DRILLING 169

Depth Progress:

Daily Summary

Property Sub	Field Name	API/UWI	Spud Date
327560-001	WILDCAT	43-023-30021-0000	

KB-Ground Distance (ft)	Original KB Elevation (ft)	KB-Mud Line Distance (ft)
25.00	5,264.00	

Daily Operations

Target Depth (ftKB)	Target Depth (TVD) (ftKB)	End Depth (ftKB)	End Depth (TVD) (ftKB)
9,040.0		0.0	

Footage/Meterage (ft)	24 HR ROP (ft/hr)	Drilling Hours (hr)

Avg Connection Gas	Avg Trip Gas	Avg Background Gas	Max Connection Gas	Max Trip Gas	Max Drill Gas

Operations at Report Time
WORKING ON WASH PIPE PACKING

Operations Summary
INSTALL ROTARY CHAIN. WELDERS MODIFIED RIG FLOOR TO ACCEPT V-DOOR SLIDE. INSTALL TDS ENCODER. WELD ON 30" RISER & 10" FLOW LINE OUTLET. CIRC SURFACE SYSTEM, ADJUST TDS RAILS. TROUBLE SHOOT HYDRAULIC CATWALK, PRESSURE TEST SURFACE CIRC SYSTEM, REPAIR WASH PIPE PACKING

Remarks
AT 1420 HRS, NOTIFIED RANDY KNIGHT, WITH UTAH, BLM, PLAN TO SPUD WELL

Operations Next Report Period
REPAIR WASH PIPE PACKING, PRESS TEST CIRC SYSTEM, PICK-UP BHA, DRILL17-1/2" SURFACE

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com
06:00	06:00	24.00	MOB	PP	0600-1330 HRS, INSTALL ROTARY CHAIN, ELECTRICIAN INSTALLED NEW ENCODER (TORQUE, ROTARY SPEED) IN TDS, WELDERS MODIFIED RIG FLOOR, TO ACCEPT V-DOOR SLIDE. WELDERS MODIFIED TONG COUNTER WEIGHTS IN DERRICK FUNCTION TEST, HYDRAULIC CAT WALK/PIPE HANDLER, BED & SKATE -- OK 0730-1230 HRS, PIONEER WELDERS CONTINUE WORKING ON GAS BUSTER & WALK WAY TO BULK BARITE HOPPER. 1330-2330 HRS, MOVED 30"X22', ERW PIPE INTO CELLAR. PIONEER WELDERS WELDED 30"X22'L, RISER TO 30" CONDUCTOR & PAD EYES TO 30" RISER. FABRICATE & WELD 10"X16"L FLOW LINE NIPPLE OUTLET. NOTE: TOP OF 30" CONDUCTOR, 4" ABOVE TOP OF FLOW LINE. COULD NOT LOCATE ADDITIONAL 30"X18"L SECTION, TO ADD TO TOP OF CONDUCTOR. 2100-2230 HRS, PRIME SURFACE CIRCULATING EQUIPMENT, THROUGH FILL UP LINE, FIX MISC LEAKS. 0000-0100 HRS, MOVE BHA ONTO OFFSET RACKS, STRAP & CALIPER. MOVE 17-1/2" PDC BIT TO FIG FLOOR. 0100-0330 HRS, ADJUST "RATCHETS" ON TDS TRACKS, SET CROWN SAVER, REPLACE LIGHT BULBS ON PITS. 0330-0500 HRS, LOAD 1 SUB ON CATWALK, RAISE CATWALK, RUN SKATE TO RIG FLOOR, CATWALK SHUT DOWN, IN EXTENDED POSITION. GOT CATWALK TO LAY DOWN, TROUBLE SHOOT, COULD NOT FIND PROBLEM. 0500-0515 HRS, M/U, 1 JT, 5" DP, TO TDS, RIH 0515-0600, CIRC SURFACE CIRCULATING SYSTEM W/ BOTH MUD PUMPS. CLOSE TIW VALVE, PRESSURE UP TO 180 PSI, WASH PIPE PACKING IN TDS LEAKING. RELEASE PRESS. TIGHTEN PACKING NUTS. CENTER 30" CONDUCTOR, TO ROTARY TABLE, SECURE WITH TIE DOWN CABLES. RIG 3" OFF CENTER TOWARDS V-DOOR, OF 30". AT 14:20 HRS, NOTIFIED RANDY KNIGHT, UTAH, BLM, PLAN TO SPUD BETWEEN 1800 HRS, 21/SEPT TO 0600 HRS, 22/SEPT RECEIVED: 112 JTS, 5", S-135, DP RECEIVED: 11 JTS, 5", HWDP. BACK LOAD: 11 JTS 5", HWDP -- NO HARD BAND & (2) 8" DC'S, WITH NC-56 CONN'S DRILLING TUBULAR'S ON LOCATION: DP: 393 JTS, 5", S-135, 4-1/2 IF CONN HWDP: 30 JTS, 5", 4-1/2 IF CONN DC'S: (30), 6-1/2", 4-1/2 XH CONN DC'S: (7), 8", 6-5/8" REG CONN

Total AFE + Sup (Cost)
9,064,000.00

AFE Job Cost Summary

Cost Type	AFE Amt (Cost)
DHC	7,600,000.00
CWC	1,464,000.00

Field Estimate Job Cost Summary

Cost Type	Field Est (Cost)
DHC	1,240,278.12

Daily Summary

Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
45,136.00	1,240,278.12
Daily Mud Field Est (Cost)	Cum Mud Field Est (Cost)

POL (Personnel on Location)
23.0

Daily Contacts

Job Contact	Title
Dean Baker	Sr. Drlg. Foreman
Billy Vigil	Drilling Foreman

Personnel Log

Company	Count
PIONEER NATURAL RESOURCES	1
PIONEER NATURAL RESOURCES	1
NABORS DRILLING INC	1
NABORS DRILLING INC	13
BAKER HUGHES INTEQ	2
ZECO	2
SELMA	2
NEWPARK	1

Weather

Precipitation Amount (in)	Precipitation Type
Temperature - High (°F)	Temperature - Low (°F)

Comment

NABORS DRILLING, 169

Rig Type: Drilling - Triple

Rig Start Date	Rig Release Date

1, National Supply, 10-P-130

Pump Number: 1

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6 1/2	10.00	0.097

Max Pressure (psi)

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

2, National Supply, 10-P-130

Pump Number: 2

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)

Max Pressure (psi)

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

NABORS DRILLING, 169

Rig Type: Drilling - Triple

Rig Start Date	Rig Release Date

1, National Supply, 10-P-130

Pump Number: 1

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6 1/2	10.00	0.098

Max Pressure (psi)

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

2, National Supply, 10-P-130

Pump Number: 2

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6 1/2	10.00	0.098

Max Pressure (psi)

Safety Summary

BOP Test Date	Last BOP Test	BOP Func Due	HSE Incident	HSE Inc Remark

9/22/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 9/22/2010
REPORT: 27
DOL: 27.00
DFS: 0.00

Rig Name: NABORS DRILLING 169

Depth Progress:

Daily Summary

Mud Properties

Daily Cost: <Daily Mud Field Est?> Cum Cost: <Mud Additive

Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	T Flowline (°F)

PV (cp)	YP (lbf/100ft²)	Filtrate (mL/30min)	HTHP Filtrate (mL/30…	HTHP Pressure (psi)	HTHP Temperature (°F)

Solids (%)	Sand (%)	MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)

Chlorides (ppm)	Calcium (ppm)	Oil Water Ratio	Electric Stab (V)	Lime (lb/bbl)	Low Gravity Solids (%)

Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Comment

Bottom Hole Assembly

BHA Since Insp (hr)	BHA Wt BelowJar (1000lbf)	Hrs on Jars (hr)

BHA #<BHA #?>, <Drill String Name?>

Bit Run	Drill Bit	Bit Type	Make

Nozzles (1/32")	IADC Codes	IADC Bit Dull

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)

Drilling Parameters

<depthstart> - <depthend> ftKB

Start (ftKB)	End Depth…	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100…	SO Str Wt (100…	Drill Str Wt (100…	Torque Units	Drilling Torque	Off Btm Tq

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/…	Max Open Hole AV (ft…

Casing Strings

Prop Run?	Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
Yes	Conductor	105.0		30	ERW	118.00		

Plug Back Total Depths

Date	Depth (ftKB)	Type	Method

Deviation Surveys

<des>, Proposed? <proposed>

Date	Description	Job

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

Job Supply Amounts

Supply Item Des	Unit Label	Received	Consumed	Cum On Loc

Mud Additive Amounts

Des	Consumed	Cum Cons

Formations

Formation Name	Final Top MD (ftKB)
Quaternary	
Tertiary Volcanic	
Tertiary Undivided	
North Horn	
UNCONFORMITY	
Arapien	
FAULT	
Arapien	
Twin Creek	
Gypsum Sprgs Mbr	
Navajo	
Chinle	
TD	

Safety Summary

9/22/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 9/23/2010
REPORT: 28
DOL: 28.00
DFS: 0.60

Rig Name: NABORS DRILLING 169

Depth Progress: 63.00

Daily Summary

Property Sub	Field Name	API/UWI	Spud Date
327560-001	WILDCAT	43-023-30021-0000	9/22/2010

KB-Ground Distance (ft)	Original KB Elevation (ft)	KB-Mud Line Distance (ft)
25.00	5,264.00	

Daily Operations

Target Depth (ftKB)	Target Depth (TVD) (ftKB)	End Depth (ftKB)	End Depth (TVD) (ftKB)
9,040.0		168.0	

Footage/Meterage (ft)	24 HR ROP (ft/hr)	Drilling Hours (hr)
63.00	126.0	0.50

Avg Connection Gas	Avg Trip Gas	Avg Background Gas	Max Connection Gas	Max Trip Gas	Max Drill Gas

Operations at Report Time
MUD UP SURFACE CIRCULATING SYSTEM

Operations Summary
FINISH CHANGING WASH PIPE OUT, PRESS TEST SURFACE SYSTEM, 500/1000 PSI, RIG WALK AROUND INSPECTION. TROUBLE SHOOT PIPE HANDLER, ACCEPTED RIG @ 0900 HRS. P/U & M/U 17-1/2" BIT & DIRECTIONAL BHA. TAG CEMENT @ 105'. DRILL TO 168', LOST RETURNS. PUMPED (2) LCM PILLS. MUD UP SURFACE SYSTEM.

Remarks
NO ACCIDENTS OR SPILLS REPORTED

Operations Next Report Period
CONTINUE MUDING UP SURFACE SYSTEM, DRILLING 17-1/2" SURFACE HOLE

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com
06:00	09:00	3.00	DRLG	PP	0600-0730 HRS, COULD NOT TIGHTEN PACKING, CHANGE OUT WASH PIPE & PACKING 0730-0800 HRS, PRESS TEST SURFACE CIRC EQPT, 250/500/1000 PSI, FIX LEAKS, RE-PRESS UP, GOOD TEST 0800-0900 HRS, COBY TULLER, NABORS RIG MANAGER, DEAN BAKER, PERFORMED WALK AROUND RIG INSPECTION, TROUBLE SHOOT PIPE HANDLER, FOUND TRIPPED BREAKER -- OK. ACCEPTED RIG TO COMMENCE OPERATIONS @ 0900 HRS
09:00	13:30	4.50	DRLG	PP	MOVE TRUE-TRAK MOTOR OFF PIPE RACKS, TO CAT WALK. P/U & M/U TRUE-TRAK, STOP SUB, X/O SUB, FLOAT SUB, THRUSTER & 17-1/2", PDC BIT, RIH, M/U 8" DC.
13:30	14:00	0.50	DRLG	PP	CALIBRATE BLOCK HEIGHT
14:00	14:45	0.75	DRLG	PP	M/U, (2) X/O SUBS, (1) JT, 5" DP. RIH TO 105', TAG TOC.
14:45	15:15	0.50	DRLG	PP	WELD 2" FILL UP NIPPLE INTO 30" CONDUCTOR
15:15	15:45	0.50	DRLG	PP	ENGAGE TDS, BREAK CIRC, CALIBRATE PUMP STROKES, BOTH PUMPS
15:45	16:00	0.25	DRLG	PP	CHECK TRU-TRAK READOUT, RUN PUMPS 65X65, 530 GPM, PADS NOT EXTENDED, SHUT DOWN PUMPS, BRING PUMPS UP TO 75X75 SPM, 611 GPM, 420 PSI, PADS EXTENDED
16:00	16:15	0.25	DRLG	PP	DRILL CEMENT FROM, 105'-108' (2 MINUTES), PUMPS 75X75, 611 GPM, 440 PSI, BIT RPM 97, NOT ROTATING DRILL STRING. HAMMER UP LEAKING FLOW LINE CONN'S
16:15	18:15	2.00	SLDDRLG	PP	SPUD 17-1/2" HOLE, DRILL FROM, 108'-???', BY SINGLES ONLY. NOT ROTATING DRILL STRING. PICKING UP BHA (8" DC'S) DRILL FROM 108'-117', 4 MINUTES, PUMPS 75X75, 611 GPM, 590 PSI, BIT RPM 97, WOB 0-1K DRILL FROM 117'-148, 16 MINUTES, PUMPS 75X75, 611 GPM, 620 PSI, BIT RPM 97, WOB 0-3K DRILL FROM 148'-167, 9 MINUTES, PUMPS 80X80, 652 GPM, 700 PSI, BIT RPM 104, WOB 0-3k
18:15	20:30	2.25	U_LC	PN	LOST RETURNS, REDUCE PUMPS TO 50X50 SPM, 417 GPM, 370 PSI, HAD 50K OVERPULL, PULL INTO 30" CSG @ 102'. FORMATION SAMPLES SHOW 100% SAND MIX 75 BBLS, 25 PPB, LCM PILL (11 SXS FINE MICA, 11 SXS MEDIUM CALCIUM CARB, 11 SXS MEDIUM DYNA FIBER, 11 SXS CEDAR FIBER), RIH TO 165', PUMP 25 BBLS, LCM PILL, 50 SPM, 204 GPM, HAD PARTIAL RETURNS PUMPING LCM, LAST 10 BBLS PUMPED, HAD GOOD RETURNS. WASH TO BOTTOM FROM 161-167', LAST 3' HAD PARTIAL RETURNS. DRILL FROM 167'-168, 1 MINUTE, PUMPS 75X75, 611 GPM, 550 PSI, BIT RPM 98, WOB 0K --- LOST RETURNS. WHILE WASHING TO BOTTON & DRILLING 1', LOST TOTAL 58 BBLS PUMP 30 BBLS, 25 PPB, LCM, LOST 40 BBLS WHILE PUMPING LCM PILL.
20:30	20:45	0.25	U_LC	PN	A MEETING ON LOCATION WITH ERIC BARNETT, HUBERT STALLINGS, DEAN BAKER, DERRICK BERRY, IT WAS DECIDED TO MUD UP: 45 VIS, 40 LB/BBL LCM, 25 MBT.
20:45	06:00	9.25	U_LC	PN	MUD UP SURFACE SYSTEM: 45 VIS, 40 LBS/BBL LCM & 25 MBT.

Total AFE + Sup (Cost)
9,064,000.00

AFE Job Cost Summary

Cost Type	AFE Amt (Cost)
DHC	7,600,000.00
CWC	1,464,000.00

Field Estimate Job Cost Summary

Cost Type	Field Est (Cost)
DHC	1,258,071.12

Daily Summary

Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
17,793.00	1,258,071.12
Daily Mud Field Est (Cost)	**Cum Mud Field Est (Cost)**
10,765.60	10,765.60

POL (Personnel on Location)
23.0

Daily Contacts

Job Contact	Title
Dean Baker	Sr. Drlg. Foreman
Derrick Berry	Drlg. Foreman
Billy Vigil	Drilling Foreman

Personnel Log

Company	Count
PIONEER NATURAL RESOURCES	1
PIONEER NATURAL RESOURCES	1
NABORS DRILLING INC	1
NABORS DRILLING INC	13
BAKER HUGHES INTEQ	2
ZECO	2
SELMA	2
NEWPARK	1

Weather

Precipitation Amount (in)	Precipitation Type
Temperature - High (°F)	**Temperature - Low (°F)**

Comment

NABORS DRILLING, 169

Rig Type
Drilling - Triple

Rig Start Date	Rig Release Date

2, NATIONAL, 10-P-130

Pump Number
2

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6 1/2	10.00	0.097

Max Pressure (psi)

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

NABORS DRILLING, 169

Rig Type
Drilling - Triple

Rig Start Date	Rig Release Date

1, National Supply, 10-P-130

Pump Number
1

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6 1/2	10.00	0.097

Max Pressure (psi)

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

Job Supply Amounts

Supply Item Des	Unit Label	Received	Consumed	Cum On Loc

Mud Additive Amounts

Des	Consumed	Cum Cons
Cedar Fiber	112	112
Dyna Fiber Cor	148	148
Mica F	144	144
New Carb Med	126	126
NewGel	175	175
NewPac R	0	0
NewPHPA	6	6
SAPP		0
Soda Ash	4	4

Safety Summary

BOP Test Date	Last BOP Test	BOP Func Due	HSE Incident	HSE Inc Remark
				NONE

9/23/2010

PIONEER NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 9/23/2010
REPORT: 28
DOL: 28.00
DFS: 0.60

Rig Name: NABORS DRILLING 169

Depth Progress: 63.00

Daily Summary

Mud Properties

Daily Cost: 10,765.60 Cost Cum Cost: 10,765.60 Cost

Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	T Flowline (°F)
16:00		168.0	8.50	48	

PV (cp)	YP (lbf/100ft²)	Filtrate (mL/30min)	HTHP Filtrate (mL/30…	HTHP Pressure (psi)	HTHP Temperature (°F)
12.0	10.000	14.0			

Solids (%)	Sand (%)	MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)
1.2		15.5	10.5	0.700	0.3

Chlorides (ppm)	Calcium (ppm)	Oil Water Ratio	Electric Stab (V)	Lime (lb/bbl)	Low Gravity Solids (%)
120.000	120.000	0/100			1.2

Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Comment
6.000	5.000	

Bottom Hole Assembly

BHA Since Insp (hr)	BHA Wt BelowJar (1000lbf)	Hrs on Jars (hr)

BHA #1 , Steerable

Bit Run	Drill Bit	Bit Type	Make
1	17 1/2in, HCD507Z, 7019893	PDC	HUGHES

Nozzles (1/32")	IADC Codes	IADC Bit Dull
16/16/16/16/16/16/16	___	-------

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)
1.37	0.50	63.00

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)
0.50	63.00	126.0	105.0	168.0

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
	Drill Pipe	5	4.276		1,285.85
25	HWDP	5	3.000	767.98	1,285.85
1	Jars	0.0	0.000	32.57	517.87
1	HWDP	5	3.000	30.72	485.30
1	X/O	0.0	0.000	3.57	454.58
6	6-1/2" DC's	0.0	0.000	184.03	451.01
1	X/O	0.0	0.000	2.92	266.98
6	8" DC's	8	0.000	183.85	264.06
1	Mechanical Thruster	0.0	0.000	30.11	80.21
1	Filter Sub	8	0.000	4.88	50.10
1	Float Sub	0.0	0.000	2.49	45.22
1	X/O	0.0	3.000	3.12	42.73
1	Stop Sub	0.0	0.000	1.46	39.61
1	9-1/2" True Trak W/ Stab	0.0		36.60	38.15

Drilling Parameters

105.0 - 168.0 ftKB

Start (ftKB)	End Depth…	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note
105.0	168.0	126.0	2			611	640.0	

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100…	SO Str Wt (100…	Drill Str Wt (100…	Torque Units	Drilling Torque	Off Btm Tq
0.50		50	50	50			

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/…	Max Open Hole AV (ft…

Casing Strings

Prop Run?	Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
Yes	Conductor	105.0		30	ERW	118.00		

Plug Back Total Depths

Date	Depth (ftKB)	Type	Method

Deviation Surveys

<des>, Proposed? <proposed>

Date	Description	Job

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)

Mud Additive Amounts

Des	Consumed	Cum Cons
Wallnut Shell		0

Formations

Formation Name	Final Top MD (ftKB)
Quaternary	
Tertiary Volcanic	
Tertiary Undivided	
North Horn	
UNCONFORMITY	
Arapien	
FAULT	
Arapien	
Twin Creek	
Gypsum Sprgs Mbr	
Navajo	
Chinle	
TD	

Safety Summary

9/23/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 9/24/2010
REPORT: 29
DOL: 29.00
DFS: 1.60

Rig Name: NABORS DRILLING 169

Depth Progress: 30.00

Daily Summary

Property Sub	Field Name	API/UWI	Spud Date
327560-001	WILDCAT	43-023-30021-0000	9/22/2010

KB-Ground Distance (ft)	Original KB Elevation (ft)	KB-Mud Line Distance (ft)
25.00	5,264.00	

Daily Operations

Target Depth (ftKB)	Target Depth (TVD) (ftKB)	End Depth (ftKB)	End Depth (TVD) (ftKB)
9,040.0		206.0	

Footage/Meterage (ft)	24 HR ROP (ft/hr)	Drilling Hours (hr)
30.00	60.0	0.50

Avg Connection Gas	Avg Trip Gas	Avg Background Gas	Max Connection Gas	Max Trip Gas	Max Drill Gas

Operations at Report Time
POOH, STANDING BACK DRILL COLLARS

Operations Summary
FINISH MUDDING UP, WASH 105' TO 168', DRILL FROM 168'-176', TDS GRABBER BREAK-OUT DIES BAD, CHNG OUT, COULD NOT GET TRU-TRAK TO SYNC, POOH TO FILTER SUB, FILTER SUB PACKED W/ LCM, CLEAN OUT, RIH, TRU-TRAK WOULD NOT SYNC, POOH, CHNG OUT TRU-TRACK MOTORS, PROBLEMS GETTING BIT BREAKER IN & OUT OF ROTARY TABLE, TIH TO 166' BROKE CIRCULATION AT SLOW RATE, DRILLED FROM 176' TO 206', MADE CONNECTION, RECYCLED PUMPS SERVAL TIMES, TRU TRAK TOOL, WOULD NOT DECODE, OR SYNC. POOH

Remarks

Operations Next Report Period
DRILLING 17-1/2" SURFACE HOLE

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com
06:00	08:00	2.00	U_LC	PN	FINISH MUDDING UP: VIS 70, LCM 35 PPB, MBT 22.5 PPB, MWT 8.5 PPG
08:00	08:30	0.50	U_OTR	PN	STAGE IN HOLE FROM 105' TO 168' (HAD 5' FILL), 1 PUMP 47 SPM, 204 GPM, 250 PSI, STALLED OUT TRU-TRAK, INC PUMP TO 65 SPM, PRESS 330 PSI, CLEAN OUT TO 168', NO LOSSES
08:30	10:15	1.75	SLDDRLG	PP	SLIDE DRILL FROM 168'-176', PUMP 65 SPM, 265 GPM, 330 PSI, WOB 0-7K, EST 5 BBL LOSSES AT FIRST, NO LOSSES THERE AFTER, NO READ OUT ON TRU-TRAK, AS UNDER THRESHOLD OF TOOL MONITORING BEING 750 GPM
10:15	10:45	0.50	RIGSER	PP	RIG SERVICE, TDS
10:45	11:45	1.00	U_RIG	PN	PROBLEMS BREAKING OUT TDS FROM DP. TDS GRABBER BREAK OUT DIES DAMAGED. CHANGE OUT DIES.
11:45	13:00	1.25	U_OTR	PN	CIRC W/ 1 PUMP 100 SPM, PRESS 390 PSI, NO LOSSES, PARALLEL 2 PUMPS @ 50X50 SPM, 490 PSI, NO LOSSES, STAGE PUMPS TO 60X60 SPM, 590 PSI, 75X75 SPM, 760 PSI, WOULD NOT SYNC, SLIGHT LOSSES. RECYCLE PUMPS, PARALLEL, 85X85 SPM, 998 PSI, WOULD NOT SYNC, RECYCLE PUMPS, PARALLEL PUMPS 100X100, 1290 PSI, WOULD NOT SYNC. POSSIBILITY FILTER SUB, PACKED OFF
13:00	14:15	1.25	U_DIR	PN	POOH FROM 176'-45' FILTER SUB, BREAK OUT.
14:15	14:30	0.25	U_DIR	PN	BREAK OUT FILTER SUB, FULL OF LCM, CLEAN OUT LCM, RE-INSTALL.
14:30	14:45	0.25	U_DIR	PN	M/U FILTER SUB, RIH W/ THRUSTER, P/U 1 JT DP, M/U TDS
14:45	15:00	0.25	U_DIR	PN	CIRC W/ 2 PUMPS, 80X80 SPM, 740 PSI, TRUE-TRAK WOULD NOT SYNC. RECYCLE PUMPS. CIRC 100X100, 1170 PSI, TRU-TRAK WOULD NOT SYNC.
15:00	16:45	1.75	U_DIR	PN	POOH TO THRUSTER.
16:45	17:45	1.00	U_DIR	PN	L/D THRUSTER & PLUGGED TRU-TRAK. P/U NEW TRU-TRAK & THRUSTER.
17:45	21:15	3.50	U_DIR	PN	TIH TO 166', BROKE CIRCULATION AT SLOW RATE AND BROUGHT PUMPS UP TO 85X85 SPM, DID NOT SYNC, PUMPS TO 90X90 SPM (TRU TRAK TOOL WORKING), WASHED TO BOTTOM @ 176'.
21:15	22:15	1.00	U_OTR	PN	PROBLEMS GETTING PDC BIT BREAKER IN & OUT OF ROTARY TABLE & BREAKING BIT. ROTARY TABLE IS 27-1/2" (HAS MULTIPLE HITS DISFIGURING SAME). BIT BREAKER IS 27".
22:15	23:45	1.50	SLDDRLG	PP	SLIDE DRILL 17-1/2" HOLE, FROM, 176'-206' IN 25 MINUTES, PUMPS 90X90 SPM, 733 GPM, 980 PSI, BIT RPM 117, WOB 0-3K, NO LOSSES PICK UP (1) 8" DC, BRING PUMPS ON LINE, 90X90 SPM, TRU TRAK TOOL WOULD NOT SYNC.
23:45	03:00	3.25	U_DIR	PN	RECYCLE PUMPS SERVAL TIMES FROM 80X80 TO 100X100 SPM, TRU TRAK TOOL WOULD NOT DECODE, NOR SYNC DATA. BAKER HUGHES DD CONTACTED THEIR CASPER OFFICE, DISCUSSED NON PULSATING ISSUE, TECH SUPPORT DETERMINED THE TOOL NEEDED TO BE PULLED AND L/D.
03:00	06:00	3.00	U_DIR	PN	POOH FROM 206'-45'.

Mud Properties

Daily Cost: 7,355.15 Cost Cum Cost: 27,329.75 Cost

Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	T Flowline (°F)
03:00	Water Base	206.0	8.50	50	

PV (cp)	YP (lbf/100ft²)	Filtrate (mL/30min)	HTHP Filtrate (mL/30...	HTHP Pressure (psi)	HTHP Temperature (°F)
12.0	12.000	8.0			

Solids (%)	Sand (%)	MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)
1.2		22.5	10.5	0.700	0.3

Chlorides (ppm)	Calcium (ppm)	Oil Water Ratio	Electric Stab (V)	Lime (lb/bbl)	Low Gravity Solids (%)
120.000		0/100			

Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Comment
10.000	8.000	

Total AFE + Sup (Cost)
9,064,000.00

AFE Job Cost Summary

Cost Type	AFE Amt (Cost)
DHC	7,600,000.00
CWC	1,464,000.00

Field Estimate Job Cost Summary

Cost Type	Field Est (Cost)
DHC	1,394,793.12

Daily Summary

Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
136,722.00	1,394,793.12
Daily Mud Field Est (Cost)	**Cum Mud Field Est (Cost)**
7,355.15	27,329.75

POL (Personnel on Location)
25.0

Daily Contacts

Job Contact	Title
Dean Baker	Sr. Drlg. Foreman
Derrick Berry	Drlg. Foreman

Personnel Log

Company	Count
PIONEER NATURAL RESOURCES	1
PIONEER NATURAL RESOURCES	1
NABORS DRILLING INC	1
NABORS DRILLING INC	13
BAKER HUGHES INTEQ	2
ZECO	2
SELMA	2
NEWPARK	1
BADLANDZER	2

Weather

Precipitation Amount (in)	Precipitation Type
Temperature - High (°F)	**Temperature - Low (°F)**

Comment

NABORS DRILLING, 169

Rig Type
Drilling - Triple

Rig Start Date	Rig Release Date

2, NATIONAL, 10-P-130

Pump Number
2

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6 1/2	10.00	0.097

Max Pressure (psi)

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

NABORS DRILLING, 169

Rig Type
Drilling - Triple

Rig Start Date	Rig Release Date

1, National Supply, 10-P-130

Pump Number
1

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6 1/2	10.00	0.097

Max Pressure (psi)

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

Job Supply Amounts

Supply Item Des	Unit Label	Received	Consumed	Cum On Loc

Mud Additive Amounts

Des	Consumed	Cum Cons
BULK TANK	2	24
BULK TANK BLOWERS	1	12
Caustic Soda	6	6
Cedar Fiber	128	240
Dyna Fiber Cor	2	150
Mica F	24	168
MUD ENGINEER	1	12
MUD LAB	1	5

Safety Summary

BOP Test Date	Last BOP Test	BOP Func Due	HSE Incident	HSE Inc Remark

9/24/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 9/24/2010
REPORT: 29
DOL: 29.00
DFS: 1.60

Rig Name: NABORS DRILLING 169

Depth Progress: 30.00

Daily Summary

Bottom Hole Assembly

BHA Since Insp (hr)	BHA Wt BelowJar (1000lbf)	Hrs on Jars (hr)

BHA #1 , Steerable

Bit Run	Drill Bit	Bit Type	Make
1	17 1/2in, HCD507Z, 7019893	PDC	HUGHES

Nozzles (1/32")	IADC Codes	IADC Bit Dull
16/16/16/16/16/16/16	___	0-0-NO-A-X-0-NO-DMF

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)
1.37	2.60	101.00

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)
2.10	71.00	33.8	105.0	176.0

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
1	Drill Pipe	5	4.276	31.05	209.11
1	X/O	6 3/8	2.813	3.57	178.06
1	X/O	6 1/2	2.813	2.92	174.49
3	8" DC's	8	2.875	91.36	171.57
1	Mechanical Thruster	7 7/8	3.563	30.11	80.21
1	Filter Sub	8	2.875	4.88	50.10
1	Float Sub	8 1/16	2.938	2.49	45.22
1	X/O	8 1/4	3.000	3.12	42.73
1	Stop Sub	9 1/2	3.500	1.46	39.61
1	9-1/2" Tru-Trak, Adjustable Pads, w/ Stab	9 1/2		36.60	38.15

Drilling Parameters

168.0 - 176.0 ftKB

Start (ftKB)	End Depth...	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note
168.0	176.0	5.0	3			733	980.0	

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100...	SO Str Wt (100...	Drill Str Wt (100...	Torque Units	Drilling Torque	Off Btm Tq
1.60	6.75	50	50	50			

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/...	Max Open Hole AV (ft...
96.4	0.4	171.2	225.6	14.3	83.2

BHA #2 , Steerable

Bit Run	Drill Bit	Bit Type	Make
2, RR#1	17 1/2in, HCD507Z, 7019893	PDC	HUGHES

Nozzles (1/32")	IADC Codes	IADC Bit Dull
16/16/16/16/16/16/16	___	-------

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)
1.37	2.60	101.00

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)
0.50	30.00	60.0	176.0	206.0

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
	Drill Pipe	5	4.276		1,286.20
25	HWDP	5	3.000	767.98	1,286.20
1	Jars	6 3/8	2.875	32.57	518.22
1	HWDP	5	3.000	30.72	485.65
1	X/O	6 3/8	2.813	3.57	454.93
6	6-1/2" DC's	6 1/2	2.875	184.03	451.36
1	X/O	6 1/2	2.813	2.92	267.33
6	8" DC's	8	2.875	183.85	264.41
1	Mechanical Thruster	7 7/8	3.563	30.11	80.56
1	Filter Sub	8	2.875	4.88	50.45
1	Float Sub	8 1/16	2.938	2.49	45.57
1	X/O	8 1/4	3.000	3.12	43.08
1	Stop Sub	9 1/2	3.500	1.46	39.96
1	9-1/2" True Trak, Adjustable Pads w/ Stab	9 1/2		36.95	38.50

Drilling Parameters

176.0 - 206.0 ftKB

Start (ftKB)	End Depth...	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note
176.0	206.0	60.0	3			733	950.0	

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100...	SO Str Wt (100...	Drill Str Wt (100...	Torque Units	Drilling Torque	Off Btm Tq
0.50							

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/...	Max Open Hole AV (ft...

Casing Strings

Prop Run?	Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
Yes	Conductor	105.0		30	ERW	118.00		

Plug Back Total Depths

Date	Depth (ftKB)	Type	Method

Deviation Surveys

<des>, Proposed? <proposed>

Date	Description	Job

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)

Mud Additive Amounts

Des	Consumed	Cum Cons
NewPac R	5	5
NewZan D	2	2
PALLETS	1	2
SHRINK WRAP	1	2
Soda Ash	5	9
Trucking	1	2

Formations

Formation Name	Final Top MD (ftKB)
Quaternary	
Tertiary Volcanic	
Tertiary Undivided	
North Horn	
UNCONFORMITY	
Arapien	
FAULT	
Arapien	
Twin Creek	
Gypsum Sprgs Mbr	
Navajo	
Chinle	
TD	

Safety Summary

9/24/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 9/25/2010
REPORT: 30
DOL: 29.19
DFS: 2.60

Rig Name: NABORS DRILLING 169

Depth Progress: 0.00

Daily Summary

Property Sub	Field Name	API/UWI	Spud Date
327560-001	WILDCAT	43-023-30021-0000	9/22/2010

KB-Ground Distance (ft)	Original KB Elevation (ft)	KB-Mud Line Distance (ft)
25.00	5,264.00	

Daily Operations

Target Depth (ftKB)	Target Depth (TVD) (ftKB)	End Depth (ftKB)	End Depth (TVD) (ftKB)
9,040.0		206.0	

Footage/Meterage (ft)	24 HR ROP (ft/hr)	Drilling Hours (hr)
0.00	0.0	0.50

Avg Connection Gas	Avg Trip Gas	Avg Background Gas	Max Connection Gas	Max Trip Gas	Max Drill Gas

Operations at Report Time
POOH, STANDING BACK DRILL COLLARS

Operations Summary
GRIND ROTARY BUSHINGS, BREAK BIT, LAY DOWN TRU-TRAK MOTOR. RIH W/ 5" HWDP, OPEN ENDED TO 184'. CIRC, REMOVED LCM FROM MUD BY SOLID CONTROL EQUIPMENT. POOH W/ 5" HWDP AND RACK BACK 2 STANDS, M/U BHA W/ NEW TRU TRACK TOOL, RIH TO 170'

Remarks
NO ACCIDENTS OR SPILLS REPORTED

Operations Next Report Period
DRILLING 17-1/2" SURFACE HOLE

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com
06:00	07:15	1.25	U_OTR	PN	CANNOT GET PDC BIT BREAKER LEGS, TO GO IN ROTARY TABLE BUSHING SLOTS. GRIND ROTARY BUSHING SLOTS TO INSTALL BIT BREAKER.
07:15	07:45	0.50	U_OTR	PN	BREAK BIT (PROBLEMS W/ SETTING PDC BIT BREAKER IN ROTARY BUSHINGS)
07:45	09:45	2.00	U_OTR	PN	CANNOT BREAK OUT, T-2 X7-5/8 REG, X/O SUB, IN TOP OF MOTOR. R/U & L/D MOTOR.
09:45	10:00	0.25	U_OTR	PN	MOVE 5" HWDP TO HYDRAULIC CATWALK & STRAP
10:00	10:45	0.75	U_OTR	PN	P/U 5" HWDP, TIH OPEN ENDED TO 184'
10:45	12:00	1.25	U_OTR	PN	CIRC AT 184', 75X75 SPM.. CANNOT START SHAKERS -- CONTROL TRANSFORMER ON BOTH SHAKERS DEFECTIVE.
12:00	19:15	7.25	U_RIG	PN	SHUT DOWN CIRC -- WAIT ON NABORS ELECTRICIAN (ARRIVED AT 19:15 HRS) TO REPAIR CONTROL TRANSFORMERS ON SHAKERS. PROCESSING MUD IN SURFACE TANKS, THROUGH ZECO MUD CLEANER & CENTRIFUGE. MUD CLEANER & CENTRIFUGE KICKING OUT LARGE QUANTITIES LCM.
19:15	22:30	3.25	U_OTR	PN	ELECTRICIAN REPAIRED CONTROL TRANSFORMERS ON BOTH SHALE SHAKERS.
22:30	01:00	2.50	U_OTR	PN	CIRC AT 184', 100X100 SPM, OVER SHAKERS, RUNNING BOTH MUD CLEANERS & CENTRIFUGE. CLEANED UP MUD
01:00	01:30	0.50	U_OTR	PN	POOH AND RACKED BACK 2 STANDS OF 5" HWDP
01:30	06:00	4.50	U_OTR	PN	P/U NEW TRU-TRAK. M/U PDC BIT & THRUSTER, RIH W/ (1) STAND 8" DC'S TO 170'

Mud Properties

Daily Cost: 2,346.00 Cost Cum Cost: 30,227.75 Cost

Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	T Flowline (°F)
06:00		206.0	8.50	46	

PV (cp)	YP (lbf/100ft²)	Filtrate (mL/30min)	HTHP Filtrate (mL/30...	HTHP Pressure (psi)	HTHP Temperature (°F)
9.0	7.000	12.0			

Solids (%)	Sand (%)	MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)
3.0		20.5	10.0	0.600	0.3

Chlorides (ppm)	Calcium (ppm)	Oil Water Ratio	Electric Stab (V)	Lime (lb/bbl)	Low Gravity Solids (%)
120.000		0/100			1.2

Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Comment
4.000	4.000	

Bottom Hole Assembly

BHA Since Insp (hr)	BHA Wt BelowJar (1000lbf)	Hrs on Jars (hr)

BHA #1 , Steerable

Bit Run	Drill Bit	Bit Type	Make
1	17 1/2in, HCD507Z, 7019893	PDC	HUGHES

Nozzles (1/32")	IADC Codes	IADC Bit Dull
16/16/16/16/16/16	___	0-0-NO-A-X-0-NO-DMF

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)
1.37	2.00	101.00

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)
1.00	71.00	71.0	105.0	176.0

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
1	Drill Pipe	5	4.276	31.05	270.13
1	X/O	6 3/8	2.813	3.57	239.08
1	X/O	6 1/2	2.813	2.92	235.51
5	8" DC's	8	2.875	152.38	232.59
1	Mechanical Thruster	7 7/8	3.563	30.11	80.21
1	Filter Sub	8	2.875	4.88	50.10
1	Float Sub	8 1/16	2.938	2.49	45.22
1	X/O	8 1/4	3.000	3.12	42.73
1	Stop Sub	9 1/2	3.500	1.46	39.61
1	9-1/2" Tru-Trak, Adjustable Pads, w/ Stab	9 1/2		36.60	38.15

Total AFE + Sup (Cost)
9,064,000.00

AFE Job Cost Summary

Cost Type	AFE Amt (Cost)
DHC	7,600,000.00
CWC	1,464,000.00

Field Estimate Job Cost Summary

Cost Type	Field Est (Cost)
DHC	1,462,474.12

Daily Summary

Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
68,981.00	1,462,474.12

Daily Mud Field Est (Cost)	Cum Mud Field Est (Cost)
2,346.00	30,227.75

POL (Personnel on Location)
25.0

Daily Contacts

Job Contact	Title
Dean Baker	Sr. Drlg. Foreman
Derrick Berry	Drlg. Foreman

Personnel Log

Company	Count
PIONEER NATURAL RESOURCES	1
PIONEER NATURAL RESOURCES	1
NABORS DRILLING INC	1
NABORS DRILLING INC	13
BAKER HUGHES INTEQ	2
ZECO	2
SELMA	2
NEWPARK	1
BADLANDZER	2

Weather

Precipitation Amount (in)	Precipitation Type

Temperature - High (°F)	Temperature - Low (°F)

Comment

NABORS DRILLING, 169

Rig Type
Drilling - Triple

Rig Start Date	Rig Release Date
9/22/2010	

1, National Supply, 10-P-130

Pump Number
1

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6 1/2	10.00	0.097

Max Pressure (psi)

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

2, National Supply, 10-P-130

Pump Number
2

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6 1/2	10.00	0.097

Max Pressure (psi)

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

Job Supply Amounts

Supply Item Des	Unit Label	Received	Consumed	Cum On Loc
Diesel Fuel	gal us	6,958		6,958

Mud Additive Amounts

Des	Consumed	Cum Cons
BULK TANK	2	26
BULK TANK BLOWERS	1	13
MUD ENGINEER	1	13
MUD LAB	1	6
Trucking	1	3

Formations

Formation Name	Final Top MD (ftKB)
Quaternary	
Tertiary Volcanic	
Tertiary Undivided	
North Horn	
UNCONFORMITY	

Safety Summary

BOP Test Date	Last BOP Test	BOP Func Due	HSE Incident	HSE Inc Remark
				NONE

9/25/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 9/25/2010
REPORT: 30
DOL: 29.19
DFS: 2.60

Rig Name: NABORS DRILLING 169

Depth Progress: 0.00

Daily Summary

Drilling Parameters

168.0 - 176.0 ftKB

Start (ftKB)	End Depth...	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note
168.0	176.0	16.0	3			733	980.0	

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100...	SO Str Wt (100...	Drill Str Wt (100...	Torque Units	Drilling Torque	Off Btm Tq
0.50	6.75	50	50	50			

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/...	Max Open Hole AV (ft...
96.4	0.4	171.2	225.6	14.6	83.2

176.0 - <depthend> ftKB

Start (ftKB)	End Depth...	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note
176.0								

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100...	SO Str Wt (100...	Drill Str Wt (100...	Torque Units	Drilling Torque	Off Btm Tq
0.00							

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/...	Max Open Hole AV (ft...

BHA #2 , Steerable

Bit Run	Drill Bit	Bit Type	Make
2, RR#1	17 1/2in, HCD507Z, 7019893	PDC	HUGHES

Nozzles (1/32")	IADC Codes	IADC Bit Dull
16/16/16/16/16/16/16	___	-------

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)
1.37	2.00	101.00

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)
1.00	30.00	30.0	176.0	206.0

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
	Drill Pipe	5	4.276		270.90
1	X/O	6 3/8	2.813	3.57	270.90
1	X/O	6 1/2	2.813	2.92	267.33
4	8" DC's	8	2.875	183.85	264.41
1	Mechanical Thruster	7 7/8	3.563	30.11	80.56
1	Filter Sub	8	2.875	4.88	50.45
1	Float Sub	8 1/16	2.938	2.49	45.57
1	X/O	8 1/4	3.000	3.12	43.08
1	Stop Sub	9 1/2	3.500	1.46	39.96
1	9-1/2" True Trak, Adjustable Pads w/ Stab	9 1/2		36.95	38.50

Drilling Parameters

206.0 - 206.0 ftKB

Start (ftKB)	End Depth...	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note
206.0	206.0	0.0	3			733		

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100...	SO Str Wt (100...	Drill Str Wt (100...	Torque Units	Drilling Torque	Off Btm Tq
0.50							

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/...	Max Open Hole AV (ft...

BHA #3 , Steerable

Bit Run	Drill Bit	Bit Type	Make
3, RR#2	17 1/2in, HCD507Z, 7019893	PDC	HUGHES

Nozzles (1/32")	IADC Codes	IADC Bit Dull
16/16/16/16/16/16/16	___	-------

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)
1.37	2.00	101.00

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)
			206.0	206.0

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
	Drill Pipe	5	4.276		1,285.74
25	HWDP	5	3.000	767.98	1,285.74
1	Jars	6 3/8	2.875	32.57	517.76
1	HWDP	5	3.000	30.72	485.19
1	X/O	6 3/8	2.813	3.57	454.47
6	6-1/2" DC's	6 1/2	2.875	184.03	450.90
1	X/O	6 1/2	2.813	2.92	266.87
6	8" DC's	8	2.875	183.85	263.95
1	Mechanical Thruster	7 7/8	3.563	30.11	80.10
1	Filter Sub	8	2.875	4.88	49.99
1	Float Sub	8 1/16	2.938	2.49	45.11
1	X/O	8 1/4	3.000	3.12	42.62
1	Stop Sub	9 1/2	3.500	1.25	39.50
1	9-1/2" True Trak, Adjustable Pads w/ Stab	9 1/2		36.70	38.25

Drilling Parameters

206.0 - 206.0 ftKB

Start (ftKB)	End Depth...	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note
206.0	206.0							

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100...	SO Str Wt (100...	Drill Str Wt (100...	Torque Units	Drilling Torque	Off Btm Tq
0.00							

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/...	Max Open Hole AV (ft...

Casing Strings

Prop Run?	Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
Yes	Conductor	105.0		30	ERW	118.00		

Formations

Formation Name	Final Top MD (ftKB)
Arapien	
FAULT	
Arapien	
Twin Creek	
Gypsum Sprgs Mbr	
Navajo	
Chinle	
TD	

Safety Summary

9/25/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 9/25/2010
REPORT: 30
DOL: 29.19
DFS: 2.60

Rig Name: NABORS DRILLING 169

Depth Progress: 0.00

Daily Summary

Plug Back Total Depths

Date	Depth (ftKB)	Type	Method

Deviation Surveys

<des>, Proposed? <proposed>

Date	Description	Job

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)

<des>, Proposed? <proposed>

Date	Description	Job

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)

Safety Summary

9/25/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 9/26/2010
REPORT: 31
DOL: 30.19
DFS: 3.60

Rig Name: NABORS DRILLING 169

Depth Progress: 954.00

Daily Summary

Property Sub	Field Name	API/UWI	Spud Date
327560-001	WILDCAT	43-023-30021-0000	9/22/2010

KB-Ground Distance (ft)	Original KB Elevation (ft)	KB-Mud Line Distance (ft)
25.00	5,264.00	

Daily Operations

Target Depth (ftKB)	Target Depth (TVD) (ftKB)	End Depth (ftKB)	End Depth (TVD) (ftKB)
9,040.0		1,160.0	

Footage/Meterage (ft)	24 HR ROP (ft/hr)	Drilling Hours (hr)
954.00	114.9	8.30

Avg Connection Gas	Avg Trip Gas	Avg Background Gas	Max Connection Gas	Max Trip Gas	Max Drill Gas

Operations at Report Time
DRLG @ 1160'

Operations Summary
RIH WITH BHA TO 175', SYNC TRU-TRAK, DRILL FROM 206'-616', BROWN OUT(CAT ENGINES OVERHEATING), DRILL FROM 616'-1011', BROWN OUT(ENGINE FUEL VALVE SHUT ACCIDENTLY), DRILL FROM 1011'-1160

Remarks
NO ACCIDENTS OR SPILLS REPORTED

Operations Next Report Period
DRILLING 17-1/2" SURFACE HOLE

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com
06:00	06:45	0.75	U_OTR	PN	RIH W/ 8" DC'S TO 175
06:45	07:30	0.75	U_OTR	PN	BREAK CIRC @ 175', 1 PUMP 50 SPM, 204 GPM, 125 PSI, PARALLEL PUMPS 50X50 SPM, 407 GPM, 295 PSI, NO LOSSES, INC TO 85X85 SPM, 780 PSI, NO LOSSES. RECYCLE PUMPS, 90X90 SPM, 407 GPM, 810 PSI, NO LOSSES, RECYCLE PUMPS, 100X100 SPM, 815 GPM, 915 PSI, TRU-TRAK SYNC'D. WASH FROM 175'-206', 85X85 SPM, 780 PSI, NO LOSSES
07:30	15:15	7.75	SLDDRLG	PP	SLIDE DRILL FROM 206' TO 549' (P/U 8" DC'S & 6-1/2" DC'S), PUMPS 70X70-85X85 SPM, 570-693 GPM, 650-1000 PSI, WOB 1-14K, BIT 98-111 RPM, PUMPING 30 BBLS, 100 VIS, 25 PPB LCM PILLS, AFTER MAKING CONN'S & MIDDLE OF EACH JOINT/STAND DURING DRILLING. SYNC TRU-TRAK EVERY CONN. DRILL FROM 206'-239' = 33', 13 MIN = 2.5'/MIN, PUMPS 75X75 SPM, 611 GPM, 690 PSI, WOB 2K+/-, BIT RPM 91, 145 BBL LOSS, MASSIVE AMOUNTS SAND & PEE GRAVEL OVER SHAKERS DRILL FROM 239'-271' = 32', 15 MIN = 2.1'/MIN, PUMPS 75X75 SPM, 611 GPM, 690 PSI, WOB 3K+/-, BIT RPM 97, 60 BBL LOSS, MASSIVE AMOUNTS SD & PEE GRAVEL BACK DRILL FROM 271'-302' = 31', 16 MIN = 1.9'/MIN, PUMPS 70X70 SPM, 570 GPM, 650 PSI, WOB 7-14K, BIT RPM 97, 125 BBL LOSS, MASSIVE AMOUNTS SD & PEE GRAVEL BACK DRILL FROM 302'-331' = 29', 16 MIN = 1.8'/MIN, PUMPS 80X80 SPM, 652 GPM, 750 PSI, WOB 5K+/-, BIT RPM 104, 50 BBL LOSS, MASSIVE AMOUNTS SD & PEE GRAVEL BACK DRILL FROM 331'-393' = 62', 27 MIN = 2.3'/MIN, PUMPS 80X80 SPM, 652 GPM, 780 PSI, WOB 4K+/-, BIT RPM 104, 75 BBL LOSS, MASSIVE AMOUNTS SD & PEE GRAVEL BACK DRILL FROM 393'-457' = 64', 36 MIN = 1.8'/MIN, PUMPS 85X85 SPM, 693 GPM, 850 PSI, WOB 5+/-, BIT RPM 111, 65 BBL LOSS, MASSIVE AMOUNTS SD & PEE GRAVEL BACK DRILL FROM 457-549' = 92', 35 MIN = 2.6'/MIN, PUMPS 85X85 SPM, 693 GPM, 1000 PSI, WOB 4K+/-, BIT RPM 111, 55 BBL LOSS, MASSIVE AMOUNTS SD & PEE GRAVEL BACK TOTAL ON BOTTOM ROTATING TIME = 2.6 HRS FMS FROM 206'-549': 80%+/- SD, 10%+/- VOLCANICS, 10%+/- DOLOMITE
15:15	16:15	1.00	SLDDRLG	PP	P/U 2 JTS HWDP & JARS
16:15	17:00	0.75	SLDDRLG	PP	SLIDE DRILL FROM 549'-616' (P/U 5" HWDP), PUMPS 90X90 SPM, 733 GPM, 1070 PSI, WOB 3-8K, BIT 117 RPM, PUMPING 30 BBLS, 100 VIS, 25 PPB LCM PILLS, AFTER MAKING CONN'S & MID WAY DOWN ON STAND. SYNC TRU-TRAK EVERY CONN. DRILL FROM 549'-616' = 67', 27 MIN = 2.5'/MIN, PUMPS 90X90, 733 GPM, 1090 PSI, WOB 4K, PUMPED (1) 30 BBL LCM PILL, MASSIVE AMOUNTS OF SD & PEE GRAVEL OVER SHAKERS TOTAL ON BOTTOM ROTATING TIME = 2.6 HRS + .5 HRS = 3.1 HRS FMS FROM 549'-616': 80%+/- SD, 10%+/- VOLCANICS, 10%+/- DOLOMITE
17:00	18:00	1.00	U_RIG	PN	RIG BROWN OUT -- COMPLETE SHUT DOWN OF D-399 CATS', OVERHEATED

Total AFE + Sup (Cost)
9,064,000.00

AFE Job Cost Summary

Cost Type	AFE Amt (Cost)
DHC	7,600,000.00
CWC	1,464,000.00

Field Estimate Job Cost Summary

Cost Type	Field Est (Cost)
DHC	1,520,982.57

Daily Summary

Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
61,508.45	1,520,982.57
Daily Mud Field Est (Cost)	**Cum Mud Field Est (Cost)**
4,308.45	34,992.20

POL (Personnel on Location)
25.0

Daily Contacts

Job Contact	Title
Dean Baker	Sr. Drlg. Foreman
Derrick Berry	Drlg. Foreman

Personnel Log

Company	Count
PIONEER NATURAL RESOURCES	1
PIONEER NATURAL RESOURCES	1
NABORS DRILLING INC	1
NABORS DRILLING INC	13
BAKER HUGHES INTEQ	2
ZECO	2
SELMA	2
NEWPARK	1
BADLANDZER	2

Weather

Precipitation Amount (in)	Precipitation Type
Temperature - High (°F)	**Temperature - Low (°F)**

Comment

NABORS DRILLING, 169

Rig Type
Drilling - Triple

Rig Start Date	Rig Release Date
9/22/2010	

1, National Supply, 10-P-130

Pump Number
1

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6 1/2	10.00	0.097

Max Pressure (psi)

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

2, National Supply, 10-P-130

Pump Number
2

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6 1/2	10.00	0.097

Max Pressure (psi)

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

Job Supply Amounts

Supply Item Des	Unit Label	Received	Consumed	Cum On Loc
Diesel Fuel	gal us	6,958		6,958

Mud Additive Amounts

Des	Consumed	Cum Cons
BULK TANK	2	28
BULK TANK BLOWERS	1	14
Cedar Fiber	-121	119
Mica F	39	207
MUD ENGINEER	1	14
MUD LAB	1	7
New Carb Med	55	181
NewGel	55	230
NewPac R	3	8
NewPHPA	3	9
PALLETS	1	3
SHRINK WRAP	1	3

Safety Summary

BOP Test Date	Last BOP Test	BOP Func Due	HSE Incident	HSE Inc Remark
				NONE

9/26/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 9/26/2010
REPORT: 31
DOL: 30.19
DFS: 3.60

Rig Name: NABORS DRILLING 169

Depth Progress: 954.00

Daily Summary

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com
18:00	02:00	8.00	SLDDRLG	PP	SLIDE DRILL FROM 616'-1011' (P/U 5" HWDP), PUMPS 85X85-100X100 SPM, 693-815 GPM, 1400- PSI, WOB 3-8K, BIT RPM 111-130, PUMPING 30 BBLS, 100 VIS, 25 PPB LCM PILLS, AFTER MAKING CONN'S & MID WAY DOWN ON STAND. SYNC TRU-TRAK EVERY CONN. DRILL FROM 616'-643' = 27', 12 MIN = 2.3'/MIN, PUMPS 85X85 SPM, 693 GPM, 980 PSI, WOB 4K+/-, BIT RPM 111, 45 BBL LOSS, MASSIVE AMOUNTS SD & PEE GRAVEL BACK DRILL FROM 643'-734' = 91', 45 MIN = 2.0'/MIN, PUMPS 90X90 SPM, 733 GPM, 1060 PSI, WOB 5K+/-, BIT RPM 117, 60 BBL LOSS, MASSIVE AMOUNTS SD & PEE GRAVEL BACK DRILL FROM 734'-825' = 91', 62 MIN = 1.5'/MIN, PUMPS 95X95 SPM, 774 GPM, 1180 PSI, WOB 6-8K+/-, BIT RPM 124, 45 BBL LOSS, MASSIVE AMOUNTS SD & PEE GRAVEL BACK DRILL FROM 825'-919' = 94', 42 MIN = 2.2'/MIN, PUMPS 100X100 SPM, 815 GPM, 1350 PSI, WOB 4-6K+/-, BIT RPM 130, 40 BBL LOSS, MASSIVE AMOUNTS SD & PEE GRAVEL BACK DRILL FROM 919'-1011' = 92', 40 MIN = 2.3'/MIN, PUMPS 100X100 SPM, 815 GPM, 1400 PSI, WOB 6-8K+/-, BIT RPM 130, 45 BBL LOSS, MASSIVE AMOUNTS SD & PEE GRAVEL BACK TOTAL ON BOTTOM ROTATING TIME = 3.1 HRS + 3.4 HRS = 6.5 HRS FMS FROM 616'-1011': 85%+/- SD, 10%+/- VOLCANICS, 5%+/- DOLOMITE
02:00	03:00	1.00	U_RIG	PN	RIG BROWN OUT -- COMPLETE SHUT DOWN OF D-399 CATS', (OPERATOR ERROR) MAIN FUEL VALVE SHUT IN.
03:00	06:00	3.00	SLDDRLG	PP	SLIDE DRILL FROM 1011'-1160' (P/U 5" HWDP), PUMPS 100X100 SPM, 815 GPM, 1070- 1675 PSI, WOB 3-8K, BIT RPM 130, PUMPING 30 BBLS, 100 VIS, 25 PPB LCM PILLS, AFTER MAKING CONN'S & MID WAY DOWN ON STAND. SYNC TRU-TRAK EVERY CONN. DRILL FROM 1011'-1100' = 89' = 55 MINS, 1.6'/MIN, PUMPS 100X100 SPM, 815 GPM, 1675 PSI, WOB 3-5K+/-, BIT RPM 130, 50 BBL LOSS, MASSIVE AMOUNTS SD & PEE GRAVEL BACK DRILL FROM 1100'-1160' = 60' = 50 MINS 1.2'/MIN, PUMPS 100X100 SPM, 815 GPM, 1675 PSI, WOB 3-5K+/-, BIT RPM 130, 40 BBL LOSS, MASSIVE AMOUNTS SD & PEE GRAVEL BACK TOTAL ON BOTTOM ROTATING TIME = 6.5 HRS + 1.8 HRS = 8.3 HRS FMS FROM 1011'-1160': 80%+/- SD, 15%+/- VOLCANICS, 5%+/- DOLOMITE

Mud Properties

Daily Cost: 4,308.45 Cost Cum Cost: 34,992.20 Cost

Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	T Flowline (°F)
00:00		1,100.0	8.50	48	

PV (cp)	YP (lbf/100ft²)	Filtrate (mL/30min)	HTHP Filtrate (mL/30...	HTHP Pressure (psi)	HTHP Temperature (°F)
12.0	10.000	10.0			

Solids (%)	Sand (%)	MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)
3.0		22.0	10.0	1.000	0.4

Chlorides (ppm)	Calcium (ppm)	Oil Water Ratio	Electric Stab (V)	Lime (lb/bbl)	Low Gravity Solids (%)
120.000		0/100			1.2

Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Comment
8.000	8.000	

Bottom Hole Assembly

BHA Since Insp (hr)	BHA Wt BelowJar (1000lbf)	Hrs on Jars (hr)

BHA #3 , Steerable

Bit Run	Drill Bit	Bit Type	Make
3, RR#2	17 1/2in, HCD507Z, 7019893	PDC	HUGHES

Nozzles (1/32")	IADC Codes	IADC Bit Dull
16/16/16/16/16/16	___	-------

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)
1.37	10.30	1,055.00

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)
8.30	954.00	114.9	206.0	1,160.0

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
	Drill Pipe	5	4.276		1,285.74
25	HWDP	5	3.000	767.98	1,285.74
1	Jars	6 3/8	2.875	32.57	517.76
1	HWDP	5	3.000	30.72	485.19
1	X/O	6 3/8	2.813	3.57	454.47
6	6-1/2" DC's	6 1/2	2.875	184.03	450.90
1	X/O	6 1/2	2.813	2.92	266.87
6	8" DC's	8	2.875	183.85	263.95
1	Mechanical Thruster	7 7/8	3.563	30.11	80.10
1	Filter Sub	8	2.875	4.88	49.99
1	Float Sub	8 1/16	2.938	2.49	45.11
1	X/O	8 1/4	3.000	3.12	42.62

Mud Additive Amounts

Des	Consumed	Cum Cons
Trucking	1	4
Wallnut Shell	48	48

Formations

Formation Name	Final Top MD (ftKB)
Quaternary	
Tertiary Volcanic	
Tertiary Undivided	
North Horn	
UNCONFORMITY	
Arapien	
FAULT	
Arapien	
Twin Creek	
Gypsum Sprgs Mbr	
Navajo	
Chinle	
TD	

Safety Summary

9/26/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 9/26/2010
REPORT: 31
DOL: 30.19
DFS: 3.60

Rig Name: NABORS DRILLING 169

Depth Progress: 954.00

Daily Summary

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
1	Stop Sub	9 1/2	3.500	1.25	39.50
1	9-1/2" True Trak, Adjustable Pads w/ Stab	9 1/2		36.70	38.25

Drilling Parameters

206.0 - 1,160.0 ftKB

Start (ftKB)	End Depth...	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note
206.0	1,160.0	114.9	5			815	1,650.0	

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100...	SO Str Wt (100...	Drill Str Wt (100...	Torque Units	Drilling Torque	Off Btm Tq
8.30		105	105	95			

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/...	Max Open Hole AV (ft...

Casing Strings

Prop Run?	Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
Yes	Conductor	105.0		30	ERW	118.00		

Plug Back Total Depths

Date	Depth (ftKB)	Type	Method

Deviation Surveys

<des>, Proposed? <proposed>

Date	Description	Job

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)

<des>, Proposed? <proposed>

Date	Description	Job

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)

Safety Summary

9/26/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 9/27/2010
REPORT: 32
DOL: 31.19
DFS: 4.60

Rig Name: NABORS DRILLING 169

Depth Progress: 444.00

Daily Summary

Property Sub	Field Name	API/UWI	Spud Date
327560-001	WILDCAT	43-023-30021-0000	9/22/2010

KB-Ground Distance (ft)	Original KB Elevation (ft)	KB-Mud Line Distance (ft)
25.00	5,264.00	

Daily Operations

Target Depth (ftKB)	Target Depth (TVD) (ftKB)	End Depth (ftKB)	End Depth (TVD) (ftKB)
9,040.0		1,604.0	

Footage/Meterage (ft)	24 HR ROP (ft/hr)	Drilling Hours (hr)
444.00	33.3	13.35

Avg Connection Gas	Avg Trip Gas	Avg Background Gas	Max Connection Gas	Max Trip Gas	Max Drill Gas

Operations at Report Time
DRLG @ 1604'

Operations Summary
SLIDE DRILL FROM 1160'-1287' (P/U 5" HWDP) COMPLETE BHA P/U, RIG BROWN OUT (D-399 OVERHEATED), CIRCULATE HOLE, SLIDE DRILL FROM 1287'-1330', POOH TO INSPECT BIT DUE TO CONSIDERABLE DROP IN ROP, CLEANED BIT, RIH AND BREAK CIRCULATION, SLIDE DRILL FROM 1330'-1604'

Remarks
NO ACCIDENTS OR SPILLS REPORTED

Operations Next Report Period
DRILLING 17-1/2" SURFACE HOLE

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com
06:00	08:45	2.75	SLDDRLG	PP	SLIDE DRILL FROM 1160'-1287' (P/U 5" HWDP), PUMPS 100X100 SPM, 815 GPM, REDUCED PUMP STKS TO 85X85 (DUE TO INCREASING TEMPT ON (2) D-399 CATS CURRENTLY ABLE TO RUN), 693 GPM, 1675-1950 PSI, WOB 10-20K, BIT RPM 130-111, PUMPING 30 BBLS, 100 VIS, 25 PPB LCM PILLS, AFTER MAKING CONN'S & MID WAY DOWN ON STAND. SYNC TRU-TRAK EVERY CONN. DRILL FROM 1160-1195' = 35', 45 MINS = .8'/MIN, PUMPS 100X100 REDUCED TO 85X85 SPM, 815-693 GPM, 1750 PSI, WOB 10K+/-, BIT RPM 130, 15 BBL LOSS, MASSIVE AMOUNTS SD & PEE GRAVEL BACK DRILL FROM 1195'-1287' = 92', 75 MINS = 1.2'/MIN, PUMPS 85X85 SPM, 693 GPM, 1950 PSI, WOB 15-20K, BIT RPM 130, 60 BBL LOSS, MASSIVE AMOUNTS SD & PEE GRAVEL BACK TOTAL ON BOTTOM ROTATING TIME = 8.3 HRS + 2 HRS = 10.3 HRS COMPLETE BHA P/U FMS 1160-1270': 80%+/- SD, 10%+/- VOLCANICS, 5%+/- DOLOMITE FMS CHANGE AT 1270'+/-: 60%+/- SD, 40%+/- VOLCANICS
08:45	09:15	0.50	RIGSER	PP	RIG BROWN OUT -- COMPLETE SHUT DOWN OF (2) D-399 CATS', OVERHEATING -- RUNNING ONLY 2, OUT OF (3) D-399'S ON RIG (1) D-399, HAS BEEN SHUT DOWN DUE TO OIL BLOWING INTO RADIATOR COOLER (LINES AND/OR FITTINGS, INSIDE OF COOLER, LEAKING OIL INTO WATER), RIG CREWS TEMPORARLY FIXED -- MECHANIC ON WAY TO REPAIR (1) D-399, RADIATOR EXTERNAL FINS PACKED WITH DIRT -- RUNS UNTIL GETS HOT, SHUTS DOWN -- MECHANIC ON WAY CAN RIG, RIG WATCH, NOT FUNCTIONAL -- WAITING ON SERVICE TECH
09:15	09:30	0.25	CLNBH	PP	CIRC HOLE, LOTS OF SAND & PEE GRAVEL OVER SHAKERS
09:30	10:15	0.75	DPIPE	PP	FINISH P/U LAST 3 JTS, 5" HWDP -- COMPLETE BHA P/U
10:15	13:45	3.50	SLDDRLG	PP	SLIDE DRILL FROM 1287-1330' = 43', 139 MINS = .3'/MIN, PUMPS 100X100 SPM, 815 GPM, 1750 PSI, WOB 10-40K, BIT RPM 130. ROP DROPPED FROM 1.2'/MIN TO .3'/MIN, DIFFERENTIAL PRESS DROPPED FROM 250-315 PSI TO 0-15 PSI. DRLG PARAMETERS, INDICATE CUTTERS ON BIT ARE WORN. PUMPED 50 BBLS, 100 VIS, 25 PPB LCM PILLS. SYNC TRU-TRAK ON CONN. PER MUD LOGGER, SAMPLES FROM REVERSE DRLG BREAK AT 1285' TO 1330', INDICATE HIGHLY DEFINED QUARTZ & VOLCANICS. FMS: 75%+/- QUARTZ, 25%+/- VOLCANICS TOTAL ON BOTTOM ROTATING TIME = 10.3 HRS + 2.3 HRS = 12.6 HRS
13:45	15:15	1.50	TRIP	PP	POOH FROM 1330' - 451'.
15:15	17:00	1.75	BHA	PP	POOH FROM 451' (DC'S) TO BIT
17:00	18:00	1.00	U_OTR	PN	BIT WAS PACKED SOLID WITH CLAYSTONE TYPE FMS. CLEANED PACKED CLAY OUT OF FLUID COURSES & OFF BIT FACE. BIT CUTTERS WERE GOOD. CHECKED NOZZLES, ALL OK, NO OBSTRUCTION. DID NOT BREAK BIT.
18:00	21:45	3.75	TRIP	PP	RIH TO FILTER SUB. BREAK OUT SUB. HAD SMALL NEEDLE SIZE TWIGS, APPROX 2 HANDFULL. TIH TO 1320'

Total AFE + Sup (Cost)
9,064,000.00

AFE Job Cost Summary

Cost Type	AFE Amt (Cost)
DHC	7,600,000.00
CWC	1,464,000.00

Field Estimate Job Cost Summary

Cost Type	Field Est (Cost)
DHC	1,585,653.57

Daily Summary

Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
64,671.00	1,585,653.57
Daily Mud Field Est (Cost)	**Cum Mud Field Est (Cost)**
7,320.25	41,358.45

POL (Personnel on Location)
25.0

Daily Contacts

Job Contact	Title
Dean Baker	Sr. Drlg. Foreman
Derrick Berry	Drlg. Foreman

Personnel Log

Company	Count
PIONEER NATURAL RESOURCES	1
PIONEER NATURAL RESOURCES	1
NABORS DRILLING INC	1
NABORS DRILLING INC	13
BAKER HUGHES INTEQ	2
ZECO	2
SELMA	2
NEWPARK	1
BADLANDZER	2

Weather

Precipitation Amount (in)	Precipitation Type
Temperature - High (°F)	**Temperature - Low (°F)**

Comment

NABORS DRILLING, 169

Rig Type
Drilling - Triple

Rig Start Date	Rig Release Date
9/22/2010	

1, National Supply, 10-P-130

Pump Number
1

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6 1/2	10.00	0.097

Max Pressure (psi)

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

2, National Supply, 10-P-130

Pump Number
2

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6 1/2	10.00	0.097

Max Pressure (psi)

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

Job Supply Amounts

Supply Item Des	Unit Label	Received	Consumed	Cum On Loc
Diesel Fuel	gal us	6,958		6,958

Mud Additive Amounts

Des	Consumed	Cum Cons
BULK TANK	2	30
BULK TANK BLOWERS	1	15
Caustic Soda	8	14
Dyna Fiber Cor	80	230
Lime	1	1
Mica F	33	240
MUD ENGINEER	1	15
MUD LAB	1	8
New Carb Med		181
New Gel HY	65	65
NewGel	50	280
NewPac R	2	10

Safety Summary

BOP Test Date	Last BOP Test	BOP Func Due	HSE Incident	HSE Inc Remark
				NONE

9/27/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 9/27/2010
REPORT: 32
DOL: 31.19
DFS: 4.60

Rig Name: NABORS DRILLING 169

Depth Progress: 444.00

Daily Summary

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com
21:45	22:00	0.25	WA	PP	WASH TO BOTTOM FROM 1310'-1330', BREAK CIRCULATION 50X50 SPM, INCREASE PUMPS TO 100X100 SPM, 815 GPM, 1800 PSI, WOB 0K, BIT RPM 130,
22:00	06:00	8.00	SLDDRLG	PP	SLIDE DRILL FROM 1330'-1604', PUMPS 105X105 SPM, 855 GPM, 1965 PSI, WOB 3-8K, BIT RPM 137, ON EACH CONN DROP DOWN DP -- 1 SOAP STICK & 1 VIS CUP OF PHPA, PUMPING 30 BBLS, 100 VIS, 25 PPB LCM PILLS, AFTER MAKING CONN'S & MID WAY DOWN ON STAND. SYNC TRU-TRAK EVERY CONN. DRILL FROM 1330'-1604' = 274', 423 MINS, 1.5'/MIN, PUMPS 105X105 SPM, 855 GPM, 1750-1950 PSI, WOB 3-5K+/-, BIT RPM 137, 15 BBL LOSS, MASSIVE AMOUNTS SD & PEE GRAVEL BACK TOTAL ON BOTTOM ROTATING TIME = 8.3 HRS + 7.1 HRS = 15.4 HRS FMS FROM 1330'-1604': 35%+/- SDSTONE, 65%+/- VOLCANICS

Mud Properties

Daily Cost: 7,320.25 Cost Cum Cost: 41,358.45 Cost

Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	T Flowline (°F)
03:00		1,538.0	8.50	52	

PV (cp)	YP (lbf/100ft²)	Filtrate (mL/30min)	HTHP Filtrate (mL/30...	HTHP Pressure (psi)	HTHP Temperature (°F)
12.0	10.000	8.0			

Solids (%)	Sand (%)	MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)
3.0		22.0	10.0	0.600	0.2

Chlorides (ppm)	Calcium (ppm)	Oil Water Ratio	Electric Stab (V)	Lime (lb/bbl)	Low Gravity Solids (%)
120.000		0/100			2.6

Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Comment
8.000	7.000	

Bottom Hole Assembly

BHA Since Insp (hr)	BHA Wt BelowJar (1000lbf)	Hrs on Jars (hr)

BHA #3 , Steerable

Bit Run	Drill Bit	Bit Type	Make
3, RR#2	17 1/2in, HCD507Z, 7019893	PDC	HUGHES

Nozzles (1/32")	IADC Codes	IADC Bit Dull
16/16/16/16/16/16/16	___	-------

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)
1.37	23.65	1,559.00

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)
14.55	1,124.00	77.3	206.0	1,330.0

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
	Drill Pipe	5	4.276		1,285.74
25	HWDP	5	3.000	767.98	1,285.74
1	Jars	6 3/8	2.875	32.57	517.76
1	HWDP	5	3.000	30.72	485.19
1	X/O	6 3/8	2.813	3.57	454.47
6	6-1/2" DC's	6 1/2	2.875	184.03	450.90
1	X/O	6 1/2	2.813	2.92	266.87
6	8" DC's	8	2.875	183.85	263.95
1	Mechanical Thruster	7 7/8	3.563	30.11	80.10
1	Filter Sub	8	2.875	4.88	49.99
1	Float Sub	8 1/16	2.938	2.49	45.11
1	X/O	8 1/4	3.000	3.12	42.62
1	Stop Sub	9 1/2	3.500	1.25	39.50
1	9-1/2" True Trak, Adjustable Pads w/ Stab	9 1/2		36.70	38.25

Drilling Parameters

1,160.0 - 1,330.0 ftKB

Start (ftKB)	End Depth...	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note
1,160.0	1,330.0	27.2	5			815	1,650.0	

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100...	SO Str Wt (100...	Drill Str Wt (100...	Torque Units	Drilling Torque	Off Btm Tq
6.25		105	105	95			

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/...	Max Open Hole AV (ft...

BHA #4 , Steerable

Bit Run	Drill Bit	Bit Type	Make
4, RR#3	17 1/2in, HCD507Z, 7019893	PDC	HUGHES

Nozzles (1/32")	IADC Codes	IADC Bit Dull
16/16/16/16/16/16	___	-------

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)
1.37	23.65	1,559.00

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)
7.10	274.00	38.6	1,330.0	1,604.0

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
10	Drill Pipe	5	4.276	319.00	1,604.74
25	HWDP	5	3.000	767.98	1,285.74
1	Jars	6 3/8	2.875	32.57	517.76
1	HWDP	5	3.000	30.72	485.19

Mud Additive Amounts

Des	Consumed	Cum Cons
PALLETS	1	4
SHRINK WRAP	1	4
Soda Ash	6	15
Trucking	1	5
Wallnut Shell	36	84

Formations

Formation Name	Final Top MD (ftKB)
Quaternary	
Tertiary Volcanic	
Tertiary Undivided	
North Horn	
UNCONFORMITY	
Arapien	
FAULT	
Arapien	
Twin Creek	
Gypsum Sprgs Mbr	
Navajo	
Chinle	
TD	

Safety Summary

9/27/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 9/27/2010
REPORT: 32
DOL: 31.19
DFS: 4.60

Rig Name: NABORS DRILLING 169

Depth Progress: 444.00

Daily Summary

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
1	X/O	6 3/8	2.813	3.57	454.47
6	6-1/2" DC's	6 1/2	2.875	184.03	450.90
1	X/O	6 1/2	2.813	2.92	266.87
6	8" DC's	8	2.875	183.85	263.95
1	Mechanical Thruster	7 7/8	3.563	30.11	80.10
1	Filter Sub	8	2.875	4.88	49.99
1	Float Sub	8 1/16	2.938	2.49	45.11
1	X/O	8 1/4	3.000	3.12	42.62
1	Stop Sub	9 1/2	3.500	1.25	39.50
1	9-1/2" True Trak, Adjustable Pads w/ Stab	9 1/2		36.70	38.25

Drilling Parameters

1,330.0 - 1,604.0 ftKB

Start (ftKB)	End Depth...	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note
1,330.0	1,604.0	38.6	5		200.0	855	1,950.0	

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100...	SO Str Wt (100...	Drill Str Wt (100...	Torque Units	Drilling Torque	Off Btm Tq
7.10		111	111	111			

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/...	Max Open Hole AV (ft...
154.0	0.6	200.2	308.7	16.5	97.0

Casing Strings

Prop Run?	Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
Yes	Conductor	105.0	105.0	30	ERW	118.00		

Plug Back Total Depths

Date	Depth (ftKB)	Type	Method

Deviation Surveys

Tru-Trak, Proposed? No

Date	Description	Job
9/23/2010	Tru-Trak	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
9/26/2010	1,163.00	0.09	0.00	1,162.98	5.25	5.25	0.00	0.00
9/26/2010	1,257.00	0.09	0.00	1,256.98	5.40	5.40	0.00	0.00
9/26/2010	1,350.00	0.18	0.00	1,349.98	5.62	5.62	0.00	0.10
9/26/2010	1,445.00	0.18	0.00	1,444.98	5.92	5.92	0.00	0.00
9/26/2010	1,550.00	0.09	0.00	1,549.98	6.17	6.17	0.00	0.09

Safety Summary

9/27/2010

PIONEER NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 9/28/2010
REPORT: 33
DOL: 32.19
DFS: 5.60

Rig Name: NABORS DRILLING 169

Depth Progress: 527.00

Daily Summary

Property Sub	Field Name	API/UWI	Spud Date
327560-001	WILDCAT	43-023-30021-0000	9/22/2010

KB-Ground Distance (ft)	Original KB Elevation (ft)	KB-Mud Line Distance (ft)
25.00	5,264.00	

Daily Operations

Target Depth (ftKB)	Target Depth (TVD) (ftKB)	End Depth (ftKB)	End Depth (TVD) (ftKB)
9,040.0		2,131.0	

Footage/Meterage (ft)	24 HR ROP (ft/hr)	Drilling Hours (hr)
527.00	31.4	16.80

Avg Connection Gas	Avg Trip Gas	Avg Background Gas	Max Connection Gas	Max Trip Gas	Max Drill Gas

Operations at Report Time
DRLG @ 2131'

Operations Summary
SLIDE DRILL FROM 1604'-2131', AIREATED MUD (ADD DEFOAMER TO KN0CK OUT AIR)

Remarks
NO ACCIDENTS OR SPILLS REPORTED

Operations Next Report Period
DRILLING 17-1/2" SURFACE HOLE

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com
06:00	18:00	12.00	SLDDRLG	PP	SLIDE DRILL FROM 1604'-1834', PUMPS 105X105 TO 110X110 SPM, 855-888 GPM, 1965-2185 PSI, WOB 3-8K, BIT RPM 137-142, ON EACH CONN DROP DOWN DP -- 1 SOAP STICK & 1 VIS CUP OF PHPA, PUMPING 30 BBLS, 100 VIS, 25 PPB LCM PILLS, AFTER MAKING CONN'S & MID WAY DOWN ON STAND. SYNC TRU-TRAK EVERY CONN. NO LOSSES. DRILL 1604'-1834' = 230', ON BOTTOM ROTATING TIME 638 MINS, ROP 2.8'/MIN TOTAL ON BOTTOM ROTATING TIME = 15.4 HRS + 10.6 HRS = 26.0 HRS FMS FROM 1604'-1834': 20%+/- SDSTONE, 80%+/- VOLCANICS
18:00	19:30	1.50	U_OTR	PN	MUD FOAMED UP, ADDED DEFOAMER TO MUD TANKS, #1 PUMP - CAVATITING. PULLED INTAKE & EXHAUST VALVES - OK. CANNOT DRILL AHEAD WITH 1 PUMP.
19:30	20:00	0.50			SYNC TOOL
20:00	22:00	2.00	SLDDRLG	PP	SLIDE DRILL FROM 1834'-1947', PUMPS 110X110 SPM, 888 GPM, 2150 PSI, WOB 3-10K, BIT RPM 142, ON EACH CONN DROP DOWN DP -- 1 SOAP STICK & 1 VIS CUP OF PHPA, PUMPING 30 BBLS, 100 VIS, 25 PPB LCM PILLS, AFTER MAKING CONN'S & MID WAY DOWN ON STAND. SYNC TRU-TRAK EVERY CONN. NO LOSSES. ADDING DEFOAMER IN MUD TANKS. DRILL 1834'-1947'= 113', ON BOTTOM ROTATING TIME 147 MINS, ROP .65'/MIN TOTAL ON BOTTOM ROTATING TIME = 26.0 HRS + 2.45 HRS = 28.45 HRS FMS FROM 1834'-1947': 45%+/- GRANITE WASH 30%+/- SDSTONE, 25%+/- LIMESTONE
22:00	22:30	0.50	RIGSER	PP	RIG SERVICE (TOP DRIVE INSPECTION)
22:30	06:00	7.50	SLDDRLG	PP	SLIDE DRILL FROM 1947'-2131', PUMPS 110X110 SPM, 888 GPM, 2300 PSI, WOB 3-10K, BIT RPM 142, ON EACH CONN DROP DOWN DP -- 1 SOAP STICK & 1 VIS CUP OF PHPA, PUMPING 30 BBLS, 100 VIS, 25 PPB LCM PILLS, AFTER MAKING CONN'S & MID WAY DOWN ON STAND. SYNC TRU-TRAK EVERY CONN. NO LOSSES. ADDING DEFOAMER IN MUD TANKS. DRILL 1947'-2131'= 184', ON BOTTOM ROTATING TIME 229 MINS, ROP .8'/MIN TOTAL ON BOTTOM ROTATING TIME = 28.45 HRS + 3.8 HRS = 32.25 HRS FMS FROM 1834'-1947': 45%+/- GRANITE WASH 30%+/- SDSTONE, 25%+/- LIMESTONE

Mud Properties

Daily Cost: 8,311.65 Cost Cum Cost: 49,670.10 Cost

Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	T Flowline (°F)
06:00		2,043.0	8.50	49	

PV (cp)	YP (lbf/100ft²)	Filtrate (mL/30min)	HTHP Filtrate (mL/30...	HTHP Pressure (psi)	HTHP Temperature (°F)
12.0	10.000	9.0			

Solids (%)	Sand (%)	MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)
3.0		22.5	10.0	0.700	0.2

Chlorides (ppm)	Calcium (ppm)	Oil Water Ratio	Electric Stab (V)	Lime (lb/bbl)	Low Gravity Solids (%)
120.000		0/100			1.2

Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Comment
8.000	7.000	

Bottom Hole Assembly

BHA Since Insp (hr)	BHA Wt BelowJar (1000lbf)	Hrs on Jars (hr)

Total AFE + Sup (Cost)
9,064,000.00

AFE Job Cost Summary

Cost Type	AFE Amt (Cost)
DHC	7,600,000.00
CWC	1,464,000.00

Field Estimate Job Cost Summary

Cost Type	Field Est (Cost)
DHC	1,669,291.57

Daily Summary

Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
83,638.00	1,669,291.57
Daily Mud Field Est (Cost)	**Cum Mud Field Est (Cost)**
8,311.65	49,670.10

POL (Personnel on Location)
25.0

Daily Contacts

Job Contact	Title
Dean Baker	Sr. Drlg. Foreman
Derrick Berry	Drlg. Foreman

Personnel Log

Company	Count
PIONEER NATURAL RESOURCES	1
PIONEER NATURAL RESOURCES	1
NABORS DRILLING INC	1
NABORS DRILLING INC	13
BAKER HUGHES INTEQ	2
ZECO	2
SELMA	2
NEWPARK	1
BADLANDZER	2

Weather

Precipitation Amount (in)	Precipitation Type
Temperature - High (°F)	**Temperature - Low (°F)**

Comment

NABORS DRILLING, 169

Rig Type
Drilling - Triple

Rig Start Date	Rig Release Date
9/22/2010	

1, National Supply, 10-P-130

Pump Number
1

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6 1/2	10.00	0.097

Max Pressure (psi)

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

2, National Supply, 10-P-130

Pump Number
2

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6 1/2	10.00	0.097

Max Pressure (psi)

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

Job Supply Amounts

Supply Item Des	Unit Label	Received	Consumed	Cum On Loc
Diesel Fuel	gal us	6,958		6,958

Mud Additive Amounts

Des	Consumed	Cum Cons
BULK TANK	2	32
BULK TANK BLOWERS	1	16
Caustic Soda	4	18
Dyna Fiber Cor	65	295
MUD ENGINEER	1	16
MUD LAB	1	9
New Carb Med	52	233
New Gel HY	31	96
NewGel	36	316
NO Foam X	8	8
Wallnut Shell	129	213

Safety Summary

BOP Test Date	Last BOP Test	BOP Func Due	HSE Incident	HSE Inc Remark
				NONE

9/28/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 9/28/2010
REPORT: 33
DOL: 32.19
DFS: 5.60

Rig Name: NABORS DRILLING 169

Depth Progress: 527.00

Daily Summary

BHA #4 , Steerable

Bit Run	Drill Bit	Bit Type	Make
4, RR#3	17 1/2in, HCD507Z, 7019893	PDC	HUGHES

Nozzles (1/32")	IADC Codes	IADC Bit Dull
16/16/16/16/16/16	___	-------

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)
1.37	40.45	2,086.00

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)
23.90	801.00	33.5	1,330.0	2,131.0

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
27	Drill Pipe	5	4.276	846.00	2,131.74
25	HWDP	5	3.000	767.98	1,285.74
1	Jars	6 3/8	2.875	32.57	517.76
1	HWDP	5	3.000	30.72	485.19
1	X/O	6 3/8	2.813	3.57	454.47
6	6-1/2" DC's	6 1/2	2.875	184.03	450.90
1	X/O	6 1/2	2.813	2.92	266.87
6	8" DC's	8	2.875	183.85	263.95
1	Mechanical Thruster	7 7/8	3.563	30.11	80.10
1	Filter Sub	8	2.875	4.88	49.99
1	Float Sub	8 1/16	2.938	2.49	45.11
1	X/O	8 1/4	3.000	3.12	42.62
1	Stop Sub	9 1/2	3.500	1.25	39.50
1	9-1/2" True Trak, Adjustable Pads w/ Stab	9 1/2		36.70	38.25

Drilling Parameters

1,604.0 - 2,131.0 ftKB

Start (ftKB)	End Depth...	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note
1,604.0	2,131.0	31.4	8		150.0	855	2,300.0	

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100...	SO Str Wt (100...	Drill Str Wt (100...	Torque Units	Drilling Torque	Off Btm Tq
16.80		112	112	112			

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/...	Max Open Hole AV (ft...
154.0	0.6	200.2	308.7	16.5	97.0

Casing Strings

Prop Run?	Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
Yes	Conductor	105.0	105.0	30	ERW	118.00		

Plug Back Total Depths

Date	Depth (ftKB)	Type	Method

Deviation Surveys

Tru-Trak, Proposed? No

Date	Description	Job
9/23/2010	Tru-Trak	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
9/26/2010	1,633.00	0.26	0.00	1,632.98	6.42	6.42	0.00	0.20
9/26/2010	1,728.00	0.26	0.00	1,727.98	6.85	6.85	0.00	0.00
9/26/2010	1,822.00	0.09	0.00	1,821.98	7.14	7.14	0.00	0.18
9/26/2010	1,917.00	0.00	0.00	1,916.98	7.21	7.21	0.00	0.09
9/26/2010	2,011.00	0.26	0.00	2,010.98	7.42	7.42	0.00	0.28

Formations

Formation Name	Final Top MD (ftKB)
Quaternary	
Tertiary Volcanic	
Tertiary Undivided	
North Horn	
UNCONFORMITY	
Arapien	
FAULT	
Arapien	
Twin Creek	
Gypsum Sprgs Mbr	
Navajo	
Chinle	
TD	

Safety Summary

9/28/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 9/29/2010
REPORT: 34
DOL: 33.19
DFS: 6.60

Rig Name: NABORS DRILLING 169

Depth Progress: 304.00

Daily Summary

Property Sub	Field Name	API/UWI	Spud Date
327560-001	WILDCAT	43-023-30021-0000	9/22/2010

KB-Ground Distance (ft)	Original KB Elevation (ft)	KB-Mud Line Distance (ft)
25.00	5,264.00	

Daily Operations

Target Depth (ftKB)	Target Depth (TVD) (ftKB)	End Depth (ftKB)	End Depth (TVD) (ftKB)
9,040.0		2,435.0	

Footage/Meterage (ft)	24 HR ROP (ft/hr)	Drilling Hours (hr)
304.00	34.2	8.90

Avg Connection Gas	Avg Trip Gas	Avg Background Gas	Max Connection Gas	Max Trip Gas	Max Drill Gas
		18.00	554.00		

Operations at Report Time
DRLG @ 2435'

Operations Summary
SLIDE DRILL FROM 2131'-2190', DIFFERENTIAL DROPPED FROM 150-200 PSI, TO -145 PSI, INCL INC TO 1.23 DEG, 1 HYDRAULIC PAD ON TRU-TRAK NOT EXTENDING, POOH, P/U NEW TRU-TRAK, RIH TO 2135', SYNC TOOL AND WASH TO BOTTOM, SLIDE DRILL FROM 2190' TO 2435'

Remarks
NO ACCIDENTS OR SPILLS REPORTED

Operations Next Report Period
DRILLING 17-1/2" SURFACE HOLE

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com
06:00	07:45	1.75	SLDDRL G	PP	SLIDE DRILL FROM 2131'-2189', PUMPS 110X110 SPM, 888 GPM, 2300 PSI, WOB 3-10K, BIT RPM 142, ON EACH CONN DROP DOWN DP -- 1 SOAP STICK & 1 VIS CUP OF PHPA, PUMPING 30 BBLS, 100 VIS, 25 PPB LCM PILLS, AFTER MAKING CONN'S & MID WAY DOWN ON STAND. SYNC TRU-TRAK EVERY CONN. NO LOSSES. ADDING DEFOAMER IN MUD TANKS. DRILL 2131'-2189'= 58', ON BOTTOM ROTATING TIME 95 MINS, ROP .6'/MIN TOTAL ON BOTTOM ROTATING TIME = 32.25 HRS + 1.6 HRS = 33.85 HRS FMS FROM 2131'-2189': 50%+/- GRANITE WASH 30%+/- SDSTONE, 20%+/- LIMESTONE
07:45	08:00	0.25	U_DIR	PN	RE-CYCLE TRU-TRAK, TAKE (2) SURVEYS AT 2156', SURVEYS 1.23 DEG (NOTE: SURVEY AT 2011 = .26 DEG, 2104 = .70 DEG). TRU-TRAK PARAMETERS INDICATE HYDRAULIC RIB #3, WILL NOT EXTEND TO FULL OPEN POSITION.
08:00	08:45	0.75	SLDDRL G	PP	SLIDE DRILL FROM 2189'-2190', PUMPS 110X110 SPM, 888 GPM, 1900-2150 PSI, INC WOB FROM 8-30K, BIT RPM 142. PUMPED 30 BBLS, 100 VIS, 25 PPB LCM PILL.. AFTER PUMPING PILL, DIFFERENTIAL PRESS DECREASED FROM 150-200 PSI TO -145 PSI. BIT WILL NOT DRILL. DRILL 2189'-2190'= 1', ON BOTTOM ROTATING TIME 19 MINS, ROP .1'/MIN TOTAL ON BOTTOM ROTATING TIME = 32.25 HRS + .3 HRS = 32.35 HRS FMS FROM 2131'-2189': 50%+/- GRANITE WASH 30%+/- SDSTONE, 20%+/- LIMESTONE DIFFERENTIAL DROPPED FROM 150-200 PSI, TO -145 PSI, INCL INC TO 1.23 DEG, 1 HYDRAULIC PAD ON TRU-TRAK NOT EXTENDING
08:45	11:45	3.00	U_DIR	PN	PREP & POOH FROM 2190'-450'
11:45	13:00	1.25	U_DIR	PN	POOH FROM 450'-TRU-TRAK.
13:00	14:45	1.75	U_DIR	PN	BREAK OUT BIT, TRU-TRAK MOTOR & THRUSTER. L/D THRUSTER & MOTOR.
14:45	16:45	2.00	U_DIR	PN	P/U & M/U THRUSTER, NEW TRU-TRAK MOTOR & RR PDC BIT, RIH TO FILTER SUB. BREAK OUT FILTER SUB, OK, M/U.
16:45	17:45	1.00	U_DIR	PN	TIH TO 518'
17:45	19:45	2.00	U_DIR	PN	TIH FROM 518' TO 2138'
19:45	20:00	0.25	U_DIR	PN	SYNC TRU-TRAK, PUMPS 110X110 SPM, 896 GPM, 2250 PSI
20:00	20:15	0.25	U_DIR	PN	WASH FROM 2138' TO 2190', PUMPS 110X110 SPM, 2150 SPM, WOB 0,

Total AFE + Sup (Cost)
9,064,000.00

AFE Job Cost Summary

Cost Type	AFE Amt (Cost)
DHC	7,600,000.00
CWC	1,464,000.00

Field Estimate Job Cost Summary

Cost Type	Field Est (Cost)
DHC	1,750,464.57

Daily Summary

Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
81,173.00	1,750,464.57
Daily Mud Field Est (Cost)	**Cum Mud Field Est (Cost)**
11,830.70	65,809.55

POL (Personnel on Location)
25.0

Daily Contacts

Job Contact	Title
Dean Baker	Sr. Drlg. Foreman
Derrick Berry	Drlg. Foreman

Personnel Log

Company	Count
PIONEER NATURAL RESOURCES	1
PIONEER NATURAL RESOURCES	1
NABORS DRILLING INC	1
NABORS DRILLING INC	13
BAKER HUGHES INTEQ	2
ZECO	2
SELMA	2
NEWPARK	1
BADLANDZER	2

Weather

Precipitation Amount (in)	Precipitation Type
Temperature - High (°F)	**Temperature - Low (°F)**

Comment

NABORS DRILLING, 169

Rig Type
Drilling - Triple

Rig Start Date	Rig Release Date
9/22/2010	

1, National Supply, 10-P-130

Pump Number
1

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6 1/2	10.00	0.097

Max Pressure (psi)

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

2, National Supply, 10-P-130

Pump Number
2

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6 1/2	10.00	0.097

Max Pressure (psi)

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

Job Supply Amounts

Supply Item Des	Unit Label	Received	Consumed	Cum On Loc
Diesel Fuel	gal us	6,958		6,958

Mud Additive Amounts

Des	Consumed	Cum Cons
BULK TANK	2	34
BULK TANK BLOWERS	1	17
Caustic Soda	6	24
Dyna Fiber Cor	53	348
DynaDet	14	14
Mica F	61	301
MUD ENGINEER	1	17
MUD LAB	1	10
New Bar		0
New Carb Med	40	273
NewGel	34	350
NO Foam X	15	23

Safety Summary

BOP Test Date	Last BOP Test	BOP Func Due	HSE Incident	HSE Inc Remark
				NONE

9/29/2010

PIONEER NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 9/29/2010
REPORT: 34
DOL: 33.19
DFS: 6.60

Rig Name: NABORS DRILLING 169

Depth Progress: 304.00

Daily Summary

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com
20:15	22:00	1.75	SLDDRL G	PP	SLIDE DRILL FROM 2190'-2250', PUMPS 110X110 SPM, 896 GPM, 2300-2400 PSI, INC WOB FROM 8-30K, BIT RPM 143. PUMPED 30 BBLS, 100 VIS, 25 PPB LCM PILL. AFTER MAKING CONN'S & MID WAY DOWN ON STAND. SYNC TRU-TRAK EVERY CONN. NO LOSSES. ADDING DEFOAMER IN MUD TANKS. DRILL 2190'-2250'= 60', ON BOTTOM ROTATING TIME 84 MINS, ROP .7'/MIN TOTAL ON BOTTOM ROTATING TIME = 32.35 HRS + 1.4 HRS = 33.75 HRS FMS FROM 2190'-2250': 50%+/- GRANITE WASH 35%+/- SDSTONE, 15%+/- LIMESTONE
22:00	22:30	0.50	RIGSER	PP	RIG SERVICE (CHANGE OUT SWAB ON PUMP # 2)
22:30	06:00	7.50	SLDDRL G	PP	SLIDE DRILL FROM 2250'-2435', PUMPS 110X110 SPM, 896 GPM, 2300-2400 PSI, INC WOB FROM 8-30K, BIT RPM 143. PUMPED 30 BBLS, 100 VIS, 25 PPB LCM PILL. AFTER MAKING CONN'S & MID WAY DOWN ON STAND. SYNC TRU-TRAK EVERY CONN. NO LOSSES. ADDING DEFOAMER IN MUD TANKS. MAKE CONNECTION @ 2355', BACKGROUND GAS INCREASED FROM 18 UNITS TO 554 UNITS, AND DROPPED OUT. DRILL 2250'-2435'= 185', ON BOTTOM ROTATING TIME 221 MINS, ROP .8'/MIN TOTAL ON BOTTOM ROTATING TIME = 33.75 HRS + 3.7 HRS = 37.45 HRS FMS FROM 2190'-2435': 70%+/- GRANITE WASH 30%+/- SDSTONE

Mud Properties

Daily Cost: 11,830.70 Cost Cum Cost: 65,809.55 Cost

Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	T Flowline (°F)
06:00		2,339.0	8.50	51	

PV (cp)	YP (lbf/100ft²)	Filtrate (mL/30min)	HTHP Filtrate (mL/30...	HTHP Pressure (psi)	HTHP Temperature (°F)
11.0	9.000	9.0			

Solids (%)	Sand (%)	MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)
3.0	0.1	24.0	10.0	0.600	0.3

Chlorides (ppm)	Calcium (ppm)	Oil Water Ratio	Electric Stab (V)	Lime (lb/bbl)	Low Gravity Solids (%)
120.000		0/100			1.2

Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Comment
8.000	8.000	

Bottom Hole Assembly

BHA Since Insp (hr)	BHA Wt BelowJar (1000lbf)	Hrs on Jars (hr)

BHA #4 , Steerable

Bit Run	Drill Bit	Bit Type	Make
4, RR#3	17 1/2in, HCD507Z, 7019893	PDC	HUGHES

Nozzles (1/32")	IADC Codes	IADC Bit Dull
16/16/16/16/16/16	___	1-1-WT-A-X-0-NO-DTF

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)
1.37	43.30	2,327.00

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)
18.70	586.00	31.3	1,604.0	2,190.0

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
30	Drill Pipe	5	4.276	945.00	2,230.74
25	HWDP	5	3.000	767.98	1,285.74
1	Jars	6 3/8	2.875	32.57	517.76
1	HWDP	5	3.000	30.72	485.19
1	X/O	6 3/8	2.813	3.57	454.47
6	6-1/2" DC's	6 1/2	2.875	184.03	450.90
1	X/O	6 1/2	2.813	2.92	266.87
6	8" DC's	8	2.875	183.85	263.95
1	Mechanical Thruster	7 7/8	3.563	30.11	80.10
1	Filter Sub	8	2.875	4.88	49.99
1	Float Sub	8 1/16	2.938	2.49	45.11
1	X/O	8 1/4	3.000	3.12	42.62
1	Stop Sub	9 1/2	3.500	1.25	39.50
1	9-1/2" True Trak, Adjustable Pads w/ Stab	9 1/2		36.70	38.25

Drilling Parameters

2,131.0 - 2,190.0 ftKB

Start (ftKB)	End Depth...	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note
2,131.0	2,190.0	31.1	30		0.0	855	1,950.0	

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100...	SO Str Wt (100...	Drill Str Wt (100...	Torque Units	Drilling Torque	Off Btm Tq
1.90		121	121	112			

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/...	Max Open Hole AV (ft...
154.0	0.6	200.2	308.7	16.5	97.0

Mud Additive Amounts

Des	Consumed	Cum Cons
PALLETS	1	5
SAPP		0
SHRINK WRAP	1	5
Soda Ash		15
Trucking	1	6
Wallnut Shell		213

Formations

Formation Name	Final Top MD (ftKB)
Quaternary	
Tertiary Volcanic	
Tertiary Undivided	
North Horn	
UNCONFORMITY	
Arapien	
FAULT	
Arapien	
Twin Creek	
Gypsum Sprgs Mbr	
Navajo	
Chinle	
TD	

Safety Summary

9/29/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 9/29/2010
REPORT: 34
DOL: 33.19
DFS: 6.60

Rig Name: NABORS DRILLING 169

Depth Progress: 304.00

Daily Summary

BHA #5 , Steerable

Bit Run	Drill Bit	Bit Type	Make
5,RR#4	17 1/2in, HCD507Z, 7019893	PDC	HUGHES

Nozzles (1/32")	IADC Codes	IADC Bit Dull
16/16/16/16/16/16	___	-------

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)
1.37	43.30	2,327.00

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)
7.00	245.00	35.0	2,190.0	2,435.0

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
30	Drill Pipe	5	4.276	945.00	2,231.09
25	HWDP	5	3.000	767.98	1,286.09
1	Jars	6 3/8	2.875	32.57	518.11
1	HWDP	5	3.000	30.72	485.54
1	X/O	6 3/8	2.813	3.57	454.82
6	6-1/2" DC's	6 1/2	2.875	184.03	451.25
1	X/O	6 1/2	2.813	2.92	267.22
6	8" DC's	8	2.875	183.85	264.30
1	Mechanical Thruster	7 7/8	3.563	30.11	80.45
1	Filter Sub	8	2.875	4.88	50.34
1	Float Sub	8 1/16	2.938	2.49	45.46
1	X/O	8 1/4	3.000	3.12	42.97
1	Stop Sub	9 1/2	3.500	1.25	39.85
1	9-1/2" True Trak, Adjustable Pads w/ Stab	9 1/2		37.05	38.60

Drilling Parameters

2,190.0 - 2,435.0 ftKB

Start (ftKB)	End Depth...	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note
2,190.0	2,435.0	35.0	0			896	2,500.0	

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100...	SO Str Wt (100...	Drill Str Wt (100...	Torque Units	Drilling Torque	Off Btm Tq
7.00		124	124	115			

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/...	Max Open Hole AV (ft...
177.2	0.7	209.8	339.0	17.3	101.7

Casing Strings

Prop Run?	Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
Yes	Conductor	105.0	105.0	30	ERW	118.00		

Plug Back Total Depths

Date	Depth (ftKB)	Type	Method

Deviation Surveys

Tru-Trak, Proposed? No

Date	Description	Job
9/23/2010	Tru-Trak	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
9/26/2010	2,011.00	0.26	0.00	2,010.98				0.28
9/26/2010	2,104.00	0.70	0.00	2,103.98				0.47
9/26/2010	2,200.00	0.44	0.00	2,199.97				0.27
9/26/2010	2,295.00	0.35	0.00	2,294.97				0.09
9/26/2010	2,389.00	0.26	0.00	2,388.97				0.10

Safety Summary

9/29/2010

PIONEER NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 9/30/2010
REPORT: 35
DOL: 34.19
DFS: 7.60

Rig Name: NABORS DRILLING 169

Depth Progress: 540.00

Daily Summary

Property Sub	Field Name	API/UWI	Spud Date
327560-001	WILDCAT	43-023-30021-0000	9/22/2010

KB-Ground Distance (ft)	Original KB Elevation (ft)	KB-Mud Line Distance (ft)
25.00	5,264.00	

Daily Operations

Target Depth (ftKB)	Target Depth (TVD) (ftKB)	End Depth (ftKB)	End Depth (TVD) (ftKB)
9,040.0		2,975.0	

Footage/Meterage (ft)	24 HR ROP (ft/hr)	Drilling Hours (hr)
540.00	24.5	22.00

Avg Connection Gas	Avg Trip Gas	Avg Background Gas	Max Connection Gas	Max Trip Gas	Max Drill Gas
18.00		14.00	18.00		

Operations at Report Time
DRLG @ 2975'

Operations Summary
SLIDE DRILL F/2435'-2975', W/RIG SERVICE AND RIG REPAIR (LEAKING STAND PIPE AND REPLACE PUMP SWAB ON #1)

Remarks
NO INCIDENTS, NO ACCIDENTS, NO SPILLS

Operations Next Report Period
DRILLING 17-1/2" SURFACE HOLE

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com
06:00	09:30	3.50	SLDDRLG	PP	SLIDE DRILL F/ 2435'-2515' = 80' IN 3.5 HRS. = 22.9' FPH. W/ 896 GPM, 2400 SPP, 8K WOB, 143 RPM. 1 SOAP STICK AND 1 VIS CUP OF PHPA EVERY CONN. PUMP 30 BBLS, 100 VIS, 25 # LCM SWEEPS, AFTER EVERY CONN & MIDWAY KELLY DOWN. SYNC TRU-TRAK EVERY CONN. NO LOSSES. ADDING DEFOAMER IN MUD TANKS. FMS FROM 2190'-2435': 70%+/- GRANITE WASH 30%+/- SDSTONE
09:30	10:00	0.50	RIGSER	PP	RIG SERVICE
10:00	00:30	14.50	SLDDRLG	PP	SLIDE DRILL F/ 2515'-2805' = 290' IN 14.5 HRS. = 20' FPH. W/ 896 GPM, 2650 SPP, 10-15K WOB, 143 RPM. 8.4#, 62-VIS 1 SOAP STICK AND 1 VIS CUP OF PHPA EVERY CONN. PUMP 30 BBLS, 100 VIS, 25 # LCM SWEEPS, AFTER EVERY CONN & MIDWAY KELLY DOWN. SYNC TRU-TRAK EVERY CONN. NO LOSSES. ADDING DEFOAMER IN MUD TANKS. FMS FROM 2515'-2805': 85%+/- SHALE 15%+/-LIMESTONE
00:30	02:00	1.50	U_RIG	PN	DOWNTIME (LEAKING STAND PIPE, CHANGED O-RING IN HAMMER UNION)
02:00	06:00	4.00	SLDDRLG	PP	SLIDE DRILL F/ 2805'-2975' = 170' IN 4 HRS. = 42.5' FPH. W/ 896 GPM, 2600 SPP, 17-19K WOB, 143 RPM. 8.5#, 74 VIS 1 SOAP STICK AND 1 VIS CUP OF PHPA EVERY CONN. PUMP 30 BBLS, 100 VIS, 25 # LCM SWEEPS, AFTER EVERY CONN & MIDWAY KELLY DOWN. SYNC TRU-TRAK EVERY CONN. NO LOSSES. ADDING DEFOAMER IN MUD TANKS. FMS FROM 2805'-2975': 85%+/- SHALE, 15%+/-LIMESTONE

Mud Properties

Daily Cost: 10,483.20 Cost Cum Cost: 76,292.75 Cost

Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	T Flowline (°F)
03:00	Gel Base	2,891.0	8.50	54	

PV (cp)	YP (lbf/100ft²)	Filtrate (mL/30min)	HTHP Filtrate (mL/30...	HTHP Pressure (psi)	HTHP Temperature (°F)
12.0	12.000	9.0			

Solids (%)	Sand (%)	MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)
4.0		25.5	9.0	0.300	0.1

Chlorides (ppm)	Calcium (ppm)	Oil Water Ratio	Electric Stab (V)	Lime (lb/bbl)	Low Gravity Solids (%)
120.000		0/100			1.2

Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Comment
9.000	8.000	

Bottom Hole Assembly

BHA Since Insp (hr)	BHA Wt BelowJar (1000lbf)	Hrs on Jars (hr)

BHA #5 , Steerable

Bit Run	Drill Bit	Bit Type	Make
5,RR#4	17 1/2in, HCD507Z, 7019893	PDC	HUGHES

Nozzles (1/32")	IADC Codes	IADC Bit Dull
16/16/16/16/16/16	___	-------

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)
1.37	65.30	2,867.00

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)
29.00	785.00	27.1	2,190.0	2,975.0

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
36	Drill Pipe	5	4.276	1,149.00	2,435.09
25	HWDP	5	3.000	767.98	1,286.09
1	Jars	6 3/8	2.875	32.57	518.11
1	HWDP	5	3.000	30.72	485.54
1	X/O	6 3/8	2.813	3.57	454.82

Total AFE + Sup (Cost)
9,064,000.00

AFE Job Cost Summary

Cost Type	AFE Amt (Cost)
DHC	7,600,000.00
CWC	1,464,000.00

Field Estimate Job Cost Summary

Cost Type	Field Est (Cost)
DHC	1,830,198.57

Daily Summary

Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
79,734.00	1,830,198.57

Daily Mud Field Est (Cost)	Cum Mud Field Est (Cost)
10,483.20	76,292.75

POL (Personnel on Location)
25.0

Daily Contacts

Job Contact	Title
Clifton Everett	Sr. Drlg. Foreman
Derrick Berry	Drlg. Foreman

Personnel Log

Company	Count
PIONEER NATURAL RESOURCES	1
PIONEER NATURAL RESOURCES	1
NABORS DRILLING INC	1
NABORS DRILLING INC	13
BAKER HUGHES INTEQ	2
ZECO	2
SELMA	2
NEWPARK	1
BADLANDZER	2

Weather

Precipitation Amount (in)	Precipitation Type

Temperature - High (°F)	Temperature - Low (°F)

Comment

NABORS DRILLING, 169

Rig Type
Drilling - Triple

Rig Start Date	Rig Release Date
9/22/2010	

1, National Supply, 10-P-130

Pump Number
1

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6 1/2	10.00	0.097

Max Pressure (psi)

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

2, National Supply, 10-P-130

Pump Number
2

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6 1/2	10.00	0.097

Max Pressure (psi)

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

Job Supply Amounts

Supply Item Des	Unit Label	Received	Consumed	Cum On Loc
Diesel Fuel	gal us	6,958		6,958

Mud Additive Amounts

Des	Consumed	Cum Cons
BULK TANK	2	36
BULK TANK BLOWERS	1	18
Caustic Soda	1	25
Dyna Fiber Cor	27	375
DynaDet	2	16
MUD ENGINEER	1	18
MUD LAB	1	11
New Carb Med	45	318
NewGel	35	385
NO Foam X	21	44
SAPP	2	2
Tax	565	565

Safety Summary

BOP Test Date	Last BOP Test	BOP Func Due	HSE Incident	HSE Inc Remark
				NONE

9/30/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 9/30/2010
REPORT: 35
DOL: 34.19
DFS: 7.60

Rig Name: NABORS DRILLING 169

Depth Progress: 540.00

Daily Summary

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
6	6-1/2" DC's	6 1/2	2.875	184.03	451.25
1	X/O	6 1/2	2.813	2.92	267.22
6	8" DC's	8	2.875	183.85	264.30
1	Mechanical Thruster	7 7/8	3.563	30.11	80.45
1	Filter Sub	8	2.875	4.88	50.34
1	Float Sub	8 1/16	2.938	2.49	45.46
1	X/O	8 1/4	3.000	3.12	42.97
1	Stop Sub	9 1/2	3.500	1.25	39.85
1	9-1/2" True Trak, Adjustable Pads w/ Stab	9 1/2		37.05	38.60

Drilling Parameters

2,435.0 - 2,975.0 ftKB

Start (ftKB)	End Depth...	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note
2,435.0	2,975.0	24.5	19			896	2,600.0	

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100...	SO Str Wt (100...	Drill Str Wt (100...	Torque Units	Drilling Torque	Off Btm Tq
22.00		132	132	117			

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/...	Max Open Hole AV (ft...
177.2	0.7	209.8	339.0	17.3	101.7

Casing Strings

Prop Run?	Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
Yes	Conductor	105.0	105.0	30	ERW	118.00		

Plug Back Total Depths

Date	Depth (ftKB)	Type	Method

Deviation Surveys

Tru-Trak, Proposed? No

Date	Description	Job
9/23/2010	Tru-Trak	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
9/26/2010	2,485.00	0.18	0.00	2,484.97				0.08
9/26/2010	2,580.00	0.18	0.00	2,579.97				0.00
9/26/2010	2,675.00	0.18	0.00	2,674.97				0.00
9/26/2010	2,770.00	0.26	0.00	2,769.96				0.08
9/26/2010	2,865.00	0.26	0.00	2,864.96				0.00

Mud Additive Amounts

Des	Consumed	Cum Cons
Wallnut Shell F	-63	150
Wallnut Shell M	138	138

Formations

Formation Name	Final Top MD (ftKB)
Quaternary	
Tertiary Volcanic	
Tertiary Undivided	
North Horn	
UNCONFORMITY	
Arapien	
FAULT	
Arapien	
Twin Creek	
Gypsum Sprgs Mbr	
Navajo	
Chinle	
TD	

Safety Summary

9/30/2010

PIONEER NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 10/1/2010
REPORT: 36
DOL: 35.19
DFS: 8.60

Rig Name: NABORS DRILLING 169

Depth Progress: 472.00

Daily Summary

Property Sub	Field Name	API/UWI	Spud Date
327560-001	WILDCAT	43-023-30021-0000	9/22/2010

KB-Ground Distance (ft)	Original KB Elevation (ft)	KB-Mud Line Distance (ft)
25.00	5,264.00	

Daily Operations

Target Depth (ftKB)	Target Depth (TVD) (ftKB)	End Depth (ftKB)	End Depth (TVD) (ftKB)
9,040.0		3,447.0	

Footage/Meterage (ft)	24 HR ROP (ft/hr)	Drilling Hours (hr)
472.00	23.6	20.00

Avg Connection Gas	Avg Trip Gas	Avg Background Gas	Max Connection Gas	Max Trip Gas	Max Drill Gas
14.00		8.00	14.00		

Operations at Report Time
Shutdown to Repair Wash Tube Leak, @ 3447'

Operations Summary
Slide Drlg. F/ 2975' - 3447' W/ Rig Service and Rig Repair. (Replace hydraulic hose on top drive, while servicing rig.) Shutdown due to wash tube leaking on Top Drive, had to rebiuld and replace. No losses.

Remarks
No Incidents, No Accidents, No Spills.

Operations Next Report Period
Drilling 17 1/2" Surface Hole.

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com
06:00	14:00	8.00	SLDDRLG	PP	Slide Drlg. F/ 2975' - 3275' = 300' in 8 hrs. = 37.5' FPH. W/ 885 GPM, 2200 SPP, 17-19k WOB, 143 RPM. and an 8.5# wt. and 74 vis.. One soap stick and one vis cup of PHPA every conn. Pump 30 bbl. High and Low vis sweeps w/ 25# lcm, after every conn. and midway kelly down. Sync Tru-Trax every conn. No losses. Formations F/ 2975' - 3275' 65% +/- Shale, 35% +/- Limestone.
14:00	14:30	0.50	RIGSER	PP	Rig Service and replace hydraulic hose on top drive.
14:30	18:30	4.00	SLDDRLG	PP	Slide Drlg. F/ 3275' - 3340' = 65' in 4 hrs. = 16' FPH. W/ 885 GPM, 2200 SPP, 17-19k WOB, 143 RPM. and an 8.4# wt. and 42 vis.. One soap stick and one vis cup of PHPA every conn. Pump 30 bbl. High and Low vis sweeps w/ 25# lcm, after every conn. and midway kelly down. Sync Tru-Trax every conn. No losses. Formations F/ 3275' - 3340' 65% +/- Shale, 35% +/- Limestone.
18:30	02:00	7.50	SLDDRLG	PP	Slide Drlg. F/ 3340' - 3447' = 107' in hrs. = 14' FPH. W/ 885 GPM, 2200 SPP, 28-32k WOB, 143 RPM. and an 8.4# wt. and 49 vis.. One soap stick and one vis cup of PHPA every conn. Pump 30 bbl. High and Low vis sweeps w/ 25# lcm, after every conn. and midway kelly down. Sync Tru-Trax every conn. No losses. Formations F/ 3340' - 3447' 215% +/- Shale, 85% +/- Limestone.
02:00	06:00	4.00	U_RIG	PN	Shutdown due to wash tube on top drive leaking. Had to replace.

Mud Properties

Daily Cost: 14,206.19 Cost Cum Cost: 78,217.18 Cost

Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	T Flowline (°F)
16:00	Gel Base	3,307.0	8.50	52	

PV (cp)	YP (lbf/100ft²)	Filtrate (mL/30min)	HTHP Filtrate (mL/30...	HTHP Pressure (psi)	HTHP Temperature (°F)
13.0	12.000	9.0			

Solids (%)	Sand (%)	MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)
4.0	0.1	24.0	8.5	0.100	0.02

Chlorides (ppm)	Calcium (ppm)	Oil Water Ratio	Electric Stab (V)	Lime (lb/bbl)	Low Gravity Solids (%)
120.000		0/100			1.2

Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Comment
9.000	8.000	

Bottom Hole Assembly

BHA Since Insp (hr)	BHA Wt BelowJar (1000lbf)	Hrs on Jars (hr)

BHA #5 , Steerable

Bit Run	Drill Bit	Bit Type	Make
5,RR#4	17 1/2in, HCD507Z, 7019893	PDC	HUGHES

Nozzles (1/32")	IADC Codes	IADC Bit Dull
16/16/16/16/16/16	___	-------

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)
1.37	85.30	3,339.00

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)
49.00	1,257.00	25.7	2,190.0	3,447.0

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
70	Drill Pipe	5	4.276	1,149.00	2,435.09
25	HWDP	5	3.000	767.98	1,286.09
1	Jars	6 3/8	2.875	32.57	518.11
1	HWDP	5	3.000	30.72	485.54
1	X/O	6 3/8	2.813	3.57	454.82
6	6-1/2" DC's	6 1/2	2.875	184.03	451.25
1	X/O	6 1/2	2.813	2.92	267.22
6	8" DC's	8	2.875	183.85	264.30
1	Mechanical Thruster	7 7/8	3.563	30.11	80.45

Total AFE + Sup (Cost)
9,064,000.00

AFE Job Cost Summary

Cost Type	AFE Amt (Cost)
DHC	7,600,000.00
CWC	1,464,000.00

Field Estimate Job Cost Summary

Cost Type	Field Est (Cost)
DHC	1,915,062.63

Daily Summary

Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
84,864.06	1,915,062.63

Daily Mud Field Est (Cost)	Cum Mud Field Est (Cost)
14,206.19	78,217.18

POL (Personnel on Location)
25.0

Daily Contacts

Job Contact	Title
Clifton Everett	Sr. Drlg. Foreman
Derrick Berry	Drlg. Foreman

Personnel Log

Company	Count
PIONEER NATURAL RESOURCES	1
PIONEER NATURAL RESOURCES	1
NABORS DRILLING INC	1
NABORS DRILLING INC	13
BAKER HUGHES INTEQ	2
ZECO	2
SELMA	2
NEWPARK	1
BADLANDZER	2

Weather

Precipitation Amount (in)	Precipitation Type

Temperature - High (°F)	Temperature - Low (°F)

Comment

NABORS DRILLING, 169

Rig Type
Drilling - Triple

Rig Start Date	Rig Release Date
9/22/2010	

1, National Supply, 10-P-130

Pump Number
1

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6 1/2	10.00	0.097

Max Pressure (psi)

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

2, National Supply, 10-P-130

Pump Number
2

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6 1/2	10.00	0.097

Max Pressure (psi)

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

Job Supply Amounts

Supply Item Des	Unit Label	Received	Consumed	Cum On Loc
Diesel Fuel	gal us	6,958		6,958

Mud Additive Amounts

Des	Consumed	Cum Cons
BULK TANK	2	38
BULK TANK BLOWERS	1	19
Desco CF	3	3
Dyna Fiber Cor	45	420
DynaDet	13	29
MUD ENGINEER	1	19
MUD LAB	1	12
New Carb Med	42	360
NO Foam X	8	52
PALLETS	1	6
SHRINK WRAP	1	6
Tax	724	1,289

Safety Summary

BOP Test Date	Last BOP Test	BOP Func Due	HSE Incident	HSE Inc Remark
				None

10/1/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 10/1/2010
REPORT: 36
DOL: 35.19
DFS: 8.60

Rig Name: NABORS DRILLING 169

Depth Progress: 472.00

Daily Summary

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
1	Filter Sub	8	2.875	4.88	50.34
1	Float Sub	8 1/16	2.938	2.49	45.46
1	X/O	8 1/4	3.000	3.12	42.97
1	Stop Sub	9 1/2	3.500	1.25	39.85
1	9-1/2" True Trak, Adjustable Pads w/ Stab	9 1/2		37.05	38.60

Drilling Parameters

2,975.0 - 3,447.0 ftKB

Start (ftKB)	End Depth...	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note
2,975.0	3,447.0	23.6	30			896	2,600.0	

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100...	SO Str Wt (100...	Drill Str Wt (100...	Torque Units	Drilling Torque	Off Btm Tq
20.00		143	143	120			

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/...	Max Open Hole AV (ft...
		209.8	0.0	17.3	101.7

Casing Strings

Prop Run?	Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
Yes	Conductor	105.0	105.0	30	ERW	118.00		

Plug Back Total Depths

Date	Depth (ftKB)	Type	Method

Deviation Surveys

Tru-Trak, Proposed? No

Date	Description	Job
9/23/2010	Tru-Trak	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
9/26/2010	2,960.00	0.26	0.00	2,959.96				0.00
9/26/2010	3,056.00	0.35	0.00	3,055.96				0.09
9/26/2010	3,150.00	0.18	0.00	3,149.96				0.18
9/26/2010	3,245.00	0.18	0.00	3,244.96				0.00
9/26/2010	3,340.00	0.79	0.00	3,339.96				0.64

Mud Additive Amounts

Des	Consumed	Cum Cons
Trucking	1	7
Wallnut Shell M	320	458

Formations

Formation Name	Final Top MD (ftKB)
Quaternary	
Tertiary Volcanic	
Tertiary Undivided	
North Horn	
UNCONFORMITY	
Arapien	
FAULT	
Arapien	
Twin Creek	
Gypsum Sprgs Mbr	
Navajo	
Chinle	
TD	

Safety Summary

10/1/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 10/2/2010
REPORT: 37
DOL: 36.19
DFS: 9.60

Rig Name: NABORS DRILLING 169

Depth Progress: 33.00

Daily Summary

Property Sub	Field Name	API/UWI	Spud Date
327560-001	WILDCAT	43-023-30021-0000	9/22/2010

KB-Ground Distance (ft)	Original KB Elevation (ft)	KB-Mud Line Distance (ft)
25.00	5,264.00	

Daily Operations

Target Depth (ftKB)	Target Depth (TVD) (ftKB)	End Depth (ftKB)	End Depth (TVD) (ftKB)
9,040.0		3,480.0	

Footage/Meterage (ft)	24 HR ROP (ft/hr)	Drilling Hours (hr)
33.00	13.2	2.50

Avg Connection Gas	Avg Trip Gas	Avg Background Gas	Max Connection Gas	Max Trip Gas	Max Drill Gas
9.00		8.00	9.00		

Operations at Report Time
Sliding ahead @ 3480'

Operations Summary
Finish repairing wash tube on top drive. Wash to btm. Circ. TOH to C/O Tru-Track. TIH, wash 225' to btm. hole free and clear. No drag no fill.
Shutdown for Rig Repair (had to re-install chain on oiler pump for Draw Works)

Slide F/ 3447' to 3480', No losses

Eric Burnett, received verbal approval from Al McKee, with the BLM, to extend the 13 3/8" casing point from 4000' to 5100' on the South Hills Federal 6-1. This via phone conversatiion at 11:20 central time on 10/1/2010.

Remarks
No Incidents, No Accidents, No Spills.

Operations Next Report Period
Drilling 17 1/2" Surface Hole.

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com
06:00	09:30	3.50	U_RIG	PN	Pull out of hole 200' to get off btm. Finish replacing wash tube in top drive.
09:30	12:00	2.50	U_RIG	PN	Work pipe while slowly staging pumps up to 100 x 100. TIH washing to btm. no drag no fill. Circ. btms. up, pump slug. TOH to C/O Tru-Track.
12:00	15:30	3.50	U_MWD	PN	TOH, to C/O Tru-Track, no drag.
15:30	16:30	1.00	U_MWD	PN	Graded bit as a 1 1. Going to run it back in the hole. L/D and P/U new Tru-track.
16:30	00:00	7.50	U_MWD	PN	TIH to 3252'. Hole free and clear. wash 50' to 3302'. Hole displaced continually. While washing to bottom, noticed grinding noise in draw works, (chain was off oiler pump sprocket)
00:00	02:30	2.50	U_RIG	PN	Shutdown to replaced chain on oiler pump, for Draw works. Circulating hole, pumping 407gpm while making repairs.
02:30	03:30	1.00	U_MWD	PN	Washed 175' to bottom @ 3477'. Sync Tool
03:30	06:00	2.50	SLDDRLG	PP	Slide Drlg. F/ 3447' - 3480' = 33' in 2.5hrs. = 13' FPH. W/ 855 GPM, 2450 SPP, 28-30k WOB, 137RPM. and an 8.4# wt. and 53 vis.. One soap stick and one vis cup of PHPA every conn. Pump 30 bbl. High and Low vis sweeps w/ 25# lcm, after every conn. and midway kelly down. Sync Tru-Trax every conn. No losses. Formations F/ 3447' - 3480' 25% +/- Shale, 75% +/- Limestone. Fuel used last 24 hrs. 1350 gal.

Mud Properties

Daily Cost: 5,056.32 Cost Cum Cost: 81,445.17 Cost

Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	T Flowline (°F)
03:00	Gel Base	3,453.0	8.50	45	

PV (cp)	YP (lbf/100ft²)	Filtrate (mL/30min)	HTHP Filtrate (mL/30...	HTHP Pressure (psi)	HTHP Temperature (°F)
10.0	14.000	11.0			

Solids (%)	Sand (%)	MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)
4.0	0.1	22.0	8.5	0.100	0.05

Chlorides (ppm)	Calcium (ppm)	Oil Water Ratio	Electric Stab (V)	Lime (lb/bbl)	Low Gravity Solids (%)
120.000		0/100			1.2

Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Comment
7.000	7.000	

Bottom Hole Assembly

BHA Since Insp (hr)	BHA Wt BelowJar (1000lbf)	Hrs on Jars (hr)

BHA #6 , Steerable

Bit Run	Drill Bit	Bit Type	Make
6,RR#5	17 1/2in, HCD507Z, 7019893	PDC	HUGHES

Nozzles (1/32")	IADC Codes	IADC Bit Dull
16/16/16/16/16/16	___	-------

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)
1.37	87.80	3,372.00

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)
51.50	1,290.00	25.0	2,190.0	3,480.0

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
70	Drill Pipe	5	4.276	2,212.52	3,498.16
25	HWDP	5	3.000	767.98	1,285.64
1	Jars	6 3/8	2.875	32.57	517.66
1	HWDP	5	3.000	30.72	485.09
1	X/O	6 3/8	2.813	3.57	454.37
6	6-1/2" DC's	6 1/2	2.875	184.03	450.80
1	X/O	6 1/2	2.813	2.92	266.77
6	8" DC's	8	2.875	183.85	263.85

Total AFE + Sup (Cost)
9,064,000.00

AFE Job Cost Summary

Cost Type	AFE Amt (Cost)
DHC	7,600,000.00
CWC	1,464,000.00

Field Estimate Job Cost Summary

Cost Type	Field Est (Cost)
DHC	2,011,346.63

Daily Summary

Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
96,284.00	2,011,346.63

Daily Mud Field Est (Cost)	Cum Mud Field Est (Cost)
5,056.32	81,445.17

POL (Personnel on Location)
25.0

Daily Contacts

Job Contact	Title
Clifton Everett	Sr. Drlg. Foreman
Derrick Berry	Drlg. Foreman

Personnel Log

Company	Count
PIONEER NATURAL RESOURCES	1
PIONEER NATURAL RESOURCES	1
NABORS DRILLING INC	1
NABORS DRILLING INC	13
BAKER HUGHES INTEQ	2
ZECO	2
SELMA	2
NEWPARK	1
BADLANDZER	2

Weather

Precipitation Amount (in)	Precipitation Type

Temperature - High (°F)	Temperature - Low (°F)

Comment

NABORS DRILLING, 169

Rig Type
Drilling - Triple

Rig Start Date	Rig Release Date
9/22/2010	

1, National Supply, 10-P-130

Pump Number
1

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6 1/2	10.00	0.097

Max Pressure (psi)

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

2, National Supply, 10-P-130

Pump Number
2

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6 1/2	10.00	0.097

Max Pressure (psi)

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

Job Supply Amounts

Supply Item Des	Unit Label	Received	Consumed	Cum On Loc
Diesel Fuel	gal us	6,958		6,958

Mud Additive Amounts

Des	Consumed	Cum Cons
BULK TANK	2	40
BULK TANK BLOWERS	1	20
Caustic Soda	3	28
Desco CF	8	8
Dyna Fiber Cor	8	428
DynaDet	7	36
Lime	1	2
MUD ENGINEER	1	20
MUD LAB	1	13
New Bar	28	28
New Carb Med	8	368
NO Foam X	6	58

Safety Summary

BOP Test Date	Last BOP Test	BOP Func Due	HSE Incident	HSE Inc Remark
				None

10/2/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Daily Drilling Report

Well Name: South Hills 6-1

Rig Name: NABORS DRILLING 169

Depth Progress: 33.00

REPORT DATE: 10/2/2010
REPORT: 37
DOL: 36.19
DFS: 9.60

Daily Summary

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
1	Mechanical Thruster	7 7/8	3.563	30.11	80.00
1	Filter Sub	8	2.875	4.88	49.89
1	Float Sub	8 1/16	2.938	2.49	45.01
1	X/O	8 1/4	3.000	3.12	42.52
1	Stop Sub	9 1/2	3.500	1.25	39.40
1	9-1/2" True Trak, Adjustable Pads w/ Stab	9 1/2		36.60	38.15

Drilling Parameters

3,447.0 - 3,480.0 ftKB

Start (ftKB)	End Depth...	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note
3,447.0	3,480.0	13.2	30			855	2,450.0	

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100...	SO Str Wt (100...	Drill Str Wt (100...	Torque Units	Drilling Torque	Off Btm Tq
2.50		143	143	117			

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/...	Max Open Hole AV (ft...
154.0	0.6	200.2	308.7	16.5	97.0

Casing Strings

Prop Run?	Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
Yes	Conductor	105.0	105.0	30	ERW	118.00		

Plug Back Total Depths

Date	Depth (ftKB)	Type	Method

Deviation Surveys

Tru-Trak, Proposed? No

Date	Description	Job
9/23/2010	Tru-Trak	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
9/26/2010	2,960.00	0.26	0.00	2,959.96				0.00
9/26/2010	3,056.00	0.35	0.00	3,055.96				0.09
9/26/2010	3,150.00	0.18	0.00	3,149.96				0.18
9/26/2010	3,245.00	0.18	0.00	3,244.96				0.00
9/26/2010	3,340.00	0.79	0.00	3,339.96				0.64

Mud Additive Amounts

Des	Consumed	Cum Cons
Tax	221	1,510
Trucking	1	8
Wallnut Shell M	18	476

Formations

Formation Name	Final Top MD (ftKB)
Quaternary	
Tertiary Volcanic	
Tertiary Undivided	
North Horn	
UNCONFORMITY	
Arapien	
FAULT	
Arapien	
Twin Creek	
Gypsum Sprgs Mbr	
Navajo	
Chinle	
TD	

Safety Summary

10/2/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 10/3/2010
REPORT: 38
DOL: 36.77
DFS: 10.60

Rig Name: NABORS DRILLING 169

Depth Progress: 272.00

Daily Summary

Property Sub	Field Name	API/UWI	Spud Date
327560-001	WILDCAT	43-023-30021-0000	9/22/2010

KB-Ground Distance (ft)	Original KB Elevation (ft)	KB-Mud Line Distance (ft)
25.00	5,264.00	

Daily Operations

Target Depth (ftKB)	Target Depth (TVD) (ftKB)	End Depth (ftKB)	End Depth (TVD) (ftKB)
9,040.0		3,752.0	

Footage/Meterage (ft)	24 HR ROP (ft/hr)	Drilling Hours (hr)
272.00	11.3	24.00

Avg Connection Gas	Avg Trip Gas	Avg Background Gas	Max Connection Gas	Max Trip Gas	Max Drill Gas
9.00		8.00	9.00		

Operations at Report Time
Sliding ahead @ 3754'

Operations Summary
Slide F/ 3480' - 3752'= 274' in 21.5hrs 12.7fph. Lost another Tru-Track Rib. Trouble shot problem. (Torque setting on top drive).
Taking Surveys every 30' to monitor Deviation

Remarks
No Incidents, No Accidents, No Spills.

Operations Next Report Period
Drilling 17 1/2" Surface Hole.

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com
06:00	07:30	1.50	SLDDRLG	PP	Slide Drlg. F/ 3480' - 3505' = 25' in 1.5hrs. = 16.7' FPH. W/ 855 GPM, 2450 SPP, 28-30k WOB, 137RPM. and an 8.4# wt. and 48 vis.. One soap stick and one vis cup of PHPA every conn. Pump 10 bbl. High and Low vis sweeps w/ 25# lcm, after every conn. and midway kelly down. Sync Tru-Trax every conn. No losses. Formations F/ 3447' - 3480' 25% +/- Shale, 75% +/- Limestone.
07:30	08:00	0.50	U_LPP	PN	Blew nail in pop off. String torqued up and spun backwards.
08:00	10:30	2.50	SLDDRLG	PP	Slide Drlg. F/ 3505' - 3560' = 55' in 2.5hrs. = 22' FPH. W/ 855 GPM, 2450 SPP, 28-30k WOB, 137RPM. and an 8.4# wt. and 45 vis.. One soap stick and one vis cup of PHPA every conn. Pump 10 bbl. High and Low vis sweeps w/ 25# lcm, after every conn. and midway kelly down. Sync Tru-Trax every conn. No losses. Formations F/ 3447' - 3480' 25% +/- Shale, 75% +/- Limestone.
10:30	11:30	1.00	U_DIR	PN	Check Tru-Track, determined one rib not working. Trouble shot problem. Trouble determined to be torque on brake on top drive not set high enough. Called in for orders. Orders were to keep drilling monitoring deviation.
11:30	12:00	0.50	U_DIR	PN	Torque setting on the top drive was set at 16K. We increased the torque to 24K. That is max torque setting. Obtained SPR's. Oriented Tru-Track.
12:00	17:00	5.00	SLDDRLG	PP	Slide Drlg. F/ 3560' - 3612' = 52' in 5hrs. = 10.4' FPH. W/ 855 GPM, 2450 SPP, 28-30k WOB, 137RPM. and an 8.4# wt. and 48 vis.. One soap stick and one vis cup of PHPA every conn. Pump 10 bbl. High and Low vis sweeps w/ 25# lcm, after every conn. and midway kelly down. Sync Tru-Trax every conn. No losses. Formations F/ 3447' - 3480' 70% +/- Sandstone, 30% +/- Shale and volcanics.
17:00	17:30	0.50	DEVSUR	PP	Survey showed 1.4*, Decision made to drill to a max of 4*.
17:30	20:00	2.50	SLDDRLG	PP	Slide Drlg. F/ 3612' - 3752' = 142' in hrs. = 11' FPH. W/ 815 GPM, 2450 SPP, 23k WOB, 130RPM. and an 8.5# wt. and 52 vis.. One soap stick and one vis cup of PHPA every conn. Pump 10 bbl. High and Low vis sweeps w/ 25# lcm, after every conn. and midway kelly down. Sync Tru-Trax every conn. No losses. Formations F/ 3612' - 3752' 45%+/- Sandstone, 30%+/- Dolostone, 25%+/- Shale Total Fuel Used in last 24hrs= 2470gals Last Survey Taken @ 3688' = 2.8 degrees

Mud Properties

Daily Cost: 19,504.05 Cost Cum Cost: 103,038.42 Cost

Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	T Flowline (°F)
03:00	Gel Base	3,601.0	8.50	50	

PV (cp)	YP (lbf/100ft²)	Filtrate (mL/30min)	HTHP Filtrate (mL/30...	HTHP Pressure (psi)	HTHP Temperature (°F)
12.0	10.000	10.0			

Solids (%)	Sand (%)	MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)
4.0	0.1	22.5	8.5	0.030	0.05

Chlorides (ppm)	Calcium (ppm)	Oil Water Ratio	Electric Stab (V)	Lime (lb/bbl)	Low Gravity Solids (%)
120.000		0/100			1.2

Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Comment
8.000	7.000	

Total AFE + Sup (Cost): 9,064,000.00

AFE Job Cost Summary

Cost Type	AFE Amt (Cost)
DHC	7,600,000.00
CWC	1,464,000.00

Field Estimate Job Cost Summary

Cost Type	Field Est (Cost)
DHC	2,169,084.79

Daily Summary

Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
83,634.58	2,094,981.21
Daily Mud Field Est (Cost)	**Cum Mud Field Est (Cost)**
19,504.05	103,038.42

POL (Personnel on Location): 25.0

Daily Contacts

Job Contact	Title
Clifton Everett	Sr. Drlg. Foreman
Derrick Berry	Drlg. Foreman

Personnel Log

Company	Count
PIONEER NATURAL RESOURCES	1
PIONEER NATURAL RESOURCES	1
NABORS DRILLING INC	1
NABORS DRILLING INC	13
BAKER HUGHES INTEQ	2
ZECO	2
SELMA	2
NEWPARK	1
BADLANDZER	2

Weather

Precipitation Amount (in)	Precipitation Type
Temperature - High (°F)	**Temperature - Low (°F)**

Comment

NABORS DRILLING, 169

Rig Type: Drilling - Triple

Rig Start Date	Rig Release Date
9/22/2010	

1, National Supply, 10-P-130

Pump Number: 1

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6 1/2	10.00	0.097

Max Pressure (psi)

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

2, National Supply, 10-P-130

Pump Number: 2

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6 1/2	10.00	0.097

Max Pressure (psi)

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

Job Supply Amounts

Supply Item Des	Unit Label	Received	Consumed	Cum On Loc
Diesel Fuel	gal us	6,958		6,958

Mud Additive Amounts

Des	Consumed	Cum Cons
BULK TANK	2	42
BULK TANK BLOWERS	1	21
Caustic Soda	10	38
Dyna Fiber Cor	14	442
Mica F	124	425
MUD ENGINEER	1	21
MUD LAB	1	14
New Carb Med	14	382
New Gel HY	102	198
NewPac R	4	14
NewPHPA	3	12
NO Foam X	38	96

Safety Summary

BOP Test Date	Last BOP Test	BOP Func Due	HSE Incident	HSE Inc Remark
				None

10/3/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 10/3/2010
REPORT: 38
DOL: 36.77
DFS: 10.60

Rig Name: NABORS DRILLING 169

Depth Progress: 272.00

Daily Summary

Bottom Hole Assembly

BHA Since Insp (hr)	BHA Wt BelowJar (1000lbf)	Hrs on Jars (hr)

BHA #6 , Steerable

Bit Run	Drill Bit	Bit Type	Make
6,RR#5	17 1/2in, HCD507Z, 7019893	PDC	HUGHES

Nozzles (1/32")	IADC Codes	IADC Bit Dull
16/16/16/16/16/16	___	-------

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)
1.37	111.80	3,644.00

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)
75.50	1,562.00	20.7	2,190.0	3,752.0

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
78	Drill Pipe	5	4.276	2,467.41	3,753.05
25	HWDP	5	3.000	767.98	1,285.64
1	Jars	6 3/8	2.875	32.57	517.66
1	HWDP	5	3.000	30.72	485.09
1	X/O	6 3/8	2.813	3.57	454.37
6	6-1/2" DC's	6 1/2	2.875	184.03	450.80
1	X/O	6 1/2	2.813	2.92	266.77
6	8" DC's	8	2.875	183.85	263.85
1	Mechanical Thruster	7 7/8	3.563	30.11	80.00
1	Filter Sub	8	2.875	4.88	49.89
1	Float Sub	8 1/16	2.938	2.49	45.01
1	X/O	8 1/4	3.000	3.12	42.52
1	Stop Sub	9 1/2	3.500	1.25	39.40
1	9-1/2" True Trak, Adjustable Pads w/ Stab	9 1/2		36.60	38.15

Drilling Parameters

3,480.0 - 3,752.0 ftKB

Start (ftKB)	End Depth...	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note
3,480.0	3,752.0	11.3	23			815	2,450.0	

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100...	SO Str Wt (100...	Drill Str Wt (100...	Torque Units	Drilling Torque	Off Btm Tq
24.00		160	160	136			

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/...	Max Open Hole AV (ft...
133.3	0.6	190.9	280.5	15.7	92.5

Casing Strings

Prop Run?	Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
Yes	Conductor	105.0	105.0	30	ERW	118.00		

Plug Back Total Depths

Date	Depth (ftKB)	Type	Method

Deviation Surveys

Tru-Trak, Proposed? No

Date	Description	Job
9/23/2010	Tru-Trak	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
9/26/2010	3,245.00	0.18	0.00	3,244.96				0.00
9/26/2010	3,340.00	0.79	0.00	3,339.96				0.64
9/26/2010	3,436.00	1.58	0.00	3,435.93				0.82
9/26/2010	3,531.00	0.35	0.00	3,530.92				1.29
9/26/2010	3,624.00	176.00	0.00	3,532.85				188.87

Mud Additive Amounts

Des	Consumed	Cum Cons
PALLETS	1	7
SHRINK WRAP	1	7
Tax	1,024	2,534
Trucking	1	9
Wallnut Shell M	59	535

Formations

Formation Name	Final Top MD (ftKB)
Quaternary	
Tertiary Volcanic	
Tertiary Undivided	
North Horn	
UNCONFORMITY	
Arapien	
FAULT	
Arapien	
Twin Creek	
Gypsum Sprgs Mbr	
Navajo	
Chinle	
TD	

Safety Summary

10/3/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 10/4/2010
REPORT: 39
DOL: 37.77
DFS: 11.60

Rig Name: NABORS DRILLING 169

Depth Progress: 68.00

Daily Summary

Property Sub	Field Name	API/UWI	Spud Date
327560-001	WILDCAT	43-023-30021-0000	9/22/2010

KB-Ground Distance (ft)	Original KB Elevation (ft)	KB-Mud Line Distance (ft)
25.00	5,264.00	

Daily Operations

Target Depth (ftKB)	Target Depth (TVD) (ftKB)	End Depth (ftKB)	End Depth (TVD) (ftKB)
9,040.0		3,820.0	

Footage/Meterage (ft)	24 HR ROP (ft/hr)	Drilling Hours (hr)
68.00	9.1	7.50

Avg Connection Gas	Avg Trip Gas	Avg Background Gas	Max Connection Gas	Max Trip Gas	Max Drill Gas
26.00		12.00			

Operations at Report Time
Sliding ahead @ 3820'

Operations Summary
Circ. TOH to C/O Tru-Track and bit @ 3752'.TIH, wash to btm. Hole free and clear no fill. but hit bridge? @ 3594'
Slide F/ 3752' - 3820' w/Rig Service

Note: 107 jts. of 13 3/8" K-55 is on locatiion, 105 usuable, two have float and collar already bucked on. For a total of usable pipe of 4894.43'.

1000' of 13 3/8" L-80 should arrive on location tomorrow.

Remarks
No Incidents, No Accidents, No Spills.

Operations Next Report Period
Drilling 17 1/2" Surface Hole.

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com
06:00	06:30	0.50	DEVSUR	PP	Take survey, survey @ 3720' survey depth is 2.64*, projected at bit 2.64*
06:30	08:00	1.50	CLNBH	PP	Pump sweep, build slug, pump same, get floor ready for TOH>
08:00	12:00	4.00	BHA	PP	TOH to C/O Tru-Track and Bit. Hole free and clear, no loses.
12:00	14:30	2.50	BHA	PP	Break off bit, L/D Tru-Track. P/U rebuilt Tru-Track, M/U new bit a Hughes 17 1/2" MXL 09 Ser. # 6079028..
14:30	17:00	2.50	BHA	PP	Picked back up the old Tru-Trac to remove stop sub. Slips wedge in rotary bowl. Torque sensor damaged, repaired. 8" collars giving the crew problems.
17:00	21:00	4.00	BHA	PP	TIH to 3550' break circulation, 100spm
21:00	21:30	0.50	RIGSER	PP	Rig and Top Drive Service, Circulating hole.
21:30	22:30	1.00	RMWASH	PN	Wash 200' to btm, @ 3594' stacked out on bridge, Reamed and washed through it, free and clear to btm
22:30	06:00	7.50	SLDDRL G	PP	Slide Drlg. F/ 3752' - 3820' = 68' in hrs. = 9' FPH. W/ 856 GPM, 2350 SPP, 45-50k WOB, 137RPM. and an 8.5# wt. and 50 vis.. One soap stick and one vis cup of PHPA every conn. Pump 10 bbl. High and Low vis sweeps w/ 25# lcm, after every conn. and midway kelly down. Sync Tru-Trax every conn. No losses. Formations F/ 3752' - 3820' 40%+/- Sandstone, 35%+/- Dolostone, 25%+/- Shale Total Fuel Used in last 24hrs= 1725gals

Mud Properties

Daily Cost: 4,752.45 Cost Cum Cost: 107,790.87 Cost

Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	T Flowline (°F)
03:30	Gel Base	3,799.0	8.50	51	

PV (cp)	YP (lbf/100ft²)	Filtrate (mL/30min)	HTHP Filtrate (mL/30...	HTHP Pressure (psi)	HTHP Temperature (°F)
7.0	13.000	10.0			

Solids (%)	Sand (%)	MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)
5.0	0.3	22.5	9.0	0.800	0.2

Chlorides (ppm)	Calcium (ppm)	Oil Water Ratio	Electric Stab (V)	Lime (lb/bbl)	Low Gravity Solids (%)
120.000		0/100			10.9

Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Comment
10.000	10.000	

Bottom Hole Assembly

BHA Since Insp (hr)	BHA Wt BelowJar (1000lbf)	Hrs on Jars (hr)

BHA #7 , Steerable

Bit Run	Drill Bit	Bit Type	Make
1	17 1/2in, MXL 09, 6079028	INSERT	HUGHES

Nozzles (1/32")	IADC Codes	IADC Bit Dull
22/22/22/22	___	-------

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)
1.37	59.00	1,358.00

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)
59.00	1,358.00	23.0	2,190.0	3,820.0

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
81	Drill Pipe	5	4.276	2,562.75	3,847.19
25	HWDP	5	3.000	767.98	1,284.44
1	Jars	6 3/8	2.875	32.57	516.46
1	HWDP	5	3.000	30.72	483.89
1	X/O	6 3/8	2.813	3.57	453.17
6	6-1/2" DC's	6 1/2	2.875	184.03	449.60
1	X/O	6 1/2	2.813	2.92	265.57
6	8" DC's	8	2.875	183.85	262.65

Total AFE + Sup (Cost)
9,064,000.00

AFE Job Cost Summary

Cost Type	AFE Amt (Cost)
DHC	7,600,000.00
CWC	1,464,000.00

Field Estimate Job Cost Summary

Cost Type	Field Est (Cost)
DHC	2,181,569.35

Daily Summary

Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
86,588.14	2,181,569.35

Daily Mud Field Est (Cost)	Cum Mud Field Est (Cost)
4,752.45	107,790.87

POL (Personnel on Location)
25.0

Daily Contacts

Job Contact	Title
Clifton Everett	Sr. Drlg. Foreman
Derrick Berry	Drlg. Foreman

Personnel Log

Company	Count
PIONEER NATURAL RESOURCES	1
PIONEER NATURAL RESOURCES	1
NABORS DRILLING INC	1
NABORS DRILLING INC	13
BAKER HUGHES INTEQ	2
ZECO	2
SELMA	2
NEWPARK	1
BADLANDZER	2

Weather

Precipitation Amount (in)	Precipitation Type

Temperature - High (°F)	Temperature - Low (°F)

Comment

NABORS DRILLING, 169

Rig Type
Drilling - Triple

Rig Start Date	Rig Release Date
9/22/2010	

1, National Supply, 10-P-130

Pump Number
1

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6 1/2	10.00	0.097

Max Pressure (psi)

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

2, National Supply, 10-P-130

Pump Number
2

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6 1/2	10.00	0.097

Max Pressure (psi)

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

Job Supply Amounts

Supply Item Des	Unit Label	Received	Consumed	Cum On Loc
Diesel Fuel	gal us	6,958		6,958

Mud Additive Amounts

Des	Consumed	Cum Cons
BULK TANK	2	44
BULK TANK BLOWERS	1	22
Dyna Fiber Cor	15	457
Mica F	7	432
MUD ENGINEER	1	22
MUD LAB	1	15
New Bar	40	68
New Carb Med	14	396
NewGel	63	448
NewPac R	1	15
NewPHPA	2	14
NO Foam X	8	104

Safety Summary

BOP Test Date	Last BOP Test	BOP Func Due	HSE Incident	HSE Inc Remark
				None

10/4/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Daily Drilling Report

Well Name: South Hills 6-1

Rig Name: NABORS DRILLING 169

Depth Progress: 68.00

REPORT DATE: 10/4/2010
REPORT: 39
DOL: 37.77
DFS: 11.60

Daily Summary

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
1	Mechanical Thruster	7 7/8	3.563	30.11	78.80
1	Filter Sub	8	2.875	4.88	48.69
1	Float Sub	8 1/16	2.938	2.49	43.81
1	X/O	8 1/4	3.000	3.12	41.32
1	Stop Sub	9 1/2	3.500	1.25	38.20
1	9-1/2" True Trak, Adjustable Pads w/ Stab	9 1/2		36.95	36.95

Drilling Parameters

3,752.0 - 3,820.0 ftKB

Start (ftKB)	End Depth...	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note
3,752.0	3,820.0	9.1	48			855	2,350.0	

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100...	SO Str Wt (100...	Drill Str Wt (100...	Torque Units	Drilling Torque	Off Btm Tq
7.50		160	160	111			

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/...	Max Open Hole AV (ft...
154.0	0.6	200.2	308.7	16.5	97.0

Casing Strings

Prop Run?	Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
Yes	Conductor	105.0	105.0	30	ERW	118.00		

Plug Back Total Depths

Date	Depth (ftKB)	Type	Method

Deviation Surveys

Tru-Trak, Proposed? No

Date	Description	Job
9/23/2010	Tru-Trak	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
9/26/2010	3,245.00	0.18	0.00	3,244.96				0.00
9/26/2010	3,340.00	0.79	0.00	3,339.96				0.64
9/26/2010	3,436.00	1.58	0.00	3,435.93				0.82
9/26/2010	3,531.00	0.35	0.00	3,530.92				1.29
9/26/2010	3,624.00	176.00	0.00	3,532.85				188.87

Mud Additive Amounts

Des	Consumed	Cum Cons
Tax	241	2,775

Formations

Formation Name	Final Top MD (ftKB)
Quaternary	
Tertiary Volcanic	
Tertiary Undivided	
North Horn	
UNCONFORMITY	
Arapien	
FAULT	
Arapien	
Twin Creek	
Gypsum Sprgs Mbr	
Navajo	
Chinle	
TD	

Safety Summary

10/4/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 10/5/2010
REPORT: 40
DOL: 38.77
DFS: 12.60

Rig Name: NABORS DRILLING 169

Depth Progress: 87.00

Daily Summary

Property Sub	Field Name	API/UWI	Spud Date
327560-001	WILDCAT	43-023-30021-0000	9/22/2010

KB-Ground Distance (ft)	Original KB Elevation (ft)	KB-Mud Line Distance (ft)
25.00	5,264.00	

Daily Operations

Target Depth (ftKB)	Target Depth (TVD) (ftKB)	End Depth (ftKB)	End Depth (TVD) (ftKB)
9,040.0		3,907.0	

Footage/Meterage (ft)	24 HR ROP (ft/hr)	Drilling Hours (hr)
87.00	7.6	11.50

Avg Connection Gas	Avg Trip Gas	Avg Background Gas	Max Connection Gas	Max Trip Gas	Max Drill Gas
26.00		12.00			

Operations at Report Time
Sliding ahead @ 3907'

Operations Summary
Sliding W/ Surveys F/ 3820' - 3907'
POOH, Changed Bit, RIH w/ PDC, wash 188' to bottom (hole free and clear),
Slide Dlrg on Btm @ 3907' at report time, adjusting WOB to maximum ROP.

Note: 22 jts of 13 3/8" L-80 Buttress arrived on location this morning.

Remarks
No Incidents, No Accidents, No Spills.

Operations Next Report Period
Drilling 17 1/2" Surface Hole.

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com
06:00	09:00	3.00	SLDDRLG	PP	Slide Drlg. F/ 3820' - 3847' = 27' in 3hrs. = 9' FPH. W/ 856 GPM, 2350 SPP, 45-50k WOB, 137RPM. and an 8.5# wt. and 50 vis.. One soap stick and one vis cup of PHPA every conn. Pump 10 bbl. High and Low vis sweeps w/ 25# lcm, after every conn. and midway kelly down. Sync Tru-Trax every conn. No losses. Formations F/ 3820' - 3847' 40%+/- Sandstone, 35%+/- Dolostone, 25%+/- Shale Top of Northorn @ 3810'/3820'.
09:00	10:00	1.00	DEVSUR	PP	Survey, orient tool, connection. Survey @ 3816' 1.05*. Bit depth 3847'.
10:00	11:30	1.50	SLDDRLG	PP	Slide Drlg. F/ 3847' - 3861' = 14' in 0hrs. = 9.3' FPH. W/ 650 GPM 80 x 80, 1400 SPP, Varying WOB tryinig to increase ROP, 50K - 60K, 137RPM. and an 8.5# wt. and 50 vis.. One soap stick and one vis cup of PHPA every conn. Pump 10 bbl. High and Low vis sweeps w/ 25# lcm, after every conn. and midway kelly down. Sync Tru-Trax every conn. No losses.
11:30	12:00	0.50	SLDDRLG	PP	At 60K bit slowed down to 2 fph. Picked bit up off btm. ran a nut shell sweep to clean bit. started over on bit weight.
12:00	18:30	6.50	SLDDRLG	PP	Slide Drlg. F/ 3861' - 3907' = 46' in 6.5hrs. = 7' FPH. W/ 850 GPM 105 x 105, 1800 SPP, Worked bit up to 40 to 45K seems to be optimum.. An 8.5# wt. and 50 vis.. One soap stick and one vis cup of PHPA every conn. Pump 10 bbl. High and Low vis sweeps w/ 25# lcm, after every conn. and midway kelly down. Sync Tru-Trax every conn. No losses.
18:30	19:00	0.50	CIRC	PP	Pick up off btm, Circulate hole while mixing Slug to TOOH.
19:00	01:00	6.00	BHA	PP	TOOH with DP and BHA to change Bit, broke out Insert bit and M/U PDC.
01:00	04:30	3.50	TRIP	PP	TIH with BHA and DP to 3720', hole free and clear no fill.
04:30	05:30	1.00	WA	PP	Filled pipe at slow rate and broke circulation, Wash down 188' to btm.
05:30	06:00	0.50	SLDDRLG	PP	On Btm @ 3907', adjusting WOB to find sweet spot @ report time. Formations: 70%+/- Shale, 15%+/- Sandstone, 10%+/- Dolostone Total Fuel Used in last 24hrs= 1625 gals

Mud Properties

Daily Cost: 7,499.55 Cost Cum Cost: 123,845.07 Cost

Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	T Flowline (°F)
03:30	Gel Base	3,907.0	8.50	52	

PV (cp)	YP (lbf/100ft²)	Filtrate (mL/30min)	HTHP Filtrate (mL/30...	HTHP Pressure (psi)	HTHP Temperature (°F)
7.0	13.000	10.0			

Solids (%)	Sand (%)	MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)
1.2	0.3	22.5	9.0	0.700	0.2

Chlorides (ppm)	Calcium (ppm)	Oil Water Ratio	Electric Stab (V)	Lime (lb/bbl)	Low Gravity Solids (%)
120.000		0/100			10.9

Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Comment
10.000	9.000	

Bottom Hole Assembly

BHA Since Insp (hr)	BHA Wt BelowJar (1000lbf)	Hrs on Jars (hr)

Total AFE + Sup (Cost)
9,064,000.00

AFE Job Cost Summary

Cost Type	AFE Amt (Cost)
DHC	7,600,000.00
CWC	1,464,000.00

Field Estimate Job Cost Summary

Cost Type	Field Est (Cost)
DHC	2,309,792.90

Daily Summary

Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
133,068.94	2,309,792.90
Daily Mud Field Est (Cost)	**Cum Mud Field Est (Cost)**
7,499.55	123,845.07

POL (Personnel on Location)
25.0

Daily Contacts

Job Contact	Title
Clifton Everett	Sr. Drlg. Foreman
Derrick Berry	Drlg. Foreman

Personnel Log

Company	Count
PIONEER NATURAL RESOURCES	1
PIONEER NATURAL RESOURCES	1
NABORS DRILLING INC	1
NABORS DRILLING INC	13
BAKER HUGHES INTEQ	2
ZECO	2
SELMA	2
NEWPARK	1
BADLANDZER	2

Weather

Precipitation Amount (in)	Precipitation Type
Temperature - High (°F)	**Temperature - Low (°F)**

Comment

NABORS DRILLING, 169

Rig Type
Drilling - Triple

Rig Start Date	Rig Release Date
9/22/2010	

1, National Supply, 10-P-130

Pump Number
1

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6 1/2	10.00	0.097

Max Pressure (psi)

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

2, National Supply, 10-P-130

Pump Number
2

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6 1/2	10.00	0.097

Max Pressure (psi)

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

Job Supply Amounts

Supply Item Des	Unit Label	Received	Consumed	Cum On Loc
Diesel Fuel	gal us	6,958		6,958

Mud Additive Amounts

Des	Consumed	Cum Cons
BULK TANK	2	46
BULK TANK BLOWERS	1	23
Dyna Fiber Cor	14	471
DynaDet	7	43
MUD ENGINEER	1	23
MUD LAB	1	16
New Bar	40	108
New Carb Med	14	410
New Gel HY	80	278
NewGel	32	480
NewPac R		15
NewPHPA	1	15

Safety Summary

BOP Test Date	Last BOP Test	BOP Func Due	HSE Incident	HSE Inc Remark
				None

10/5/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 10/5/2010
REPORT: 40
DOL: 38.77
DFS: 12.60

Rig Name: NABORS DRILLING 169

Depth Progress: 87.00

Daily Summary

BHA #8 , Steerable

Bit Run	Drill Bit	Bit Type	Make
1	17 1/2in, HCD507Z, 7019893	PDC	HUGHES

Nozzles (1/32")	IADC Codes	IADC Bit Dull
16/16/16/16/16/16	___	-------

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)
1.37	106.80	3,527.00

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)
70.50	1,445.00	20.5	2,190.0	3,907.0

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
83	Drill Pipe	5	4.276	2,626.33	3,912.32
25	HWDP	5	3.000	767.98	1,285.99
1	Jars	6 3/8	2.875	32.57	518.01
1	HWDP	5	3.000	30.72	485.44
1	X/O	6 3/8	2.813	3.57	454.72
6	6-1/2" DC's	6 1/2	2.875	184.03	451.15
1	X/O	6 1/2	2.813	2.92	267.12
6	8" DC's	8	2.875	183.85	264.20
1	Mechanical Thruster	7 7/8	3.563	30.11	80.35
1	Filter Sub	8	2.875	4.88	50.24
1	Float Sub	8 1/16	2.938	2.49	45.36
1	X/O	8 1/4	3.000	3.12	42.87
1	Stop Sub	9 1/2	3.500	1.25	39.75
1	9-1/2" True Trak, Adjustable Pads w/ Stab	9 1/2		36.95	38.50

Drilling Parameters

3,820.0 - 3,907.0 ftKB

Start (ftKB)	End Depth...	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note
3,820.0	3,907.0	7.6	48			855	1,800.0	

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100...	SO Str Wt (100...	Drill Str Wt (100...	Torque Units	Drilling Torque	Off Btm Tq
11.50		160	160	111			

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/...	Max Open Hole AV (ft...
154.0	0.6	200.2	308.7	16.5	97.0

Casing Strings

Prop Run?	Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
Yes	Conductor	105.0	105.0	30	ERW	118.00		

Plug Back Total Depths

Date	Depth (ftKB)	Type	Method

Deviation Surveys

Tru-Trak, Proposed? No

Date	Description	Job
9/23/2010	Tru-Trak	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
9/26/2010	3,436.00	1.58	0.00	3,435.93				0.82
9/26/2010	3,531.00	0.35	0.00	3,530.92				1.29
9/26/2010	3,624.00	1.76	0.00	3,623.90				1.52
9/26/2010	3,720.00	2.64	0.00	3,719.83				0.92
9/26/2010	3,816.00	1.05	0.00	3,815.78				1.66

Mud Additive Amounts

Des	Consumed	Cum Cons
NO Foam X	9	113
PALLETS	1	8
SHRINK WRAP	1	8
Soda Ash	1	16
Tax	306	3,081
Trucking	1	10

Formations

Formation Name	Final Top MD (ftKB)
Quaternary	
Tertiary Volcanic	
Tertiary Undivided	
North Horn	
UNCONFORMITY	
Arapien	
FAULT	
Arapien	
Twin Creek	
Gypsum Sprgs Mbr	
Navajo	
Chinle	
TD	

Safety Summary

10/5/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 10/6/2010
REPORT: 41
DOL: 39.77
DFS: 13.60

Rig Name: NABORS DRILLING 169

Depth Progress: 233.00

Daily Summary

Property Sub	Field Name	API/UWI	Spud Date
327560-001	WILDCAT	43-023-30021-0000	9/22/2010

KB-Ground Distance (ft)	Original KB Elevation (ft)	KB-Mud Line Distance (ft)
25.00	5,264.00	

Daily Operations

Target Depth (ftKB)	Target Depth (TVD) (ftKB)	End Depth (ftKB)	End Depth (TVD) (ftKB)
9,040.0		4,140.0	

Footage/Meterage (ft)	24 HR ROP (ft/hr)	Drilling Hours (hr)
233.00	11.1	21.00

Avg Connection Gas	Avg Trip Gas	Avg Background Gas	Max Connection Gas	Max Trip Gas	Max Drill Gas
		8.00			

Operations at Report Time
Sliding ahead @ 4140'

Operations Summary
Work varying parameters to obtain best P-Rate. Sliding W/ Surveys F/ 3920' - 4140' w/ Rig service and Top drive Service.
Last Survey @ 4098' was 1.05degrees.

Remarks
No Incidents, No Accidents, No Spills.

Operations Next Report Period
Drilling 17 1/2" Surface Hole.

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com
06:00	07:00	1.00	SLDDRL G	PP	String wanting to turn back words. Check Top Drive thoroughly, checked out OK, but have a tech coming to make sure.
07:00	08:00	1.00	SLDDRL G	PP	Playing with bit weight still spinning back words. The brake just will not hold it. Mike Reel, came up with a solution that so far is working, we have engaged the top drive to put some force on the string along with the brake. We still are blowing Pop-Offs, and the SPP is no where near the nail rating. We plan on rebuilding or replaceing the pop-offs prior to drilling out shoe.
08:00	14:30	6.50	SLDDRL G	PP	Slide Drlg. F/ 3920' - 4015' = 95' in 6.5 hrs. = 14.6' FPH. W/ 850 GPM 100 x 100, 2300 SPP, WOB 30K-35K, seems to be optimum.. An 8.5# wt. and 50 vis.. One soap stick and one vis cup of PHPA every conn. Pump 10 bbl. High and Low vis sweeps w/ 25# lcm, after every conn. and midway kelly down. Sync Tru-Trax every conn. No losses.
14:30	17:30	3.00	RIGSER	PP	TOH 1 stand to check top drive. Can Rig tech has arrived on location. The technition found, the set screw in the handle of the brake bleed off valve had come out, allowing the valve to be partiallly open while appearing to be shut. They believe that this is the problem. I told them not to take any chances and leave the torque on the drive motor of the top drive.
17:30	23:30	6.00	SLDDRL G	PP	Slide Drlg. F/ 4005' - 4081' = 76' in 5hrs. = 15 FPH. W/ 850 GPM 100 x 100, 2300 SPP, WOB 30K-35K, seems to be optimum.. An 8.5# wt. and 50 vis.. One soap stick and one vis cup of PHPA every conn. Pump 10 bbl. High and Low vis sweeps w/ 25# lcm, after every conn. and midway kelly down. Sync Tru-Trax every conn. No losses.
23:30	00:30	1.00	RIGSER	PP	Rig Service, (seat in pump #1 washed out, pulled and instal new one)
00:30	06:00	5.50	SLDDRL G	PP	Slide Drlg. F/ 4081' - 4140' = 59' in 5.5hrs. = 11 FPH. W/ 850 GPM 100 x 100, 2500 SPP, WOB 28K-32K, seems to be optimum.. An 8.5# wt. and 50 vis.. One soap stick and one vis cup of PHPA every conn. Pump 10 bbl. High and Low vis sweeps w/ 25# lcm, after every conn. and midway kelly down. Sync Tru-Trax every conn. No losses. Formations= 85%+/- Shale, 10%+/- Dolomite, 5%+/- Limestone Total fuel usage last 24hrs= 2175gals

Mud Properties

Daily Cost: 2,383.85 Cost Cum Cost: 145,686.72 Cost

Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	T Flowline (°F)
03:00	Gel Base	4,120.0	8.50	50	

PV (cp)	YP (lbf/100ft²)	Filtrate (mL/30min)	HTHP Filtrate (mL/30...	HTHP Pressure (psi)	HTHP Temperature (°F)
8.0	16.000	9.0			

Solids (%)	Sand (%)	MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)
7.0	0.8	23.0	8.5	0.500	0.1

Chlorides (ppm)	Calcium (ppm)	Oil Water Ratio	Electric Stab (V)	Lime (lb/bbl)	Low Gravity Solids (%)
120.000		0/100			1.2

Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Comment
12.000	11.000	

Bottom Hole Assembly

BHA Since Insp (hr)	BHA Wt BelowJar (1000lbf)	Hrs on Jars (hr)

Total AFE + Sup (Cost)
9,064,000.00

AFE Job Cost Summary

Cost Type	AFE Amt (Cost)
DHC	7,600,000.00
CWC	1,464,000.00

Field Estimate Job Cost Summary

Cost Type	Field Est (Cost)
DHC	2,366,435.09

Daily Summary

Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
56,837.19	2,366,435.09
Daily Mud Field Est (Cost)	**Cum Mud Field Est (Cost)**
2,383.85	145,686.72

POL (Personnel on Location)
25.0

Daily Contacts

Job Contact	Title
Clifton Everett	Sr. Drlg. Foreman
Derrick Berry	Drlg. Foreman

Personnel Log

Company	Count
PIONEER NATURAL RESOURCES	1
PIONEER NATURAL RESOURCES	1
NABORS DRILLING INC	1
NABORS DRILLING INC	13
BAKER HUGHES INTEQ	2
ZECO	2
SELMA	2
NEWPARK	1
BADLANDZER	2

Weather

Precipitation Amount (in)	Precipitation Type
Temperature - High (°F)	**Temperature - Low (°F)**

Comment

NABORS DRILLING, 169

Rig Type
Drilling - Triple

Rig Start Date	Rig Release Date
9/22/2010	

1, National Supply, 10-P-130

Pump Number
1

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6 1/2	10.00	0.097

Max Pressure (psi)

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

2, National Supply, 10-P-130

Pump Number
2

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6 1/2	10.00	0.097

Max Pressure (psi)

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

Job Supply Amounts

Supply Item Des	Unit Label	Received	Consumed	Cum On Loc
Diesel Fuel	gal us	6,958		6,958

Mud Additive Amounts

Des	Consumed	Cum Cons
BULK TANK	2	48
BULK TANK BLOWERS	1	24
Caustic Soda	1	39
Desco CF	1	4
Dyna Fiber Cor	1	472
DynaDet	1	44
Mica F	-174	258
MUD ENGINEER	1	24
MUD LAB	1	17
New Bar	19	127
New Carb Med	21	431
New Gel HY	58	336

Safety Summary

BOP Test Date	Last BOP Test	BOP Func Due	HSE Incident	HSE Inc Remark

10/6/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 10/6/2010
REPORT: 41
DOL: 39.77
DFS: 13.60

Rig Name: NABORS DRILLING 169

Depth Progress: 233.00

Daily Summary

BHA #8 , Steerable

Bit Run	Drill Bit	Bit Type	Make
1	17 1/2in, HCD507Z, 7019893	PDC	HUGHES

Nozzles (1/32")	IADC Codes	IADC Bit Dull
16/16/16/16/16/16	___	-------

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)
1.37	127.80	3,760.00

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)
91.50	1,678.00	18.3	2,190.0	4,140.0

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
83	Drill Pipe	5	4.276	2,626.33	3,912.32
25	HWDP	5	3.000	767.98	1,285.99
1	Jars	6 3/8	2.875	32.57	518.01
1	HWDP	5	3.000	30.72	485.44
1	X/O	6 3/8	2.813	3.57	454.72
6	6-1/2" DC's	6 1/2	2.875	184.03	451.15
1	X/O	6 1/2	2.813	2.92	267.12
6	8" DC's	8	2.875	183.85	264.20
1	Mechanical Thruster	7 7/8	3.563	30.11	80.35
1	Filter Sub	8	2.875	4.88	50.24
1	Float Sub	8 1/16	2.938	2.49	45.36
1	X/O	8 1/4	3.000	3.12	42.87
1	Stop Sub	9 1/2	3.500	1.25	39.75
1	9-1/2" True Trak, Adjustable Pads w/ Stab	9 1/2		36.95	38.50

Drilling Parameters

3,907.0 - 4,140.0 ftKB

Start (ftKB)	End Depth...	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note
3,907.0	4,140.0	11.1	30			855	2,500.0	

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100...	SO Str Wt (100...	Drill Str Wt (100...	Torque Units	Drilling Torque	Off Btm Tq
21.00		171	171	140			

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/...	Max Open Hole AV (ft...
154.0	0.6	200.2	308.7	16.5	97.0

Casing Strings

Prop Run?	Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
Yes	Conductor	105.0	105.0	30	ERW	118.00		

Plug Back Total Depths

Date	Depth (ftKB)	Type	Method

Deviation Surveys

Tru-Trak, Proposed? No

Date	Description	Job
9/23/2010	Tru-Trak	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
9/26/2010	3,720.00	2.64	0.00	3,719.83				0.92
9/26/2010	3,816.00	1.05	0.00	3,815.78				1.66
9/26/2010	3,910.00	0.26	0.00	3,909.77				0.84
9/26/2010	4,004.00	0.35	0.00	4,003.77				0.10
9/26/2010	4,098.00	1.05	0.00	4,097.76				0.74

Mud Additive Amounts

Des	Consumed	Cum Cons
NewGel	10	490
NewPac R	5	20
Soda Ash	1	17
Tax	-93	2,987
Trucking	1	11

Formations

Formation Name	Final Top MD (ftKB)
Quaternary	
Tertiary Volcanic	
Tertiary Undivided	
North Horn	
UNCONFORMITY	
Arapien	
FAULT	
Arapien	
Twin Creek	
Gypsum Sprgs Mbr	
Navajo	
Chinle	
TD	

Safety Summary

10/6/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 10/7/2010
REPORT: 42
DOL: 40.77
DFS: 14.60

Rig Name: NABORS DRILLING 169

Depth Progress: 158.00

Daily Summary

Property Sub	Field Name	API/UWI	Spud Date
327560-001	WILDCAT	43-023-30021-0000	9/22/2010

KB-Ground Distance (ft)	Original KB Elevation (ft)	KB-Mud Line Distance (ft)
25.00	5,264.00	

Daily Operations

Target Depth (ftKB)	Target Depth (TVD) (ftKB)	End Depth (ftKB)	End Depth (TVD) (ftKB)
9,040.0		4,298.0	

Footage/Meterage (ft)	24 HR ROP (ft/hr)	Drilling Hours (hr)
158.00	10.5	15.00

Avg Connection Gas	Avg Trip Gas	Avg Background Gas	Max Connection Gas	Max Trip Gas	Max Drill Gas
		10.00			

Operations at Report Time
Sliding ahead @ 4298'

Operations Summary
Slide F/ 4140' - 4280', W/ Surveys and Rig Service. Rig Repair (Valves in Pumps) Slide F/ 4280' to 4298'. 158' in 15 hrs = 10.5' FPH

Remarks
No Incidents, No Accidents, No Spills.

Operations Next Report Period
Drilling 17 1/2" Surface Hole.

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com
06:00	08:00	2.00	SLDDRLG	PP	Slide Drlg. F/ 4140' - 4158' = 18' in 2.0hrs. = 9 FPH. W/ 850 GPM 100 x 100, 2500 SPP, WOB 28K-32K, seems to be optimum.. An 8.5# wt. and 50 vis.. One soap stick and one vis cup of PHPA every conn. Pump 10 bbl. High and Low vis sweeps w/ 25# lcm, after every conn. and midway kelly down. Sync Tru-Trax every conn. No losses.
08:00	08:30	0.50	U_RIG	PN	Tighten clamp on pony rod. Pump # 1
08:30	14:30	6.00	SLDDRLG	PP	Slide Drlg. F/ 4158' - 4250' = 92' in 8 hrs. = 11.5' FPH. W/ 850 GPM 100 x 100, 2500 SPP, WOB 28K-32K, seems to be optimum.. An 8.5# wt. and 50 vis.. One soap stick and one vis cup of PHPA every conn. Pump 10 bbl. High and Low vis sweeps w/ 25# lcm, after every conn. and midway kelly down. Sync Tru-Trax every conn. No losses.
14:30	18:00	3.50	SLDDRLG	PP	Slide Drlg. F/ 4250' - 4280' = 30' in 3.5 hrs. = 8.5' FPH. W/ 850 GPM 100 x 100, 2500 SPP, WOB 28K-32K, seems to be optimum.. An 8.5# wt. and 50 vis.. One soap stick and one vis cup of PHPA every conn. Pump 10 bbl. High and Low vis sweeps w/ 25# lcm, after every conn. and midway kelly down. Sync Tru-Trax every conn. No losses.
18:00	02:30	8.50	U_RIG	PN	Slight drop in pump pressure, take #2 pump off hole, continue to circulate hole with #1 pump (70 SPM) and trouble shoot. Found that 3 discharge valves were washed out. Hot shot new pump parts from Price Ut. Pump bottoms up, circulating and pulling one stand every hour, (pull to 4033' 3 stands.) until pump is back repaired. Parts on location at 00:30 hrs. Go through both pumps, changed all (6) discharge valves, and 2 suction valves. TIH 2 stands, wash last stand down, hit pop offs twice, 100 stks on each pump. Good circulation, pressure lined out @ 2300 PSI, off bottom. Sync Tru Track tool.
02:30	06:00	3.50	SLDDRLG	PP	Slide Drlg. F/ 4280' - 4298' = 18' in 3.5 hrs. = 5.1' FPH. W/ 850 GPM 100 x 100, 2500 SPP, WOB 28K-40K, to get optimum P-Rate. An 8.5# wt. and 50 vis. Pump Nut Plug Sweeps to clean bit. No losses. Used 2100 gallons of fuel over last 24 hours. 300 bbls 10 lb kill mud, building to 500 bbls.

Mud Properties

Daily Cost: 3,344.70 Cost Cum Cost: 149,031.42 Cost

Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	T Flowline (°F)
04:00	Gel Base	4,285.0	8.50	48	130.4

PV (cp)	YP (lbf/100ft²)	Filtrate (mL/30min)	HTHP Filtrate (mL/30...	HTHP Pressure (psi)	HTHP Temperature (°F)
9.0	13.000	9.0			

Solids (%)	Sand (%)	MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)
6.0	0.8	22.0	8.5	0.500	0.1

Chlorides (ppm)	Calcium (ppm)	Oil Water Ratio	Electric Stab (V)	Lime (lb/bbl)	Low Gravity Solids (%)
120.000		0/100			1.2

Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Comment
8.000	10.000	

Bottom Hole Assembly

BHA Since Insp (hr)	BHA Wt BelowJar (1000lbf)	Hrs on Jars (hr)

BHA #8 , Steerable

Bit Run	Drill Bit	Bit Type	Make
1	17 1/2in, HCD507Z, 7019893	PDC	HUGHES

Nozzles (1/32")	IADC Codes	IADC Bit Dull
16/16/16/16/16/16	___	-------

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)
1.37	142.80	3,918.00

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)
106.50	1,836.00	17.2	2,190.0	4,298.0

Total AFE + Sup (Cost)
9,064,000.00

AFE Job Cost Summary

Cost Type	AFE Amt (Cost)
DHC	7,600,000.00
CWC	1,464,000.00

Field Estimate Job Cost Summary

Cost Type	Field Est (Cost)
DHC	2,437,495.28

Daily Summary

Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
71,060.19	2,437,495.28
Daily Mud Field Est (Cost)	Cum Mud Field Est (Cost)
3,344.70	149,031.42

POL (Personnel on Location)
25.0

Daily Contacts

Job Contact	Title
Clifton Everett	Sr. Drlg. Foreman
Billy Vigil	Drilling Foreman

Personnel Log

Company	Count
PIONEER NATURAL RESOURCES	1
PIONEER NATURAL RESOURCES	1
NABORS DRILLING INC	1
NABORS DRILLING INC	13
BAKER HUGHES INTEQ	2
ZECO	2
SELMA	2
NEWPARK	1
BADLANDZER	2

Weather

Precipitation Amount (in)	Precipitation Type
Temperature - High (°F)	Temperature - Low (°F)

Comment

NABORS DRILLING, 169

Rig Type
Drilling - Triple

Rig Start Date	Rig Release Date
9/22/2010	

1, National Supply, 10-P-130

Pump Number
1

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6 1/2	10.00	0.097

Max Pressure (psi)

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

2, National Supply, 10-P-130

Pump Number
2

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6 1/2	10.00	0.097

Max Pressure (psi)

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

Job Supply Amounts

Supply Item Des	Unit Label	Received	Consumed	Cum On Loc
Diesel Fuel	gal us	6,958		6,958

Mud Additive Amounts

Des	Consumed	Cum Cons
Bar Bulk	8	8
BULK TANK	2	50
BULK TANK BLOWERS	2	26
Caustic Soda	1	40
Desco CF	2	6
Dyna Fiber Cor	28	500
Mica F	30	288
New Carb Med	17	448
NewGel	56	546
Soda Ash	3	20
Wallnut Shell M	17	552

Safety Summary

BOP Test Date	Last BOP Test	BOP Func Due	HSE Incident	HSE Inc Remark

10/7/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 10/7/2010
REPORT: 42
DOL: 40.77
DFS: 14.60

Rig Name: NABORS DRILLING 169

Depth Progress: 158.00

Daily Summary

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
95	Drill Pipe	5	4.276	3,012.45	4,298.44
25	HWDP	5	3.000	768.00	1,285.99
1	Jars	6 3/8	2.875	32.57	517.99
1	HWDP	5	3.000	30.72	485.42
1	X/O	6 3/8	2.813	3.57	454.70
6	6-1/2" DC's	6 1/2	2.875	184.02	451.13
1	X/O	6 1/2	2.813	2.92	267.11
6	8" DC's	8	2.875	183.84	264.19
1	Mechanical Thruster	7 7/8	3.563	30.11	80.35
1	Filter Sub	8	2.875	4.88	50.24
1	Float Sub	8 1/16	2.938	2.49	45.36
1	X/O	8 1/4	3.000	3.12	42.87
1	Stop Sub	9 1/2	3.500	1.25	39.75
1	9-1/2" True Trak, Adjustable Pads w/ Stab	9 1/2		36.95	38.50

Drilling Parameters

4,140.0 - 4,298.0 ftKB

Start (ftKB)	End Depth...	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note
4,140.0	4,298.0	10.5	30			855	2,500.0	

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100...	SO Str Wt (100...	Drill Str Wt (100...	Torque Units	Drilling Torque	Off Btm Tq
15.00	9.00	176	172	140			

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/...	Max Open Hole AV (ft...
154.0	0.6	200.2	308.7	16.5	97.0

Casing Strings

Prop Run?	Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
Yes	Conductor	105.0	105.0	30	ERW	118.00		

Plug Back Total Depths

Date	Depth (ftKB)	Type	Method

Deviation Surveys

Tru-Trak, Proposed? No

Date	Description	Job
9/23/2010	Tru-Trak	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
9/26/2010	3,816.00	1.05	0.00	3,815.78				1.66
9/26/2010	3,910.00	0.26	0.00	3,909.77				0.84
9/26/2010	4,004.00	0.35	0.00	4,003.77				0.10
9/26/2010	4,098.00	1.05	0.00	4,097.76				0.74
10/6/2010	4,193.00	2.29	0.00	4,192.72				1.31

Formations

Formation Name	Final Top MD (ftKB)
Quaternary	
Tertiary Volcanic	
Tertiary Undivided	
North Horn	
UNCONFORMITY	
Arapien	
FAULT	
Arapien	
Twin Creek	
Gypsum Sprgs Mbr	
Navajo	
Chinle	
TD	

Safety Summary

10/7/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 10/8/2010
REPORT: 43
DOL: 41.77
DFS: 15.60

Rig Name: NABORS DRILLING 169

Depth Progress: 15.00

Daily Summary

Property Sub	Field Name	API/UWI	Spud Date
327560-001	WILDCAT	43-023-30021-0000	9/22/2010

KB-Ground Distance (ft)	Original KB Elevation (ft)	KB-Mud Line Distance (ft)
25.00	5,264.00	

Daily Operations

Target Depth (ftKB)	Target Depth (TVD) (ftKB)	End Depth (ftKB)	End Depth (TVD) (ftKB)
9,040.0		4,313.0	

Footage/Meterage (ft)	24 HR ROP (ft/hr)	Drilling Hours (hr)
15.00	2.7	5.50

Avg Connection Gas	Avg Trip Gas	Avg Background Gas	Max Connection Gas	Max Trip Gas	Max Drill Gas
		11.00			

Operations at Report Time
TIH W/ New 17 1/2" PDC and Verti-Track.

Operations Summary
Slide F/ 4298' - 4314', TOH to C/O bit and Tru-Trac. MU 17 1/2" Smith PDC, and new Verti-Track, Rig Service. Both crews changed out, two new crews making this trip, slow,slow.

Remarks
No Incidents, No Accidents, No Spills.

Operations Next Report Period
Drilling 17 1/2" Surface Hole.

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com
06:00	11:30	5.50	SLDDRLG	PP	Slide Drlg. F/ 4298' - 4314' = 16' in 5.5 hrs. = 2.9' FPH. W/ 850 GPM 100 x 100, 2500 SPP, WOB 25K-65K, to get optimum P-Rate. An 8.5# wt. and 50 vis. Pump Nut Plug Sweeps to clean bit. No losses. 4300' 75% Dolomite 10% Limestone 15 % Shale 4310' 85% Shale 10% Dolomite 5% Limestone
11:30	12:30	1.00	CLNBH	PP	Take survey, build and pump slug.
12:30	20:30	8.00	BHA	PP	TOH to C/O Bit and BHA
20:30	23:30	3.00	BHA	PP	Break out bit, Tru-Track motor, stop sub, inspect float sub, & filter sub.
23:30	00:30	1.00	BHA	PP	LD Tru-Track, and X-Over.
00:30	01:30	1.00	BHA	PP	PU new Verti-Track, Stab, and new 17 1/2" SDSi-716 PDC.
01:30	03:30	2.00	BHA	PP	Dress Smith PDC W/ 4-14's, and 6- 13's, install bit breaker, pull bushings, and set in table. MU 17 1/2" Smith 7 blade PDC SDSi-716 (SN- JD0402), Verti-Track 3 rib motor, Stop sub, X-O, Float sub, Filter sub, & Mechanical Thruster.
03:30	04:00	0.50	RIGSER	PP	Rig Service. Housekeeping on Rig Floor.
04:00	05:30	1.50	RIGSER	PP	Top Drive Service: Change out gripper blocks on back up wrench, Add oil to top drive, Top Drive inspection.
05:30	06:00	0.50	U_OTR	PN	Preparing to TIH. Note: Both crews changed out, so we had all new people making this trip, slow, slow. 300 BBl. Kill mud made up 943 gal. of diesel used in the last 24 hrs.

Mud Properties

Daily Cost: 948.95 Cost Cum Cost: 149,980.37 Cost

Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	T Flowline (°F)
03:00	Gel Base	4,313.0	8.50	52	78.0

PV (cp)	YP (lbf/100ft²)	Filtrate (mL/30min)	HTHP Filtrate (mL/30...	HTHP Pressure (psi)	HTHP Temperature (°F)
11.0	14.000	10.0			

Solids (%)	Sand (%)	MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)
6.0	8.0	22.0	8.5	0.500	0.1

Chlorides (ppm)	Calcium (ppm)	Oil Water Ratio	Electric Stab (V)	Lime (lb/bbl)	Low Gravity Solids (%)
120.000		0/100			

Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Comment
12.000	12.000	

Bottom Hole Assembly

BHA Since Insp (hr)	BHA Wt BelowJar (1000lbf)	Hrs on Jars (hr)

BHA #8 , Steerable

Bit Run	Drill Bit	Bit Type	Make
1	17 1/2in, HCD507Z, 7019893	PDC	HUGHES

Nozzles (1/32")	IADC Codes	IADC Bit Dull
16/16/16/16/16/16	___	-------

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)
1.37	148.30	3,933.00

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)
112.00	1,851.00	16.5	2,190.0	4,313.0

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
95	Drill Pipe	5	4.276	3,012.45	4,298.44
25	HWDP	5	3.000	768.00	1,285.99
1	Jars	6 3/8	2.875	32.57	517.99
1	HWDP	5	3.000	30.72	485.42
1	X/O	6 3/8	2.813	3.57	454.70
6	6-1/2" DC's	6 1/2	2.875	184.02	451.13

Total AFE + Sup (Cost)
9,064,000.00

AFE Job Cost Summary

Cost Type	AFE Amt (Cost)
DHC	7,600,000.00
CWC	1,464,000.00

Field Estimate Job Cost Summary

Cost Type	Field Est (Cost)
DHC	2,487,560.47

Daily Summary

Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
65,265.19	2,487,560.47

Daily Mud Field Est (Cost)	Cum Mud Field Est (Cost)
948.95	149,980.37

POL (Personnel on Location)
25.0

Daily Contacts

Job Contact	Title
Clifton Everett	Sr. Drlg. Foreman
Billy Vigil	Drilling Foreman

Personnel Log

Company	Count
PIONEER NATURAL RESOURCES	1
PIONEER NATURAL RESOURCES	1
NABORS DRILLING INC	1
NABORS DRILLING INC	13
BAKER HUGHES INTEQ	2
ZECO	2
SELMA	2
NEWPARK	1
BADLANDZER	2

Weather

Precipitation Amount (in)	Precipitation Type

Temperature - High (°F)	Temperature - Low (°F)

Comment

NABORS DRILLING, 169

Rig Type
Drilling - Triple

Rig Start Date	Rig Release Date
9/22/2010	

1, National Supply, 10-P-130

Pump Number
1

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6 1/2	10.00	0.097

Max Pressure (psi)

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

2, National Supply, 10-P-130

Pump Number
2

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6 1/2	10.00	0.097

Max Pressure (psi)

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

Job Supply Amounts

Supply Item Des	Unit Label	Received	Consumed	Cum On Loc
Diesel Fuel	gal us	6,958		6,958

Mud Additive Amounts

Des	Consumed	Cum Cons
Bar Bulk	5	13
BULK TANK	2	52
BULK TANK BLOWERS	2	28
DynaDet	1	45
New Carb Med	7	455
NewGel	10	556
Soda Ash	1	21

Formations

Formation Name	Final Top MD (ftKB)
Quaternary	
Tertiary Volcanic	
Tertiary Undivided	

Safety Summary

BOP Test Date	Last BOP Test	BOP Func Due	HSE Incident	HSE Inc Remark

10/8/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 10/8/2010
REPORT: 43
DOL: 41.77
DFS: 15.60

Rig Name: NABORS DRILLING 169

Depth Progress: 15.00

Daily Summary

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
1	X/O	6 1/2	2.813	2.92	267.11
6	8" DC's	8	2.875	183.84	264.19
1	Mechanical Thruster	7 7/8	3.563	30.11	80.35
1	Filter Sub	8	2.875	4.88	50.24
1	Float Sub	8 1/16	2.938	2.49	45.36
1	X/O	8 1/4	3.000	3.12	42.87
1	Stop Sub	9 1/2	3.500	1.25	39.75
1	9-1/2" True Trak, Adjustable Pads w/ Stab	9 1/2		36.95	38.50

Drilling Parameters

4,298.0 - 4,313.0 ftKB

Start (ftKB)	End Depth...	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note
4,298.0	4,313.0	2.7	50			855	2,500.0	

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100...	SO Str Wt (100...	Drill Str Wt (100...	Torque Units	Drilling Torque	Off Btm Tq
5.50	5.50	176	172	140			

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/...	Max Open Hole AV (ft...
154.0	0.6	200.2	308.7	16.5	97.0

BHA #9 , Steerable

Bit Run	Drill Bit	Bit Type	Make
1	17 1/2in, SDSi-716, JDO402	PDC	STC

Nozzles (1/32")	IADC Codes	IADC Bit Dull
14/14/14/14/13/13/13/13/13/13	___	-------

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)
1.37		

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
95	Drill Pipe	5	4.276	3,012.45	4,303.67
25	HWDP	5	3.000	768.00	1,291.22
1	Jars	6 3/8	2.875	32.57	523.22
1	HWDP	5	3.000	30.72	490.65
1	X/O	6 3/8	2.813	3.57	459.93
6	6-1/2" DC's	6 1/2	2.875	184.02	456.36
1	X/O	6 1/2	2.813	2.92	272.34
6	8" DC's	8	2.875	183.84	269.42
1	Mechanical Thruster	7 7/8	3.563	30.11	85.58
1	Filter Sub	8	2.875	4.88	55.47
1	Float Sub	8 1/16	2.938	2.49	50.59
1	Stabilizer	8 1/4	3.000	8.08	48.10
1	X/O	9 1/2	3.500	3.12	40.02
1	9-1/2" True Trak, Adjustable Pads w/ Stab	9 1/2		36.90	36.90

Drilling Parameters

<depthstart> - <depthend> ftKB

Start (ftKB)	End Depth...	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100...	SO Str Wt (100...	Drill Str Wt (100...	Torque Units	Drilling Torque	Off Btm Tq

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/...	Max Open Hole AV (ft...

Casing Strings

Prop Run?	Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
Yes	Conductor	105.0	105.0	30	ERW	118.00		

Plug Back Total Depths

Date	Depth (ftKB)	Type	Method

Deviation Surveys

Tru-Trak, Proposed? No

Date	Description	Job
9/23/2010	Tru-Trak	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
9/26/2010	3,816.00	1.05	0.00	3,815.78				1.66
9/26/2010	3,910.00	0.26	0.00	3,909.77				0.84
9/26/2010	4,004.00	0.35	0.00	4,003.77				0.10
9/26/2010	4,098.00	1.05	0.00	4,097.76				0.74
10/6/2010	4,193.00	2.29	0.00	4,192.72				1.31

Formations

Formation Name	Final Top MD (ftKB)
North Horn	
UNCONFORMITY	
Arapien	
FAULT	
Arapien	
Twin Creek	
Gypsum Sprgs Mbr	
Navajo	
Chinle	
TD	

Safety Summary

10/8/2010

PIONEER NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 10/9/2010
REPORT: 44
DOL: 42.77
DFS: 16.60

Rig Name: NABORS DRILLING 169

Depth Progress: 24.00

Daily Summary

Property Sub	Field Name	API/UWI	Spud Date
327560-001	WILDCAT	43-023-30021-0000	9/22/2010

KB-Ground Distance (ft)	Original KB Elevation (ft)	KB-Mud Line Distance (ft)
25.00	5,264.00	

Daily Operations

Target Depth (ftKB)	Target Depth (TVD) (ftKB)	End Depth (ftKB)	End Depth (TVD) (ftKB)
9,040.0		4,337.0	

Footage/Meterage (ft)	24 HR ROP (ft/hr)	Drilling Hours (hr)
24.00	4.6	5.25

Avg Connection Gas	Avg Trip Gas	Avg Background Gas	Max Connection Gas	Max Trip Gas	Max Drill Gas
15.00		13.00			

Operations at Report Time
Sliding @ 4337'

Operations Summary
TIH W/ new bit and verti-trac to 4006', hit a bridge, started washing to btm. Problems with #2 pump, called Mike McMurtrey, he is on location. Stage pumps up, run sweeps, pattern bit. Sliding @ 4313'. slide to 4319'. Lost power to both pumps and drillers console, lost power to all the rig, trouble shoot and get power lined out. Slide Drlg from 4319' to 4337'. Continue to change up drilling paramaters to gain best P-Rate. Still dealing with pump problems.

Remarks
No Incidents, No Accidents, No Spills.

Operations Next Report Period
Drilling 17 1/2" Surface Hole.

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com
06:00	08:30	2.50	BHA	PP	TIH W/ BHA, L/D, P/U, new 5" HWDP below the jars.
08:30	12:00	3.50	BHA	PP	TIH W/ HWDP and DP to 4006'.
12:00	15:30	3.50	RMCLN	PN	Hit a bridge, started washing from 4006' to 4100', with 800 gpm. blew a nail in # 2 pump. Worked pipe until hole free and clear. TIH to 4164' hit a bridge, pump w/ 650 gpm blew a nail. Told TP to replace the Pop-Off with a new one. Work pipe until hole free and clear. Having to cycle the pumps each time to confirm that the ribs are closed. Can not keep #2 going, Keeps blowing nails. Called Mike McMurtrey, told him this was totally unacceptable, taking this long for a 4300' trip. He is on his way to the rig.
15:30	16:00	0.50	RIGSER	PP	Rig Service
16:00	18:00	2.00	U_RIG	PN	Have changed nails with multiple combinations to confirm that the nails are not the problem. Rechecked screens in block valves. Was told the screens had been removed when they went through the pump, yesterday. Had to get a welder to remove one screen, in pump # 2. We have washed down to 4310'. Staging pumps up to 105 x105 855 gpm. Ready to run sweep and pattern bit, if we can keep the pumps running.
18:00	19:30	1.50	U_RIG	PN	Stage pumps up to 105 x 105 855 gpm. Belts slipping on pump # 2. Tighten belts. Replace pins in both pop offs with 2 orange pins, in each pop off = 3500 PSI.
19:30	19:45	0.25	WA	PP	Wash 17' to +/- 2' off bottom. pump 30 bbls fresh water / nut plug and caustic sweep. 105 X 2, 2600 PSI off bottom.
19:45	20:15	0.50	ROTDRLG	PP	Pattern bit
20:15	20:45	0.50	LWD	PP	Sync tool and open ribs.
20:45	21:15	0.50	SLDDRLG	PP	Slide Drlg. F/ 4315' - 4318' = 3' in 0.5 hrs. = 6' FPH. W/ 850 GPM 105 x 105, 2700 SPP, Varying wt. on bit F/ 15 to 35 for max ROP.WOB, An 8.5# wt. and 50 vis.. Pressure up to 3500 psi, #1 pump 105 stks, and drag #2 pump to 64 stks. No losses.
21:15	21:30	0.25	CLNBH	PP	PU 10' off bottom, to check out #2 pump. As soon as off bottom #2 pump back to 105 stks. Walk around and manual count stks.
21:30	21:45	0.25	SLDDRLG	PP	Wash back to bottom, Slide Drlg. F/ 4318' to 4319'. 12 - 25k WOB, 105 X 2, 850 GPM, 2600 PSI off bottom. Hit pump #2 pop off as working up to 25k WOB.

Total AFE + Sup (Cost)
9,064,000.00

AFE Job Cost Summary

Cost Type	AFE Amt (Cost)
DHC	7,600,000.00
CWC	1,464,000.00

Field Estimate Job Cost Summary

Cost Type	Field Est (Cost)
DHC	2,560,780.94

Daily Summary

Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
72,029.15	2,560,780.94
Daily Mud Field Est (Cost)	**Cum Mud Field Est (Cost)**
909.15	150,889.52

POL (Personnel on Location)
25.0

Daily Contacts

Job Contact	Title
Clifton Everett	Sr. Drlg. Foreman
Billy Vigil	Drilling Foreman

Personnel Log

Company	Count
PIONEER NATURAL RESOURCES	1
PIONEER NATURAL RESOURCES	1
NABORS DRILLING INC	1
NABORS DRILLING INC	13
BAKER HUGHES INTEQ	2
ZECO	2
SELMA	2
NEWPARK	1
BADLANDZER	2

Weather

Precipitation Amount (in)	Precipitation Type
Temperature - High (°F)	**Temperature - Low (°F)**

Comment

NABORS DRILLING, 169

Rig Type
Drilling - Triple

Rig Start Date	Rig Release Date
9/22/2010	

1, National Supply, 10-P-130

Pump Number
1

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6 1/2	10.00	0.097

Max Pressure (psi)

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

2, National Supply, 10-P-130

Pump Number
2

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6 1/2	10.00	0.097

Max Pressure (psi)

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

Job Supply Amounts

Supply Item Des	Unit Label	Received	Consumed	Cum On Loc
Diesel Fuel	gal us	6,958		6,958

Mud Additive Amounts

Des	Consumed	Cum Cons
BULK TANK	2	54
BULK TANK BLOWERS	2	30
Caustic Soda	2	42
Desco CF	2	8
Dyna Fiber Cor	4	504
New Carb Med	21	476
NewPHPA	1	16
Soda Ash	1	22
Wallnut Shell M	7	559

Formations

Formation Name	Final Top MD (ftKB)
Quaternary	

Safety Summary

BOP Test Date	Last BOP Test	BOP Func Due	HSE Incident	HSE Inc Remark

10/9/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Daily Drilling Report

Well Name: South Hills 6-1

Rig Name: NABORS DRILLING 169

Depth Progress: 24.00

REPORT DATE: 10/9/2010
REPORT: 44
DOL: 42.77
DFS: 16.60

Daily Summary

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com
21:45	00:30	2.75	U_RIG	PN	Take pumps off line, PU 50' off bottom. Replace pins in #2 pop off. Attempt to roll pumps, no power to pumps. Pusher, motorman, and driller troubleshoot, and Rig Electrician was called out from Nephi. At 2230 hrs, check Pump E-Kill, and Rig E-Kill. Trip Rig E-Kill, could not reset. At this time could not circulate or move pipe, no power to pumps or drillers panel. Night pusher arrive at 2130 hrs, Rig Superintendent arrive approx 2200 hrs, and Rig Electrician arrive 2315 hrs. Mike McMurtrey making sure every one is doing every thing possible. Will discuss issues tomorrow. Electrician Reset everything in SCR, complete reset. Gained power to drillers panel @ 2330 hrs, Pumps @ 2345 hrs, troubleshoot and test pumps until 00:00 hrs pumps ok. Rig Watch down, troubleshoot and found tripped breaker, re-boot and up and running @ 00:30 hrs. PU 30' and hole is free and clear, good circulation while testing pumps. Max pressure on liners is 3300 PSI. Discussed with DD and agreed that 95 stks each pump was sufficient to run his tool and clean hole.
00:30	00:45	0.25	LWD	PP	Sync tool and open ribs, 95 X 2= 790 GPM, 2200 PSI off bottom. Wash to bottom pump 15 bbl nut plug sweep as getting to bottom.
00:45	01:00	0.25	SLDDRLG	PP	Slide Drlg. F/ 4319' to 4322. 95 X 2 stks, 790 GPM, 2200 PSI off bottom. 15k WOB, 200-250 Diff Pressure 25k WOB, 250-390 Diff Pressure Once lined out at 25k WOB, pressure spike and hit #2 pop off.
01:00	01:15	0.25	CIRC	PP	Replace pins in #2 pop off, break circulation, work back to bottom, once on bottom adding weight hit pop again. Noticed that when pressure spikes, and hits pop off, the stks increase. Talked to pusher and he says that pumps will ramp up when pop off is hit and then back down. Had Electrician called back out to check pump controls, and all controls check out ok.
01:15	01:45	0.50	U_RIG	PN	Isolate #2 pump to change pop off valve. Circulated hole off bottom while change out pop off.
01:45	02:00	0.25	CIRC	PP	Break circulation, 95 X 2 = 790 GPM, 2260 PSI off bottom. Walk around pumps and count stks.
02:00	03:00	1.00	SLDDRLG	PP	Slide Drlg. F/ 4322' to 4327' 95 X 2 stks = 790 GPM. 15k WOB, 250-275 Diff PSI- 9 ROP 20k WOB, 250-325 Diff PSI - 5 ROP 25-28k WOB, 300-325 Diff PSI - 10.5 ROP Noticed @ 215 hrs, pressure climbing and #2 pump stks drag down to 80 stks, and #1 pump stks pick up to 110. Driller catches backs off the auto driller and lets drill off and pressure backs down to normal. Electrician checked out pump controls and all check ok.
03:00	03:15	0.25	DEVSUR	PP	Connection and Survey. 3.09* @ survey depth of 4295'.
03:15	05:15	2.00	SLDDRLG	PP	Slide Drlg. F/ 4327' to 4335' 95 X 2 stks, 790 GPM. 2500 PSI with 200-250 Diff Pressure, 25-29k WOB. 4 FPH.
05:15	06:00	0.75	SLDDRLG	PP	Slide Drlg. F/ 4335' to 4337' 101 X 2 stks, 825 GPM. 2600 PSI , 28 - 30k Playing with WOB. 1.5' FPH. 8.5# 54 vis. 60% Shale 30% Dolomite 10% Limestone. Mud logger checking for the presence of gypsum. 182.1 hrs on BHA Have contacted and talked to every bit company, and have quizzed all service personnel I can. There are no relevant bit records or information for this area. Continuing to change parameters for optimum P-Rate. Last sample showed app. 10% gypsum.

Formations

Formation Name	Final Top MD (ftKB)
Tertiary Volcanic	
Tertiary Undivided	
North Horn	
UNCONFORMITY	
Arapien	
FAULT	
Arapien	
Twin Creek	
Gypsum Sprgs Mbr	
Navajo	
Chinle	
TD	

Mud Properties

Daily Cost: 909.15 Cost Cum Cost: 150,889.52 Cost

Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	T Flowline (°F)
03:00	Gel Base	4,326.0	8.50	54	109.7

PV (cp)	YP (lbf/100ft²)	Filtrate (mL/30min)	HTHP Filtrate (mL/30...	HTHP Pressure (psi)	HTHP Temperature (°F)
10.0	16.000	9.0			

Solids (%)	Sand (%)	MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)
6.0	0.7	22.5	8.5	0.500	0.2

Chlorides (ppm)	Calcium (ppm)	Oil Water Ratio	Electric Stab (V)	Lime (lb/bbl)	Low Gravity Solids (%)
120.000		0/100			

Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Comment
10.000	12.000	

Bottom Hole Assembly

BHA Since Insp (hr)	BHA Wt BelowJar (1000lbf)	Hrs on Jars (hr)

Safety Summary

10/9/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 10/9/2010
REPORT: 44
DOL: 42.77
DFS: 16.60

Rig Name: NABORS DRILLING 169

Depth Progress: 24.00

Daily Summary

BHA #9 , Steerable

Bit Run	Drill Bit	Bit Type	Make
1	17 1/2in, SDSi-716, JDO402	PDC	STC

Nozzles (1/32")	IADC Codes	IADC Bit Dull
14/14/14/14/13/13/13/13/13/13	___	-------

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)
1.37	5.25	24.00

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)
5.25	24.00	4.6	4,313.0	4,337.0

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
95	Drill Pipe	5	4.276	3,012.45	4,303.67
25	HWDP	5	3.000	768.00	1,291.22
1	Jars	6 3/8	2.875	32.57	523.22
1	HWDP	5	3.000	30.72	490.65
1	X/O	6 3/8	2.813	3.57	459.93
6	6-1/2" DC's	6 1/2	2.875	184.02	456.36
1	X/O	6 1/2	2.813	2.92	272.34
6	8" DC's	8	2.875	183.84	269.42
1	Mechanical Thruster	7 7/8	3.563	30.11	85.58
1	Filter Sub	8	2.875	4.88	55.47
1	Float Sub	8 1/16	2.938	2.49	50.59
1	Stabilizer	8 1/4	3.000	8.08	48.10
1	X/O	9 1/2	3.500	3.12	40.02
1	9-1/2" True Trak, Adjustable Pads w/ Stab	9 1/2		36.90	36.90

Drilling Parameters

4,313.0 - 4,337.0 ftKB

Start (ftKB)	End Depth...	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note
4,313.0	4,337.0	4.6	30	125	300.0	790	2,500.0	

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100...	SO Str Wt (100...	Drill Str Wt (100...	Torque Units	Drilling Torque	Off Btm Tq
5.25	9.00	176	172	140			

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/...	Max Open Hole AV (ft...
121.4	0.5	185.0	263.5	15.2	89.6

Casing Strings

Prop Run?	Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
Yes	Conductor	105.0	105.0	30	ERW	118.00		

Plug Back Total Depths

Date	Depth (ftKB)	Type	Method

Deviation Surveys

Tru-Trak, Proposed? No

Date	Description	Job
9/23/2010	Tru-Trak	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
9/26/2010	3,910.00	0.26	0.00	3,909.77				0.84
9/26/2010	4,004.00	0.35	0.00	4,003.77				0.10
9/26/2010	4,098.00	1.05	0.00	4,097.76				0.74
10/6/2010	4,193.00	2.29	0.00	4,192.72				1.31
10/9/2010	4,209.00	3.09	0.00	4,208.70				5.00

Safety Summary

10/9/2010

PIONEER NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1 | **Daily Drilling Report** | **REPORT DATE: 10/10/2010**

Rig Name: NABORS DRILLING 169 | **REPORT: 45**

Depth Progress: 8.00 | **DOL: 43.77** | **DFS: 17.60**

Daily Summary

Property Sub	Field Name	API/UWI	Spud Date
327560-001	WILDCAT	43-023-30021-0000	9/22/2010

KB-Ground Distance (ft)	Original KB Elevation (ft)	KB-Mud Line Distance (ft)
25.00	5,264.00	

Daily Operations

Target Depth (ftKB)	Target Depth (TVD) (ftKB)	End Depth (ftKB)	End Depth (TVD) (ftKB)
9,040.0		4,345.0	

Footage/Meterage (ft)	24 HR ROP (ft/hr)	Drilling Hours (hr)
8.00	2.7	3.00

Avg Connection Gas	Avg Trip Gas	Avg Background Gas	Max Connection Gas	Max Trip Gas	Max Drill Gas
		15.00			

Operations at Report Time
R/U & Run 13 3/8" Surface Casing

Operations Summary
Slide Drlg from 4337' to 4345'= 8' in 3 hrs. = 2.7' FPH. Continue to change up drilling paramaters to gain best P-Rate.
TD called at 9:30 a.m. Oct. 9, 2010. Notified Randy Knight W/ the BLM. Circ. Short Trip, Spot Pill, TOH. RU Franks,

Remarks
No Incidents, No Accidents, No Spills.

Operations Next Report Period
Getting rig ready for invert, hauling water off

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com
06:00	09:30	3.50	SLDDRLG	PP	Slide Drlg. F/ 4337' to 4345' = 8' in 3 hrs. 2.7 FPH. 101 X 2 stks, 825 GPM. 2600 PSI , 28 - 30k Playing with WOB. 1.5' FPH. 8.5# 54 vis. TD called at 4345' At 9:00 a.m. on October 9, 2010 185 hrs on BHA. Notified Randy Knight with the BLM at 9:30 a.m. Left a V.M on cell phone number 801-699-0405. Stating that we called casing point at 4345'. On the Pioneer Natural Resources South Hills Federal # 61- API # 43-023-30021 UTU-84003 Sec. 6, T16S, R1W Stated we were running 4345' of 13 3/8" 68# K and L -55 buttress thread casing. Cementing with Halliburton 1st. Stage Type 5 Lead W/1065 sks. 373 bbls 12.5#, 1.97 yield. Type 3 Tail W/ 230 sks, 54 bbls. 14,8#, 1.32 yield. Displacing w/ 650 bbls drilling fluid. Stage Tool setr @ btm 2169'. Cementing with Halliburton 2 nd. Stage Type 5 Lead 750 sks. 375 bbls. 11.5#, 2.81 yield Type 3 Tail 210 sks. 49 bbls. 14.8 # 1.32 yield. Displacing w. 320 bbls drilling fluid. Immediatly called for water trucks, have 10 loads for a total of 1300 bbls. hauled off.
09:30	12:00	2.50	CIRC	PP	Circ. run Lag time test. Took 14,125 stks. Calculated average hole size of 18" to 18 1/4". Notified Halliburton of test results.
12:00	15:00	3.00	CSG	PP	Wiper trip to 3500'. Hole free and clear.
15:00	16:30	1.50	CIRC	PP	Spot 80 vis pill. up to 3800'., Pump slug
16:30	03:30	11.00	BHA	PP	TOH, L/D, Jars, Thruster and Dir. equipment. Hole free and clear. Removed Drilling jars from string and MU new drilling jars, and stand back. (1 hour) Drain mud motor, Break 17 1/2" Smith PDC bit, and remove from rig floor. Recieved call @ 21:15 from Bobby with Franks, that tong truck had broken down on way to location, another truck in route. Notified all other services of time delay. Franks arrive on location @ 2:00 hrs. Went over plan to run casing.
03:30	04:00	0.50	CSG	PP	Remove rig DP elevators, housekeeping on rig floor. Prepare rig floor for RU of Franks.
04:00	04:30	0.50	SFTY	PP	Safety Meeting, with Nabors, Franks, Badlanderz, and PNR. Topics: Proper PPE, Buffer Zone, and permits need, Inspection of contractors equipment as RU, Clear floor while RU power tong hanging cable, just air hoist operator and lead tong hand. Spotters while moving pipe onto catwalk racks, Running casing: communication with driller and casing crew, as well as catwalk operator.
04:30	06:00	1.50	CSG	PP	R/U Franks Westates Casers. CRT and power tongs.

Total AFE + Sup (Cost): 9,064,000.00

AFE Job Cost Summary

Cost Type	AFE Amt (Cost)
DHC	7,600,000.00
CWC	1,464,000.00

Field Estimate Job Cost Summary

Cost Type	Field Est (Cost)
DHC	2,617,583.76

Daily Summary

Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
56,802.82	2,617,583.76
Daily Mud Field Est (Cost)	**Cum Mud Field Est (Cost)**
4,194.82	155,084.34

POL (Personnel on Location): 26.0

Daily Contacts

Job Contact	Title
Clifton Everett	Sr. Drlg. Foreman
Billy Vigil	Drilling Foreman

Personnel Log

Company	Count
PIONEER NATURAL RESOURCES	1
PIONEER NATURAL RESOURCES	1
NABORS DRILLING INC	2
NABORS DRILLING INC	13
BAKER HUGHES INTEQ	2
ZECO	2
SELMA	2
NEWPARK	1
BADLANDZER	2

Weather

Precipitation Amount (in)	Precipitation Type
Temperature - High (°F)	**Temperature - Low (°F)**

Comment

NABORS DRILLING, 169

Rig Type: Drilling - Triple

Rig Start Date	Rig Release Date
9/22/2010	

1, National Supply, 10-P-130

Pump Number: 1

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6 1/2	10.00	0.097

Max Pressure (psi)

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

2, National Supply, 10-P-130

Pump Number: 2

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6 1/2	10.00	0.097

Max Pressure (psi)

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

Job Supply Amounts

Supply Item Des	Unit Label	Received	Consumed	Cum On Loc
Diesel Fuel	gal us	6,958		6,958

Mud Additive Amounts

Des	Consumed	Cum Cons
BULK TANK	2	56
BULK TANK BLOWERS	2	32
Desco CF	2	10
New Bar	73	200
NewGel	19	575
NewPHPA	3	19
NO Foam X	3	116
Wallnut Shell M	92	651

Formations

Formation Name	Final Top MD (ftKB)
Quaternary	
Tertiary Volcanic	

Safety Summary

BOP Test Date	Last BOP Test	BOP Func Due	HSE Incident	HSE Inc Remark

10/10/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 10/10/2010
REPORT: 45
DOL: 43.77
DFS: 17.60

Rig Name: NABORS DRILLING 169

Depth Progress: 8.00

Daily Summary

Mud Properties

Daily Cost: 4,194.82 Cost Cum Cost: 155,084.34 Cost

Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	T Flowline (°F)
03:00	Gel Base	4,345.0	8.50	51	

PV (cp)	YP (lbf/100ft²)	Filtrate (mL/30min)	HTHP Filtrate (mL/30…	HTHP Pressure (psi)	HTHP Temperature (°F)
11.0	15.000	9.0			

Solids (%)	Sand (%)	MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)
6.0	0.7	22.5	8.2	0.040	0.1

Chlorides (ppm)	Calcium (ppm)	Oil Water Ratio	Electric Stab (V)	Lime (lb/bbl)	Low Gravity Solids (%)
120.000		0/100			

Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Comment
11.000	10.000	

Bottom Hole Assembly

BHA Since Insp (hr)	BHA Wt BelowJar (1000lbf)	Hrs on Jars (hr)

BHA #9 , Steerable

Bit Run	Drill Bit	Bit Type	Make
1	17 1/2in, SDSi-716, JDO402	PDC	STC

Nozzles (1/32")	IADC Codes	IADC Bit Dull
14/14/14/14/13/13/13/13/13	___	-------

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)
1.37	8.25	32.00

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)
8.25	32.00	3.9	4,313.0	4,345.0

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
95	Drill Pipe	5	4.276	3,012.45	4,303.67
25	HWDP	5	3.000	768.00	1,291.22
1	Jars	6 3/8	2.875	32.57	523.22
1	HWDP	5	3.000	30.72	490.65
1	X/O	6 3/8	2.813	3.57	459.93
6	6-1/2" DC's	6 1/2	2.875	184.02	456.36
1	X/O	6 1/2	2.813	2.92	272.34
6	8" DC's	8	2.875	183.84	269.42
1	Mechanical Thruster	7 7/8	3.563	30.11	85.58
1	Filter Sub	8	2.875	4.88	55.47
1	Float Sub	8 1/16	2.938	2.49	50.59
1	Stabilizer	8 1/4	3.000	8.08	48.10
1	X/O	9 1/2	3.500	3.12	40.02
1	9-1/2" True Trak, Adjustable Pads w/ Stab	9 1/2		36.90	36.90

Drilling Parameters

4,337.0 - 4,345.0 ftKB

Start (ftKB)	End Depth…	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note
4,337.0	4,345.0	2.7	40	125	300.0	855	2,600.0	

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100…	SO Str Wt (100…	Drill Str Wt (100…	Torque Units	Drilling Torque	Off Btm Tq
3.00	8.50	176	172	140			

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/…	Max Open Hole AV (ft…
154.0	0.6	200.2	308.7	16.5	97.0

Casing Strings

Prop Run?	Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
Yes	Conductor	105.0	105.0	30	ERW	118.00		

Plug Back Total Depths

Date	Depth (ftKB)	Type	Method

Deviation Surveys

Tru-Trak, Proposed? No

Date	Description	Job
9/23/2010	Tru-Trak	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
9/26/2010	3,910.00	0.26	0.00	3,909.77				0.84
9/26/2010	4,004.00	0.35	0.00	4,003.77				0.10
9/26/2010	4,098.00	1.05	0.00	4,097.76				0.74
10/6/2010	4,193.00	2.29	0.00	4,192.72				1.31
10/9/2010	4,209.00	3.09	0.00	4,208.70				5.00

Formations

Formation Name	Final Top MD (ftKB)
Tertiary Undivided	
North Horn	
UNCONFORMITY	
Arapien	
FAULT	
Arapien	
Twin Creek	
Gypsum Sprgs Mbr	
Navajo	
Chinle	
TD	

Safety Summary

10/10/2010

PIONEER NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 10/11/2010
REPORT: 46
DOL: 44.77
DFS: 18.60

Rig Name: NABORS DRILLING 169

Depth Progress: 0.00

Daily Summary

Property Sub	Field Name	API/UWI	Spud Date
327560-001	WILDCAT	43-023-30021-0000	9/22/2010

KB-Ground Distance (ft)	Original KB Elevation (ft)	KB-Mud Line Distance (ft)
25.00	5,264.00	

Daily Operations

Target Depth (ftKB)	Target Depth (TVD) (ftKB)	End Depth (ftKB)	End Depth (TVD) (ftKB)
9,040.0		4,345.0	

Footage/Meterage (ft)	24 HR ROP (ft/hr)	Drilling Hours (hr)
0.00		

Avg Connection Gas	Avg Trip Gas	Avg Background Gas	Max Connection Gas	Max Trip Gas	Max Drill Gas
		12.00			

Operations at Report Time
R/D Halliburton, drain conductor

Operations Summary
Finish R/U casing crew, RIH W/ 13 3/8" casing, circ. recipicating pipe, R/D casing crew, R/U Halliburton, Cement. 1 st stage. Pumped a total of 428 bbls, at 500 lbbs of displacement, cement to surface. Decision made not to run stage tool. At report time determined cement had channeled.

Notified Randy Knight of BOP test Monday morning 0ct.11, 2010.

Remarks
No Incidents, No Accidents, No Spills.

Operations Next Report Period
Test BOP, TIH w/slick assemble, drlg. shoe track and 10' formation, perform LOT test, run gyro, TOH to P/U directional BHA, Clean pits, haul water in preperation of changing over to OBM>

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com
06:00	08:00	2.00	CSG	PP	Finish R/U casing crew. Had to change out power tongs. Immediatly ordered another set sent out.
08:00	08:30	0.50	CSG	PP	Safety Meeting with all hands on location.
08:30	09:00	0.50	CSG	PP	RIH with, shoe and float collar. Installed Franks Westates CRT. Fill casing, verify float holding, verify CRT works properly.
09:00	21:30	12.50	CSG	PP	RIH with a total of 95 jts. 4345' of 13 3/8" casing. First two jts. K-55, 68#, Buttress. Followed by 22 jts of L-80, 68# then 71 jts of K-55 68#. Shoe at 4345' float collar @ 4296', stage tool @ top 2167', btm @2169'. 18:00-19:00 Washed from 4282' to 4305'. Installed cement basket, and had crossed threads on connection, back out clean and inspect threads, threads ok, make up, inspect CRT tool. 20:00-21:30 break circulation and wash last joint to bottom. Landed pipe @ 4345' KB. Notified Randy Knight of BOP test in the morning. Oct. 11, 2010. Left V.M. on 801-699-0405.
21:30	22:15	0.75	CSG	PP	Start R/D of casing equipment on rig floor while circulating on hole.
22:15	00:15	2.00	CSG	PP	Held safety meeting with Nabors, Franks, Halliburton, Topic P/U and L/D tools from and to rig floor using air hoist, and Buffer Zone. R/D casing crew, R/D CRT tool, R/U Halliburton cement head, and circulate using rigs pumps 300 GPM, 200 PSI. RU pump truck lines to rig floor.
00:15	01:00	0.75	CSG	PP	Circulate on hole with rigs pumps, while R/U mud line from steel pits to Halliburton pump truck.
01:00	01:30	0.50	SFTY	PP	Safety Meeting with Halliburton: Pressure test to 4000 psi. Pumping surface cement job.
01:30	06:00	4.50	CSG	PP	Pumped Lead with a 50 bbl.9.4# Reactive Spacer, Super Flush 102 and a 20 bbl. Gel water spacer @ 8.5#. Then 1065 sks. 373 bbls. of Halliburton Type 5 cement, 12.5#, 1.97 yield, 10.35 gl/sk. 0.6% HR-7 (Retarder, 3 lbm/sk Gilsonite, 0.125 lbm/sk Poly-E-Flake. Tail with 230 sks. 54 bbl. of Halliburton Type 3, 14.8#, 1.32 yield, 6.32 gal.sk. Dropped Plug, witnessed by, Clifton Everett, Bill Vigil, Troy Murray and Displace W/ 678 bbls of drilling mud. 35 bbls over calculated displacement. Mud very aerated. Did not want to take a chance of a wet shoe. Stopped pumping there. 1.5 bbls. flow back. On Displacment at 500 bbls away, started getting cement to surface, Cement to surface, conductor full, after 1 hr. still full. Decision made not to pump 2 nd. stage. Ordered cancelation tool from Davis-Lynch. Start rigging down Halliburton. Note: Determined cement had channeled. Results on tomorrows report.

Total AFE + Sup (Cost)
9,064,000.00

AFE Job Cost Summary

Cost Type	AFE Amt (Cost)
DHC	7,600,000.00
CWC	1,464,000.00

Field Estimate Job Cost Summary

Cost Type	Field Est (Cost)
DHC	2,972,846.76

Daily Summary

Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
355,263.00	2,972,846.76
Daily Mud Field Est (Cost)	**Cum Mud Field Est (Cost)**
170.00	155,254.34

POL (Personnel on Location)
26.0

Daily Contacts

Job Contact	Title
Clifton Everett	Sr. Drlg. Foreman
Billy Vigil	Drilling Foreman

Personnel Log

Company	Count
PIONEER NATURAL RESOURCES	1
PIONEER NATURAL RESOURCES	1
NABORS DRILLING INC	2
NABORS DRILLING INC	13
BAKER HUGHES INTEQ	2
ZECO	2
SELMA	2
NEWPARK	1
BADLANDZER	2

Weather

Precipitation Amount (in)	Precipitation Type
Temperature - High (°F)	**Temperature - Low (°F)**

Comment

NABORS DRILLING, 169

Rig Type
Drilling - Triple

Rig Start Date	Rig Release Date
9/22/2010	

1, National Supply, 10-P-130

Pump Number
1

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6 1/2	10.00	0.097

Max Pressure (psi)

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

2, National Supply, 10-P-130

Pump Number
2

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6 1/2	10.00	0.097

Max Pressure (psi)

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

Job Supply Amounts

Supply Item Des	Unit Label	Received	Consumed	Cum On Loc
Diesel Fuel	gal us	6,958		6,958

Mud Additive Amounts

Des	Consumed	Cum Cons
BULK TANK	2	58
BULK TANK BLOWERS	2	34

Formations

Formation Name	Final Top MD (ftKB)
Quaternary	
Tertiary Volcanic	
Tertiary Undivided	
North Horn	
UNCONFORMITY	
Arapien	
FAULT	
Arapien	

Safety Summary

BOP Test Date	Last BOP Test	BOP Func Due	HSE Incident	HSE Inc Remark

10/11/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 10/11/2010
REPORT: 46
DOL: 44.77
DFS: 18.60

Rig Name: NABORS DRILLING 169

Depth Progress: 0.00

Daily Summary

Mud Properties

Daily Cost: 170.00 Cost Cum Cost: 155,254.34 Cost

Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	T Flowline (°F)
03:00	Gel Base	4,345.0	8.60	35	

PV (cp)	YP (lbf/100ft²)	Filtrate (mL/30min)	HTHP Filtrate (mL/30…	HTHP Pressure (psi)	HTHP Temperature (°F)
6.0	2.000	26.0			

Solids (%)	Sand (%)	MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)
3.0	0.5	12.0	7.5		

Chlorides (ppm)	Calcium (ppm)	Oil Water Ratio	Electric Stab (V)	Lime (lb/bbl)	Low Gravity Solids (%)
120.000		0/100			2.0

Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Comment
2.000	1.000	

Bottom Hole Assembly

BHA Since Insp (hr)	BHA Wt BelowJar (1000lbf)	Hrs on Jars (hr)

BHA #<BHA #?>, <Drill String Name?>

Bit Run	Drill Bit	Bit Type	Make

Nozzles (1/32")	IADC Codes	IADC Bit Dull

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)

Drilling Parameters

<depthstart> - <depthend> ftKB

Start (ftKB)	End Depth…	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100…	SO Str Wt (100…	Drill Str Wt (100…	Torque Units	Drilling Torque	Off Btm Tq

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/…	Max Open Hole AV (ft…

Casing Strings

Prop Run?	Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
Yes	Conductor	105.0	105.0	30	ERW	118.00		
Yes	Surface	4,345.0		13 3/8	K-55	68.00		

Plug Back Total Depths

Date	Depth (ftKB)	Type	Method

Deviation Surveys

Tru-Trak, Proposed? No

Date	Description	Job
9/23/2010	Tru-Trak	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
9/26/2010	3,910.00	0.26	0.00	3,909.77				0.84
9/26/2010	4,004.00	0.35	0.00	4,003.77				0.10
9/26/2010	4,098.00	1.05	0.00	4,097.76				0.74
10/6/2010	4,193.00	2.29	0.00	4,192.72				1.31
10/9/2010	4,209.00	3.09	0.00	4,208.70				5.00

Formations

Formation Name	Final Top MD (ftKB)
Twin Creek	
Gypsum Sprgs Mbr	
Navajo	
Chinle	
TD	

Safety Summary

10/11/2010

PIONEER NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 10/12/2010
REPORT: 47
DOL: 45.77
DFS: 19.60

Rig Name: NABORS DRILLING 169

Depth Progress: 0.00

Daily Summary

Property Sub	Field Name	API/UWI	Spud Date
327560-001	WILDCAT	43-023-30021-0000	9/22/2010

KB-Ground Distance (ft)	Original KB Elevation (ft)	KB-Mud Line Distance (ft)
25.00	5,264.00	

Daily Operations

Target Depth (ftKB)	Target Depth (TVD) (ftKB)	End Depth (ftKB)	End Depth (TVD) (ftKB)
9,040.0		4,345.0	

Footage/Meterage (ft)	24 HR ROP (ft/hr)	Drilling Hours (hr)
0.00		

Avg Connection Gas	Avg Trip Gas	Avg Background Gas	Max Connection Gas	Max Trip Gas	Max Drill Gas

Operations at Report Time
N/U

Operations Summary
Cement had channeled to surface. Open stage tool Pump 20 bbls no returns. Pumped closing plug down. R/U 1" cement thru 1". Pumped 40 bbls cement to surface. Cut off, Install Well Head, N/U.

Remarks
No Incidents, No Accidents, No Spills.

Operations Next Report Period
Hauling water, cleaning pits, in preperation for OBM

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com
06:00	07:30	1.50	CSG	PP	After going over numbers that were pumped, cement had channeled, and did not have had good cement to surface. Call Dallas for orders. Orders to open stage tool and break circulation, if circulate then pump 2nd stage job, if not able to circulate clost tool and top off.
07:30	11:45	4.25	CSG	PP	Drop opening dart for stage tool, wait 15 minutes. R/U Halliburton cement head and R/U to cement pump. Pressure test and open tool W/ 3.2 BPM, and tool opened with 915 PSI. Pumped 20 bbls with no returns. Load and pump closing tool (Rubber plug W / face). Plug away, displace 321 bbls with fresh water. Call Outs: 50 bbls away, 3.0 bpm, 150 psi. 200 bbls away, 3.6 bpm, 800 psi. 300 away, 3.6 bpm, 900 psi. 321 bbls away, 1.5 bpm, 975 psi. Bump plug held.
11:45	14:45	3.00	CSG	PP	RU for 1" top off. TIH 50' of 1" pipe. M/U swedge, secure 1". Batch up 43 bbls of 14.5 lb cement, pumped 40 bbls @ 1.5 bpm, 150 psi, had good cement to surface. Monitor cement level for 45 minutes. Level good, did not fall. R/D and clean up pumps and lines. Rig crew drain cement out of Flow-T, clean and prepare cellar for cut off.
14:45	19:45	5.00	CSG	PP	R/D Halliburton, Welder make rough cut to remove conductor Flow-T, and 13 3/8" casing stump. Rig crew LD 30" conductor and 13 3/8" casing stump.
19:45	01:00	5.25	WLHEAD	PP	Wood Group, and Badlanderz welder make final cut on 30", and dress out to accept well head. Need 6" conductor stump to set well head. Top of well head will set 1' 3" above ground level. Hold Safety meeting with Nabors topic, lifting and setting well head into sub. 20:00 - 22:00. Move well head and components to catwalk side of sub. Had trouble trying to lift and tail well head into sub. 22:00 - 01:00. Install Wood Group 13 3/8" X 9 7/8" X 5 1/2" 5M SH2 Wellhead system with 34" base plate and DSA. Tested seals to 1500 psi for 15 minutes. Test good. RD tools and equipment.
01:00	04:00	3.00	BOPS	PP	MIRU B&C Quick test, to N/U 13 3/8" BOP stack.
04:00	06:00	2.00	BOPS	PP	N/U BOP

Mud Properties

Daily Cost: <Daily Mud Field Est?> Cum Cost: <Mud Additive

Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	T Flowline (°F)

PV (cp)	YP (lbf/100ft²)	Filtrate (mL/30min)	HTHP Filtrate (mL/30...	HTHP Pressure (psi)	HTHP Temperature (°F)

Solids (%)	Sand (%)	MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)

Chlorides (ppm)	Calcium (ppm)	Oil Water Ratio	Electric Stab (V)	Lime (lb/bbl)	Low Gravity Solids (%)

Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Comment

Bottom Hole Assembly

BHA Since Insp (hr)	BHA Wt BelowJar (1000lbf)	Hrs on Jars (hr)

BHA #<BHA #?>, <Drill String Name?>

Bit Run	Drill Bit	Bit Type	Make

Nozzles (1/32")	IADC Codes	IADC Bit Dull

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)

Total AFE + Sup (Cost)
9,064,000.00

AFE Job Cost Summary

Cost Type	AFE Amt (Cost)
DHC	7,600,000.00
CWC	1,464,000.00

Field Estimate Job Cost Summary

Cost Type	Field Est (Cost)
DHC	3,256,914.76

Daily Summary

Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
284,068.00	3,256,914.76
Daily Mud Field Est (Cost)	**Cum Mud Field Est (Cost)**
	155,254.34

POL (Personnel on Location)
26.0

Daily Contacts

Job Contact	Title
Clifton Everett	Sr. Drlg. Foreman
Billy Vigil	Drilling Foreman

Personnel Log

Company	Count
PIONEER NATURAL RESOURCES	1
PIONEER NATURAL RESOURCES	1
NABORS DRILLING INC	2
NABORS DRILLING INC	13
BAKER HUGHES INTEQ	2
ZECO	2
SELMA	2
NEWPARK	1
BADLANDZER	2

Weather

Precipitation Amount (in)	Precipitation Type
Temperature - High (°F)	**Temperature - Low (°F)**

Comment

NABORS DRILLING, 169

Rig Type
Drilling - Triple

Rig Start Date	Rig Release Date
9/22/2010	

1, National Supply, 10-P-130

Pump Number
1

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6 1/2	10.00	0.097

Max Pressure (psi)

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

2, National Supply, 10-P-130

Pump Number
2

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6 1/2	10.00	0.097

Max Pressure (psi)

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

Job Supply Amounts

Supply Item Des	Unit Label	Received	Consumed	Cum On Loc
Diesel Fuel	gal us	6,958		6,958

Mud Additive Amounts

Des	Consumed	Cum Cons

Formations

Formation Name	Final Top MD (ftKB)
Quaternary	
Tertiary Volcanic	
Tertiary Undivided	
North Horn	
UNCONFORMITY	
Arapien	
FAULT	
Arapien	
Twin Creek	

Safety Summary

BOP Test Date	Last BOP Test	BOP Func Due	HSE Incident	HSE Inc Remark

10/12/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 10/12/2010
REPORT: 47
DOL: 45.77
DFS: 19.60

Rig Name: NABORS DRILLING 169

Depth Progress: 0.00

Daily Summary

Drilling Parameters

<depthstart> - <depthend> ftKB

Start (ftKB)	End Depth…	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100…	SO Str Wt (100…	Drill Str Wt (100…	Torque Units	Drilling Torque	Off Btm Tq

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/…	Max Open Hole AV (ft…

Casing Strings

Prop Run?	Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
Yes	Conductor	105.0	105.0	30	ERW	118.00		
Yes	Surface	4,345.0		13 3/8	K-55	68.00		

Plug Back Total Depths

Date	Depth (ftKB)	Type	Method

Deviation Surveys

Tru-Trak, Proposed? No

Date	Description	Job
9/23/2010	Tru-Trak	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
9/26/2010	3,910.00	0.26	0.00	3,909.77				0.84
9/26/2010	4,004.00	0.35	0.00	4,003.77				0.10
9/26/2010	4,098.00	1.05	0.00	4,097.76				0.74
10/6/2010	4,193.00	2.29	0.00	4,192.72				1.31
10/9/2010	4,209.00	3.09	0.00	4,208.70				5.00

Formations

Formation Name	Final Top MD (ftKB)
Gypsum Sprgs Mbr	
Navajo	
Chinle	
TD	

Safety Summary

10/12/2010

PIONEER NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 10/13/2010
REPORT: 48
DOL: 46.77
DFS: 20.60

Rig Name: NABORS DRILLING 169

Depth Progress: 0.00

Daily Summary

Property Sub	Field Name	API/UWI	Spud Date
327560-001	WILDCAT	43-023-30021-0000	9/22/2010

KB-Ground Distance (ft)	Original KB Elevation (ft)	KB-Mud Line Distance (ft)
25.00	5,264.00	

Daily Operations

Target Depth (ftKB)	Target Depth (TVD) (ftKB)	End Depth (ftKB)	End Depth (TVD) (ftKB)
9,040.0		4,345.0	

Footage/Meterage (ft)	24 HR ROP (ft/hr)	Drilling Hours (hr)
0.00		

Avg Connection Gas	Avg Trip Gas	Avg Background Gas	Max Connection Gas	Max Trip Gas	Max Drill Gas

Operations at Report Time
Pressure Test BOP

Operations Summary
N/U, Function and Pressure Test 13 3/8" 5M BOP's

Note: Bob Garrett, Juab County Road Supervisor, gave me verbal approval to put the lake water stored in frac tanks on county roads.10/11/2010.

Remarks
No Incidents, No Accidents, No Spills.

Operations Next Report Period
Drilling 12 1/4" Intermediate Hole

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com
06:00	04:00	22.00	BOPS	PP	Finish N/U BOP, and Function Test. @ 6:00 Hydrill on. F/ 6:00 - 13:00 Tighten bolts F/ 13:00- 16:00 Install mud cross tighten bolts F/ 16:00- 18:00 Function test, btm pipe rams. F/ 18:00- 23:00 Install ram and pipe blocks F/ 23:00 -3:00 Install choke manual valve, and choke line to choke manifold F/ 3:00-4:00 Function test rams, and valves. Make necessary changes 4:00 Release to Pressure testers
04:00	06:00	2.00	BOPS	PP	Move test tools rig floor, RU and start BOP pressure test 250 PSI low, and 5000 PSI High.

Mud Properties

Daily Cost: <Daily Mud Field Est?> Cum Cost: <Mud Additive

Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	T Flowline (°F)

PV (cp)	YP (lbf/100ft²)	Filtrate (mL/30min)	HTHP Filtrate (mL/30…	HTHP Pressure (psi)	HTHP Temperature (°F)

Solids (%)	Sand (%)	MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)

Chlorides (ppm)	Calcium (ppm)	Oil Water Ratio	Electric Stab (V)	Lime (lb/bbl)	Low Gravity Solids (%)

Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Comment

Bottom Hole Assembly

BHA Since Insp (hr)	BHA Wt BelowJar (1000lbf)	Hrs on Jars (hr)

BHA #<BHA #?>, <Drill String Name?>

Bit Run	Drill Bit	Bit Type	Make

Nozzles (1/32")	IADC Codes	IADC Bit Dull

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)

Drilling Parameters

<depthstart> - <depthend> ftKB

Start (ftKB)	End Depth…	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100…	SO Str Wt (100…	Drill Str Wt (100…	Torque Units	Drilling Torque	Off Btm Tq

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/…	Max Open Hole AV (ft…

Casing Strings

Prop Run?	Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
Yes	Conductor	105.0	105.0	30	ERW	118.00		
Yes	Surface	4,345.0		13 3/8	K-55	68.00		

Plug Back Total Depths

Date	Depth (ftKB)	Type	Method

Deviation Surveys

Tru-Trak, Proposed? No

Date	Description	Job
9/23/2010	Tru-Trak	EXD, 9/22/2010 09:00

Total AFE + Sup (Cost)
9,064,000.00

AFE Job Cost Summary

Cost Type	AFE Amt (Cost)
DHC	7,600,000.00
CWC	1,464,000.00

Field Estimate Job Cost Summary

Cost Type	Field Est (Cost)
DHC	3,313,684.76

Daily Summary

Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
58,761.00	3,313,684.76

Daily Mud Field Est (Cost)	Cum Mud Field Est (Cost)
170.00	155,594.34

POL (Personnel on Location)
26.0

Daily Contacts

Job Contact	Title
Clifton Everett	Sr. Drlg. Foreman
Billy Vigil	Drilling Foreman

Personnel Log

Company	Count
PIONEER NATURAL RESOURCES	1
PIONEER NATURAL RESOURCES	1
NABORS DRILLING INC	2
NABORS DRILLING INC	13
BAKER HUGHES INTEQ	2
ZECO	2
SELMA	2
NEWPARK	1
BADLANDZER	2

Weather

Precipitation Amount (in)	Precipitation Type

Temperature - High (°F)	Temperature - Low (°F)

Comment

NABORS DRILLING, 169

Rig Type
Drilling - Triple

Rig Start Date	Rig Release Date
9/22/2010	

1, National Supply, 10-P-130

Pump Number
1

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6 1/2	10.00	0.097

Max Pressure (psi)

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

2, National Supply, 10-P-130

Pump Number
2

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6 1/2	10.00	0.097

Max Pressure (psi)

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

Job Supply Amounts

Supply Item Des	Unit Label	Received	Consumed	Cum On Loc
Diesel Fuel	gal us	6,958		6,958

Mud Additive Amounts

Des	Consumed	Cum Cons
BULK TANK	2	62
BULK TANK BLOWERS	2	38

Formations

Formation Name	Final Top MD (ftKB)
Quaternary	
Tertiary Volcanic	
Tertiary Undivided	
North Horn	
UNCONFORMITY	
Arapien	
FAULT	
Arapien	

Safety Summary

BOP Test Date	Last BOP Test	BOP Func Due	HSE Incident	HSE Inc Remark

10/13/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 10/13/2010
REPORT: 48
DOL: 46.77
DFS: 20.60

Rig Name: NABORS DRILLING 169

Depth Progress: 0.00

Daily Summary

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
9/26/2010	3,910.00	0.26	0.00	3,909.77				0.84
9/26/2010	4,004.00	0.35	0.00	4,003.77				0.10
9/26/2010	4,098.00	1.05	0.00	4,097.76				0.74
10/6/2010	4,193.00	2.29	0.00	4,192.72				1.31
10/9/2010	4,209.00	3.09	0.00	4,208.70				5.00

Formations

Formation Name	Final Top MD (ftKB)
Twin Creek	
Gypsum Sprgs Mbr	
Navajo	
Chinle	
TD	

Safety Summary

10/13/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 10/14/2010
REPORT: 49
DOL: 47.77
DFS: 21.60

Rig Name: NABORS DRILLING 169

Depth Progress: 0.00

Daily Summary

Property Sub	Field Name	API/UWI	Spud Date
327560-001	WILDCAT	43-023-30021-0000	9/22/2010

KB-Ground Distance (ft)	Original KB Elevation (ft)	KB-Mud Line Distance (ft)
25.00	5,264.00	

Daily Operations

Target Depth (ftKB)	Target Depth (TVD) (ftKB)	End Depth (ftKB)	End Depth (TVD) (ftKB)
9,040.0		4,345.0	

Footage/Meterage (ft)	24 HR ROP (ft/hr)	Drilling Hours (hr)
0.00		

Avg Connection Gas	Avg Trip Gas	Avg Background Gas	Max Connection Gas	Max Trip Gas	Max Drill Gas

Operations at Report Time
PREPARE TO DRILL DV TOOL

Operations Summary
CONTINUE TESTING BOPE: 250 PSI LOW, 5M HIGH. NU ROTATING HEAD, FABRICATE FLOW LINE ADAPTER FROM ROTATING HEAD TO FLOW LINE, SECURE BOP STACK W/ TURNBUCKLES, RIH W/ SLICK BHA (WITH TWO BOOT BASKETS). TAG DV TOOL AT 2233', AS PER RIG DP TALLEY.

Remarks
No Incidents, No Accidents, No Spills.

Operations Next Report Period
DRILL OUT DV TOOL, SHOE TRACK, 10' OF FORMATION, PERFORME FIT, RUN GYRO, LEVEL DERRICK, POOH, SLIP AND CUT DRILL LINE, CONVERT SURFACE SYSTEM TO OIL BASED MUD.

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com
06:00	12:30	6.50	BOPS	PP	TEST BOPE: LOWER TDS VALVE; IBOP VALVE; FLOOR SAFETY VALVE; FLOOR INSIDE BOP; UPPER & LOWER PIPE RAMS - HCR, INSIDE & OUTSIDE KILL VALVES, CHOKE LINE, CHECK VALVE, 250 PSI LOW, 5 MIN / 5M HIGH, 10 MIN. ANNULAR, 250 PSI LOW, 5 MIN / 2500 PSI HIGH, 10 MIN. BLIND RAMS; STAND PIPE MANIFOLD; KELLY HOSE; MUD PUMP LINES (TO MUD PUMPS); CHOKE MANIFOLD (ALL MANUAL VALVES), 250 PSI LOW, 5 MIN / 5M HIGH, 10 MIN. (2) SWACO POWER CHOKES, 1500 PSI, 5 MIN. NOTE: B&C QUICK TEST, TESTED CASING & DV TOOL @ 2167', TO 2400 PSI -- OK
12:30	13:00	0.50	BOPS	PP	PULL TEST PLUG
13:00	16:00	3.00			M/U 13-5/8'-5M, WEATHERFORD, MODEL 8000, ROTATING HEAD ONTO SPACER SPOOL, INSTALL SPACER SPOOL TO ANNULAR, TORQUE TURN STUDS/NUTS
16:00	17:00	1.00			M/U RUNNING TOOL W/ 13-5/8" WEAR BUSHING, RUN IN & SET IN HEAD. RUN IN 4 LOCK DOWN PINS.
17:00	23:00	6.00			FABRICATE & BUILD FLOWLINE OFFSET EXTENSION, FROM ROTATING HEAD TO FLOW LINE. INSTALL HOLD DOWN CABLES & TURN-BUCKLES ON STACK & CENTER STACK.
23:00	00:30	1.50	BHA	PP	M/U: 12-1/4" MILL TOOTH BIT, BIT SUB W/ FLOAT, (2), 8" OD, BOOT BASKETS,
00:30	04:45	4.25	BHA	PP	RIH W/ (6) 8" DC'S, X/O, (6) 6-1/2" DC'S, X/O, 1 JT, 5" HWDP, JARS, 25 JTS, HWDP,
04:45	06:00	1.25	TRIP	PP	RIH WITH 5" DP TO 2233', SET 10K, TAG DV TOOL. DV TOOL 67' DEEPER AS PER CASING TALLY 2167'.

Mud Properties

Daily Cost: 738.50 Cost Cum Cost: 149,740.69 Cost

Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	T Flowline (°F)
03:00	Gel Base	4,345.0	8.60	36	

PV (cp)	YP (lbf/100ft²)	Filtrate (mL/30min)	HTHP Filtrate (mL/30...	HTHP Pressure (psi)	HTHP Temperature (°F)
5.0	13.000				

Solids (%)	Sand (%)	MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)
6.0		20.5	8.5		

Chlorides (ppm)	Calcium (ppm)	Oil Water Ratio	Electric Stab (V)	Lime (lb/bbl)	Low Gravity Solids (%)
120.000		0/100			

Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Comment
6.000	5.000	

Bottom Hole Assembly

BHA Since Insp (hr)	BHA Wt BelowJar (1000lbf)	Hrs on Jars (hr)

BHA #10 , Slick

Bit Run	Drill Bit	Bit Type	Make
1	12 1/4in, FDS+C, PP0693	Mill Tooth	Smith

Nozzles (1/32")	IADC Codes	IADC Bit Dull
22/22/22/22	___	-------

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)
1.48		

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)
			4,345.0	4,345.0

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
95	Drill Pipe	5	4.276	3,012.45	4,232.02
25	HWDP	5	3.000	768.00	1,219.57
1	Jars	6 3/8	2.875	32.57	451.57
1	HWDP	5	3.000	30.72	419.00
1	X/O	6 3/8	2.813	3.57	388.28
6	6-1/2" DC's	6 1/2	2.875	184.02	384.71
1	X/O	6 1/2	2.813	2.92	200.69
6	8" DC's	8	2.875	183.84	197.77
1	Junk Sub	8	3.500	5.25	13.93
1	Junk Sub	8	2.813	4.75	8.68

Total AFE + Sup (Cost)
9,064,000.00

AFE Job Cost Summary

Cost Type	AFE Amt (Cost)
DHC	7,600,000.00
CWC	1,464,000.00

Field Estimate Job Cost Summary

Cost Type	Field Est (Cost)
DHC	3,492,248.76

Daily Summary

Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
191,792.00	3,496,928.16

Daily Mud Field Est (Cost)	Cum Mud Field Est (Cost)
738.50	149,740.69

POL (Personnel on Location)
26.0

Daily Contacts

Job Contact	Title
Dean Baker	Sr. Drlg. Foreman
Billy Vigil	Drilling Foreman

Personnel Log

Company	Count
PIONEER NATURAL RESOURCES	1
PIONEER NATURAL RESOURCES	1
NABORS DRILLING INC	2
NABORS DRILLING INC	13
BAKER HUGHES INTEQ	2
ZECO	2
SELMA	2
NEWPARK	1
BADLANDZER	2

Weather

Precipitation Amount (in)	Precipitation Type

Temperature - High (°F)	Temperature - Low (°F)

Comment

NABORS DRILLING, 169

Rig Type
Drilling - Triple

Rig Start Date	Rig Release Date
9/22/2010	

1, National Supply, 10-P-130

Pump Number
1

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6 1/2	10.00	0.097

Max Pressure (psi)

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

2, National Supply, 10-P-130

Pump Number
2

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6 1/2	10.00	0.097

Max Pressure (psi)

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

Job Supply Amounts

Supply Item Des	Unit Label	Received	Consumed	Cum On Loc
Diesel Fuel	gal us	6,958		6,958

Mud Additive Amounts

Des	Consumed	Cum Cons
BULK TANK	2	64
BULK TANK BLOWERS	2	40
MUD ENGINEER	1	32
MUD LAB	1	25
Tax	14	6,212

Formations

Formation Name	Final Top MD (ftKB)
Quaternary	
Tertiary Volcanic	
Tertiary Undivided	
North Horn	
UNCONFORMITY	

Safety Summary

BOP Test Date	Last BOP Test	BOP Func Due	HSE Incident	HSE Inc Remark

10/14/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 10/14/2010
REPORT: 49
DOL: 47.77
DFS: 21.60

Rig Name: NABORS DRILLING 169

Depth Progress: 0.00

Daily Summary

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
1	Bit Sub w/Float	8	2.813	3.93	3.93

Drilling Parameters

4,345.0 - 4,345.0 ftKB

Start (ftKB)	End Depth...	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note
4,345.0	4,345.0							

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100...	SO Str Wt (100...	Drill Str Wt (100...	Torque Units	Drilling Torque	Off Btm Tq
0.00	0.00						

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/...	Max Open Hole AV (ft...
				0.0	0.0

Casing Strings

Prop Run?	Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
Yes	Conductor	105.0	105.0	30	ERW	118.00		
Yes	Surface	4,345.0		13 3/8	K-55	68.00		

Plug Back Total Depths

Date	Depth (ftKB)	Type	Method

Deviation Surveys

Tru-Trak, Proposed? No

Date	Description	Job
9/23/2010	Tru-Trak	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
9/26/2010	3,910.00	0.26	0.00	3,909.77				0.84
9/26/2010	4,004.00	0.35	0.00	4,003.77				0.10
9/26/2010	4,098.00	1.05	0.00	4,097.76				0.74
10/6/2010	4,193.00	2.29	0.00	4,192.72				1.31
10/9/2010	4,209.00	3.09	0.00	4,208.70				5.00

Formations

Formation Name	Final Top MD (ftKB)
Arapien	
FAULT	
Arapien	
Twin Creek	
Gypsum Sprgs Mbr	
Navajo	
Chinle	
TD	

Safety Summary

10/14/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 10/15/2010
REPORT: 50
DOL: 48.77
DFS: 22.60

Rig Name: NABORS DRILLING 169

Depth Progress: 10.00

Daily Summary

Property Sub	Field Name	API/UWI	Spud Date
327560-001	WILDCAT	43-023-30021-0000	9/22/2010

KB-Ground Distance (ft)	Original KB Elevation (ft)	KB-Mud Line Distance (ft)
25.00	5,264.00	

Daily Operations

Target Depth (ftKB)	Target Depth (TVD) (ftKB)	End Depth (ftKB)	End Depth (TVD) (ftKB)
9,040.0		4,355.0	

Footage/Meterage (ft)	24 HR ROP (ft/hr)	Drilling Hours (hr)
10.00	23.8	0.42

Avg Connection Gas	Avg Trip Gas	Avg Background Gas	Max Connection Gas	Max Trip Gas	Max Drill Gas
		10.00		1096.00	

Operations at Report Time
MU 12 1/4" BHA

Operations Summary
Drill out DV Tool. Test to 2450 psi, OK, RIH to 4276', tag cement plug. Drill out float collar @ 4292'. Test to 2400 psi. Drill 10' of new formation to 4355'. FIT test to 1920 psi, equivalent to 17.0 ppg, RU and run gyro, gyro hung up in float. TOOH. Strap new BHA components. MU 12 1/4" Hughes PDC, Tru Track motor and start PU BHA # 11.

Remarks
No Incidents, No Accidents, No Spills.

Operations Next Report Period
rih w/ Directional BHA to 4300'+/- shut down. Prepare surface facilities to convert to OBM, Drilling 12 1/4" Intermediate hole.

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com
06:00	06:45	0.75	DRLCMT	PP	Prep to drill out DV Tool
06:45	08:30	1.75	DRLCMT	PP	Drill out DV Tool from 2167'-2169', wash to 2330', pump 90 spm, 367 gpm, 330 psi, TDS 50-100 rpm, WOB 5-30K NOTE: Made 66' shallower depth correction, originally reported DV tool at 2233'
08:30	09:15	0.75	CSG	PP	Close top pipe rams, press test DV tool to 2450 psi, OK
09:15	11:30	2.25	TRIP	PP	TIH from 2330'-4240', set down 10K wt
11:30	13:45	2.25	DRLCMT	PP	Drill out cement & float collar from 4180' to 4300'; cmt stringers 4180'-4266', hard cmt 4266'-4276', rbr plug 4276'-4277', cmt 4277'-4292', float collar 4292'-4294', cmt 4294'-4300', pumps 80x80 spm, 652 gpm, pump press 1200-1280 psi, TDS 50-100 rpm, WOB 2k-36k
13:45	14:15	0.50	CSG	PP	Close top pipe rams, press test Float Collar to 2450 psi, OK
14:15	14:45	0.50	DRLCMT	PP	Drill out cement from 4300' to 4345'; pumps 80x80 spm, 652 gpm, pump press 1200-1280 psi, TDS 50-100 rpm, WOB 5k-15k
14:45	15:30	0.75	DRLG	PP	Drill 12-1/4" hole from 4345' to 4355', pumps 80x80 spm, 652 gpm, 1150 psi, WOB 4-12k, TDS 80 rpm On btm drilling time 25 min
15:30	16:30	1.00	CIRC	PP	Circ hole at 4354', 1-1/2 times (740 bbls), pumps 96x96 spm, 782 gpm, 1450 psi, MWT stabilized @ 8.5 ppg
16:30	17:00	0.50	LKOFF	PP	Pick-up to 4341', close top rams, press up in 1/2 bbl increments to 1920 psi, with 8.5 ppg mud wt = 17.0 ppg, equivalent mud wt. Release press. Lay down 1 jt DP, Bit @ 4328'.
17:00	19:45	2.75	DEVSUR	PP	R/U Vaughn Wireline, ran 1.75" OD gyro tool, survey in hole on 100' stations from 100' to 4320'. Gyro tool hung up in float @ 4311'. Pulled out of rope socket. POOH w/ wireline, R/D wireline unit. Survey: MD 4320', TVD 4319.62', Incl 2.89 Deg, AZM 263.92 Deg, DLS .80 Deg
19:45	20:30	0.75	U_EL	PN	M/U TDS, break circ, establish pump rate 35 spm = 80 psi, 45 spm = 90 psi. Pump slug.
20:30	02:00	5.50	TRIP	PP	TOOH from 4355', LD, 12 1/4" milltooth bit, junk baskets (2), bit sub with float. Retreive Gyro tool from float.
02:00	04:00	2.00	BHA	PP	Move BHA to catwalks, strap, and move Tru Track to floor.
04:00	06:00	2.00	BHA	PP	MU 12 1/4" Hughes HCD505ZX, dressed with 7-16's, Tru Track motor, and 8" DC's.

Mud Properties

Daily Cost: <Daily Mud Field Est?> Cum Cost: <Mud Additive

Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	T Flowline (°F)
PV (cp)	YP (lbf/100ft²)	Filtrate (mL/30min)	HTHP Filtrate (mL/30...	HTHP Pressure (psi)	HTHP Temperature (°F)
Solids (%)	Sand (%)	MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)
Chlorides (ppm)	Calcium (ppm)	Oil Water Ratio	Electric Stab (V)	Lime (lb/bbl)	Low Gravity Solids (%)
Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Comment			

Bottom Hole Assembly

BHA Since Insp (hr)	BHA Wt BelowJar (1000lbf)	Hrs on Jars (hr)

BHA #10 , Slick

Bit Run	Drill Bit	Bit Type	Make
1	12 1/4in, FDS+C, PP0693	Mill Tooth	Smith

Nozzles (1/32")	IADC Codes	IADC Bit Dull
22/22/22/22	___	-------

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)
1.48	0.42	10.00

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)
0.42	10.00	23.8	4,345.0	4,355.0

Total AFE + Sup (Cost)
9,064,000.00

AFE Job Cost Summary

Cost Type	AFE Amt (Cost)
DHC	7,600,000.00
CWC	1,464,000.00

Field Estimate Job Cost Summary

Cost Type	Field Est (Cost)
DHC	3,584,842.59

Daily Summary

Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
92,593.83	3,589,521.99
Daily Mud Field Est (Cost)	**Cum Mud Field Est (Cost)**
1,250.21	150,990.90

POL (Personnel on Location)
26.0

Daily Contacts

Job Contact	Title
Dean Baker	Sr. Drlg. Foreman
Billy Vigil	Drilling Foreman

Personnel Log

Company	Count
PIONEER NATURAL RESOURCES	1
PIONEER NATURAL RESOURCES	1
NABORS DRILLING INC	2
NABORS DRILLING INC	13
BAKER HUGHES INTEQ	2
ZECO	2
SELMA	2
NEWPARK	1
BADLANDZER	2

Weather

Precipitation Amount (in)	Precipitation Type
Temperature - High (°F)	Temperature - Low (°F)

Comment

NABORS DRILLING, 169

Rig Type
Drilling - Triple

Rig Start Date	Rig Release Date
9/22/2010	

1, National Supply, 10-P-130

Pump Number
1

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6 1/2	10.00	0.097

Max Pressure (psi)

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

2, National Supply, 10-P-130

Pump Number
2

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6 1/2	10.00	0.097

Max Pressure (psi)

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

Job Supply Amounts

Supply Item Des	Unit Label	Received	Consumed	Cum On Loc
Diesel Fuel	gal us	6,958		6,958

Mud Additive Amounts

Des	Consumed	Cum Cons
Bar Bulk	2	15
BULK TANK	2	66
BULK TANK BLOWERS	2	42
Caustic Soda	1	43
MUD ENGINEER	1	33
MUD LAB	1	26
NewGel	15	590
NewPHPA	2	21
Tax	42	6,254

Formations

Formation Name	Final Top MD (ftKB)
Quaternary	

Safety Summary

BOP Test Date	Last BOP Test	BOP Func Due	HSE Incident	HSE Inc Remark

10/15/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 10/15/2010
REPORT: 50
DOL: 48.77
DFS: 22.60

Rig Name: NABORS DRILLING 169

Depth Progress: 10.00

Daily Summary

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
98	Drill Pipe	5	4.276	3,134.43	4,354.00
25	HWDP	5	3.000	768.00	1,219.57
1	Jars	6 3/8	2.875	32.57	451.57
1	HWDP	5	3.000	30.72	419.00
1	X/O	6 3/8	2.813	3.57	388.28
6	6-1/2" DC's	6 1/2	2.875	184.02	384.71
1	X/O	6 1/2	2.813	2.92	200.69
6	8" DC's	8	2.875	183.84	197.77
1	Junk Sub	8	3.500	5.25	13.93
1	Junk Sub	8	2.813	4.75	8.68
1	Bit Sub w/Float	8	2.813	3.93	3.93

Drilling Parameters

4,345.0 - 4,355.0 ftKB

Start (ftKB)	End Depth...	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note
4,345.0	4,355.0	23.8	35	80		733	1,300.0	

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100...	SO Str Wt (100...	Drill Str Wt (100...	Torque Units	Drilling Torque	Off Btm Tq
0.42	1.50	160	160	125			

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/...	Max Open Hole AV (ft...
83.5	0.7	158.4	195.4	14.1	74.2

BHA #11 , Steerable

Bit Run	Drill Bit	Bit Type	Make
1	12 1/4in, HCD505ZX, 7015752	PDC	Hughes

Nozzles (1/32")	IADC Codes	IADC Bit Dull
16/16/16/16/16/16/16	M323	-------

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)
1.37		

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)
			4,355.0	4,355.0

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
					271.40
1	X/O	6 1/2	2.813	2.92	271.40
6	8" DC's	8	2.875	183.84	268.48
1	Mechanical Thruster	7 7/8	3.563	30.11	84.64
1	Filter Sub	8	2.875	4.88	54.53
1	Float Sub	8 1/16	2.938	2.49	49.65
1	Stabilizer	8 1/4	3.000	8.08	47.16
1	X/O	9 1/2	3.500	3.12	39.08
1	9-1/2" True Trak, Adjustable Pads w/ Stab	9 1/2		35.96	35.96

Drilling Parameters

4,355.0 - 4,355.0 ftKB

Start (ftKB)	End Depth...	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note
4,355.0	4,355.0							

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100...	SO Str Wt (100...	Drill Str Wt (100...	Torque Units	Drilling Torque	Off Btm Tq
0.00	0.00						

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/...	Max Open Hole AV (ft...

Casing Strings

Prop Run?	Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
Yes	Conductor	105.0	105.0	30	ERW	118.00		
Yes	Surface	4,345.0		13 3/8	K-55	68.00		

Plug Back Total Depths

Date	Depth (ftKB)	Type	Method

Deviation Surveys

Tru-Trak, Proposed? No

Date	Description	Job
9/23/2010	Tru-Trak	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
9/26/2010	4,098.00	1.05	0.00	4,097.76				0.74
10/6/2010	4,193.00	2.29	0.00	4,192.72				1.31
10/9/2010	4,209.00	3.09	0.00	4,208.70				5.00
10/15/2010	4,300.00	2.74	262.75	4,299.64	-18.24	-18.24	1.74	0.76
10/15/2010	4,320.00	2.89	263.92	4,319.62	-18.35	-18.35	0.76	0.80

Formations

Formation Name	Final Top MD (ftKB)
Tertiary Volcanic	
Tertiary Undivided	
North Horn	
UNCONFORMITY	
Arapien	
FAULT	
Arapien	
Twin Creek	
Gypsum Sprgs Mbr	
Navajo	
Chinle	
TD	

Safety Summary

10/15/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 10/16/2010
REPORT: 51
DOL: 49.77
DFS: 23.60

Rig Name: NABORS DRILLING 169

Depth Progress: 0.00

Daily Summary

Property Sub	Field Name	API/UWI	Spud Date
327560-001	WILDCAT	43-023-30021-0000	9/22/2010

KB-Ground Distance (ft)	Original KB Elevation (ft)	KB-Mud Line Distance (ft)
25.00	5,264.00	

Daily Operations

Target Depth (ftKB)	Target Depth (TVD) (ftKB)	End Depth (ftKB)	End Depth (TVD) (ftKB)
9,040.0		4,355.0	

Footage/Meterage (ft)	24 HR ROP (ft/hr)	Drilling Hours (hr)
0.00		

Avg Connection Gas	Avg Trip Gas	Avg Background Gas	Max Connection Gas	Max Trip Gas	Max Drill Gas
	10.00	10.00			

Operations at Report Time
Prepare surface facilities to convert to OBM.

Operations Summary
Finish running Directional BHA, slip & cut drill line, TIH to 4314', Preparing rig & equipment for OBM

Remarks
No Incidents, No Accidents, No Spills.

Operations Next Report Period
Finish R/U & converting equipment to facilitate OBM. Receive OBM, Drill 12 1/4" Intermediate.

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com
06:00	10:15	4.25	BHA	PP	RIH to 1374', Finish running 8" & 6-1/2" DC's, out of derrick, P/U, (3) 6-1/2" DC's, run 19 jts, 5", HWDP, Jars, 7 jts, 5" HWDP. P/U (3) 6-1/2" DC's, repositioned jars in HWDP (19 HWDP below, 7 HWDP on top), for additional BHA wt. Max WOB is 60K, being limited by Tru-Trak specs. Total available bit wt in 15.5 ppg mud = 72K!!!! NOTE: Drlg OP's temporarily suspended. SIMOPS: Preparing for OBM -- drain WBM out of mud tanks, cleaning mud tanks, remove WBM eqpt, not needed.
10:15	10:30	0.25	TRIP	PP	RIH w/ 5" DP from 1374'-1464'. NOTE: Drlg OP's temporarily suspended. SIMOPS: Preparing for OBM -- cleaning mud tanks, remove WBM eqpt, not needed. Modifying, R/U & installing OBM eqpt.
10:30	12:30	2.00	CUTDL	PP	Slip & cut 90' drill line. NOTE: Drlg OP's temporarily suspended SIMOPS: Preparing for OBM -- cleaning mud tanks, remove WBM eqpt, not needed. Modifying, R/U & installing OBM eqpt. Crane removing 10" drain lines, from mud tanks
12:30	14:15	1.75	TRIP	PP	TIH from 1467'-4314', fill pipe NOTE: Drlg OP's temporarily suspended. SIMOPS: Preparing for OBM -- cleaning mud tanks, remove WBM eqpt, not needed. Modifying, R/U & installing OBM eqpt. Crane removing 20" discharge line & 10" drain line, from mud tanks
14:15	06:00	15.75	RIGSER	PP	NOTE: Drlg OP's temporarily suspended, until R/U of surface facility equipment for OBM R/U, install & prepare for OBM -- finished cleaning mud tanks at 14:00 hrs., remove WBM eqpt, not needed. Crane removed 10" drain lines, from mud tanks, crane set ZECO OBM shaker & drier. Welders modifying; misc mud tank components, extending shaker chutes, installing target T's in 8" flare line 10" flow line at y (1 leg to gas buster & 1 leg to possum belly), had 4' section, 90% blocked with cement, 2 valves cemented up. Break out 4' section, clean out cement, re-install line, with 2 new valves. Suck out all fluid in OBM cuttings pit, Installed 20 mil liner on top of 12 mil liner, in cuttings pit Rig crew: General housekeeping of rig equipment, installed lights and camera in derrick board, and ran electrical lines. Install pre-made pollution control pan on BOP stack. 1st transport truck, with OBM, arrived, 13:20 hrs, last truck arrived 19:30 hrs, received total of 1020 bbls, 10.5 ppg. Remaining 480 bbls, OBM, delivery ETA, 16/Oct, 1300 hrs+/- Monitoring well on trip tank!!!!!

Mud Properties

Daily Cost: 1,249.77 Cost Cum Cost: 152,240.67 Cost

Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	T Flowline (°F)
03:00	Oil Base	4,533.0	10.50	42	0.0

PV (cp)	YP (lbf/100ft²)	Filtrate (mL/30min)	HTHP Filtrate (mL/30…	HTHP Pressure (psi)	HTHP Temperature (°F)
12.0	10.000				

Solids (%)	Sand (%)	MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)
15.0					

Chlorides (ppm)	Calcium (ppm)	Oil Water Ratio	Electric Stab (V)	Lime (lb/bbl)	Low Gravity Solids (%)
		81/19	333.0		

Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Comment
9.000	8.000	

Bottom Hole Assembly

BHA Since Insp (hr)	BHA Wt BelowJar (1000lbf)	Hrs on Jars (hr)

Total AFE + Sup (Cost): 9,064,000.00

AFE Job Cost Summary

Cost Type	AFE Amt (Cost)
DHC	7,600,000.00
CWC	1,464,000.00

Field Estimate Job Cost Summary

Cost Type	Field Est (Cost)
DHC	3,656,228.37

Daily Summary

Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
71,385.78	3,660,907.77

Daily Mud Field Est (Cost)	Cum Mud Field Est (Cost)
1,249.77	152,240.67

POL (Personnel on Location): 26.0

Daily Contacts

Job Contact	Title
Dean Baker	Sr. Drlg. Foreman
Billy Vigil	Drilling Foreman

Personnel Log

Company	Count
PIONEER NATURAL RESOURCES	1
PIONEER NATURAL RESOURCES	1
NABORS DRILLING INC	2
NABORS DRILLING INC	13
BAKER HUGHES INTEQ	2
ZECO	2
SELMA	2
NEWPARK	1
BADLANDZER	2

Weather

Precipitation Amount (in)	Precipitation Type

Temperature - High (°F)	Temperature - Low (°F)

Comment

NABORS DRILLING, 169

Rig Type: Drilling - Triple

Rig Start Date	Rig Release Date
9/22/2010	

1, National Supply, 10-P-130

Pump Number: 1

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6 1/2	10.00	0.097

Max Pressure (psi)

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

2, National Supply, 10-P-130

Pump Number: 2

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6 1/2	10.00	0.097

Max Pressure (psi)

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

Job Supply Amounts

Supply Item Des	Unit Label	Received	Consumed	Cum On Loc
Diesel Fuel	gal us	6,958		6,958

Mud Additive Amounts

Des	Consumed	Cum Cons
BULK TANK	2	68
BULK TANK BLOWERS	2	44
Caustic Soda		43
Desco CF	9	19
DynaDet		45
MUD ENGINEER	1	34
MUD LAB	1	27
New Gel HY		336
NewGel	5	595
NewPac R		20
NewPHPA		21
NewZan D		2

Safety Summary

BOP Test Date	Last BOP Test	BOP Func Due	HSE Incident	HSE Inc Remark

10/16/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 10/16/2010
REPORT: 51
DOL: 49.77
DFS: 23.60

Rig Name: NABORS DRILLING 169

Depth Progress: 0.00

Daily Summary

BHA #11 , Steerable

Bit Run	Drill Bit	Bit Type	Make
1	12 1/4in, HCD505ZX, 7015752	PDC	Hughes

Nozzles (1/32")	IADC Codes	IADC Bit Dull
16/16/16/16/16/16/16	M323	-------

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)
1.37		

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)
			4,355.0	4,355.0

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
					4,385.45
95	Drill Pipe	5	4.276	3,012.45	4,385.45
7	HWDP	5	3.000	215.16	1,373.00
1	Jars	6 3/8	2.875	32.57	1,157.84
19	HWDP	5	3.000	583.54	1,125.27
1	X/O	6 3/8	2.813	3.57	541.73
9	6-1/2" DC's	6 1/2	2.875	276.70	538.16
1	X/O	6 1/2	2.813	2.92	261.46
6	8" DC's	8	2.875	183.85	258.54
1	Mechanical Thruster	8	3.563	26.78	74.69
1	Filter Sub	8	2.875	4.88	47.91
1	Float Sub	8 1/16	2.938	2.49	43.03
1	XO Sub	8 1/4	3.000	3.12	40.54
1	Stop Sub	9 1/2	3.500	1.46	37.42
1	9-1/2" True Trak, Adjustable Pads w/ Stab	9 1/2		35.96	35.96

Drilling Parameters

4,355.0 - 4,355.0 ftKB

Start (ftKB)	End Depth...	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note
4,355.0	4,355.0							

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100...	SO Str Wt (100...	Drill Str Wt (100...	Torque Units	Drilling Torque	Off Btm Tq
0.00	0.00						

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/...	Max Open Hole AV (ft...

Casing Strings

Prop Run?	Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
Yes	Conductor	105.0	105.0	30	ERW	118.00		
Yes	Surface	4,345.0		13 3/8	K-55	68.00		

Plug Back Total Depths

Date	Depth (ftKB)	Type	Method

Deviation Surveys

Tru-Trak, Proposed? No

Date	Description	Job
9/23/2010	Tru-Trak	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
9/26/2010	4,098.00	1.05	0.00	4,097.76				0.74
10/6/2010	4,193.00	2.29	0.00	4,192.72				1.31
10/9/2010	4,209.00	3.09	0.00	4,208.70				5.00
10/15/2010	4,300.00	2.74	262.75	4,299.64	-18.24	-18.24	1.74	0.76
10/15/2010	4,320.00	2.89	263.92	4,319.62	-18.35	-18.35	0.76	0.80

Mud Additive Amounts

Des	Consumed	Cum Cons
NO Foam X		116
SAPP		2
Soap Sticks	50	50
Soda Ash		22
Tax	32	6,286
Wallnut Shell M		651

Formations

Formation Name	Final Top MD (ftKB)
Quaternary	
Tertiary Volcanic	
Tertiary Undivided	
North Horn	
UNCONFORMITY	
Arapien	
FAULT	
Arapien	
Twin Creek	
Gypsum Sprgs Mbr	
Navajo	
Chinle	
TD	

Safety Summary

10/16/2010

PIONEER NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 10/17/2010
REPORT: 52
DOL: 50.77
DFS: 24.60

Rig Name: NABORS DRILLING 169

Depth Progress: 0.00

Daily Summary

Property Sub	Field Name	API/UWI	Spud Date
327560-001	WILDCAT	43-023-30021-0000	9/22/2010

KB-Ground Distance (ft)	Original KB Elevation (ft)	KB-Mud Line Distance (ft)
25.00	5,264.00	

Daily Operations

Target Depth (ftKB)	Target Depth (TVD) (ftKB)	End Depth (ftKB)	End Depth (TVD) (ftKB)
9,040.0		4,355.0	

Footage/Meterage (ft)	24 HR ROP (ft/hr)	Drilling Hours (hr)
0.00		

Avg Connection Gas	Avg Trip Gas	Avg Background Gas	Max Connection Gas	Max Trip Gas	Max Drill Gas

Operations at Report Time
Displacing WBM w/ OBM

Operations Summary
Finish R/U & converting equipment for drilling with OBM. Wait on & R/U screened filter. Pump OBM from frac tanks to mud tanks. Displace WBM w/ OBM.

Remarks
No Incidents, No Accidents, No Spills.

Operations Next Report Period
Drilling 12-1/4"

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com
06:00	19:00	13.00	RIGSER	PP	NOTE: Drlg OP's temporarily suspended. Finish fabricating shale shaker discharge chute (tying both rig shale shakers together), to ZECO dry shaker. Fabricate slide from ZECO drier shaker to OBM cuttings pit. Cut opening, in flow line trough at suction tank, fabricate & install, mounts for removable gate. Fabricate & install 2 seperate gates in flow line trough at pill tank & suction tank. Mud tank modifications complete. Trash (small ball type consistency) floating on top of OBM, in frac tanks. Transport trailers were not clean when OBM was loaded in them at Newpark's, liquid mud plant. Stab rotating head bushing assembly on DP, insert in rotating head. Monitoring well on trip tank!!!!! 3 transport trucks, with OBM, arrived, 14:20 hrs, received 255 bbls, 10.5 ppg. 2 transport trucks, with OBM, arrived 24:00 hrs, received 170 bbls, 10.5 ppg Received total of 1445 bbls (15th & 16th/Oct) Nabors set & started R/U of boiler.
19:00	02:00	7.00	U_WT	PN	NOTE: Drlg OP's temporarily suspended. Wait on screened filter pod. R/U single 30" OD X 42" tall, filter pod, to transfer pump. Ran 4" hose to suction tank
02:00	04:00	2.00	CIRC	PP	NOTE: Drlg OP's temporarily suspended. Transfer 586 bbls OBM, from frac tanks, through filter pod, to mud tanks.
04:00	04:15	0.25	SFTY	PP	NOTE: Drlg OP's temporarily suspended. JSA with Nabors, BHI, ZECO, Newpark, displacing WBM with OBM
04:15	06:00	1.75	CIRC	PP	NOTE: Drlg OP's temporarily suspended. At 06:00, have pumped, 291 bbls, 10.5 ppg, OBM, 1 pump, 50 spm, 204 gpm, 100 psi, displacing WBM, overboard to reserve pit.

Mud Properties

Daily Cost: 6,006.21 Cost Cum Cost: 158,246.88 Cost

Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	T Flowline (°F)
03:00	Oil Base	4,543.0	10.50	42	67.0

PV (cp)	YP (lbf/100ft²)	Filtrate (mL/30min)	HTHP Filtrate (mL/30...	HTHP Pressure (psi)	HTHP Temperature (°F)
12.0	10.000				

Solids (%)	Sand (%)	MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)
13.0					

Chlorides (ppm)	Calcium (ppm)	Oil Water Ratio	Electric Stab (V)	Lime (lb/bbl)	Low Gravity Solids (%)
		84/16	340.0	2.8	

Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Comment
9.000	8.000	

Bottom Hole Assembly

BHA Since Insp (hr)	BHA Wt BelowJar (1000lbf)	Hrs on Jars (hr)

BHA #11 , Steerable

Bit Run	Drill Bit	Bit Type	Make
1	12 1/4in, HCD505ZX, 7015752	PDC	Hughes

Nozzles (1/32")	IADC Codes	IADC Bit Dull
16/16/16/16/16/16	M323	-------

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)
1.37		

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)
			4,355.0	4,355.0

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
					4,385.45

Total AFE + Sup (Cost)
9,064,000.00

AFE Job Cost Summary

Cost Type	AFE Amt (Cost)
DHC	7,600,000.00
CWC	1,464,000.00

Field Estimate Job Cost Summary

Cost Type	Field Est (Cost)
DHC	3,747,494.58

Daily Summary

Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
79,266.21	3,752,173.98
Daily Mud Field Est (Cost)	**Cum Mud Field Est (Cost)**
6,006.21	158,246.88

POL (Personnel on Location)
26.0

Daily Contacts

Job Contact	Title
Dean Baker	Sr. Drlg. Foreman
Billy Vigil	Drilling Foreman

Personnel Log

Company	Count
PIONEER NATURAL RESOURCES	1
PIONEER NATURAL RESOURCES	1
NABORS DRILLING INC	2
NABORS DRILLING INC	13
BAKER HUGHES INTEQ	2
ZECO	2
SELMA	2
NEWPARK	1
BADLANDZER	2

Weather

Precipitation Amount (in)	Precipitation Type
Temperature - High (°F)	**Temperature - Low (°F)**

Comment

NABORS DRILLING, 169

Rig Type
Drilling - Triple

Rig Start Date	Rig Release Date
9/22/2010	

1, National Supply, 10-P-130

Pump Number
1

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6 1/2	10.00	0.097

Max Pressure (psi)

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

2, National Supply, 10-P-130

Pump Number
2

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6 1/2	10.00	0.097

Max Pressure (psi)

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

Job Supply Amounts

Supply Item Des	Unit Label	Received	Consumed	Cum On Loc
Diesel Fuel	gal us	6,958		6,958

Mud Additive Amounts

Des	Consumed	Cum Cons
BULK TANK	2	70
BULK TANK BLOWERS	2	46
Caustic Soda	2	45
Drum Disposal	40	40
MUD ENGINEER	1	35
MUD LAB	1	28
Pallets	28	28
Shrink Wrap	18	18
Tax	132	6,418
Trucking	3,174	28,346

Safety Summary

BOP Test Date	Last BOP Test	BOP Func Due	HSE Incident	HSE Inc Remark

10/17/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 10/17/2010
REPORT: 52
DOL: 50.77
DFS: 24.60

Rig Name: NABORS DRILLING 169

Depth Progress: 0.00

Daily Summary

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
95	Drill Pipe	5	4.276	3,012.45	4,385.45
7	HWDP	5	3.000	215.16	1,373.00
1	Jars	6 3/8	2.875	32.57	1,157.84
19	HWDP	5	3.000	583.54	1,125.27
1	X/O	6 3/8	2.813	3.57	541.73
9	6-1/2" DC's	6 1/2	2.875	276.70	538.16
1	X/O	6 1/2	2.813	2.92	261.46
6	8" DC's	8	2.875	183.85	258.54
1	Mechanical Thruster	8	3.563	26.78	74.69
1	Filter Sub	8	2.875	4.88	47.91
1	Float Sub	8 1/16	2.938	2.49	43.03
1	XO Sub	8 1/4	3.000	3.12	40.54
1	Stop Sub	9 1/2	3.500	1.46	37.42
1	9-1/2" True Trak, Adjustable Pads w/ Stab	9 1/2		35.96	35.96

Drilling Parameters

4,355.0 - 4,355.0 ftKB

Start (ftKB)	End Depth...	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note
4,355.0	4,355.0							

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100...	SO Str Wt (100...	Drill Str Wt (100...	Torque Units	Drilling Torque	Off Btm Tq
0.00	1.00						

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/...	Max Open Hole AV (ft...

Casing Strings

Prop Run?	Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
Yes	Conductor	105.0	105.0	30	ERW	118.00		
Yes	Surface	4,345.0		13 3/8	K-55	68.00		

Plug Back Total Depths

Date	Depth (ftKB)	Type	Method

Deviation Surveys

Tru-Trak, Proposed? No

Date	Description	Job
9/23/2010	Tru-Trak	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
9/26/2010	4,098.00	1.05	0.00	4,097.76				0.74
10/6/2010	4,193.00	2.29	0.00	4,192.72				1.31
10/9/2010	4,209.00	3.09	0.00	4,208.70				5.00
10/15/2010	4,300.00	2.74	262.75	4,299.64	-18.24	-18.24	1.74	0.76
10/15/2010	4,320.00	2.89	263.92	4,319.62	-18.35	-18.35	0.76	0.80

Formations

Formation Name	Final Top MD (ftKB)
Quaternary	
Tertiary Volcanic	
Tertiary Undivided	
North Horn	
UNCONFORMITY	
Arapien	
FAULT	
Arapien	
Twin Creek	
Gypsum Sprgs Mbr	
Navajo	
Chinle	
TD	

Safety Summary

10/17/2010

PIONEER NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 10/18/2010
REPORT: 53
DOL: 51.77
DFS: 25.60

Rig Name: NABORS DRILLING 169

Depth Progress: 242.00

Daily Summary

Property Sub	Field Name	API/UWI	Spud Date
327560-001	WILDCAT	43-023-30021-0000	9/22/2010

KB-Ground Distance (ft)	Original KB Elevation (ft)	KB-Mud Line Distance (ft)
25.00	5,264.00	

Daily Operations

Target Depth (ftKB)	Target Depth (TVD) (ftKB)	End Depth (ftKB)	End Depth (TVD) (ftKB)
9,040.0		4,597.0	

Footage/Meterage (ft)	24 HR ROP (ft/hr)	Drilling Hours (hr)
242.00	14.8	16.40

Avg Connection Gas	Avg Trip Gas	Avg Background Gas	Max Connection Gas	Max Trip Gas	Max Drill Gas

Operations at Report Time
Circulating at 4597' increasing mwt to 10.7 lb

Operations Summary
Finish displacing WBM w/ OBM, Circ hole, sync tru-trak, slide drilling 12-1/4" to 4597'.

Remarks
No Incidents, No Accidents, No Spills.

Operations Next Report Period
Increase mwt to 10.7 lb. Drilling 12-1/4"

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com
06:00	06:45	0.75	CIRC	PP	Finish displacing WBM w/ 303 bbls, 10.5 ppg, OBM, 1 pump, 70 spm, 285 gpm, 590 psi. WBM, displaced overboard into reserve pit.
06:45	08:00	1.25	CIRC	PP	Circ w/ 1 pump, 68 spm, 277 gpm, 550 psi, mud heated up from 67 deg to 92 deg
08:00	08:15	0.25	DEVSUR	PP	Sync Tru-trak @ 4351', pumps 70X70 spm, 570 gpm, 2800-3100 psi. Nabors pump press policy, 90% of manufactor rating. Manufactor rating 3300 psi, press rating on liners @ 90% = 3000 psi.
08:15	08:45	0.50	U_OTR	PN	V-Belt on #1 pump slipping, apply dressing compound
08:45	09:30	0.75	WA	PP	Wash from 4351' to 4355', had 3' fill, Sync Tru-trak @ 4351', pumps 80X80 to 95X95 spm, 652 to 774 gpm, 2650-2900 psi, P/U 170K, S/O 170K
09:30	04:00	18.50	SLDDRLG	PP	Slide Drill from 4355' to 4597', pumps, 80X80 - 90X90, spm, 652-733 gpm, 2530-2970 psi, WOB 2-21K, bit 104-117 rpm, sync Tru-Trak every conn. Screen up shakers with 230, 165, 84, 84. Drilled 242', on bottom drilling time 16.4 hrs, avg ROP 14.5'/hr Total on bottom sliding time = 16.4 hrs Fms from 4355'-4460': 100%+/- Shaley Sand, Light gray color Fms from 4460'-4540': 45% Dolomite, 50% Sh, 5% Lime Fms from 4540'-4597': 65% Dolomite, 15% Lime, 20% Shale that is soft gummy.
04:00	04:45	0.75	SLDDRLG	PP	Connection @ 4597. Sync tool, pumps down for 5 minutes. As pulling out of slips pulled 53k over string weight (176K), to pull slips. Pumps 90 X90, 750 GPM, 2615 Psi. Taking weight, cannot get back to bottom. Mud: 9.9lb, 45 visc.
04:45	05:30	0.75	CLNBH	PP	Retract ribs on Tru track. Pumps 90 X90, 750 GPM, 2615 PSI. Rotate string with top drive, torque up to 16k, string broke free. Gained pipe movement, back to normal string weight of 176k. Rotate and work pipe, 20 rpm, 7' up and down free and clear. Circulate and work pipe 45 minutes, hole is free and clear. Prepare to sync tool and open ribs.
05:30	05:45	0.25	SLDDRLG	PP	Sync Tru-Track tool and open ribs. Tru-trak taking 10-20k weight getting back to bottom, Pumps 90 X90, 2620 PSI. Close ribs, could not get back to bottom with no rotation. PU to normal string weight (176K), rotate with TDS, went to bottom.
05:45	06:00	0.25	CLNBH	PP	Clean and circulate hole at 20 RPM with TDS, pumps 90 X90, 750 GPM, 2650 PSI. Working pipe and circulate hole. Currently increasing mwt from 9.9 to 10.7 ppg.

Mud Properties

Daily Cost: 1,015.65 Cost Cum Cost: 159,262.53 Cost

Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	T Flowline (°F)
03:00	Oil Base	4,584.0	10.00	45	117.0

PV (cp)	YP (lbf/100ft²)	Filtrate (mL/30min)	HTHP Filtrate (mL/30…	HTHP Pressure (psi)	HTHP Temperature (°F)
12.0	12.000				

Solids (%)	Sand (%)	MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)
11.0					

Chlorides (ppm)	Calcium (ppm)	Oil Water Ratio	Electric Stab (V)	Lime (lb/bbl)	Low Gravity Solids (%)
		81/19	561.0	5.2	1.6

Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Comment
8.000	8.000	

Bottom Hole Assembly

BHA Since Insp (hr)	BHA Wt BelowJar (1000lbf)	Hrs on Jars (hr)

Total AFE + Sup (Cost): 9,064,000.00

AFE Job Cost Summary

Cost Type	AFE Amt (Cost)
DHC	7,600,000.00
CWC	1,464,000.00

Field Estimate Job Cost Summary

Cost Type	Field Est (Cost)
DHC	3,803,961.23

Daily Summary

Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
56,466.65	3,808,640.63

Daily Mud Field Est (Cost)	Cum Mud Field Est (Cost)
1,015.65	159,262.53

POL (Personnel on Location): 26.0

Daily Contacts

Job Contact	Title
Dean Baker	Sr. Drlg. Foreman
Billy Vigil	Drilling Foreman

Personnel Log

Company	Count
PIONEER NATURAL RESOURCES	1
PIONEER NATURAL RESOURCES	1
NABORS DRILLING INC	2
NABORS DRILLING INC	13
BAKER HUGHES INTEQ	2
ZECO	2
SELMA	2
NEWPARK	1
BADLANDZER	2

Weather

Precipitation Amount (in)	Precipitation Type

Temperature - High (°F)	Temperature - Low (°F)

Comment

NABORS DRILLING, 169

Rig Type: Drilling - Triple

Rig Start Date	Rig Release Date
9/22/2010	

1, National Supply, 10-P-130

Pump Number: 1

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6 1/2	10.00	0.097

Max Pressure (psi)

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

2, National Supply, 10-P-130

Pump Number: 2

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6 1/2	10.00	0.097

Max Pressure (psi)

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

Job Supply Amounts

Supply Item Des	Unit Label	Received	Consumed	Cum On Loc
Diesel Fuel	gal us	6,958		6,958

Mud Additive Amounts

Des	Consumed	Cum Cons
BULK TANK	2	72
BULK TANK BLOWERS	2	48
Lime	24	26
MUD ENGINEER	1	36
MUD LAB	1	29
Tax	121	6,540

Formations

Formation Name	Final Top MD (ftKB)
Quaternary	
Tertiary Volcanic	
Tertiary Undivided	
North Horn	

Safety Summary

BOP Test Date	Last BOP Test	BOP Func Due	HSE Incident	HSE Inc Remark

10/18/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 10/18/2010
REPORT: 53
DOL: 51.77
DFS: 25.60

Rig Name: NABORS DRILLING 169

Depth Progress: 242.00

Daily Summary

BHA #11 , Steerable

Bit Run	Drill Bit	Bit Type	Make
1	12 1/4in, HCD505ZX, 7015752	PDC	Hughes

Nozzles (1/32")	IADC Codes	IADC Bit Dull
16/16/16/16/16/16	M323	-------

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)
1.37	16.40	242.00

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)
16.40	242.00	14.8	4,355.0	4,597.0

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
					4,385.45
95	Drill Pipe	5	4.276	3,012.45	4,385.45
7	HWDP	5	3.000	215.16	1,373.00
1	Jars	6 3/8	2.875	32.57	1,157.84
19	HWDP	5	3.000	583.54	1,125.27
1	X/O	6 3/8	2.813	3.57	541.73
9	6-1/2" DC's	6 1/2	2.875	276.70	538.16
1	X/O	6 1/2	2.813	2.92	261.46
6	8" DC's	8	2.875	183.85	258.54
1	Mechanical Thruster	8	3.563	26.78	74.69
1	Filter Sub	8	2.875	4.88	47.91
1	Float Sub	8 1/16	2.938	2.49	43.03
1	XO Sub	8 1/4	3.000	3.12	40.54
1	Stop Sub	9 1/2	3.500	1.46	37.42
1	9-1/2" True Trak, Adjustable Pads w/ Stab	9 1/2		35.96	35.96

Drilling Parameters

4,355.0 - 4,597.0 ftKB

Start (ftKB)	End Depth...	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note
4,355.0	4,597.0	14.8						

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100...	SO Str Wt (100...	Drill Str Wt (100...	Torque Units	Drilling Torque	Off Btm Tq
16.40	21.00						

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/...	Max Open Hole AV (ft...

Casing Strings

Prop Run?	Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
Yes	Conductor	105.0	105.0	30	ERW	118.00		
Yes	Surface	4,345.0		13 3/8	K-55	68.00		

Plug Back Total Depths

Date	Depth (ftKB)	Type	Method

Deviation Surveys

Tru-Trak, Proposed? No

Date	Description	Job
9/23/2010	Tru-Trak	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
9/26/2010	4,098.00	1.05	0.00	4,097.76				0.74
10/6/2010	4,193.00	2.29	0.00	4,192.72				1.31
10/9/2010	4,209.00	3.09	0.00	4,208.70				5.00
10/15/2010	4,300.00	2.74	262.75	4,299.64	-18.24	-18.24	1.74	0.76
10/15/2010	4,320.00	2.89	263.92	4,319.62	-18.35	-18.35	0.76	0.80

Formations

Formation Name	Final Top MD (ftKB)
UNCONFORMITY	
Arapien	
FAULT	
Arapien	
Twin Creek	
Gypsum Sprgs Mbr	
Navajo	
Chinle	
TD	

Safety Summary

10/18/2010

PIONEER NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 10/19/2010
REPORT: 54
DOL: 52.77
DFS: 26.60

Rig Name: NABORS DRILLING 169

Depth Progress: 317.00

Daily Summary

Property Sub	Field Name	API/UWI	Spud Date
327560-001	WILDCAT	43-023-30021-0000	9/22/2010

KB-Ground Distance (ft)	Original KB Elevation (ft)	KB-Mud Line Distance (ft)
25.00	5,264.00	

Daily Operations

Target Depth (ftKB)	Target Depth (TVD) (ftKB)	End Depth (ftKB)	End Depth (TVD) (ftKB)
9,040.0		4,914.0	

Footage/Meterage (ft)	24 HR ROP (ft/hr)	Drilling Hours (hr)
317.00	21.9	14.50

Avg Connection Gas	Avg Trip Gas	Avg Background Gas	Max Connection Gas	Max Trip Gas	Max Drill Gas
86.00		63.00			

Operations at Report Time
Drilling 12-1/4'' hole 4914'

Operations Summary
Increase mwt to 10.7 ppg, Slide Drill 4597'-4691', Stuck at 4691', Work Free, Circ, Increase mwt to 11.0 ppg, Slide drill 4691'-4787', Circ (lots of shale over shakers), Increase mwt to 11.8 ppg, Cuttings cleaned up, Increase mwt to 12.0 ppg while drilling, Drill 4787'-4914'

Remarks
No Incidents, No Accidents, No Spills.

Operations Next Report Period
Drill 12-1/4"

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com
06:00	09:00	3.00	U_WC	PN	Circulating at 4594', increased mwt from 9.9 to 10.7 ppg, in/out, pumps 80 X80, 652 GPM, 2450 PSI.
09:00	13:00	4.00	SLDDRLG	PP	Slide Drill from 4597' to 4691', pumps 80X80 - 85X85 spm, 652-693 gpm, 2720-2980 psi, WOB 18-25K, bit 104-111 rpm, sync Tru-Trak every conn. After drilling stand down, back ream, no hole issues. Drilled 94', on bottom drilling time 4.1 hrs, avg ROP 22.9'/hr Total on bottom sliding time = 16.4 + 4.1 = 20.5 hrs Mwt 10.7 ppg Fms from 4597'-4691': 80% Dolomite, 5-10% Lime, 10-20% Shale
13:00	13:30	0.50	RIGSER	PP	Rig Service
13:30	14:30	1.00	U_SP	PN	Stuck at 4691, Sync Tru-trak at 4691', pumps 80X80 spm, 652 gpm, ribs extended, could not get to bottom @ 4691'. Sync tool, retract ribs, could not wash to bottom. When pulling up at 4689, got stuck. Worked string, max P/U 250K (80K over string wt), max S/O 130K (40K under string wt), put 3-4-1/2 rounds torque in string, pumps 80X80, 2850 psi. Inc pumps to 85x85, 2950 psi, w/ 4 rounds torque in string, when p/u, came free. Work string up & down 4', rotate 25 rpm.
14:30	15:30	1.00	U_WC	PN	Circ at 4691', inc mwt from 10.7 ppg to 11.0 ppg, stabilize mwt 11.0 ppg, in/out, sync tool - OK
15:30	16:00	0.50	WA	PP	Wash to bottom from 4688' to 4691', after increasing mwt to 11.0 ppg. Ribs on Tru-trak retracted, hole a little sticky. pumps 85X85 spm, 693 gpm, 2890 psi
16:00	18:30	2.50	SLDDRLG	PP	Slide Drill from 4691' to 4787', pumps 80X80 - 85X85 spm, 652-693 gpm, 2560-2980 psi, WOB 11-25K, bit 104-111 rpm. No hole issues. At 4750' (while drilling), increase mwt from 11.0 to 11.5 ppg Drilled 96', on bottom drilling time 2.9 hrs, avg ROP 33.1'/hr Total on bottom sliding time = 2.9 + 20.5 = 23.4 hrs Fms: 4700': 75% Shale, 15% Dolomite, 5% Lime, 5% Sand Fms: 4740': 70% Shale, 30% Dolomite
18:30	21:30	3.00	U_WC	PN	Circ at 4787', inc mwt from 11.5 to 11.8 ppg. Large amount of Shale over shakers, pumps 80X80, 652 gpm, 2650 psi. Stabilized mwt at 11.8 ppg. When mwt reached 11.7 ppg, Shale decreased over shaker. Shut down pumps, make conn, no tite, or, sticky hole issues. Fms sample @ 4780: 80% Dolomite, 15% Sh, 5% Gyp
21:30	02:15	4.75	SLDDRLG	PP	Slide Drill from 4787' to 4882', pumps 78X78 spm, 635 gpm, 2730-2875 psi, WOB 20-24K, bit 102 rpm. No hole issues. Drill from 4787'-4880', increased mwt from 11.8 to 12.0 ppg Drilled 95', on bottom drilling time 4.75 hrs, avg ROP 20'/hr Total on bottom sliding time = 4.75 + 23.4 = 28.15 hrs Fms: 4780' - 4800': 95% Sandstone, 5% Shale Fms: 4800' - 4820': 60% Sandstone, 20% Shale, 10% Lime, 10% Dolomite Fms: 4820' - 4840': 50% Sandstone, 30% Shale, 10% Lime, 10% Dolomite.

Total AFE + Sup (Cost)
9,064,000.00

AFE Job Cost Summary

Cost Type	AFE Amt (Cost)
DHC	7,600,000.00
CWC	1,464,000.00

Field Estimate Job Cost Summary

Cost Type	Field Est (Cost)
DHC	3,937,341.00

Daily Summary

Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
144,009.77	3,942,020.40
Daily Mud Field Est (Cost)	**Cum Mud Field Est (Cost)**
15,563.77	175,256.30

POL (Personnel on Location)
26.0

Daily Contacts

Job Contact	Title
Dean Baker	Sr. Drlg. Foreman
Billy Vigil	Drilling Foreman

Personnel Log

Company	Count
PIONEER NATURAL RESOURCES	1
PIONEER NATURAL RESOURCES	1
NABORS DRILLING INC	2
NABORS DRILLING INC	13
BAKER HUGHES INTEQ	2
ZECO	2
SELMA	2
NEWPARK	1
BADLANDZER	2

Weather

Precipitation Amount (in)	Precipitation Type
Temperature - High (°F)	**Temperature - Low (°F)**

Comment

NABORS DRILLING, 169

Rig Type
Drilling - Triple

Rig Start Date	Rig Release Date
9/22/2010	

1, National Supply, 10-P-130

Pump Number
1

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6 1/2	10.00	0.097

Max Pressure (psi)

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

2, National Supply, 10-P-130

Pump Number
2

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6 1/2	10.00	0.097

Max Pressure (psi)

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

Job Supply Amounts

Supply Item Des	Unit Label	Received	Consumed	Cum On Loc
Diesel Fuel	gal us	6,958		6,958

Mud Additive Amounts

Des	Consumed	Cum Cons
Bar Bulk	81	96
Bentone	14	16
BULK TANK	2	74
BULK TANK BLOWERS	2	50
Lime	49	75
MUD ENGINEER	1	37
MUD LAB	1	30
Opti-Mul	2	3
Opti-Plus	2	3
Tax	853	7,392

Safety Summary

BOP Test Date	Last BOP Test	BOP Func Due	HSE Incident	HSE Inc Remark
03/November/2010	13/October/2010	Next Trip		

PIONEER NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Daily Drilling Report

Well Name: South Hills 6-1

Rig Name: NABORS DRILLING 169

Depth Progress: 317.00

REPORT DATE: 10/19/2010
REPORT: 54
DOL: 52.77
DFS: 26.60

Daily Summary

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com
02:15	03:15	1.00	CLNBH	PP	Circ at 4882', 40 minutes, had heavy amount of cuttings (Shale), over shakers, shakers clean up after 3-5 min. Made conn, sync Tru-trak.
03:15	06:00	2.75	SLDDRL G	PP	Slide Drill from 4882' to 4914', pumps 78X78 spm, 635 gpm, 2770-2850 psi, WOB 20-24K, bit 102 rpm. No hole issues. Drilled 32', on bottom drilling time 2.75 hrs, avg ROP 11.6'/hr Total on bottom sliding time = 2.75 + 28.15 = 30.00 hrs Fms: 4840' - 4880': 40% Sandstone, 35% Shale, 15% Dolomite. Fms: 4880' - 4900': 100% Dolomite (fine granular mud stone type)

Mud Properties

Daily Cost: 15,563.77 Cost Cum Cost: 175,256.30 Cost

Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	T Flowline (°F)
03:30	Oil Base		12.00	42	142.0

PV (cp)	YP (lbf/100ft²)	Filtrate (mL/30min)	HTHP Filtrate (mL/30…	HTHP Pressure (psi)	HTHP Temperature (°F)
10.0	14.000				

Solids (%)	Sand (%)	MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)
19.0					

Chlorides (ppm)	Calcium (ppm)	Oil Water Ratio	Electric Stab (V)	Lime (lb/bbl)	Low Gravity Solids (%)
		84/16	864.0	4.1	2.7

Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Comment
8.000	8.000	

Bottom Hole Assembly

BHA Since Insp (hr)	BHA Wt BelowJar (1000lbf)	Hrs on Jars (hr)

BHA #11 , Steerable

Bit Run	Drill Bit	Bit Type	Make
1	12 1/4in, HCD505ZX, 7015752	PDC	Hughes

Nozzles (1/32")	IADC Codes	IADC Bit Dull
16/16/16/16/16/16/16	M323	-------

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)
1.37	30.90	559.00

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)
30.90	559.00	18.1	4,355.0	4,914.0

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
					4,786.00
108	Drill Pipe	5	4.276	3,413.00	4,786.00
7	HWDP	5	3.000	215.16	1,373.00
1	Jars	6 3/8	2.875	32.57	1,157.84
19	HWDP	5	3.000	583.54	1,125.27
1	X/O	6 3/8	2.813	3.57	541.73
9	6-1/2" DC's	6 1/2	2.875	276.70	538.16
1	X/O	6 1/2	2.813	2.92	261.46
6	8" DC's	8	2.875	183.85	258.54
1	Mechanical Thruster	8	3.563	26.78	74.69
1	Filter Sub	8	2.875	4.88	47.91
1	Float Sub	8 1/16	2.938	2.49	43.03
1	XO Sub	8 1/4	3.000	3.12	40.54
1	Stop Sub	9 1/2	3.500	1.46	37.42
1	9-1/2" True Trak, Adjustable Pads w/ Stab	9 1/2		35.96	35.96

Drilling Parameters

4,597.0 - 4,914.0 ftKB

Start (ftKB)	End Depth…	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note
4,597.0	4,914.0	21.9	20		150.0	635	2,800.0	

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100…	SO Str Wt (100…	Drill Str Wt (100…	Torque Units	Drilling Torque	Off Btm Tq
14.50	9.00	174	174	152			

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/…	Max Open Hole AV (ft…

Casing Strings

Prop Run?	Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
Yes	Conductor	105.0	105.0	30	ERW	118.00		
Yes	Surface	4,345.0	4,344.6	13 3/8	K-55	68.00		

Plug Back Total Depths

Date	Depth (ftKB)	Type	Method

Deviation Surveys

Tru-Trak, Proposed? No

Date	Description	Job
9/23/2010	Tru-Trak	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
10/15/2010	4,470.00	1.67		4,469.61				
10/15/2010	4,564.00	1.23		4,563.61				

Formations

Formation Name	Final Top MD (ftKB)
Quaternary	
Tertiary Volcanic	
Tertiary Undivided	
North Horn	
UNCONFORMITY	
Arapien	
FAULT	
Arapien	
Twin Creek	
Gypsum Sprgs Mbr	
Navajo	
Chinle	
TD	

Safety Summary

10/19/2010

PIONEER NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 10/20/2010
REPORT: 55
DOL: 53.77
DFS: 27.60

Rig Name: NABORS DRILLING 169

Depth Progress: 251.00

Daily Summary

Property Sub	Field Name	API/UWI	Spud Date
327560-001	WILDCAT	43-023-30021-0000	9/22/2010

KB-Ground Distance (ft)	Original KB Elevation (ft)	KB-Mud Line Distance (ft)
25.00	5,264.00	

Daily Operations

Target Depth (ftKB)	Target Depth (TVD) (ftKB)	End Depth (ftKB)	End Depth (TVD) (ftKB)
9,040.0		5,165.0	

Footage/Meterage (ft)	24 HR ROP (ft/hr)	Drilling Hours (hr)
251.00	13.5	18.65

Avg Connection Gas	Avg Trip Gas	Avg Background Gas	Max Connection Gas	Max Trip Gas	Max Drill Gas
94.00		48.00			

Operations at Report Time
Prepare for TOOH

Operations Summary
Slide drill from 4914'-5165', Work on mud pumps Prep to POOH,

Remarks
No Incidents, No Accidents, No Spills.

Operations Next Report Period
TOOH, change mud pump liners on trip, change bit nozzles, TIH, drill 12-1/4"

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com
06:00	07:00	1.00	SLDDRLG	PP	Slide Drill from 4914' to 4930', pumps 78X78 spm, 635 gpm, 2770-2850 psi, WOB 20-24K, bit 102 rpm. No hole issues. Drilled 16', on bottom drilling time 1.1 hrs, avg ROP 14.5'/hr Total on bottom sliding time = 1.1 hrs + 30.00 hrs = 31.1 hrs At 4916'+/-, lost 30 bbls to formation. Mix & pump (2) 25 bbl, 15 ppb, LCM sweeps. Fms: 4920', 95% Dolomite, 5% Limestone
07:00	07:30	0.50	RIGSER	PP	Rig Service, #2 mud pump suction caps leaking, R&R cap sealing gasket, circ w/ 1 pump 82 spm
07:30	08:00	0.50	U_RIG	PN	Replace #2 mud pump intake pod cap, threads cut, circ w/ 1 pump 82 spm
08:00	15:15	7.25	SLDDRLG	PP	Slide Drill from 4930' to 5071', pumps 76X76 spm, 619 gpm, 2770-2850 psi, WOB 12-24K, bit 99 rpm. No hole issues. Drilled 141', on bottom drilling time 7.1 hrs, avg ROP 19.9'/hr Total on bottom sliding time = 7.1 hrs + 31.10 hrs = 38.2 hrs Fms: 4920' - 4960', 50-35% % Dolomite, 50-60% Shale, 5% Limestone Fms: 4960' - 5071', 10-85% Dolomite, 15-80%, Shale, 15% Sand, 10% Gyp, 5% Lime
15:15	16:00	0.75	CLNBH	PP	Circ at 5062', pumps 76X76 spm, 619 gpm, 2650 psi, had large amount of shale over shakers for approx 10 min, then cleaned up, mwt 12.0 ppg, in/out, sync tool - OK
16:00	22:00	6.00	SLDDRLG	PP	Slide Drill from 5071' to 5134', pumps 80X80 to 85X85 spm, 652-693 gpm, 2875-3090 psi, WOB 14-27K, bit 104-110 rpm. Slight losses, pumping 25 bbl, 15 ppb sweeps, every 1/2 hour Drilled 63', on bottom drilling time 5.7 hrs, avg ROP 11.1'/hr Total on bottom sliding time = 5.7 hrs + 38.2 hrs = 43.9 hrs Fms: 5060' - 5080', 30% Dolomite, 70%, Shale. Fms: 5080' - 5100', 90% Shale, 5% Shale, 5% Lime. FMS: 5100' - 5134', 80% Shale, 15% Dolomite, 5% Lime. Received 300 bbls, 15.5 ppg, OBM
22:00	22:30	0.50	RMCLN	PN	Back ream & circ hole, pumps 80X80, 652 gpm, 2920 psi,
22:30	23:00	0.50	RIGSER	PP	Mud pump pony rod clamps leaking, tighten same.
23:00	03:15	4.25	SLDDRLG	PP	Slide Drill from 5134' to 5161', pumps 80X80 spm, 652 gpm, 2975-3100 psi, WOB 14-29K, bit 104-110 rpm. Slight losses, pumping 25 bbl, 15 ppb sweeps, every 1/2 hour PU off bottom, inc pump strokes to 85 X 85 = 3050 PSI. Drilled 27', on bottom drilling time 4.25 hrs, avg ROP 6.35'/hr Total on bottom sliding time = 4.25 hrs + 43.9 hrs = 48.15 hrs Received 400 bbls, 7.8 ppg Base Oil Fms: 5134' - 5160', 90% Dolomite, 5%, Shale, 5% Lime
03:15	03:45	0.50	U_RIG	PN	Replaced pony rod gasket on mud pump #1
03:45	04:00	0.25	SLDDRLG	PP	Slide Drill from 5161' to 5162', pumps 80X80 spm, 652 gpm, 2975-3150 psi, WOB 14-29K, bit 104 rpm. Slight losses, pump 25 bbl, 15 ppb sweep Pre-mix slug, prepare to TOOH. Drilled 4', on bottom drilling time .3 hrs, avg ROP 8'/hr Total on bottom sliding time = .3 hrs + 48.15 hrs = 48.45 hrs
04:00	05:00	1.00	U_RIG	PN	Change exhaust cap gasket, pulled swab check, OK, re-install

Total AFE + Sup (Cost)
9,064,000.00

AFE Job Cost Summary

Cost Type	AFE Amt (Cost)
DHC	7,600,000.00
CWC	1,464,000.00

Field Estimate Job Cost Summary

Cost Type	Field Est (Cost)
DHC	4,020,636.64

Daily Summary

Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
83,295.64	4,025,316.04
Daily Mud Field Est (Cost)	**Cum Mud Field Est (Cost)**
	175,256.30

POL (Personnel on Location)
26.0

Daily Contacts

Job Contact	Title
Dean Baker	Sr. Drlg. Foreman
Billy Vigil	Drilling Foreman

Personnel Log

Company	Count
PIONEER NATURAL RESOURCES	1
PIONEER NATURAL RESOURCES	1
NABORS DRILLING INC	2
NABORS DRILLING INC	13
BAKER HUGHES INTEQ	2
ZECO	2
SELMA	2
NEWPARK	1
BADLANDZER	2

Weather

Precipitation Amount (in)	Precipitation Type
Temperature - High (°F)	**Temperature - Low (°F)**

Comment

NABORS DRILLING, 169

Rig Type
Drilling - Triple

Rig Start Date	Rig Release Date
9/22/2010	

1, National Supply, 10-P-130

Pump Number
1

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6 1/2	10.00	0.097

Max Pressure (psi)

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)
Yes	300.0	40	155	95
Yes	380.0	50	194	95
Yes	500.0	60	232	95

2, National Supply, 10-P-130

Pump Number
2

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6 1/2	10.00	0.097

Max Pressure (psi)

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)
Yes	510.0	60	232	95
Yes	390.0	50	194	95
Yes	300.0	40	155	95

Job Supply Amounts

Supply Item Des	Unit Label	Received	Consumed	Cum On Loc
Diesel Fuel	gal us	6,958		6,958

Mud Additive Amounts

Des	Consumed	Cum Cons

Formations

Formation Name	Final Top MD (ftKB)
Quaternary	
Tertiary Volcanic	
Tertiary Undivided	
North Horn	
UNCONFORMITY	

Safety Summary

BOP Test Date	Last BOP Test	BOP Func Due	HSE Incident	HSE Inc Remark
03/November/2010	13/October/2010	Next Trip		

10/20/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 10/20/2010
REPORT: 55
DOL: 53.77
DFS: 27.60

Rig Name: NABORS DRILLING 169

Depth Progress: 251.00

Daily Summary

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com
05:00	05:30	0.50	TRIP	PP	Slide Drill from 5162' to 5165', pumps 80X80 spm, 652 gpm, 2975-3150 psi, WOB 14-29K, bit 104 rpm. Slight losses, pump 25 bbl, 15 ppb sweep Pre-mix slug, prepare to TOOH. Drilled 4', on bottom drilling time .4 hrs, avg ROP 8'/hr Total on bottom sliding time = .4 hrs + 48.45 hrs = 48.85 hr
05:30	06:00	0.50	TRIP	PP	Pre-mix slug to POOH

Mud Properties

Daily Cost: <Daily Mud Field Est?> Cum Cost: 175,256.30 Co

Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	T Flowline (°F)
03:15	Oil Base	5,157.0	12.30	46	110.0

PV (cp)	YP (lbf/100ft²)	Filtrate (mL/30min)	HTHP Filtrate (mL/30…	HTHP Pressure (psi)	HTHP Temperature (°F)
15.0	18.000				

Solids (%)	Sand (%)	MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)

Chlorides (ppm)	Calcium (ppm)	Oil Water Ratio	Electric Stab (V)	Lime (lb/bbl)	Low Gravity Solids (%)
		79.5/20.5	1035.0	4.1	7.3

Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Comment
12.000	10.000	

Bottom Hole Assembly

BHA Since Insp (hr)	BHA Wt BelowJar (1000lbf)	Hrs on Jars (hr)

BHA #11 , Steerable

Bit Run	Drill Bit	Bit Type	Make
1	12 1/4in, HCD505ZX, 7015752	PDC	Hughes

Nozzles (1/32")	IADC Codes	IADC Bit Dull
16/16/16/16/16/16/16	M323	-------

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)
1.37	49.55	810.00

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)
49.55	810.00	16.3	4,355.0	5,165.0

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
					5,165.28
120	Drill Pipe	5	4.276	3,792.28	5,165.28
7	HWDP	5	3.000	215.16	1,373.00
1	Jars	6 3/8	2.875	32.57	1,157.84
19	HWDP	5	3.000	583.54	1,125.27
1	X/O	6 3/8	2.813	3.57	541.73
9	6-1/2" DC's	6 1/2	2.875	276.70	538.16
1	X/O	6 1/2	2.813	2.92	261.46
6	8" DC's	8	2.875	183.85	258.54
1	Mechanical Thruster	8	3.563	26.78	74.69
1	Filter Sub	8	2.875	4.88	47.91
1	Float Sub	8 1/16	2.938	2.49	43.03
1	XO Sub	8 1/4	3.000	3.12	40.54
1	Stop Sub	9 1/2	3.500	1.46	37.42
1	9-1/2" True Trak, Adjustable Pads w/ Stab	9 1/2		35.96	35.96

Drilling Parameters

4,914.0 - 5,165.0 ftKB

Start (ftKB)	End Depth…	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note
4,914.0	5,165.0	13.5	20		150.0	635	2,800.0	

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100…	SO Str Wt (100…	Drill Str Wt (100…	Torque Units	Drilling Torque	Off Btm Tq
18.65	1.75	174	174	152			

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/…	Max Open Hole AV (ft…

Casing Strings

Prop Run?	Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
Yes	Conductor	105.0	105.0	30	ERW	118.00		
Yes	Surface	4,345.0	4,344.6	13 3/8	K-55	68.00		

Plug Back Total Depths

Date	Depth (ftKB)	Type	Method

Deviation Surveys

Tru-Trak, Proposed? No

Date	Description	Job
9/23/2010	Tru-Trak	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
10/15/2010	4,660.00	0.62		4,659.61				
10/15/2010	4,755.00	0.26		4,754.61				
10/15/2010	4,850.00	0.44		4,849.61				
10/15/2010	4,944.00	0.53		4,943.61				
10/15/2010	5,039.00	0.18		5,038.61				

Formations

Formation Name	Final Top MD (ftKB)
Arapien	
FAULT	
Arapien	
Twin Creek	
Gypsum Sprgs Mbr	
Navajo	
Chinle	
TD	

Safety Summary

10/20/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 10/21/2010
REPORT: 56
DOL: 54.77
DFS: 28.60

Rig Name: NABORS DRILLING 169

Depth Progress: 27.00

Daily Summary

Property Sub	Field Name	API/UWI	Spud Date
327560-001	WILDCAT	43-023-30021-0000	9/22/2010

KB-Ground Distance (ft)	Original KB Elevation (ft)	KB-Mud Line Distance (ft)
25.00	5,264.00	

Daily Operations

Target Depth (ftKB)	Target Depth (TVD) (ftKB)	End Depth (ftKB)	End Depth (TVD) (ftKB)
9,040.0		5,192.0	

Footage/Meterage (ft)	24 HR ROP (ft/hr)	Drilling Hours (hr)
27.00	12.0	2.25

Avg Connection Gas	Avg Trip Gas	Avg Background Gas	Max Connection Gas	Max Trip Gas	Max Drill Gas
70.00		70.00			

Operations at Report Time
Drilling 12-1/4" @ 5192'

Operations Summary
Circ hole, pump slug, Tite hole, pump out of hole from 5165'-4355', BOP drill, install trip nipple, POOH, check filter sub, change bit nozzles to (7) 22's, SIMOPS change pump liners to 6'', TIH to 4345', Fill pipe install rotating head bushing, Finishing installing 6'' Liners in #2 mud Pump, TIH to 5034', Could not establish Pump Pressure, Checked Valves on pump #1, did not find anything wrong, Washed to btm, Hole free and clear with no fill, Slide Drill from 5165' to 5192' Drilling Ahead.

2- BOP Drills

Remarks
No Incidents, No Accidents, No Spills.

NOTE: Backload via Badlanderz to Tuboscope/South Yard, Houston, TX
1) 34 jts, 13-3/8'', 68 ppf, K-55, BTZ, New, 1587.23' (threads off)
2) 1 cut jt, 13-3/8'', 68 ppf, K-55, BTZ, 32' (cut)

Operations Next Report Period
Drill 12-1/4" hole

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com
06:00	07:00	1.00	CIRC	PP	Circ while pre-mixing slug
07:00	07:30	0.50	U_TH	PN	Tite hole from 5165'-5158', pulling up to 250K, slacking off to 145K (string wt 175K), got stuck, engage TDS,
07:30	07:45	0.25	U_TH	PN	Work string, pumps 70X70 spm, 570 gpm, 1190 psi, pulled up to 250K, slacked off to 145K (string wt 175K), w/ 3-4 rounds torque. String came free. Circ.
07:45	08:00	0.25	U_TH	PN	Back wash from 5165'-5073', 2 pumps 70X70 spm, 570 gpm, rotate string 20 rpm, had 30-50K overpulls
08:00	10:00	2.00	TRIP	PP	Back wash from 5073'-4210' (inside casing), 1 pump 85 spm, 346 gpm, 880 psi, not rotating string, , no overpulls
10:00	11:00	1.00	TRIP	PP	Pump slug, pull rotating head bushing assm, install trip nipple, BOP drill, 2 minutes reaction time
11:00	13:30	2.50	TRIP	PP	TOOH from 4210' to 540'. Simops: changing liners in mud pumps from 6-1/2'' to 6''
13:30	15:45	2.25	TRIP	PP	POOH from 540' (DC'S) to filter sub Simops: changing liners in mud pumps from 6-1/2'' to 6''
15:45	17:00	1.25	BHA	PP	Break out filter sub, no trash, M/U, pull up to bit. Remove (7) 16's nozzles, Install (7) 22's nozzles (22 is the largest size nozzle) Simops: changing liners in mud pumps from 6-1/2'' to 6''
17:00	17:30	0.50	U_OTR	PN	Pump OBM out of cellar, appxox 20 bbls Simops: changing liners in mud pumps from 6-1/2'' to 6''
17:30	19:15	1.75	TRIP	PP	TIH w/ DC's to 540'
19:15	22:45	3.50	TRIP	PP	TIH from 540' to 4345', fill pipe at 3228'
22:45	23:45	1.00	TRIP	PP	Install rotating head and finish installing 6'' Liners in Pump #2
23:45	00:15	0.50	TRIP	PP	TIH from 4345' to 5034', Hole free and clear
00:15	02:30	2.25	U_RIG	PN	Brought pumps on line @ 85X85 SPM, Only showing 800psi SPP, Cycled pumps serveral times possibly air locked, Shut in Pump #1 and Circulated hole with pump #2 only - 100spm 1100psi, Tore down Pump #1 to inspect valves everything OK, Reinstalled valves and put both pumps online 90X90, 2750psi
02:30	03:00	0.50	WA	PP	Wash from 5034' to 5165', Pumps 90X90 SPM, 628 gpm, 2700psi, Sync Tru-Trak, Hole free and clear, No Fill
03:00	06:00	3.00	SLDDRLG	PP	Slide Drill from 5165' to 5192', pumps 90X90 spm, 628 gpm, 2975-3150 psi, WOB 23-27K, bit 101 rpm. Drilled 27', on bottom drilling time 2.25 hrs, avg ROP 12'/hr Total on bottom sliding time = 2.25 hrs BOP drill, 1.5 minutes reaction time

Mud Properties

Daily Cost: 6,151.25 Cost Cum Cost: 187,576.83 Cost

Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	T Flowline (°F)
03:15	Oil Base	5,167.0	12.60	54	148.0

PV (cp)	YP (lbf/100ft²)	Filtrate (mL/30min)	HTHP Filtrate (mL/30...	HTHP Pressure (psi)	HTHP Temperature (°F)
18.0	14.000		6.5		250.0

Solids (%)	Sand (%)	MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)
22.0					

Chlorides (ppm)	Calcium (ppm)	Oil Water Ratio	Electric Stab (V)	Lime (lb/bbl)	Low Gravity Solids (%)
		80.8/19.2	692.0	3.4	4.9

Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Comment
12.000	17.000	

Bottom Hole Assembly

BHA Since Insp (hr)	BHA Wt BelowJar (1000lbf)	Hrs on Jars (hr)

Total AFE + Sup (Cost)
9,064,000.00

AFE Job Cost Summary

Cost Type	AFE Amt (Cost)
DHC	7,600,000.00
CWC	1,464,000.00

Field Estimate Job Cost Summary

Cost Type	Field Est (Cost)
DHC	4,122,655.39

Daily Summary

Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
102,018.75	4,127,334.79
Daily Mud Field Est (Cost)	**Cum Mud Field Est (Cost)**
6,151.25	187,576.83

POL (Personnel on Location)
26.0

Daily Contacts

Job Contact	Title
Dean Baker	Sr. Drlg. Foreman
Derrick Berry	Drlg. Foreman

Personnel Log

Company	Count
PIONEER NATURAL RESOURCES	1
PIONEER NATURAL RESOURCES	1
NABORS DRILLING INC	2
NABORS DRILLING INC	13
BAKER HUGHES INTEQ	2
ZECO	2
SELMA	2
NEWPARK	1
BADLANDZER	2

Weather

Precipitation Amount (in)	Precipitation Type
Temperature - High (°F)	**Temperature - Low (°F)**

Comment

NABORS DRILLING, 169

Rig Type
Drilling - Triple

Rig Start Date	Rig Release Date
9/22/2010	

1, National Supply, 10-P-130

Pump Number
1

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

2, National Supply, 10-P-130

Pump Number
2

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

Job Supply Amounts

Supply Item Des	Unit Label	Received	Consumed	Cum On Loc
Diesel Fuel	gal us	6,958		6,958

Mud Additive Amounts

Des	Consumed	Cum Cons
Bentone 38	6	22
Bentone 38	4	26
Bentone 910		0
BULK TANK	2	78
BULK TANK BLOWERS	2	54
Lime	15	90
MUD ENGINEER	1	39
MUD LAB	1	32
New Bar (Ton/bulk)	5	17
Tax	75	8,116
Trucking	4,510	32,856

Safety Summary

BOP Test Date	Last BOP Test	BOP Func Due	HSE Incident	HSE Inc Remark
03/November/2010	13/October/2010	Next Trip		

10/21/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 10/21/2010
REPORT: 56
DOL: 54.77
DFS: 28.60

Rig Name: NABORS DRILLING 169

Depth Progress: 27.00

Daily Summary

BHA #11 , Steerable

Bit Run	Drill Bit	Bit Type	Make
1	12 1/4in, HCD505ZX, 7015752	PDC	Hughes

Nozzles (1/32")	IADC Codes	IADC Bit Dull
22/22/22/22/22/22/22	M323	1-1-WT-A-X-I-N-PP

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)
2.60	51.80	837.00

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)
49.55	810.00	16.3	4,355.0	5,165.0

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
					5,165.28
120	Drill Pipe	5	4.276	3,792.28	5,165.28
7	HWDP	5	3.000	215.16	1,373.00
1	Jars	6 3/8	2.875	32.57	1,157.84
19	HWDP	5	3.000	583.54	1,125.27
1	X/O	6 3/8	2.813	3.57	541.73
9	6-1/2" DC's	6 1/2	2.875	276.70	538.16
1	X/O	6 1/2	2.813	2.92	261.46
6	8" DC's	8	2.875	183.85	258.54
1	Mechanical Thruster	8	3.563	26.78	74.69
1	Filter Sub	8	2.875	4.88	47.91
1	Float Sub	8 1/16	2.938	2.49	43.03
1	XO Sub	8 1/4	3.000	3.12	40.54
1	Stop Sub	9 1/2	3.500	1.46	37.42
1	9-1/2" True Trak, Adjustable Pads w/ Stab	9 1/2		35.96	35.96

Drilling Parameters

5,165.0 - 5,165.0 ftKB

Start (ftKB)	End Depth...	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note
5,165.0	5,165.0				150.0		2,800.0	

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100...	SO Str Wt (100...	Drill Str Wt (100...	Torque Units	Drilling Torque	Off Btm Tq
		174	174	152			

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/...	Max Open Hole AV (ft...

BHA #12 , Steerable

Bit Run	Drill Bit	Bit Type	Make
2	12 1/4in, HCD505ZX, 7015752	PDC	Hughes

Nozzles (1/32")	IADC Codes	IADC Bit Dull
22/22/22/22/22/22/22	M323	-------

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)
2.60	51.80	837.00

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)
2.25	27.00	12.0	5,165.0	5,192.0

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
					5,165.28
120	Drill Pipe	5	4.276	3,792.28	5,165.28
7	HWDP	5	3.000	215.16	1,373.00
1	Jars	6 3/8	2.875	32.57	1,157.84
19	HWDP	5	3.000	583.54	1,125.27
1	X/O	6 3/8	2.813	3.57	541.73
9	6-1/2" DC's	6 1/2	2.875	276.70	538.16
1	X/O	6 1/2	2.813	2.92	261.46
6	8" DC's	8	2.875	183.85	258.54
1	Mechanical Thruster	8	3.563	26.78	74.69
1	Filter Sub	8	2.875	4.88	47.91
1	Float Sub	8 1/16	2.938	2.49	43.03
1	XO Sub	8 1/4	3.000	3.12	40.54
1	Stop Sub	9 1/2	3.500	1.46	37.42
1	9-1/2" True Trak, Adjustable Pads w/ Stab	9 1/2		35.96	35.96

Drilling Parameters

5,165.0 - 5,192.0 ftKB

Start (ftKB)	End Depth...	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note
5,165.0	5,192.0	12.0	26			642	3,150.0	

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100...	SO Str Wt (100...	Drill Str Wt (100...	Torque Units	Drilling Torque	Off Btm Tq
2.25	0.50	174	174	149			

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/...	Max Open Hole AV (ft...

Casing Strings

Prop Run?	Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
Yes	Conductor	105.0	105.0	30	ERW	118.00		
Yes	Surface	4,345.0	4,344.6	13 3/8	K-55	68.00		

Plug Back Total Depths

Date	Depth (ftKB)	Type	Method

Deviation Surveys

Tru-Trak, Proposed? No

Date	Description	Job
9/23/2010	Tru-Trak	EXD, 9/22/2010 09:00

Formations

Formation Name	Final Top MD (ftKB)
Quaternary	
Tertiary Volcanic	
Tertiary Undivided	
North Horn	
UNCONFORMITY	
Arapien	
FAULT	
Arapien	
Twin Creek	
Gypsum Sprgs Mbr	
Navajo	
Chinle	
TD	

Safety Summary

10/21/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 10/21/2010
REPORT: 56
DOL: 54.77
DFS: 28.60

Rig Name: NABORS DRILLING 169

Depth Progress: 27.00

Daily Summary

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
10/15/2010	4,755.00	0.26		4,754.61				
10/15/2010	4,850.00	0.44		4,849.61				
10/15/2010	4,944.00	0.53		4,943.61				
10/15/2010	5,039.00	0.18		5,038.61				
10/15/2010	5,133.00	0.35		5,132.61				

Safety Summary

10/21/2010

PIONEER NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 10/22/2010
REPORT: 57
DOL: 55.77
DFS: 29.60

Rig Name: NABORS DRILLING 169

Depth Progress: 228.00

Daily Summary

Property Sub	Field Name	API/UWI	Spud Date
327560-001	WILDCAT	43-023-30021-0000	9/22/2010

KB-Ground Distance (ft)	Original KB Elevation (ft)	KB-Mud Line Distance (ft)
25.00	5,264.00	

Daily Operations

Target Depth (ftKB)	Target Depth (TVD) (ftKB)	End Depth (ftKB)	End Depth (TVD) (ftKB)
9,040.0		5,420.0	

Footage/Meterage (ft)	24 HR ROP (ft/hr)	Drilling Hours (hr)
228.00	17.9	12.75

Avg Connection Gas	Avg Trip Gas	Avg Background Gas	Max Connection Gas	Max Trip Gas	Max Drill Gas

Operations at Report Time
Mixing Slug Prep to POOH to Shoe

Operations Summary
Drill to 5195', blew pop off valve, #2 mud pump, drill from 5195'-5420', Multiple pump problems due to leaking cap and disharge module gaskets.

Remarks
No Incidents, No Accidents, No Spills.

Operations Next Report Period
POOH to Shoe, Repair Pump, TIH resume drilling 12 1/4" Hole

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com
06:00	06:30	0.50	RIGSER	PP	Rig Service, Replace #1 intake cap gasket, #1 mud pump
06:30	07:15	0.75	SLDDRLG	PP	Slide Drill from 5192' to 5195', pumps 90X90 spm, 628 gpm, 3150-3300 psi, WOB 23-27K, bit 101 rpm. Drilled 3', on bottom drilling time .75hrs, avg ROP 4'/hr Total on bottom sliding time = .75 hrs + 51.1 = 51.85 hrs
07:15	07:45	0.50	U_RIG	PN	Rig Service, blew pop off valve #2 mud pump, replace nails
07:45	10:00	2.25	SLDDRLG	PP	Slide Drill from 5195' to 5256', pumps 90X90 spm, 628 gpm, 3150-3300 psi, WOB 21-28K, bit 101 rpm. Drilled 61', on bottom drilling time 3.0 hrs, avg ROP = 20.3'/hr Total on bottom sliding time = 3.0 hrs + 51.85 hrs = 54.85 hrs 5160'-5200', 90-100% Sh
10:00	11:15	1.25	U_RIG	PN	Replace middle bay swab, #1 mud pump, 7 hrs run time, piece of swab broke off
11:15	11:30	0.25	SLDDRLG	PP	Slide Drill from 5256' to 5259', pumps 90X90 spm, 628 gpm, 3150-3300 psi, WOB 21-28K, bit 101 rpm. Drilled 3', on bottom drilling time .1hrs, avg ROP 30'/hr Total on bottom sliding time = .1 hrs + 54.85 hrs = 54.95 hrs
11:30	12:00	0.50	U_OTR	PN	Problems with DP slips bitting, when making connection
12:00	12:15	0.25	SLDDRLG	PP	Slide Drill from 5259' to 5261', pumps 90X90 spm, 628 gpm, 3150-3300 psi, WOB 21-28K, bit 101 rpm. Drilled 4', on bottom drilling time .1hrs, avg ROP 40'/hr Total on bottom sliding time = .1 hrs + 54.95 hrs = 55.05 hrs
12:15	12:45	0.50	U_RIG	PN	Replace #2 suction cap gasket, #2 mud pump
12:45	13:00	0.25	SLDDRLG	PP	Slide Drill from 5261' to 5268', pumps 90X90 spm, 628 gpm, 3150-3300 psi, WOB 21-28K, bit 101 rpm. Drilled 7', on bottom drilling time .1hrs, avg ROP 70'/hr Total on bottom sliding time = .1 hrs + 55.05 hrs = 55.15 hrs Fms: 5200' - 5260', 50-5% Sh, 30-40% Dolomite, 5-15%, Limestone
13:00	13:45	0.75	U_RIG	PN	Replace middle discharge cap gasket, #1 mud pump
13:45	15:30	1.75	SLDDRLG	PP	Slide Drill from 5268' to 5309', pumps 90X90 spm, 628 gpm, 3150-3100 psi, WOB 21-28K, bit 101 rpm. Drilled 41', on bottom drilling time 2 hrs, avg ROP 20.5'/hr Total on bottom sliding time = 2 hrs + 55.15 hrs = 57.15 hrs
15:30	16:15	0.75	U_RIG	PN	Replace left discharge cap gasket, #1 mud pump
16:15	20:15	4.00	SLDDRLG	PP	Slide Drill from 5309' to 5355', pumps 90X90 spm, 628 gpm, 3150-3100 psi, WOB 21-28K, bit 101 rpm. Drilled 46', on bottom drilling time 4 hrs, avg ROP 11.5'/hr Total on bottom sliding time = 4 hrs + 57.15 hrs = 61.15 hrs Fms: 5309' - 5420', 30% Sh, 65% Dolomite, 5%, Limestone
20:15	21:30	1.25	U_RIG	PN	Hammer Union on Stand Pipe leaking, Had to replace Gasket.
21:30	23:00	1.50	SLDDRLG	PP	Slide Drill from 5355' to 5384', pumps 90X90 spm, 628 gpm, 3150 psi, WOB 21-28K, bit 101 rpm. Drilled 29', on bottom drilling time 1.95 hrs, avg ROP 14.8 '/hr Total on bottom sliding time = 1.95 hrs + 61.15 hrs = 63.1 hrs Fms: 5309' - 5420', 30% Sh, 65% Dolomite, 5%, Limestone
23:00	23:30	0.50	U_RIG	PN	Blew Pop Off had to change Pins on pump # 2
23:30	01:15	1.75	SLDDRLG	PP	Slide Drill from 5384' to 5420', pumps 90X90 spm, 628 gpm, 3150 psi, WOB 21-28K, bit 101 rpm. Drilled 36', on bottom drilling time 1.9 hrs, avg ROP 18.9 '/hr Total on bottom sliding time = 1.9 hrs + 63.1 hrs = 65 hrs Fms: 5309' - 5420', 30% Sh, 65% Dolomite, 5%, Limestone
01:15	04:30	3.25	U_RIG	PN	Replace Module Gasket connecting 1 and 2 discharge modules on pump #1, Circulating Hole with pump #2 95spm, 332gpm
04:30	05:30	1.00	U_RIG	PN	Brought both pumps on line, Pump #1 still leaking between 1 and 2 discharge modules. Decision was made to POOH to shoe.
05:30	06:00	0.50	U_RIG	PN	Mix and build slug

Total AFE + Sup (Cost)
9,064,000.00

AFE Job Cost Summary

Cost Type	AFE Amt (Cost)
DHC	7,600,000.00
CWC	1,464,000.00

Field Estimate Job Cost Summary

Cost Type	Field Est (Cost)
DHC	4,234,160.14

Daily Summary

Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
111,504.75	4,238,839.54
Daily Mud Field Est (Cost)	**Cum Mud Field Est (Cost)**
12,439.21	201,897.30

POL (Personnel on Location)
26.0

Daily Contacts

Job Contact	Title
Dean Baker	Sr. Drlg. Foreman
Derrick Berry	Drlg. Foreman

Personnel Log

Company	Count
PIONEER NATURAL RESOURCES	1
PIONEER NATURAL RESOURCES	1
NABORS DRILLING INC	2
NABORS DRILLING INC	13
BAKER HUGHES INTEQ	2
ZECO	2
SELMA	2
NEWPARK	1
BADLANDZER	2

Weather

Precipitation Amount (in)	Precipitation Type
Temperature - High (°F)	**Temperature - Low (°F)**

Comment

NABORS DRILLING, 169

Rig Type
Drilling - Triple

Rig Start Date	Rig Release Date
9/22/2010	

1, National Supply, 10-P-130

Pump Number
1

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

2, National Supply, 10-P-130

Pump Number
2

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

Job Supply Amounts

Supply Item Des	Unit Label	Received	Consumed	Cum On Loc
Diesel Fuel	gal us	6,958		6,958

Mud Additive Amounts

Des	Consumed	Cum Cons
Bentone 38	14	40
Bentone 910	1	1
BULK TANK	2	80
BULK TANK BLOWERS	2	56
Gilsonite HT	14	38
Mica F	12	300
MUD ENGINEER	1	40
New Bar (Ton/bulk)	42	59
Oil Dry	6	6
Opti-Mul	3	7
Opti-Wet	1	1
Sawdust	5	5

Safety Summary

BOP Test Date	Last BOP Test	BOP Func Due	HSE Incident	HSE Inc Remark

10/22/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 10/22/2010
REPORT: 57
DOL: 55.77
DFS: 29.60

Rig Name: NABORS DRILLING 169

Depth Progress: 228.00

Daily Summary

Mud Properties

Daily Cost: 12,439.21 Cost Cum Cost: 201,897.30 Cost

Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	T Flowline (°F)
03:15	Oil Base	5,420.0	12.70	47	139.0

PV (cp)	YP (lbf/100ft²)	Filtrate (mL/30min)	HTHP Filtrate (mL/30…	HTHP Pressure (psi)	HTHP Temperature (°F)
17.0	14.000		5.0		250.0

Solids (%)	Sand (%)	MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)
22.0					

Chlorides (ppm)	Calcium (ppm)	Oil Water Ratio	Electric Stab (V)	Lime (lb/bbl)	Low Gravity Solids (%)
		80.8/19.2	997.0	4.0	4.1

Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Comment
11.000	10.000	

Bottom Hole Assembly

BHA Since Insp (hr)	BHA Wt BelowJar (1000lbf)	Hrs on Jars (hr)

BHA #12 , Steerable

Bit Run	Drill Bit	Bit Type	Make
2	12 1/4in, HCD505ZX, 7015752	PDC	Hughes

Nozzles (1/32")	IADC Codes	IADC Bit Dull
22/22/22/22/22/22/22	M323	-------

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)
2.60	64.55	1,065.00

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)
15.00	255.00	17.0	5,165.0	5,420.0

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
					5,451.15
129	Drill Pipe	5	4.276	4,078.15	5,451.15
7	HWDP	5	3.000	215.16	1,373.00
1	Jars	6 3/8	2.875	32.57	1,157.84
19	HWDP	5	3.000	583.54	1,125.27
1	X/O	6 3/8	2.813	3.57	541.73
9	6-1/2" DC's	6 1/2	2.875	276.70	538.16
1	X/O	6 1/2	2.813	2.92	261.46
6	8" DC's	8	2.875	183.85	258.54
1	Mechanical Thruster	8	3.563	26.78	74.69
1	Filter Sub	8	2.875	4.88	47.91
1	Float Sub	8 1/16	2.938	2.49	43.03
1	XO Sub	8 1/4	3.000	3.12	40.54
1	Stop Sub	9 1/2	3.500	1.46	37.42
1	9-1/2" True Trak, Adjustable Pads w/ Stab	9 1/2		35.96	35.96

Drilling Parameters

5,192.0 - 5,420.0 ftKB

Start (ftKB)	End Depth…	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note
5,192.0	5,420.0	17.9	26			642	3,200.0	

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100…	SO Str Wt (100…	Drill Str Wt (100…	Torque Units	Drilling Torque	Off Btm Tq
12.75	10.50	175	175	149			

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/…	Max Open Hole AV (ft…

Casing Strings

Prop Run?	Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
Yes	Conductor	105.0	105.0	30	ERW	118.00		
Yes	Surface	4,345.0	4,344.6	13 3/8	K-55	68.00		

Plug Back Total Depths

Date	Depth (ftKB)	Type	Method

Deviation Surveys

Tru-Trak, Proposed? No

Date	Description	Job
9/23/2010	Tru-Trak	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
10/15/2010	4,755.00	0.26		4,754.61				
10/15/2010	4,850.00	0.44		4,849.61				
10/15/2010	4,944.00	0.53		4,943.61				
10/15/2010	5,039.00	0.18		5,038.61				
10/15/2010	5,133.00	0.35		5,132.61				

Mud Additive Amounts

Des	Consumed	Cum Cons
Tax	596	8,712
Trucking	1,407	34,264

Formations

Formation Name	Final Top MD (ftKB)
Quaternary	
Tertiary Volcanic	
Tertiary Undivided	
North Horn	
UNCONFORMITY	
Arapien	
FAULT	
Arapien	
Twin Creek	
Gypsum Sprgs Mbr	
Navajo	
Chinle	
TD	

Safety Summary

10/22/2010

PIONEER NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 10/23/2010
REPORT: 58
DOL: 56.77
DFS: 30.60

Rig Name: NABORS DRILLING 169

Depth Progress: 31.00

Daily Summary

Property Sub	Field Name	API/UWI	Spud Date
327560-001	WILDCAT	43-023-30021-0000	9/22/2010

KB-Ground Distance (ft)	Original KB Elevation (ft)	KB-Mud Line Distance (ft)
25.00	5,264.00	

Daily Operations

Target Depth (ftKB)	Target Depth (TVD) (ftKB)	End Depth (ftKB)	End Depth (TVD) (ftKB)
9,040.0		5,451.0	

Footage/Meterage (ft)	24 HR ROP (ft/hr)	Drilling Hours (hr)
31.00	20.7	1.50

Avg Connection Gas	Avg Trip Gas	Avg Background Gas	Max Connection Gas	Max Trip Gas	Max Drill Gas
	35.00	35.00			

Operations at Report Time
Drilling at 5451'

Operations Summary
POOH to 4301', change out intake and discharge pump modules, Test #1 Pump, Liner Gasket leaking, repair same, Test Pumps 100X100 spm, 3100 psi, Test Ok, RIH to 5342', Wash to Btm @ 5420', Pump #1 Knocking had to tighten middle swab on same and tighten belts, Slide drill from 5420' to 5441', Rig Brown Out, Slide drill from 5441' to 5451'

Remarks
No Incidents, No Accidents, No Spills.

Operations Next Report Period
Drill 12-1/4" hole

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com
06:00	06:45	0.75	U_RIG	PN	POOH from 5420' to 5255', no tite hole problems
06:45	07:00	0.25	U_RIG	PN	Pump slug
07:00	08:15	1.25	U_RIG	PN	POOH from 5255' to 4301', no tite hole problems
08:15	23:00	14.75	U_RIG	PN	Remove center discharge module, on mud pump #1, could not visually see any thing wrong. Replace with new module. Inspect center suction module, on mud pump #1. Module was cracked. Wait for another suction module to be hot shot from Grand Junction, Colo (departed 13:00 hrs, arrived 19:45 hrs). Replace with new module. Install suction module. Circ hole 43 spm, 250 psi, 150 gpm at 4301'
23:00	23:15	0.25	U_RIG	PN	RIH to 4409', to clear Csg shoe, Test Pump #1 100spm, 900psi, middle bay Liner Gasket leaking.
23:15	00:30	1.25	U_RIG	PN	Pull back into Csg, Replace Liner Gasket on Pump #1
00:30	00:45	0.25	U_RIG	PN	RIH to 4409', run #1 pump, 70 spm 520 psi, 80 spm 650 psi, 90 spm 770 psi, 100 spm 900 psi, ramp up 2nd mud pump, 2 pumps 90X90 spm 2650 psi, 100X100 spm 3100 psi. Test Good
00:45	01:30	0.75	U_RIG	PN	RIH from 4409' to 5342' Hole free and clear
01:30	01:45	0.25	U_RIG	PN	Wash from 5342' to 5420', pumps 90X90 spm, 628 gpm, 2800 psi, Hole free and clear, No fill
01:45	02:45	1.00	U_RIG	PN	Tighten middle Swab on Pump #1 (Knocking), and Tighten belts.
02:45	04:00	1.25	SLDDRLG	PP	Slide Drill from 5420' to 5441', pumps 90X90 spm, 628 gpm, 3000-3150 psi, WOB 21-28K, bit 101 rpm. Drilled 21', on bottom drilling time 1.1hrs, avg ROP 19'/hr Total on bottom sliding time = 1.1 hrs + 65 hrs = 66.1 hrs
04:00	05:00	1.00	U_RIG	PN	Rig Brown Out, Possible Fuel Problem on 399 Cat's
05:00	06:00	1.00	SLDDRLG	PP	Slide Drill from 5441' to 5451', pumps 90X90 spm, 628 gpm, 3000-3150 psi, WOB 21-28K, bit 101 rpm. Drilled 10', on bottom drilling time .4 hrs, avg ROP 25'/hr Total on bottom sliding time = .4 hrs + 66.1 hrs = 66.5 hrs
06:00	06:00				

Mud Properties

Daily Cost: 7,425.52 Cost Cum Cost: 209,322.82 Cost

Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	T Flowline (°F)
03:15	Oil Base	5,433.0	12.80	50	130.0

PV (cp)	YP (lbf/100ft²)	Filtrate (mL/30min)	HTHP Filtrate (mL/30...	HTHP Pressure (psi)	HTHP Temperature (°F)
17.0	14.000		5.0		250.0

Solids (%)	Sand (%)	MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)
22.0					

Chlorides (ppm)	Calcium (ppm)	Oil Water Ratio	Electric Stab (V)	Lime (lb/bbl)	Low Gravity Solids (%)
		79.5/20.5	761.0	3.2	3.6

Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Comment
10.000	10.000	

Bottom Hole Assembly

BHA Since Insp (hr)	BHA Wt BelowJar (1000lbf)	Hrs on Jars (hr)

BHA #12 , Steerable

Bit Run	Drill Bit	Bit Type	Make
2	12 1/4in, HCD505ZX, 7015752	PDC	Hughes

Nozzles (1/32")	IADC Codes	IADC Bit Dull
22/22/22/22/22/22/22	M323	-------

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)
2.60	66.05	1,096.00

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)
16.50	286.00	17.3	5,165.0	5,451.0

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
					5,451.15
129	Drill Pipe	5	4.276	4,078.15	5,451.15
7	HWDP	5	3.000	215.16	1,373.00
1	Jars	6 3/8	2.875	32.57	1,157.84
19	HWDP	5	3.000	583.54	1,125.27
1	X/O	6 3/8	2.813	3.57	541.73
9	6-1/2" DC's	6 1/2	2.875	276.70	538.16

Total AFE + Sup (Cost)
9,064,000.00

AFE Job Cost Summary

Cost Type	AFE Amt (Cost)
DHC	7,600,000.00
CWC	1,464,000.00

Field Estimate Job Cost Summary

Cost Type	Field Est (Cost)
DHC	4,319,202.12

Daily Summary

Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
78,941.52	4,323,881.52
Daily Mud Field Est (Cost)	**Cum Mud Field Est (Cost)**
7,425.52	209,322.82

POL (Personnel on Location)
26.0

Daily Contacts

Job Contact	Title
Dean Baker	Sr. Drlg. Foreman
Derrick Berry	Drlg. Foreman

Personnel Log

Company	Count
PIONEER NATURAL RESOURCES	1
PIONEER NATURAL RESOURCES	1
NABORS DRILLING INC	2
NABORS DRILLING INC	13
BAKER HUGHES INTEQ	2
ZECO	2
SELMA	2
NEWPARK	1
BADLANDZER	2

Weather

Precipitation Amount (in)	Precipitation Type
Temperature - High (°F)	**Temperature - Low (°F)**

Comment

NABORS DRILLING, 169

Rig Type
Drilling - Triple

Rig Start Date	Rig Release Date
9/22/2010	

1, National Supply, 10-P-130

Pump Number
1

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

2, National Supply, 10-P-130

Pump Number
2

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

Job Supply Amounts

Supply Item Des	Unit Label	Received	Consumed	Cum On Loc
Diesel Fuel	gal us	6,958		6,958

Mud Additive Amounts

Des	Consumed	Cum Cons
BULK TANK	2	82
BULK TANK BLOWERS	2	58
MUD ENGINEER	1	41
MUD LAB	1	33
New Bar (Ton/bulk)	24	83
Oil Dry	2	8
Opti-Mul	1	8
Tax	227	8,939
Trucking	2,914	37,178

Formations

Formation Name	Final Top MD (ftKB)
Quaternary	

Safety Summary

BOP Test Date	Last BOP Test	BOP Func Due	HSE Incident	HSE Inc Remark
03/November/2010	13/October/2010	Next trip out of hole		

10/23/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 10/23/2010
REPORT: 58
DOL: 56.77
DFS: 30.60

Rig Name: NABORS DRILLING 169

Depth Progress: 31.00

Daily Summary

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
1	X/O	6 1/2	2.813	2.92	261.46
6	8" DC's	8	2.875	183.85	258.54
1	Mechanical Thruster	8	3.563	26.78	74.69
1	Filter Sub	8	2.875	4.88	47.91
1	Float Sub	8 1/16	2.938	2.49	43.03
1	XO Sub	8 1/4	3.000	3.12	40.54
1	Stop Sub	9 1/2	3.500	1.46	37.42
1	9-1/2" True Trak, Adjustable Pads w/ Stab	9 1/2		35.96	35.96

Drilling Parameters

5,420.0 - 5,451.0 ftKB

Start (ftKB)	End Depth...	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note
5,420.0	5,451.0	20.7	26			628	3,150.0	

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100...	SO Str Wt (100...	Drill Str Wt (100...	Torque Units	Drilling Torque	Off Btm Tq
1.50	21.75	180	180	154			

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/...	Max Open Hole AV (ft...

Casing Strings

Prop Run?	Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
Yes	Conductor	105.0	105.0	30	ERW	118.00		
Yes	Surface	4,345.0	4,344.6	13 3/8	K-55	68.00		

Plug Back Total Depths

Date	Depth (ftKB)	Type	Method

Deviation Surveys

Tru-Trak, Proposed? No

Date	Description	Job
9/23/2010	Tru-Trak	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
10/15/2010	4,944.00	0.53		4,943.61				
10/15/2010	5,039.00	0.18		5,038.61				
10/15/2010	5,133.00	0.35		5,132.61				
10/15/2010	5,228.00	0.18		5,227.61				
10/15/2010	5,324.00	0.18		5,323.61				

Formations

Formation Name	Final Top MD (ftKB)
Tertiary Volcanic	
Tertiary Undivided	
North Horn	
UNCONFORMITY	
Arapien	
FAULT	
Arapien	
Twin Creek	
Gypsum Sprgs Mbr	
Navajo	
Chinle	
TD	

Safety Summary

10/23/2010

PIONEER NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 10/24/2010
REPORT: 59
DOL: 57.77
DFS: 31.60

Rig Name: NABORS DRILLING 169

Depth Progress: 187.00

Daily Summary

Property Sub	Field Name	API/UWI	Spud Date
327560-001	WILDCAT	43-023-30021-0000	9/22/2010

KB-Ground Distance (ft)	Original KB Elevation (ft)	KB-Mud Line Distance (ft)
25.00	5,264.00	

Daily Operations

Target Depth (ftKB)	Target Depth (TVD) (ftKB)	End Depth (ftKB)	End Depth (TVD) (ftKB)
9,040.0		5,638.0	

Footage/Meterage (ft)	24 HR ROP (ft/hr)	Drilling Hours (hr)
187.00	16.8	11.10

Avg Connection Gas	Avg Trip Gas	Avg Background Gas	Max Connection Gas	Max Trip Gas	Max Drill Gas
	35.00	35.00			

Operations at Report Time
S/D Waiting on Base Oil

Operations Summary
Drill from 5451' to 5638', Major losses 5638', POOH in to Surf. Csg, Pumped 93 bbls of 11ppg mud down backside,could not fill hole, S/D Wait on Oil base.

Remarks
No Incidents, No Accidents, No Spills.

Operations Next Report Period
Drill 12-1/4" hole

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com
06:00	15:00	9.00	SLDDRLG	PP	Slide Drill from 5451' to 5597'', pumps 90X90 spm, 628 gpm, 2950-3190 psi, WOB 21-30K, bit 101 rpm. Drilled 146', on bottom drilling time 8.0 hrs, avg ROP 18.3'/hr Total on bottom sliding time = 8.0 hrs + 66.5 hrs = 74.5 hrs Losses of approx 50 bbls Fms: 5440'-5580: 55-85% Dolomite, 45-15% Shale, Trace Lime
15:00	15:15	0.25	U_LC	PN	Lost approx 30 bbls in 10 min, reduce to 1 pump, 50 spm, 174 gpm, 200 psi, work pipe, pumped 30 bbl, 15 ppb LCM pill, got stuck. MWT 12.8 ppg
15:15	15:45	0.50	U_SP	PN	Stuck @ 5588', P/U to 210K (string wt 182K), slack-off to 145K, trap 3 rounds torque, work string, increase pump from 40 spm to 90 spm, 311 gpm, work string up to 250K, slack-off to 132K, came free. Rotate & work string, well took approx 45 bbls OBM, MWT 12.8 ppg
15:45	17:15	1.50	U_LC	PN	Circ, reduce pump to 40 spm, 140 gpm, 230 psi, rotate string 25 rpm, lost approx 20 bbls, pump 50 bbl, 15 ppb LCM sweep, circ for 2 min w/ full returns. Increase pump stks to 100 spm, 349 gpm, 960 psi, for 10 min. No losses. MWT 12.8 ppg
17:15	20:30	3.25	SLDDRLG	PP	Slide Drill from 5597 to 5638'', pumps 90X90 spm, 628 gpm, 2950-3190 psi, WOB 21-30K, bit 101 rpm, mwt 12.8 ppg. Drilled 41', on bottom drilling time 3.1 hrs, avg ROP 13.2'/hr Total on bottom sliding time = 3.1 hrs + 74.5 hrs = 77.6 hrs Losses of approx. 15bbls Fms: 5580'-5600: 100% Oolitic Limestone 5600'-5620': 80+/-% Oolitic Limestone, 20+/-% Sh
20:30	21:15	0.75	U_LC	PN	POOH from 5638'-4301', No overpulls, no tite spots, hole in excellent shape. Made connection @ 5638', take Slow Pump Rates (30,40,50), each pump, ramp pumps to 100X100 spm to syn Tru-Trak, Lost complete returns. Cannot keep hole full. Lost 315 bbls.
21:15	02:15	5.00	U_LC	PN	Moved 232 bbls, 7.8 ppg Base oil to mud tanks. Weight up to 11 ppg, vis 45.
02:15	03:30	1.25	U_LC	PN	Pumped 93.6 bbls (746') down annulus at 30 bpm. Ran out of OBM. S/D
03:30	06:00	2.50	U_LC	PN	Wait on 7.8 ppg base oil. Received 500 bbls, 15.4 ppg OBM

Mud Properties

Daily Cost: 4,465.57 Cost Cum Cost: 213,788.39 Cost

Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	T Flowline (°F)
17:00	Oil Base	5,638.0	12.80	47	128.4

PV (cp)	YP (lbf/100ft²)	Filtrate (mL/30min)	HTHP Filtrate (mL/30...	HTHP Pressure (psi)	HTHP Temperature (°F)
14.0	17.000		5.0		250.0

Solids (%)	Sand (%)	MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)
21.0					

Chlorides (ppm)	Calcium (ppm)	Oil Water Ratio	Electric Stab (V)	Lime (lb/bbl)	Low Gravity Solids (%)
		79.7/20.3	999.0	4.4	1.5

Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Comment
14.000	16.000	

Bottom Hole Assembly

BHA Since Insp (hr)	BHA Wt BelowJar (1000lbf)	Hrs on Jars (hr)

BHA #12 , Steerable

Bit Run	Drill Bit	Bit Type	Make
2	12 1/4in, HCD505ZX, 7015752	PDC	Hughes

Nozzles (1/32")	IADC Codes	IADC Bit Dull
22/22/22/22/22/22/22	M323	-------

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)
2.60	77.15	1,283.00

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)
27.60	473.00	17.1	5,165.0	5,638.0

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
					5,451.15
135	Drill Pipe	5	4.276	4,078.15	5,451.15
7	HWDP	5	3.000	215.16	1,373.00

Total AFE + Sup (Cost)
9,064,000.00

AFE Job Cost Summary

Cost Type	AFE Amt (Cost)
DHC	7,600,000.00
CWC	1,464,000.00

Field Estimate Job Cost Summary

Cost Type	Field Est (Cost)
DHC	4,429,126.10

Daily Summary

Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
109,923.98	4,433,805.50

Daily Mud Field Est (Cost)	Cum Mud Field Est (Cost)
4,465.57	213,788.39

POL (Personnel on Location): 26.0

Daily Contacts

Job Contact	Title
Dean Baker	Sr. Drlg. Foreman
Derrick Berry	Drlg. Foreman

Personnel Log

Company	Count
PIONEER NATURAL RESOURCES	1
PIONEER NATURAL RESOURCES	1
NABORS DRILLING INC	2
NABORS DRILLING INC	13
BAKER HUGHES INTEQ	2
ZECO	2
SELMA	2
NEWPARK	1
BADLANDZER	2

Weather

Precipitation Amount (in)	Precipitation Type

Temperature - High (°F)	Temperature - Low (°F)

Comment

NABORS DRILLING, 169

Rig Type: Drilling - Triple

Rig Start Date	Rig Release Date
9/22/2010	

1, National Supply, 10-P-130

Pump Number: 1

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)
Yes	210.0	30	99	95
Yes	265.0	40	133	95
Yes	352.0	50	166	95

2, National Supply, 10-P-130

Pump Number: 2

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)
Yes	201.0	30	99	95
Yes	271.0	40	133	95
Yes	330.0	50	166	95

Job Supply Amounts

Supply Item Des	Unit Label	Received	Consumed	Cum On Loc
Diesel Fuel	gal us	6,958		6,958

Mud Additive Amounts

Des	Consumed	Cum Cons
Bentone 910	12	13
BULK TANK	2	84
BULK TANK BLOWERS	2	60
Gilsonite HT	6	44
Lime	18	108
MUD ENGINEER	1	42
MUD LAB	1	34
Opti-Mul	1	9

Safety Summary

BOP Test Date	Last BOP Test	BOP Func Due	HSE Incident	HSE Inc Remark
03/November/2010	13/October/2010	Next trip out of hole		

10/24/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 10/24/2010
REPORT: 59
DOL: 57.77
DFS: 31.60

Rig Name: NABORS DRILLING 169

Depth Progress: 187.00

Daily Summary

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
1	Jars	6 3/8	2.875	32.57	1,157.84
19	HWDP	5	3.000	583.54	1,125.27
1	X/O	6 3/8	2.813	3.57	541.73
9	6-1/2" DC's	6 1/2	2.875	276.70	538.16
1	X/O	6 1/2	2.813	2.92	261.46
6	8" DC's	8	2.875	183.85	258.54
1	Mechanical Thruster	8	3.563	26.78	74.69
1	Filter Sub	8	2.875	4.88	47.91
1	Float Sub	8 1/16	2.938	2.49	43.03
1	XO Sub	8 1/4	3.000	3.12	40.54
1	Stop Sub	9 1/2	3.500	1.46	37.42
1	9-1/2" True Trak, Adjustable Pads w/ Stab	9 1/2		35.96	35.96

Drilling Parameters

5,451.0 - 5,638.0 ftKB

Start (ftKB)	End Depth...	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note
5,451.0	5,638.0	16.8	26			594	3,000.0	

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100...	SO Str Wt (100...	Drill Str Wt (100...	Torque Units	Drilling Torque	Off Btm Tq
11.10	0.00	184	184	155			

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/...	Max Open Hole AV (ft...

Casing Strings

Prop Run?	Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
Yes	Conductor	105.0	105.0	30	ERW	118.00		
Yes	Surface	4,345.0	4,344.6	13 3/8	K-55	68.00		

Plug Back Total Depths

Date	Depth (ftKB)	Type	Method

Deviation Surveys

Tru-Trak, Proposed? No

Date	Description	Job
9/23/2010	Tru-Trak	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
10/15/2010	5,228.00	0.18		5,227.61				
10/15/2010	5,324.00	0.18		5,323.61				
10/15/2010	5,419.00	0.09		5,418.61				
10/15/2010	5,512.00	0.35		5,511.61				
10/15/2010	5,606.00	0.26		5,605.61				

Mud Additive Amounts

Des	Consumed	Cum Cons
Opti-Plus	1	4
Opti-Wet	1	2
Tax	224	9,164

Formations

Formation Name	Final Top MD (ftKB)
Quaternary	
Tertiary Volcanic	
Tertiary Undivided	
North Horn	
UNCONFORMITY	
Arapien	
FAULT	
Arapien	
Twin Creek	
Gypsum Sprgs Mbr	
Navajo	
Chinle	
TD	

Safety Summary

10/24/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 10/26/2010
REPORT: 62
DOL: 59.77
DFS: 33.60

Rig Name: NABORS DRILLING 169

Depth Progress: 0.00

Daily Summary

Property Sub	Field Name	API/UWI	Spud Date
327560-001	WILDCAT	43-023-30021-0000	9/22/2010

KB-Ground Distance (ft)	Original KB Elevation (ft)	KB-Mud Line Distance (ft)
25.00	5,264.00	

Daily Operations

Target Depth (ftKB)	Target Depth (TVD) (ftKB)	End Depth (ftKB)	End Depth (TVD) (ftKB)
9,040.0		5,638.0	

Footage/Meterage (ft)	24 HR ROP (ft/hr)	Drilling Hours (hr)
0.00		

Avg Connection Gas	Avg Trip Gas	Avg Background Gas	Max Connection Gas	Max Trip Gas	Max Drill Gas
		8.00			

Operations at Report Time
Circ hole on bottom @ 5638', Conditioning mud

Operations Summary
Wait on base oil, P/U & Rack back 9 jts, 5" DP, Move 126 bbls 15.4 OBM & 375 bbls base oil, from frac tanks to rig mud tanks. Stabilize mwt to 10.1 ppg in tanks. Circ hole stabilize mwt to 10.1 ppg, Wash from 4345' to 5209', large amount of cutting over shakers, Circ hole clean, Wash 5209' to 5638' mwt in 10.4 ppg, mwt out 10.4ppg.

Remarks
No Incidents, No Accidents, No Spills.

Operations Next Report Period
Attempt to drill 10', if no hole issues, POOH and P/U Directional BHA. If have major losses POOH and prepare for cement squeeze.

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com
06:00	14:45	8.75	U_LC	PN	Wait on base oil. P/U & M/U 9 jts, 284', 5" DP, via mouse hole, rack in derrick. Total 5" DP (in derrick & hole), 60 stnds = 5690'
14:45	20:00	5.25	U_LC	PN	Move 126 bbls, 15.4 ppg OBM & 375 bbls base oil, from frac tanks to mud tanks. Circ & stabilize mwt at 10.1 ppg.
20:00	01:15	5.25	U_LC	PN	Circ hole @ 4355', 40 spm, 140 gpm, 360-470 psi. Pumped 111 bbls, mwt in 10.1 ppg, established circulation (equates to 750' fluid level). Lost approx. 100 bbls, displacing 11 ppg & 12.8 ppg OBM. Stabilized mwt at 10.1ppg. in, mwt out 10.4 ppg, SIMOPS: Moved in additional Frac tank to hold additional OBM if needed.
01:15	02:45	1.50	U_LC	PN	Wash from 4355'-5209', pumps 40X40, 279 gpm, 300 psi, mwt in 10.2 ppg, mwt out 10.4 ppg. Large amount of cuttings over shakers.
02:45	03:45	1.00	U_LC	PN	Circ hole clean @ 5209', Pumps 40X40 spm, 279 gpm, 350psi, 10.4ppg mwt, in/out.
03:45	05:00	1.25	U_LC	PN	Wash from 5209'-5638', pumps 40X40, 279 gpm, 370 psi, mwt in 10.4 ppg, mwt out 10.8 ppg. Minimum amout of cutting coming back. No bridges No fill while washing to bottom
05:00	06:00	1.00	U_LC	PN	Circ @ 5638', Pumps 40X40 spm, 279 gpm, 370 psi, Mwt in 10.4 ppg, mwt out 10.4 ppg. Mix and Pump 50 bbl, LCM pills ranging from 7 to 15 ppb, Estimated losses of 200 bbls OBM during 10 hrs of circ and washing to btm.

Mud Properties

Daily Cost: <Daily Mud Field Est?> Cum Cost: <Mud Additive

Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	T Flowline (°F)

PV (cp)	YP (lbf/100ft²)	Filtrate (mL/30min)	HTHP Filtrate (mL/30...	HTHP Pressure (psi)	HTHP Temperature (°F)

Solids (%)	Sand (%)	MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)

Chlorides (ppm)	Calcium (ppm)	Oil Water Ratio	Electric Stab (V)	Lime (lb/bbl)	Low Gravity Solids (%)

Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Comment

Bottom Hole Assembly

BHA Since Insp (hr)	BHA Wt BelowJar (1000lbf)	Hrs on Jars (hr)

BHA #13 , Slick

Bit Run	Drill Bit	Bit Type	Make
13 RR#10	12 1/4in, FDS+C, PP0693	Mill Tooth	Smith

Nozzles (1/32")	IADC Codes	IADC Bit Dull
28/28/28/28/28	___	-------

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)
3.01	0.42	10.00

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)
			5,638.0	5,638.0

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
					4,314.81
112	Drill Pipe	5	4.276	3,472.00	4,314.81
7	HWDP	5	3.000	215.16	842.81
1	Jars	6 3/8	2.875	32.57	627.65
19	HWDP	5	3.000	583.54	595.08
1	X/O	6 3/8	2.813	3.57	11.54
1	X/O	8	2.875	4.04	7.97
1	Bit Sub	8	2.813	3.93	3.93

Drilling Parameters

5,638.0 - 5,638.0 ftKB

Start (ftKB)	End Depth...	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note
5,638.0	5,638.0					279	370.0	

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100...	SO Str Wt (100...	Drill Str Wt (100...	Torque Units	Drilling Torque	Off Btm Tq
0.00	10.00	150	150				

Total AFE + Sup (Cost)
9,064,000.00

AFE Job Cost Summary

Cost Type	AFE Amt (Cost)
DHC	7,600,000.00
CWC	1,464,000.00

Field Estimate Job Cost Summary

Cost Type	Field Est (Cost)
DHC	4,670,444.45

Daily Summary

Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
47,498.00	4,627,625.85
Daily Mud Field Est (Cost)	**Cum Mud Field Est (Cost)**
	222,038.69

POL (Personnel on Location)
26.0

Daily Contacts

Job Contact	Title
Dean Baker	Sr. Drlg. Foreman
Derrick Berry	Drlg. Foreman

Personnel Log

Company	Count
PIONEER NATURAL RESOURCES	1
PIONEER NATURAL RESOURCES	1
NABORS DRILLING INC	2
NABORS DRILLING INC	13
BAKER HUGHES INTEQ	2
ZECO	2
SELMA	2
NEWPARK	1
BADLANDZER	2

Weather

Precipitation Amount (in)	Precipitation Type
Temperature - High (°F)	**Temperature - Low (°F)**

Comment

NABORS DRILLING, 169

Rig Type
Drilling - Triple

Rig Start Date	Rig Release Date
9/22/2010	

1, National Supply, 10-P-130

Pump Number
1

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

2, National Supply, 10-P-130

Pump Number
2

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

Job Supply Amounts

Supply Item Des	Unit Label	Received	Consumed	Cum On Loc
Diesel Fuel	gal us	6,958		6,958

Mud Additive Amounts

Des	Consumed	Cum Cons

Formations

Formation Name	Final Top MD (ftKB)
Quaternary	
Tertiary Volcanic	
Tertiary Undivided	
North Horn	
UNCONFORMITY	
Arapien	
FAULT	
Arapien	
Twin Creek	

Safety Summary

BOP Test Date	Last BOP Test	BOP Func Due	HSE Incident	HSE Inc Remark
03/November/2010	13/October/2010	25/October/2010		

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 10/26/2010
REPORT: 62
DOL: 59.77
DFS: 33.60

Rig Name: NABORS DRILLING 169

Depth Progress: 0.00

Daily Summary

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/…	Max Open Hole AV (ft…

Casing Strings

Prop Run?	Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
Yes	Conductor	105.0	105.0	30	ERW	118.00		
Yes	Surface	4,345.0	4,344.6	13 3/8	K-55	68.00		

Plug Back Total Depths

Date	Depth (ftKB)	Type	Method

Deviation Surveys

Tru-Trak, Proposed? No

Date	Description	Job
9/23/2010	Tru-Trak	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
10/15/2010	5,228.00	0.18		5,227.61				
10/15/2010	5,324.00	0.18		5,323.61				
10/15/2010	5,419.00	0.09		5,418.61				
10/15/2010	5,512.00	0.35		5,511.61				
10/15/2010	5,606.00	0.26		5,605.61				

Formations

Formation Name	Final Top MD (ftKB)
Gypsum Sprgs Mbr	
Navajo	
Chinle	
TD	

Safety Summary

10/26/2010

PIONEER NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 10/27/2010
REPORT: 62
DOL: 60.77
DFS: 34.60

Rig Name: NABORS DRILLING 169

Depth Progress: 6.00

Daily Summary

Property Sub	Field Name	API/UWI	Spud Date
327560-001	WILDCAT	43-023-30021-0000	9/22/2010

KB-Ground Distance (ft)	Original KB Elevation (ft)	KB-Mud Line Distance (ft)
25.00	5,264.00	

Daily Operations

Target Depth (ftKB)	Target Depth (TVD) (ftKB)	End Depth (ftKB)	End Depth (TVD) (ftKB)
9,040.0		5,644.0	

Footage/Meterage (ft)	24 HR ROP (ft/hr)	Drilling Hours (hr)
6.00	3.8	1.60

Avg Connection Gas	Avg Trip Gas	Avg Background Gas	Max Connection Gas	Max Trip Gas	Max Drill Gas

Operations at Report Time
S/D Pulling intake and discharge modules on Pump #1

Operations Summary
Circ, stabilize mwt at 10.4 ppg, Ramp pumps 100X100 spm, 698 gpm, testing formation integrity, OK, drill from 5638'-5644', TOOH, break & L/D bit, M/U PDC bit & Tru-trak, TIH to 4315'. Repair Pump #1 (could not pull Liner retainer to get to wear plate, Heat reatianer up with rose bud, could not pull free). Nabors made decision to pull intake and discharge modules.

Remarks
No Incidents, No Accidents, No Spills.
Outback Rental, Backhauled: (1) Weatherford, 13-3/8", Float shoe, BTZ thds, (1) Weatherford, 13-3/8" Float Collar, BTZ thds, (5) Weatherford Spriing Bow Centralizers, to Weatherford, Vernal, Utah
Water pit (south end pit) completely voided of fluid & mud. Ready to have 20 mil liner installed.

Operations Next Report Period
Repair Mud pump, Trip to btm, Drill 12 1/4 hole

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com
06:00	10:00	4.00	U_LC	PN	Circ @ 5638', Pumps 40X40 spm, 279 gpm, 400 psi, Mwt in 10.4 ppg, mwt out 10.4 ppg. Mix & pump 50 bbl, 15 ppb, LCM pills. Estimated losses of 9 bbls OBM during 4 hrs of circ.
10:00	10:15	0.25	U_LC	PN	Circ, ramp pumps up from 50X50 spm, 349 gpm, 590 psi to 100X100 spm, 698 gpm, 1975 psi, lost approx 9 bbls, mwt stabilized @ 10.4 ppg,
10:15	12:00	1.75	U_LC	PN	Rotate drill from 5638' to 5644', pumps 100X100 spm, 698 gpm, 1960 psi, WOB 18-23K, TDS 130 rpm. MWT 10.4 ppg, in/out. Drilled 6', on bottom drilling time 1.6 hrs, avg ROP 3.75'/hr Losses approx 12 bbls Fms @ 5640': 70% Oolitic Dolomite, 20% Dolomite Shale, 5% Sand, 5% Limestone
12:00	12:30	0.50	RIGSER	PP	Lost pump press, #1 mud pump, swab out
12:30	13:15	0.75	U_LC	PN	Mix & pump slug, prep to POOH.
13:15	17:00	3.75	U_LC	PN	POOH from 5644' to bit, no hole problems. Open/Close: Upper & Lower Pipe Rrams, Blind Rams BOP, Function test Annular,
17:00	18:00	1.00	U_LC	PN	Break bit & subs, L/D same
18:00	21:30	3.50	U_LC	PN	M/U PDC bit #14 (RR#12), Tru-trak & TIH w/ BHA to 1374'
21:30	23:30	2.00	U_LC	PN	TIH from 1374' to 4315', Repair pump #1 before starting into open hole.
23:30	06:00	6.50	U_RIG	PN	Working on #1 mud pump, Liner Retainer Seized up, Welder heated up liner retainer with Rose bud, could not pull, Nabors made decision to pull disharge and suction Modules.

Mud Properties

Daily Cost: 6,803.67 Cost Cum Cost: 228,842.36 Cost

Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	T Flowline (°F)
03:00	Oil Base	5,638.0	10.20	50	

PV (cp)	YP (lbf/100ft²)	Filtrate (mL/30min)	HTHP Filtrate (mL/30...	HTHP Pressure (psi)	HTHP Temperature (°F)
17.0	16.000		5.0		250.0

Solids (%)	Sand (%)	MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)
18.0					

Chlorides (ppm)	Calcium (ppm)	Oil Water Ratio	Electric Stab (V)	Lime (lb/bbl)	Low Gravity Solids (%)
		79.3/20.7	697.0	4.7	11.6

Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Comment
10.000	9.000	

Bottom Hole Assembly

BHA Since Insp (hr)	BHA Wt BelowJar (1000lbf)	Hrs on Jars (hr)

BHA #13 , Slick

Bit Run	Drill Bit	Bit Type	Make
3 RR#10	12 1/4in, FDS+C, PP0693	Mill Tooth	Smith

Nozzles (1/32")	IADC Codes	IADC Bit Dull
28/28/28/28/28	___	4-4-WT-N-1-I-N-BHA

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)
3.01	2.02	16.00

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)
1.60	6.00	3.8	5,638.0	5,644.0

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
					4,314.81
112	Drill Pipe	5	4.276	3,472.00	4,314.81
7	HWDP	5	3.000	215.16	842.81
1	Jars	6 3/8	2.875	32.57	627.65
19	HWDP	5	3.000	583.54	595.08
1	X/O	6 3/8	2.813	3.57	11.54
1	X/O	8	2.875	4.04	7.97
1	Bit Sub	8	2.813	3.93	3.93

Total AFE + Sup (Cost)
9,064,000.00

AFE Job Cost Summary

Cost Type	AFE Amt (Cost)
DHC	7,600,000.00
CWC	1,464,000.00

Field Estimate Job Cost Summary

Cost Type	Field Est (Cost)
DHC	4,644,227.45

Daily Summary

Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
81,543.00	4,648,906.85

Daily Mud Field Est (Cost)	Cum Mud Field Est (Cost)
6,803.67	228,842.36

POL (Personnel on Location)
26.0

Daily Contacts

Job Contact	Title
Dean Baker	Sr. Drlg. Foreman
Derrick Berry	Drlg. Foreman

Personnel Log

Company	Count
PIONEER NATURAL RESOURCES	1
PIONEER NATURAL RESOURCES	1
NABORS DRILLING INC	2
NABORS DRILLING INC	13
BAKER HUGHES INTEQ	2
ZECO	2
SELMA	2
NEWPARK	1
BADLANDZER	2

Weather

Precipitation Amount (in)	Precipitation Type

Temperature - High (°F)	Temperature - Low (°F)

Comment

NABORS DRILLING, 169

Rig Type
Drilling - Triple

Rig Start Date	Rig Release Date
9/22/2010	

1, National Supply, 10-P-130

Pump Number
1

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

2, National Supply, 10-P-130

Pump Number
2

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

Job Supply Amounts

Supply Item Des	Unit Label	Received	Consumed	Cum On Loc
Diesel Fuel	gal us	6,958		6,958

Mud Additive Amounts

Des	Consumed	Cum Cons
Bentone 910	4	23
BULK TANK	2	88
BULK TANK	2	90
BULK TANK BLOWERS	2	64
BULK TANK BLOWERS	2	66
Drum Disposal		12
Gilsonite HT	4	48
Lime	4	112
MUD ENGINEER	1	44
MUD ENGINEER	1	45
MUD LAB	1	36
MUD LAB	1	37

Safety Summary

BOP Test Date	Last BOP Test	BOP Func Due	HSE Incident	HSE Inc Remark

10/27/2010

PIONEER NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Daily Drilling Report

Well Name: South Hills 6-1

Rig Name: NABORS DRILLING 169

Depth Progress: 6.00

REPORT DATE: 10/27/2010
REPORT: 62
DOL: 60.77
DFS: 34.60

Daily Summary

Drilling Parameters

5,638.0 - 5,644.0 ftKB

Start (ftKB)	End Depth…	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note
5,638.0	5,644.0	3.8	22	135		698	1,960.0	

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100…	SO Str Wt (100…	Drill Str Wt (100…	Torque Units	Drilling Torque	Off Btm Tq
1.60	5.00	158	158	136			

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/…	Max Open Hole AV (ft…

BHA #14 , Steerable

Bit Run	Drill Bit	Bit Type	Make
4 RR#12	12 1/4in, HCD505ZX, 7015752	PDC	Hughes

Nozzles (1/32")	IADC Codes	IADC Bit Dull
22/22/22/22/22/22/22	M323	-------

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)
2.60	77.15	1,283.00

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)
			5,644.0	5,644.0

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
					5,451.15
135	Drill Pipe	5	4.276	4,078.15	5,451.15
7	HWDP	5	3.000	215.16	1,373.00
1	Jars	6 3/8	2.875	32.57	1,157.84
19	HWDP	5	3.000	583.54	1,125.27
1	X/O	6 3/8	2.813	3.57	541.73
9	6-1/2" DC's	6 1/2	2.875	276.70	538.16
1	X/O	6 1/2	2.813	2.92	261.46
6	8" DC's	8	2.875	183.85	258.54
1	Mechanical Thruster	8	3.563	26.78	74.69
1	Filter Sub	8	2.875	4.88	47.91
1	Float Sub	8 1/16	2.938	2.49	43.03
1	XO Sub	8 1/4	3.000	3.12	40.54
1	Stop Sub	9 1/2	3.500	1.46	37.42
1	9-1/2" True Trak, Adjustable Pads w/ Stab	9 1/2		35.96	35.96

Drilling Parameters

5,644.0 - 5,644.0 ftKB

Start (ftKB)	End Depth…	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note
5,644.0	5,644.0							

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100…	SO Str Wt (100…	Drill Str Wt (100…	Torque Units	Drilling Torque	Off Btm Tq

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/…	Max Open Hole AV (ft…

Casing Strings

Prop Run?	Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
Yes	Conductor	105.0	105.0	30	ERW	118.00		
Yes	Surface	4,345.0	4,344.6	13 3/8	K-55	68.00		

Plug Back Total Depths

Date	Depth (ftKB)	Type	Method

Deviation Surveys

Tru-Trak, Proposed? No

Date	Description	Job
9/23/2010	Tru-Trak	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
10/15/2010	5,228.00	0.18		5,227.61				
10/15/2010	5,324.00	0.18		5,323.61				
10/15/2010	5,419.00	0.09		5,418.61				
10/15/2010	5,512.00	0.35		5,511.61				
10/15/2010	5,606.00	0.26		5,605.61				

Mud Additive Amounts

Des	Consumed	Cum Cons
New Bar (Ton/bulk)	2	109
Opti-Mul		10
Opti-Mul	1	11
Opti-Plus	1	6
Opti-Vis	1	4
Opti-Vis	1	5
PALLETS		8
SHRINK WRAP		8
Tax	73	9,676
Tax	203	9,879
Trucking	921	38,099

Formations

Formation Name	Final Top MD (ftKB)
Quaternary	
Tertiary Volcanic	
Tertiary Undivided	
North Horn	
UNCONFORMITY	
Arapien	
FAULT	
Arapien	
Twin Creek	
Gypsum Sprgs Mbr	
Navajo	
Chinle	
TD	

Safety Summary

10/27/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 10/28/2010
REPORT: 63
DOL: 61.77
DFS: 35.60

Rig Name: NABORS DRILLING 169

Depth Progress: 0.00

Daily Summary

Property Sub	Field Name	API/UWI	Spud Date
327560-001	WILDCAT	43-023-30021-0000	9/22/2010

KB-Ground Distance (ft)	Original KB Elevation (ft)	KB-Mud Line Distance (ft)
25.00	5,264.00	

Daily Operations

Target Depth (ftKB)	Target Depth (TVD) (ftKB)	End Depth (ftKB)	End Depth (TVD) (ftKB)
9,040.0		5,644.0	

Footage/Meterage (ft)	24 HR ROP (ft/hr)	Drilling Hours (hr)
0.00		

Avg Connection Gas	Avg Trip Gas	Avg Background Gas	Max Connection Gas	Max Trip Gas	Max Drill Gas

Operations at Report Time
Continue Repairs on Pump #1

Operations Summary
S/D for repairs on #1 Mud Pump, Nabors fabricated & R/U equipment & hydraulic porta-power, could not pull liner retainer ring plate on #1 Mud pump. Removed #1 intake & discharge modules, to gain access to back side of wear plate. Found Intake module, cracked. Fabricate Pull Plate & R/U 20K psi, porta power puller. Pulled liner retainer ring plate. Clean-up ring, re-install. Re-assemble components.

Security lock down on location, Performed UA's on all Nabors Employees and all 3rd party contractors (10 individuals). Salt Lake City Police Department searched all vehicles and all accomidations on Location with K-9's. Four individuals tested positive for Alcohol and controlled substances. The four individuals were asked to leave location and will return after 8am to retrieve their personal belongings.

Remarks
No Incidents, No Accidents, No Spills.

Operations Next Report Period
Finishing repairing pump #1, TIH, Drill 12 1/4" Hole

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com
06:00	06:00	24.00	U_RIG	PN	Nabors fabricated & R/U equipment & hydraulic porta-power, could not pull liner retainer ring plate on #1 Mud pump. Removed #1 intake & discharge modules, to gain access to back side of wear plate. Found Intake module, cracked. Fabricate Pull Plate & R/U 20K psi, porta power puller. Pulled liner retainer ring plate. Clean-up ring, re-install. Re-assemble components. Security lock down on location, 3rd party drug screen company performed UA's on all Nabors Employees and 10 Individual, 3rd party contractors working directly for Pioneer, Salt Lake City Police Department searched all vehicles and all accomidations on Location with K-9's. Four individuals tested positive for Alcohol and controlled substances. The four individuals were asked to leave location and will return after 8am to retrieve their personal belongings.

Mud Properties

Daily Cost: 2,613.65 Cost Cum Cost: 231,456.01 Cost

Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	T Flowline (°F)
03:00	Oil Base	5,638.0	10.60	51	

PV (cp)	YP (lbf/100ft²)	Filtrate (mL/30min)	HTHP Filtrate (mL/30...	HTHP Pressure (psi)	HTHP Temperature (°F)
13.0	17.000		5.0		250.0

Solids (%)	Sand (%)	MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)
18.0					

Chlorides (ppm)	Calcium (ppm)	Oil Water Ratio	Electric Stab (V)	Lime (lb/bbl)	Low Gravity Solids (%)
		79.3/20.7	665.0	4.4	11.7

Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Comment
10.000	9.000	

Bottom Hole Assembly

BHA Since Insp (hr)	BHA Wt BelowJar (1000lbf)	Hrs on Jars (hr)

BHA #14 , Steerable

Bit Run	Drill Bit	Bit Type	Make
4 RR#12	12 1/4in, HCD505ZX, 7015752	PDC	Hughes

Nozzles (1/32")	IADC Codes	IADC Bit Dull
22/22/22/22/22/22/22	M323	-------

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)
2.60	77.15	1,283.00

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)
			5,644.0	5,644.0

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
					5,451.15
135	Drill Pipe	5	4.276	4,078.15	5,451.15
7	HWDP	5	3.000	215.16	1,373.00
1	Jars	6 3/8	2.875	32.57	1,157.84
19	HWDP	5	3.000	583.54	1,125.27
1	X/O	6 3/8	2.813	3.57	541.73
9	6-1/2" DC's	6 1/2	2.875	276.70	538.16
1	X/O	6 1/2	2.813	2.92	261.46
6	8" DC's	8	2.875	183.85	258.54
1	Mechanical Thruster	8	3.563	26.78	74.69
1	Filter Sub	8	2.875	4.88	47.91
1	Float Sub	8 1/16	2.938	2.49	43.03
1	XO Sub	8 1/4	3.000	3.12	40.54
1	Stop Sub	9 1/2	3.500	1.46	37.42
1	9-1/2" True Trak, Adjustable Pads w/ Stab	9 1/2		35.96	35.96

Total AFE + Sup (Cost)
9,064,000.00

AFE Job Cost Summary

Cost Type	AFE Amt (Cost)
DHC	7,600,000.00
CWC	1,464,000.00

Field Estimate Job Cost Summary

Cost Type	Field Est (Cost)
DHC	4,756,811.65

Daily Summary

Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
112,584.20	4,761,491.05
Daily Mud Field Est (Cost)	**Cum Mud Field Est (Cost)**
2,613.65	231,456.01

POL (Personnel on Location)
26.0

Daily Contacts

Job Contact	Title
Dean Baker	Sr. Drlg. Foreman
Derrick Berry	Drlg. Foreman

Personnel Log

Company	Count
PIONEER NATURAL RESOURCES	1
PIONEER NATURAL RESOURCES	1
NABORS DRILLING INC	2
NABORS DRILLING INC	13
BAKER HUGHES INTEQ	2
ZECO	2
SELMA	2
NEWPARK	1
BADLANDZER	2

Weather

Precipitation Amount (in)	Precipitation Type
Temperature - High (°F)	**Temperature - Low (°F)**

Comment

NABORS DRILLING, 169

Rig Type
Drilling - Triple

Rig Start Date	Rig Release Date
9/22/2010	

1, National Supply, 10-P-130

Pump Number
1

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

2, National Supply, 10-P-130

Pump Number
2

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

Job Supply Amounts

Supply Item Des	Unit Label	Received	Consumed	Cum On Loc
Diesel Fuel	gal us	6,958		6,958

Mud Additive Amounts

Des	Consumed	Cum Cons
BULK TANK	2	92
BULK TANK BLOWERS	2	68
Drum Disposal	20	32
MUD ENGINEER	1	46
MUD LAB	1	38
Opti-Wet		3
Pallets	12	53
SALT		0
Sawdust		5
Shrink Wrap	7	35
Tax	68	9,946
Trucking	921	39,020

Safety Summary

BOP Test Date	Last BOP Test	BOP Func Due	HSE Incident	HSE Inc Remark
03/November/2010	13/October/2010	26/October/2010		

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 10/28/2010
REPORT: 63
DOL: 61.77
DFS: 35.60

Rig Name: NABORS DRILLING 169

Depth Progress: 0.00

Daily Summary

Drilling Parameters

5,644.0 - 5,644.0 ftKB

Start (ftKB)	End Depth…	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note
5,644.0	5,644.0							

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100…	SO Str Wt (100…	Drill Str Wt (100…	Torque Units	Drilling Torque	Off Btm Tq

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/…	Max Open Hole AV (ft…

Casing Strings

Prop Run?	Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
Yes	Conductor	105.0	105.0	30	ERW	118.00		
Yes	Surface	4,345.0	4,344.6	13 3/8	K-55	68.00		

Plug Back Total Depths

Date	Depth (ftKB)	Type	Method

Deviation Surveys

Tru-Trak, Proposed? No

Date	Description	Job
9/23/2010	Tru-Trak	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
10/15/2010	5,228.00	0.18		5,227.61				
10/15/2010	5,324.00	0.18		5,323.61				
10/15/2010	5,419.00	0.09		5,418.61				
10/15/2010	5,512.00	0.35		5,511.61				
10/15/2010	5,606.00	0.26		5,605.61				

Formations

Formation Name	Final Top MD (ftKB)
Quaternary	
Tertiary Volcanic	
Tertiary Undivided	
North Horn	
UNCONFORMITY	
Arapien	
FAULT	
Arapien	
Twin Creek	
Gypsum Sprgs Mbr	
Navajo	
Chinle	
TD	

Safety Summary

10/28/2010

PIONEER NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 10/29/2010
REPORT: 64
DOL: 62.77
DFS: 36.60

Rig Name: NABORS DRILLING 169

Depth Progress: 109.00

Daily Summary

Property Sub	Field Name	API/UWI	Spud Date
327560-001	WILDCAT	43-023-30021-0000	9/22/2010

KB-Ground Distance (ft)	Original KB Elevation (ft)	KB-Mud Line Distance (ft)
25.00	5,264.00	

Daily Operations

Target Depth (ftKB)	Target Depth (TVD) (ftKB)	End Depth (ftKB)	End Depth (TVD) (ftKB)
9,040.0		5,753.0	

Footage/Meterage (ft)	24 HR ROP (ft/hr)	Drilling Hours (hr)
109.00	10.7	10.20

Avg Connection Gas	Avg Trip Gas	Avg Background Gas	Max Connection Gas	Max Trip Gas	Max Drill Gas
17.00	1609.00	17.00	17.00	1609.00	

Operations at Report Time
Drilling at 5753'

Operations Summary
Finish repairing mud pump, circ, TIH to 5543', Wash to 5643' No fill, Slide drill from 5643' to 5753', Replaced Swab on Pump #1 and rig service on TDS.

Remarks
No Incidents, No Accidents, No Spills.

Operations Next Report Period
Drill Ahead 12 1/4" Hole

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com
06:00	11:15	5.25	U_RIG	PN	Finish assembling mud pump module components.
11:15	12:00	0.75	U_RIG	PN	Circ w/ #1 mud pump, 40 spm to 100 spm, OK, no pump issues. Circ both pumps 40X40 to 100X00 spm, OK.
12:00	12:30	0.50	U_RIG	PN	Circ hole 4315', both pumps 90X90 spm, 2061 psi, for mud pump integrity
12:30	13:30	1.00	U_RIG	PN	Swab in middle bay #1 mud pump leaking, replace swab. Circ hole w/ #2 pump 50 spm. Swab in 1st bay #2 mud pump leaking, replace swab. Circ hole w/ #1 pump, 50 spm
13:30	14:00	0.50	U_RIG	PN	Run pumps, 90x90 spm, no problems
14:00	15:00	1.00	U_LC	PN	Pull trip nipple, install rotating head bushing
15:00	16:00	1.00	U_LC	PN	TIH from 4315'-5543', no hole problems
16:00	16:15	0.25	U_LC	PN	Wash from 5543'-5643', pumps 60X60 spm, 1115 psi, no fill
16:15	16:30	0.25	U_LC	PN	Sync Tru-trak, 50X50 spm, 349 gpm, inc to 95X95 spm, 663 gpm
16:30	16:45	0.25	U_RIG	PN	#1 & #3 suction caps leaking on #2 mud pump. Tighten cap on #1 suction, #3 sealed off.
16:45	02:00	9.25	SLDDRLG	PP	Slide Drill from 5644' to 5739', pumps 88X88 spm, 614 gpm, 2400-2500 psi, WOB 18-30K, bit 98 rpm, cut mwt back from 10.6 ppg to 10.2 ppg, due to low gravity solids. Drilled 96', on bottom drilling time 9 hrs, avg ROP 10'/hr Total on bottom sliding time = 9 hrs + 77.6 hrs = 86.6 hrs Pump 25 bbl, 15 ppb, Opti-fiber, LCM sweeps as needed. Losses of approx, 20-25bbls per hr Sync Tru-trak: bring pumps on line 50X50 spm, inc pump rate to 90X90. Fms: 5643'-5660: 20% sandstone, 80% Dolomite Fms: 5660-5739: 100% sandstone
02:00	03:00	1.00	RIGSER	PP	Rig Service on TDS and Blew an O-ring on Mud line, S/D to install new o-ring.
03:00	04:30	1.50	SLDDRLG	PP	Slide Drill from 5735' to 5749', pumps 88X88 spm, 614 gpm, 2400-2500 psi, WOB 18-30K, bit 98 rpm, 10ppg Mwt Drilled 14', on bottom drilling time 1 hrs, avg ROP 14'/hr Total on bottom sliding time = 1 hrs + 84.8 hrs = 85.8 hrs Pump 25 bbl, 15 ppb, Opti-fiber, LCM sweeps as needed. Losses of approx, 20-25bbls per hr Sync Tru-trak: bring pumps on line 50X50 spm, inc pump rate to 90X90. Fms: 5660-5739: 100% sandstone
04:30	05:30	1.00	U_RIG	PN	S/D Had to repalce middle bay Swab on pump #1
05:30	06:00	0.50	SLDDRLG	PP	Slide Drill from 5749' to 5753', pumps 88X88 spm, 614 gpm, 2400-2450 psi, WOB 18-30K, bit 98 rpm, 10ppg Mwt Drilled 4', on bottom drilling time .25 hrs, avg ROP 15'/hr Total on bottom sliding time = .25 hrs + 85.8 hrs = 86.05hrs Pump 25 bbl, 15 ppb, Opti-fiber, LCM sweeps as needed. Losses of approx, 20-25bbls per hr Sync Tru-trak: bring pumps on line 50X50 spm, inc pump rate to 90X90. Fms: 5749-5753: 100% sandstone

Mud Properties

Daily Cost: 12,292.75 Cost Cum Cost: 243,748.76 Cost

Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	T Flowline (°F)
03:00	Oil Base	5,753.0	10.00	48	

PV (cp)	YP (lbf/100ft²)	Filtrate (mL/30min)	HTHP Filtrate (mL/30…	HTHP Pressure (psi)	HTHP Temperature (°F)
12.0	12.000		5.0		250.0

Solids (%)	Sand (%)	MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)
14.0					

Chlorides (ppm)	Calcium (ppm)	Oil Water Ratio	Electric Stab (V)	Lime (lb/bbl)	Low Gravity Solids (%)
		80/20	681.0	4.0	7.9

Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Comment
9.000	8.000	

Bottom Hole Assembly

BHA Since Insp (hr)	BHA Wt BelowJar (1000lbf)	Hrs on Jars (hr)

Total AFE + Sup (Cost): 9,064,000.00

AFE Job Cost Summary

Cost Type	AFE Amt (Cost)
DHC	7,600,000.00
CWC	1,464,000.00

Field Estimate Job Cost Summary

Cost Type	Field Est (Cost)
DHC	4,822,004.40

Daily Summary

Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
65,192.75	4,826,683.80
Daily Mud Field Est (Cost)	**Cum Mud Field Est (Cost)**
12,292.75	243,748.76

POL (Personnel on Location): 26.0

Daily Contacts

Job Contact	Title
Dean Baker	Sr. Drlg. Foreman
Derrick Berry	Drlg. Foreman

Personnel Log

Company	Count
PIONEER NATURAL RESOURCES	1
PIONEER NATURAL RESOURCES	1
NABORS DRILLING INC	2
NABORS DRILLING INC	13
BAKER HUGHES INTEQ	2
ZECO	2
SELMA	2
NEWPARK	1
BADLANDZER	2

Weather

Precipitation Amount (in)	Precipitation Type
Temperature - High (°F)	**Temperature - Low (°F)**

Comment

NABORS DRILLING, 169

Rig Type: Drilling - Triple

Rig Start Date	Rig Release Date
9/22/2010	

1, National Supply, 10-P-130

Pump Number: 1

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

2, National Supply, 10-P-130

Pump Number: 2

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

Job Supply Amounts

Supply Item Des	Unit Label	Received	Consumed	Cum On Loc
Diesel Fuel	gal us	6,958		6,958

Mud Additive Amounts

Des	Consumed	Cum Cons
Bentone 910	20	43
BULK TANK	2	94
BULK TANK BLOWERS	2	70
Lime	38	150
MUD ENGINEER	1	47
MUD LAB	1	39
New Bar (Ton/bulk)	24	133
Sawdust	12	17
Strata Vanguard M	30	30
Tax	668	10,614

Safety Summary

BOP Test Date	Last BOP Test	BOP Func Due	HSE Incident	HSE Inc Remark

10/29/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 10/29/2010
REPORT: 64
DOL: 62.77
DFS: 36.60

Rig Name: NABORS DRILLING 169

Depth Progress: 109.00

Daily Summary

BHA #14 , Steerable

Bit Run	Drill Bit	Bit Type	Make
4 RR#12	12 1/4in, HCD505ZX, 7015752	PDC	Hughes

Nozzles (1/32")	IADC Codes	IADC Bit Dull
22/22/22/22/22/22/22	M323	-------

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)
2.60	87.35	1,392.00

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)
10.20	109.00	10.7	5,644.0	5,753.0

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
					5,752.00
140	Drill Pipe	5	4.276	4,379.00	5,752.00
7	HWDP	5	3.000	215.16	1,373.00
1	Jars	6 3/8	2.875	32.57	1,157.84
19	HWDP	5	3.000	583.54	1,125.27
1	X/O	6 3/8	2.813	3.57	541.73
9	6-1/2" DC's	6 1/2	2.875	276.70	538.16
1	X/O	6 1/2	2.813	2.92	261.46
6	8" DC's	8	2.875	183.85	258.54
1	Mechanical Thruster	8	3.563	26.78	74.69
1	Filter Sub	8	2.875	4.88	47.91
1	Float Sub	8 1/16	2.938	2.49	43.03
1	XO Sub	8 1/4	3.000	3.12	40.54
1	Stop Sub	9 1/2	3.500	1.46	37.42
1	9-1/2" True Trak, Adjustable Pads w/ Stab	9 1/2		35.96	35.96
		9 1/2			0.00

Drilling Parameters

5,644.0 - 5,753.0 ftKB

Start (ftKB)	End Depth...	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note
5,644.0	5,753.0	10.7	30			628	2,400.0	

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100...	SO Str Wt (100...	Drill Str Wt (100...	Torque Units	Drilling Torque	Off Btm Tq
10.20	8.20	196	196	166			

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/...	Max Open Hole AV (ft...

Casing Strings

Prop Run?	Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
Yes	Conductor	105.0	105.0	30	ERW	118.00		
Yes	Surface	4,345.0	4,344.6	13 3/8	K-55	68.00		

Plug Back Total Depths

Date	Depth (ftKB)	Type	Method

Deviation Surveys

Tru-Trak, Proposed? No

Date	Description	Job
9/23/2010	Tru-Trak	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
10/15/2010	5,324.00	0.18		5,323.61				
10/15/2010	5,419.00	0.09		5,418.61				
10/15/2010	5,512.00	0.35		5,511.61				
10/15/2010	5,606.00	0.26		5,605.61				
10/15/2010	5,707.00	0.09		5,706.61				

Formations

Formation Name	Final Top MD (ftKB)
Quaternary	
Tertiary Volcanic	
Tertiary Undivided	
North Horn	
UNCONFORMITY	
Arapien	
FAULT	
Arapien	
Twin Creek	
Gypsum Sprgs Mbr	
Navajo	
Chinle	
TD	

Safety Summary

10/29/2010

PIONEER NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 10/30/2010
REPORT: 65
DOL: 63.77
DFS: 37.60

Rig Name: NABORS DRILLING 169

Depth Progress: 175.00

Daily Summary

Property Sub	Field Name	API/UWI	Spud Date
327560-001	WILDCAT	43-023-30021-0000	9/22/2010

KB-Ground Distance (ft)	Original KB Elevation (ft)	KB-Mud Line Distance (ft)
25.00	5,264.00	

Daily Operations

Target Depth (ftKB)	Target Depth (TVD) (ftKB)	End Depth (ftKB)	End Depth (TVD) (ftKB)
9,040.0		5,928.0	

Footage/Meterage (ft)	24 HR ROP (ft/hr)	Drilling Hours (hr)
175.00	10.1	17.25

Avg Connection Gas	Avg Trip Gas	Avg Background Gas	Max Connection Gas	Max Trip Gas	Max Drill Gas
0.00	0.00	23.00	0.00	0.00	

Operations at Report Time
Drilling at 5928'

Operations Summary
Rig srvc, Replace pop-off nails, drill 5753'-5833', back flush charger pump, tighten mud pump cap gaskets, drill, drill from 5833'-5836', lost approx 100 bbls mud, pump sweeps, circ, drill from 5836'-5926'. Losses slowed to 8-10bbls/hr. Estimated Total mud losses to formation 395bbls.

Remarks
No Incidents, No Accidents, No Spills.
Finished converting water pit to OBM cuttings pit: 20 mil liner installed, entrance ramp cut, dirt pad in bottom

Operations Next Report Period
Drill Ahead 12 1/4" Hole

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com
06:00	06:30	0.50	RIGSER	PP	Rig Service
06:30	07:00	0.50	U_RIG	PN	Replace nails in pop-off, #2 mud pump
07:00	12:45	5.75	SLDDRLG	PP	Slide Drill from 5753' to 5833', pumps 88X88 spm, 614 gpm, 2530-2710 psi, WOB 18-32K, bit 98 rpm. Cut mwt from 10.0 to 9.6 ppg Drilled 80', on bottom drilling time 5.6 hrs, avg ROP 14.3'/hr Total on bottom sliding time = 5.6 hrs + 10.25 hrs = 15.85 hrs Cut mwt from 10.0 to 9.8 ppg, while drilling 5753'-5763'. Cut mwt from 9.8 to 9.6 ppg, while drilling 5800'-5820'. Pump 25 bbl, 10 ppb, Vanguard, LCM sweeps as needed. 5828'-5833, Losses of approx, 55 bbls Sync Tru-trak: bring pumps on line 50X50 spm, inc pump rate to 95X95. Fms: 5740'-5800', 90-95% Shale, 5-10 Sand Fms: 5800'-5820', 85% Sand, 10% Shale, 5% Lime
12:45	13:30	0.75	U_RIG	PN	Charger pump on #1 Mud pump, not keeping prime, back flush. Tighten center & #1 discharge cap gaskets, #2 pump
13:30	13:45	0.25	SLDDRLG	PP	Slide Drill from 5833' to 5836', pumps 88X88 spm, 614 gpm, 2530-2710 psi, WOB 18-32K, bit 98 rpm. Cut mwt from 10.0 to 9.6 ppg Drilled 3', on bottom drilling time .25 hrs, avg ROP 12'/hr Total on bottom sliding time = .25 hrs + 15.85 hrs = 16.1 hrs Cut mwt back from 10.0 to 9.8 ppg, while drilling 5753'-5763'. Cut mwt back from 9.8 to 9.6 ppg, while drilling 5800'-5820'. Pump 25 bbl, 15 ppb, Vanguard, LCM sweeps as needed. 5833'-5836, Losses of approx, 130 bbls Sync Tru-trak: bring pumps on line 50X50 spm, inc pump rate to 95X95.
13:45	17:45	4.00	CIRC	PP	Lost approx 60 bbls in 20 sec, reduced pumps to 35x35, 244 gpm, 470 psi, mix & pump (1) 60 bbl & (1) 25 bbl, 10 ppb, Vanguard, LCM pill. Losses slowed to appro 10 bbls/hr. Losses stopped after 1 hr. Stabilizing mwt at 9.4 ppg. Take slow pump rates (see pump checks).
17:45	06:00	12.25	SLDDRLG	PP	Slide Drill from 5836' to 5928', pumps 90X90 spm, 628 gpm, 2100-2200psi, WOB 26-32K, bit 101 rpm. Mwt 9.7 ppg Drilled 92', on bottom drilling time 11.75 hrs, avg ROP 7.8'/hr Total on bottom sliding time = 11.75 hrs + 16.1 hrs = 27.85 hrs Pump 25 bbl, 15 ppb, Vanguard, LCM sweeps as needed. 5836'-5928', Losses of approx, 10-15 bbls per hr Sync Tru-trak: bring pumps on line 50X50 spm, inc pump rate to 90X90. Fms: 5836'-5900', 80% Shale, 20% Sandstone

Mud Properties

Daily Cost: 30,978.94 Cost Cum Cost: 274,727.70 Cost

Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	T Flowline (°F)
03:00	Oil Base	5,753.0	9.80	42	

PV (cp)	YP (lbf/100ft²)	Filtrate (mL/30min)	HTHP Filtrate (mL/30...	HTHP Pressure (psi)	HTHP Temperature (°F)
11.0	14.000		5.0		250.0

Solids (%)	Sand (%)	MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)
13.0					

Chlorides (ppm)	Calcium (ppm)	Oil Water Ratio	Electric Stab (V)	Lime (lb/bbl)	Low Gravity Solids (%)
		80.5/19.5	740.0	4.0	7.3

Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Comment
10.000	12.000	

Bottom Hole Assembly

BHA Since Insp (hr)	BHA Wt BelowJar (1000lbf)	Hrs on Jars (hr)

Total AFE + Sup (Cost): 9,064,000.00

AFE Job Cost Summary

Cost Type	AFE Amt (Cost)
DHC	7,600,000.00
CWC	1,464,000.00

Field Estimate Job Cost Summary

Cost Type	Field Est (Cost)
DHC	4,907,953.15

Daily Summary

Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
85,948.75	4,912,632.55

Daily Mud Field Est (Cost)	Cum Mud Field Est (Cost)
30,978.94	274,727.70

POL (Personnel on Location): 26.0

Daily Contacts

Job Contact	Title
Dean Baker	Sr. Drlg. Foreman
Derrick Berry	Drlg. Foreman

Personnel Log

Company	Count
PIONEER NATURAL RESOURCES	1
PIONEER NATURAL RESOURCES	1
NABORS DRILLING INC	2
NABORS DRILLING INC	13
BAKER HUGHES INTEQ	2
ZECO	2
SELMA	2
NEWPARK	1
BADLANDZER	2

Weather

Precipitation Amount (in)	Precipitation Type

Temperature - High (°F)	Temperature - Low (°F)

Comment

NABORS DRILLING, 169

Rig Type: Drilling - Triple

Rig Start Date	Rig Release Date
9/22/2010	

1, National Supply, 10-P-130

Pump Number: 1

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)
Yes	221.0	50	166	95
Yes	290.0	60	199	95
Yes	170.0	40	133	95

2, National Supply, 10-P-130

Pump Number: 2

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)
Yes	165.0	40	133	95
Yes	210.0	50	166	95
Yes	280.0	60	199	95

Job Supply Amounts

Supply Item Des	Unit Label	Received	Consumed	Cum On Loc
Diesel Fuel	gal us	6,958		6,958

Mud Additive Amounts

Des	Consumed	Cum Cons
Bentone 910	21	64
BULK TANK	2	96
BULK TANK BLOWERS	2	72
Dyna Fiber Cor	19	539
Gilsonite HT	2	50
Lime	32	182
MUD ENGINEER	1	48
MUD LAB	1	40

Safety Summary

BOP Test Date	Last BOP Test	BOP Func Due	HSE Incident	HSE Inc Remark
03/Nov/2010	13/Oct/2010	26/Oct/2010		

10/30/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 10/30/2010
REPORT: 65
DOL: 63.77
DFS: 37.60

Rig Name: NABORS DRILLING 169

Depth Progress: 175.00

Daily Summary

BHA #14 , Steerable

Bit Run	Drill Bit	Bit Type	Make
4 RR#12	12 1/4in, HCD505ZX, 7015752	PDC	Hughes

Nozzles (1/32")	IADC Codes	IADC Bit Dull
22/22/22/22/22/22/22	M323	-------

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)
2.60	104.60	1,567.00

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)
27.45	284.00	10.3	5,644.0	5,928.0

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
					5,927.00
146	Drill Pipe	5	4.276	4,554.00	5,927.00
7	HWDP	5	3.000	215.16	1,373.00
1	Jars	6 3/8	2.875	32.57	1,157.84
19	HWDP	5	3.000	583.54	1,125.27
1	X/O	6 3/8	2.813	3.57	541.73
9	6-1/2" DC's	6 1/2	2.875	276.70	538.16
1	X/O	6 1/2	2.813	2.92	261.46
6	8" DC's	8	2.875	183.85	258.54
1	Mechanical Thruster	8	3.563	26.78	74.69
1	Filter Sub	8	2.875	4.88	47.91
1	Float Sub	8 1/16	2.938	2.49	43.03
1	XO Sub	8 1/4	3.000	3.12	40.54
1	Stop Sub	9 1/2	3.500	1.46	37.42
1	9-1/2" True Trak, Adjustable Pads w/ Stab	9 1/2		35.96	35.96

Drilling Parameters

5,753.0 - 5,928.0 ftKB

Start (ftKB)	End Depth...	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note
5,753.0	5,928.0	10.1	28			628	2,150.0	

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100...	SO Str Wt (100...	Drill Str Wt (100...	Torque Units	Drilling Torque	Off Btm Tq
17.25	5.75	201	201	175			

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/...	Max Open Hole AV (ft...

Casing Strings

Prop Run?	Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
Yes	Conductor	105.0	105.0	30	ERW	118.00		
Yes	Surface	4,345.0	4,344.6	13 3/8	K-55	68.00		

Plug Back Total Depths

Date	Depth (ftKB)	Type	Method

Deviation Surveys

Tru-Trak, Proposed? No

Date	Description	Job
9/23/2010	Tru-Trak	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
10/15/2010	5,419.00	0.09		5,418.61				
10/15/2010	5,512.00	0.35		5,511.61				
10/15/2010	5,606.00	0.26		5,605.61				
10/15/2010	5,707.00	0.09		5,706.61				
10/15/2010	5,802.00	0.09		5,801.60				

Mud Additive Amounts

Des	Consumed	Cum Cons
New Bar	34	252
NewPHPA	5	26
Opti-Mul	2	13
Opti-Plus	2	8
Opti-Vis	2	7
Sawdust	3	20
Strata Vanguard M	65	95
Tax	1,314	11,928
Trucking	7,265	46,285
Wallnut Shell M	9	660

Formations

Formation Name	Final Top MD (ftKB)
Quaternary	
Tertiary Volcanic	
Tertiary Undivided	
North Horn	
UNCONFORMITY	
Arapien	
FAULT	
Arapien	
Twin Creek	
Gypsum Sprgs Mbr	
Navajo	
Chinle	
TD	

Safety Summary

10/30/2010

PIONEER NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 10/31/2010
REPORT: 66
DOL: 64.69
DFS: 38.60

Rig Name: NABORS DRILLING 169

Depth Progress: 30.00

Daily Summary

Property Sub	Field Name	API/UWI	Spud Date
327560-001	WILDCAT	43-023-30021-0000	9/22/2010

KB-Ground Distance (ft)	Original KB Elevation (ft)	KB-Mud Line Distance (ft)
25.00	5,264.00	

Daily Operations

Target Depth (ftKB)	Target Depth (TVD) (ftKB)	End Depth (ftKB)	End Depth (TVD) (ftKB)
9,040.0		5,958.0	

Footage/Meterage (ft)	24 HR ROP (ft/hr)	Drilling Hours (hr)
30.00	16.2	1.85

Avg Connection Gas	Avg Trip Gas	Avg Background Gas	Max Connection Gas	Max Trip Gas	Max Drill Gas
0.00	0.00	11.00	0.00	0.00	

Operations at Report Time
On Btm Circ. Hole, Stabilize mwt @ 9.1

Operations Summary
Drill from 5928'-5958', Lost returns, POOH to 4303', Wait on Base Oil, Offload 436 bbls into mud tanks, 564 bbls into frac tanks. Build 9.1 ppg, in mud tanks. Circ hole, stabilize mwt @ 9.1 ppg. RIH to 5928', circ hole, stabilize mwt at 9.1 ppg and condition mud.

Remarks
No Incidents, No Accidents, No Spills.
Received total of 1000 bbls, Base oil

Total OBM lost downhole: 2016 bbls, as of 1800 hrs, 30/Oct

14-28/Oct, RNI Trucking delivered 3741 bbls, OBM: 901 bbls, 15.4 ppg; 1440 bbls, 10.5 ppg; 1400 bbls, Base oil

Operations Next Report Period
Stabilize mst to 9.1, Drill 12 1/4" Hole

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com
06:00	08:30	2.50	SLDDRLG	PP	Slide Drill from 5928' to 5958', pumps 90X90 spm, 628 gpm, 2250-2500 psi, WOB 26-37K, bit 101 rpm. Mwt 10.3 ppg Drilled 30', on bottom drilling time = 1.85 hrs, avg ROP = 16.2'/hr Total on bottom sliding time = 1.85 hrs + 27.85 hrs = 29.7 hrs Mwt 10.3 ppg (diluting 11.2 ppg, w/ straight diesel, cannot keep up) Pump 25 bbl, 15 ppb, Vanguard, LCM sweeps as needed. 5928'-5958', Losses of approx, 60 bbls Fms: 5900'-5940', 80-90% Sandy/Silty Shale , 10-20% Limestone From 0600 to 0800, losses were approx 20-30 bbls per hour, drilling. From 0800 to 0830, lost approx 60 bbls, drilling.
08:30	09:00	0.50	U_LC	PN	Circ with 1 pump, 40 spm. Mwt 10.3 ppg (diluting 11.2 ppg w/ straight diesel, cannot keep up) Lost approx 90 bbls in 25 min. Out of Base Oil & mud products to build OBM. Using straight diesel to make base oil. Have 400 bbls, 15.4 ppg, OBM, in 1 frac tank. Have 65 bbls, 13.2 ppg, OBM, in 1 frack tank Have 800 bbls in surface system - includes active circ system, sand traps, settling tank & trip tank Received 6000 gals diesel for OBM tank.. Waiting on 1000 bbls Base Oil. Problem getting Certified Hazmat drivers (that are not over their on duty hour limit), to drive.
09:00	10:30	1.50	U_LC	PN	POOH from 5958' to 4303', DP pulled dry, no hole problems. Fill annulus w/ trip tank, 60 bbls = 479', equates to 9.4 ppg.
10:30	18:45	8.25	U_LC	PN	Engage TDS, monitor well on trip tank. Wait on base oil & mud products.
18:45	21:45	3.00	U_LC	PN	Offload 500 bbls, Base oil, from RNI Trucking, directly into mud tanks. Build 564 bbls, 9.1+/- ppg, OBM. Offload 500 bbls, Base oil, into frac tanks. Received total of 1000 bbls, Base oil. 1st truck arrived at 18:45 hrs (trucks delayed due to snow storm).
21:45	02:15	4.50	U_LC	PN	Circ hole @ 4300', stabilize mwt at 9.1+/- ppg, 40 spm, 139 gpm, 350 psi.
02:15	02:45	0.50	RIGSER	PP	Rig Service, Changed out dies on TDS.
02:45	04:45	2.00	U_LC	PN	RIH from 4300' to 5929'. Filled pipe @ 5000'. Hole Free and Clear No Fill
04:45	06:00	1.25	CIRC	PP	Circ. Hole @ 5929', mwt out 8.9ppg, mwt in 9.6ppg, stabilizing mwt at 9.1+/- ppg, 100 spm, 349 gpm, 750 psi, Pump 30 bbl, 15 ppb, Vanguard, LCM sweep

Total AFE + Sup (Cost): 9,064,000.00

AFE Job Cost Summary

Cost Type	AFE Amt (Cost)
DHC	7,600,000.00
CWC	1,464,000.00

Field Estimate Job Cost Summary

Cost Type	Field Est (Cost)
DHC	5,118,073.27

Daily Summary

Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
178,478.93	5,122,752.67
Daily Mud Field Est (Cost)	**Cum Mud Field Est (Cost)**
11,534.93	286,262.63

POL (Personnel on Location): 26.0

Daily Contacts

Job Contact	Title
Dean Baker	Sr. Drlg. Foreman
Derrick Berry	Drlg. Foreman

Personnel Log

Company	Count
PIONEER NATURAL RESOURCES	1
PIONEER NATURAL RESOURCES	1
NABORS DRILLING INC	2
NABORS DRILLING INC	13
BAKER HUGHES INTEQ	2
ZECO	2
SELMA	2
NEWPARK	1
BADLANDZER	2

Weather

Precipitation Amount (in)	Precipitation Type
Temperature - High (°F)	**Temperature - Low (°F)**

Comment

NABORS DRILLING, 169

Rig Type: Drilling - Triple

Rig Start Date	Rig Release Date
9/22/2010	

1, National Supply, 10-P-130

Pump Number: 1

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

2, National Supply, 10-P-130

Pump Number: 2

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

Job Supply Amounts

Supply Item Des	Unit Label	Received	Consumed	Cum On Loc
Diesel Fuel	gal us	6,958		6,958

Mud Additive Amounts

Des	Consumed	Cum Cons
Bentone 910	18	82
BULK TANK	2	98
BULK TANK BLOWERS	2	74
Drum Disposal	8	40
Gilsonite HT	4	54
Lime		182
MUD ENGINEER	1	49
MUD LAB	1	41
NewPac R	-20	0
Opti-Mul	2	15
Opti-Plus	2	10
Opti-Vis	1	8

Safety Summary

BOP Test Date	Last BOP Test	BOP Func Due	HSE Incident	HSE Inc Remark
03/Nov/2010	13/Oct/2010	26/Oct/2010		

PIONEER NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 10/31/2010
REPORT: 66
DOL: 64.69
DFS: 38.60

Rig Name: NABORS DRILLING 169

Depth Progress: 30.00

Daily Summary

Mud Properties

Daily Cost: 11,534.93 Cost Cum Cost: 286,262.63 Cost

Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	T Flowline (°F)
03:00	Oil Base	5,958.0	9.40	40	

PV (cp)	YP (lbf/100ft²)	Filtrate (mL/30min)	HTHP Filtrate (mL/30…	HTHP Pressure (psi)	HTHP Temperature (°F)
12.0	8.000		7.0		250.0

Solids (%)	Sand (%)	MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)
9.0					

Chlorides (ppm)	Calcium (ppm)	Oil Water Ratio	Electric Stab (V)	Lime (lb/bbl)	Low Gravity Solids (%)
		81.3/18.7	335.0	2.5	1.8

Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Comment
5.000	6.000	

Bottom Hole Assembly

BHA Since Insp (hr)	BHA Wt BelowJar (1000lbf)	Hrs on Jars (hr)

BHA #14 , Steerable

Bit Run	Drill Bit	Bit Type	Make
4 RR#12	12 1/4in, HCD505ZX, 7015752	PDC	Hughes

Nozzles (1/32")	IADC Codes	IADC Bit Dull
22/22/22/22/22/22/22	M323	-------

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)
2.60	106.45	1,597.00

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)
29.30	314.00	10.7	5,644.0	5,958.0

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
					5,927.00
146	Drill Pipe	5	4.276	4,554.00	5,927.00
7	HWDP	5	3.000	215.16	1,373.00
1	Jars	6 3/8	2.875	32.57	1,157.84
19	HWDP	5	3.000	583.54	1,125.27
1	X/O	6 3/8	2.813	3.57	541.73
9	6-1/2" DC's	6 1/2	2.875	276.70	538.16
1	X/O	6 1/2	2.813	2.92	261.46
6	8" DC's	8	2.875	183.85	258.54
1	Mechanical Thruster	8	3.563	26.78	74.69
1	Filter Sub	8	2.875	4.88	47.91
1	Float Sub	8 1/16	2.938	2.49	43.03
1	XO Sub	8 1/4	3.000	3.12	40.54
1	Stop Sub	9 1/2	3.500	1.46	37.42
1	9-1/2" True Trak, Adjustable Pads w/ Stab	9 1/2		35.96	35.96

Drilling Parameters

5,928.0 - 5,958.0 ftKB

Start (ftKB)	End Depth…	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note
5,928.0	5,958.0	16.2						

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100…	SO Str Wt (100…	Drill Str Wt (100…	Torque Units	Drilling Torque	Off Btm Tq
1.85		203	203				

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/…	Max Open Hole AV (ft…

Casing Strings

Prop Run?	Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
Yes	Conductor	105.0	105.0	30	ERW	118.00		
Yes	Surface	4,345.0	4,344.6	13 3/8	K-55	68.00		

Plug Back Total Depths

Date	Depth (ftKB)	Type	Method

Deviation Surveys

Tru-Trak, Proposed? No

Date	Description	Job
9/23/2010	Tru-Trak	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
10/15/2010	5,419.00	0.09		5,418.61				
10/15/2010	5,512.00	0.35		5,511.61				
10/15/2010	5,606.00	0.26		5,605.61				
10/15/2010	5,707.00	0.09		5,706.61				
10/15/2010	5,802.00	0.09		5,801.60				

Mud Additive Amounts

Des	Consumed	Cum Cons
Pallets	-8	45
Shrink Wrap	10	45
Strata Vanguard M	30	125
Tax	572	12,500
Trucking	921	47,206

Formations

Formation Name	Final Top MD (ftKB)
Quaternary	
Tertiary Volcanic	
Tertiary Undivided	
North Horn	
UNCONFORMITY	
Arapien	
FAULT	
Arapien	
Twin Creek	
Gypsum Sprgs Mbr	
Navajo	
Chinle	
TD	

Safety Summary

10/31/2010

PIONEER NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 11/1/2010
REPORT: 67
DOL: 65.67
DFS: 39.60

Rig Name: NABORS DRILLING 169

Depth Progress: 2.00

Daily Summary

Property Sub	Field Name	API/UWI	Spud Date
327560-001	WILDCAT	43-023-30021-0000	9/22/2010

KB-Ground Distance (ft)	Original KB Elevation (ft)	KB-Mud Line Distance (ft)
25.00	5,264.00	

Daily Operations

Target Depth (ftKB)	Target Depth (TVD) (ftKB)	End Depth (ftKB)	End Depth (TVD) (ftKB)
9,040.0		5,960.0	

Footage/Meterage (ft)	24 HR ROP (ft/hr)	Drilling Hours (hr)
2.00	10.0	0.20

Avg Connection Gas	Avg Trip Gas	Avg Background Gas	Max Connection Gas	Max Trip Gas	Max Drill Gas
0.00	0.00	11.00	0.00	0.00	

Operations at Report Time
Monitor annulus on trip tanks

Operations Summary
Circ & cond mud, stabilize mwt @ 9.1+ ppg, could not get Tru-trak to sync, drill from 5958'-5960', could not get Tru-trak to sync, TOOH, change rotating head bushing, install trip nipple, derrick off center - having to pull bushings, P/U and M/U new tru-track and 12 1/4" PDC bit (HCD506ZX), RIH to 1400', Pumped 114 bbls before establishing returns, lost 103 bbls to formation, Fill trip tank and monitor annulus on Trip tank.

Remarks
No Incidents, No Accidents, No Spills.
MI: Stand alone -- Continental Emsco F-1000, Triplex mud pump w/ D-398 Cat (fuel line, suction & discharge lines will have to be installed)

Finish installing platform over mud sack/hopper house

Dozer cut out & leveled area (behind frac tanks) to set pre-mix tank.
Badlanderz M/I & set 400 bbl, pre-mix tank

Operations Next Report Period
Monitor annulus, TIH, Drill 12 1/4" Hole

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com
06:00	14:30	8.50	U_LC	PN	Circ. Hole @ 5929', reduce mwt from 9.6 to 9.2 ppg, increase vis to 42, work on rehological properties, pumps 50X50 spm, 349 gpm, 810 psi. Lost approx 25 bbls (0600-0815 hrs), Pump (2) 30 bbl, 15 ppb, Vanguard, LCM sweeps
14:30	15:45	1.25	U_DIR	PN	Tru-trak would not pulse, re-cycle pumps 4 times 100X100 spm, 698 gpm
15:45	16:00	0.25	SLDDRLG	PP	Slide Drill from 5958' to 5960', without Tru-trak sync'd, pumps 100X100 spm, 788 gpm, 3260 psi, WOB 34K, bit 126 rpm. Drilled 2', on bottom drilling time = .2 hrs, avg ROP = 10'/hr Total on bottom sliding time = .2 hrs + 29.7 hrs = 29.9 hrs Drill from 5958'-5960, without Tru-trak sync'd. DD electronically sent data to BHI tech support, to analyze data. Tech support stated tool is dead.
16:00	16:15	0.25	U_MWD	PN	POOH from 5960'-5918', Break out stand & TDS, mouse hole stand, pull DP screen, was full of LCM.
16:15	16:30	0.25	U_OTR	PN	M/U TDS, Tru-trak would not sync, re-cycle pumps 2 times, 100X100 spm, 698 gpm.
16:30	21:00	4.50	U_DIR	PN	TOOH from 5918'-Tru-trak, Circ while mixing slug, pump slug, pull rotating head bushing, install trip nipple @ 4106'. Problems with derrick being off-center (pipe running to the rear of the bushings), having to pull bushings every stand.
21:00	00:30	3.50	U_DIR	PN	Break out bit, Tru-trak motor, Thruster & filter sub, Clean out LCM L/D Thruster & motor., Bit graded as a 2-2.
00:30	01:45	1.25	U_DIR	PN	P/U & M/U Thruster, new Tru-trak motor, new 12-1/4", HCD506ZX, PDC bit - SN: 7021592, 6X22 Nozzles
01:45	04:00	2.25	U_DIR	PN	TIH w/ 8" and 6" DC's to 577'
04:00	04:30	0.50	RIGSER	PP	S/D Mechanic inspected dynomatic linkage, and made adjustment until linkage parts arrive.
04:30	06:00	1.50	U_DIR	PN	TIH to 1400' Fill Pipe, pumped 113 bbls and established returns. Lost 103 bbls to Hole. S/D to fill backside w/ Trip tank to monitor Annulus.

Mud Properties

Daily Cost: 12,743.32 Cost Cum Cost: 299,005.95 Cost

Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	T Flowline (°F)
03:00	Oil Base	5,960.0	9.10	43	

PV (cp)	YP (lbf/100ft²)	Filtrate (mL/30min)	HTHP Filtrate (mL/30...	HTHP Pressure (psi)	HTHP Temperature (°F)
10.0	18.000		4.5		250.0

Solids (%)	Sand (%)	MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)
10.0					

Chlorides (ppm)	Calcium (ppm)	Oil Water Ratio	Electric Stab (V)	Lime (lb/bbl)	Low Gravity Solids (%)
		80/20	701.0	4.3	6.3

Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Comment
9.000	11.000	

Bottom Hole Assembly

BHA Since Insp (hr)	BHA Wt BelowJar (1000lbf)	Hrs on Jars (hr)

BHA #14 , Steerable

Bit Run	Drill Bit	Bit Type	Make
4 RR#12	12 1/4in, HCD505ZX, 7015752	PDC	Hughes

Nozzles (1/32")	IADC Codes	IADC Bit Dull
22/22/22/22/22/22/22	M323	-------

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)
2.60	106.65	1,599.00

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)
29.50	316.00	10.7	5,644.0	5,960.0

Total AFE + Sup (Cost): 9,064,000.00

AFE Job Cost Summary

Cost Type	AFE Amt (Cost)
DHC	7,600,000.00
CWC	1,464,000.00

Field Estimate Job Cost Summary

Cost Type	Field Est (Cost)
DHC	5,201,712.27

Daily Summary

Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
83,639.00	5,206,391.67
Daily Mud Field Est (Cost)	**Cum Mud Field Est (Cost)**
12,743.32	299,005.95

POL (Personnel on Location): 27.0

Daily Contacts

Job Contact	Title
Dean Baker	Sr. Drlg. Foreman
Derrick Berry	Drlg. Foreman

Personnel Log

Company	Count
PIONEER NATURAL RESOURCES	1
PIONEER NATURAL RESOURCES	1
NABORS DRILLING INC	2
NABORS DRILLING INC	12
BAKER HUGHES INTEQ	2
ZECO	4
SELMA	2
NEWPARK	1
BADLANDZER	2

Weather

Precipitation Amount (in)	Precipitation Type
Temperature - High (°F)	**Temperature - Low (°F)**

Comment

NABORS DRILLING, 169

Rig Type: Drilling - Triple

Rig Start Date	Rig Release Date
9/22/2010	

1, National Supply, 10-P-130

Pump Number: 1

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

2, National Supply, 10-P-130

Pump Number: 2

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

Job Supply Amounts

Supply Item Des	Unit Label	Received	Consumed	Cum On Loc
Diesel Fuel	gal us	6,958		6,958

Mud Additive Amounts

Des	Consumed	Cum Cons
Bentone 910	18	100
BULK TANK	2	100
BULK TANK BLOWERS	2	76
Dyna Fiber Cor	15	554
Gilsonite HT	8	62
Lime	20	202
MUD ENGINEER	1	50
MUD LAB	1	42
New Bar (Ton/bulk)	27	161
Opti-Mul	2	17
Opti-Plus	2	12
OptiVis RM	24	24

Safety Summary

BOP Test Date	Last BOP Test	BOP Func Due	HSE Incident	HSE Inc Remark
03/Nov/2010	13/Oct/2010	1-Nov-2010		

11/1/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 11/1/2010
REPORT: 67
DOL: 65.67
DFS: 39.60

Rig Name: NABORS DRILLING 169

Depth Progress: 2.00

Daily Summary

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
					5,927.00
146	Drill Pipe	5	4.276	4,554.00	5,927.00
7	HWDP	5	3.000	215.16	1,373.00
1	Jars	6 3/8	2.875	32.57	1,157.84
19	HWDP	5	3.000	583.54	1,125.27
1	X/O	6 3/8	2.813	3.57	541.73
9	6-1/2" DC's	6 1/2	2.875	276.70	538.16
1	X/O	6 1/2	2.813	2.92	261.46
6	8" DC's	8	2.875	183.85	258.54
1	Mechanical Thruster	8	3.563	26.78	74.69
1	Filter Sub	8	2.875	4.88	47.91
1	Float Sub	8 1/16	2.938	2.49	43.03
1	XO Sub	8 1/4	3.000	3.12	40.54
1	Stop Sub	9 1/2	3.500	1.46	37.42
1	9-1/2" True Trak, Adjustable Pads w/ Stab	9 1/2		35.96	35.96

Drilling Parameters

5,958.0 - 5,960.0 ftKB

Start (ftKB)	End Depth...	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note
5,958.0	5,960.0	10.0	34			788	3,260.0	

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100...	SO Str Wt (100...	Drill Str Wt (100...	Torque Units	Drilling Torque	Off Btm Tq
0.20	10.00	214	214	180			

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/...	Max Open Hole AV (ft...

BHA #15 , Steerable

Bit Run	Drill Bit	Bit Type	Make
1	12 1/4in, HCD506ZX, 7021592	PDC	Hughes

Nozzles (1/32")	IADC Codes	IADC Bit Dull
22/22/22/22/22/22	M323	-------

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)
2.23		

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)
			5,960.0	5,960.0

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
					1,398.06
1	Drill Pipe	5	4.276	25.00	1,398.06
7	HWDP	5	3.000	215.16	1,373.06
1	Jars	6 3/8	2.875	32.57	1,157.90
19	HWDP	5	3.000	583.54	1,125.33
1	X/O	6 3/8	2.813	3.57	541.79
9	6-1/2" DC's	6 1/2	2.875	276.70	538.22
1	X/O	6 1/2	2.813	2.92	261.52
6	8" DC's	8	2.875	183.85	258.60
1	Mechanical Thruster	8	3.563	26.78	74.75
1	Filter Sub	8	2.875	4.88	47.97
1	Float Sub	8 1/16	2.938	2.49	43.09
1	XO Sub	8 1/4	3.000	3.12	40.60
1	Stop Sub	9 1/2	3.500	1.46	37.48
1	9-1/2" True Trak, Adjustable Pads w/ Stab	9 1/2		36.02	36.02

Drilling Parameters

5,960.0 - 5,960.0 ftKB

Start (ftKB)	End Depth...	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note
5,960.0	5,960.0					175	100.0	

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100...	SO Str Wt (100...	Drill Str Wt (100...	Torque Units	Drilling Torque	Off Btm Tq
0.00	1.00						

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/...	Max Open Hole AV (ft...

Casing Strings

Prop Run?	Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
Yes	Conductor	105.0	105.0	30	ERW	118.00		
Yes	Surface	4,345.0	4,344.6	13 3/8	K-55	68.00		

Plug Back Total Depths

Date	Depth (ftKB)	Type	Method

Deviation Surveys

Tru-Trak, Proposed? No

Date	Description	Job
9/23/2010	Tru-Trak	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
10/15/2010	5,419.00	0.09		5,418.61				
10/15/2010	5,512.00	0.35		5,511.61				
10/15/2010	5,606.00	0.26		5,605.61				

Mud Additive Amounts

Des	Consumed	Cum Cons
Opti-Wet	1	4
Tax	693	13,193

Formations

Formation Name	Final Top MD (ftKB)
Quaternary	
Tertiary Volcanic	
Tertiary Undivided	
North Horn	
UNCONFORMITY	
Arapien	
FAULT	
Arapien	
Twin Creek	
Gypsum Sprgs Mbr	
Navajo	
Chinle	
TD	

Safety Summary

11/1/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Daily Drilling Report

Well Name: South Hills 6-1

Rig Name: NABORS DRILLING 169

Depth Progress: 2.00

REPORT DATE: 11/1/2010
REPORT: 67
DOL: 65.67
DFS: 39.60

Daily Summary

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
10/15/2010	5,707.00	0.09		5,706.61				
10/15/2010	5,802.00	0.09		5,801.60				

Safety Summary

11/1/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 11/2/2010
REPORT: 68
DOL: 66.67
DFS: 40.60

Rig Name: NABORS DRILLING 169

Depth Progress: 0.00

Daily Summary

Property Sub	Field Name	API/UWI	Spud Date
327560-001	WILDCAT	43-023-30021-0000	9/22/2010

KB-Ground Distance (ft)	Original KB Elevation (ft)	KB-Mud Line Distance (ft)
25.00	5,264.00	

Daily Operations

Target Depth (ftKB)	Target Depth (TVD) (ftKB)	End Depth (ftKB)	End Depth (TVD) (ftKB)
9,040.0		5,960.0	

Footage/Meterage (ft)	24 HR ROP (ft/hr)	Drilling Hours (hr)
0.00		

Avg Connection Gas	Avg Trip Gas	Avg Background Gas	Max Connection Gas	Max Trip Gas	Max Drill Gas
0.00	0.00	6.00	0.00	0.00	

Operations at Report Time
Circ. Hole on btm 5959'

Operations Summary
Monitor annulus on trip tank, hole took 115 bbls over 11.25 hrs, circ hole 1 pump, increasing to 2 pumps 100X100 spm. Lost total of 21 bbls. When shut down pumps, annulus staying full. TIH to 4247'. Level derrick and rig Service on Dynomatic on Drawworks. Circ. Hole at 4247', 1 pump, increasing to 2 pumps 100X100 spm. Lost total of 14 bbls. RIH tagged tight spot @ 5470', Break Circ., Wash from 5470', to btm @ 5960'. Circ. Hole on btm.

Remarks
No Incicents, No Accidents, No Spills Reported.

Operations Next Report Period
Drill 12 1/4" Hole

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com
06:00	17:15	11.25	U_LC	PN	Monitoring annulus with trip tank, Fill annulus every 30 min, hole took total of 115 bbls. Last 3.25 hrs hole took 2 bbls.
17:15	18:00	0.75	U_LC	PN	Circ, hole w/ 1 pump, 40 spm, inc to 95 spm, had approx 9 bbls losses, parallel pumps, 50X50 to 100X100 spm, had approx 12 bbls losses. At 90X90, Tru-trak pulsing & sync'd. Total losses 21 bbls
18:00	19:30	1.50	U_LC	PN	TIH from 1399'-4247'
19:30	01:00	5.50	U_RIG	PN	Repair Dwks dynamatic, while TIH brakes let go and string free fell, Mechanic inspected dynomatic with dail guage, had to shim up one side of dynomatic.
01:00	01:45	0.75	U_LC	PN	Circ, hole w/ 1 pump, 40 spm, inc to 95 spm, had approx 6 bbls losses, parallel pumps, 50X50 to 100X100 spm, had approx 8 bbls losses. Total losses 14 bbls in 45 mins Simops: Leveling Derrick
01:45	02:15	0.50	RIGSER	PP	Finish Leveling Derrick
02:15	02:45	0.50	U_LC	PN	Remove trip nipple and install Rotating head.
02:45	04:00	1.25	U_LC	PN	RIH from 4247' to 5470', Tagged tight hole @ 5470', Pull 1 stand, install string filter.
04:00	05:30	1.50	U_LC	PN	Wash from 5470' to btm @ 5960'. Pumps 90X90 spm, 628 gpm, 2100psi, hole free and clear with pumps on. No losses
05:30	06:00	0.50	U_LC	PN	Circ. Hole 5959' Pumps 90X90 spm, 628 gpm, 2300psi, No losses.

Mud Properties

Daily Cost: 10,019.65 Cost Cum Cost: 309,025.60 Cost

Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	T Flowline (°F)
03:00	Oil Base	5,960.0	9.00	46	

PV (cp)	YP (lbf/100ft²)	Filtrate (mL/30min)	HTHP Filtrate (mL/30...	HTHP Pressure (psi)	HTHP Temperature (°F)
11.0	16.000		5.5		250.0

Solids (%)	Sand (%)	MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)
10.0					

Chlorides (ppm)	Calcium (ppm)	Oil Water Ratio	Electric Stab (V)	Lime (lb/bbl)	Low Gravity Solids (%)
		80/20	665.0	3.9	7.1

Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Comment
9.000	10.000	

Bottom Hole Assembly

BHA Since Insp (hr)	BHA Wt BelowJar (1000lbf)	Hrs on Jars (hr)

BHA #15 , Steerable

Bit Run	Drill Bit	Bit Type	Make
1	12 1/4in, HCD506ZX, 7021592	PDC	Hughes

Nozzles (1/32")	IADC Codes	IADC Bit Dull
22/22/22/22/22/22	M323	-------

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)
2.23		

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)
			5,960.0	5,960.0

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
					5,994.06
49	Drill Pipe	5	4.276	4,621.00	5,994.06
7	HWDP	5	3.000	215.16	1,373.06
1	Jars	6 3/8	2.875	32.57	1,157.90
19	HWDP	5	3.000	583.54	1,125.33
1	X/O	6 3/8	2.813	3.57	541.79
9	6-1/2" DC's	6 1/2	2.875	276.70	538.22
1	X/O	6 1/2	2.813	2.92	261.52
6	8" DC's	8	2.875	183.85	258.60
1	Mechanical Thruster	8	3.563	26.78	74.75
1	Filter Sub	8	2.875	4.88	47.97
1	Float Sub	8 1/16	2.938	2.49	43.09
1	XO Sub	8 1/4	3.000	3.12	40.60

Total AFE + Sup (Cost)
9,064,000.00

AFE Job Cost Summary

Cost Type	AFE Amt (Cost)
DHC	7,600,000.00
CWC	1,464,000.00

Field Estimate Job Cost Summary

Cost Type	Field Est (Cost)
DHC	5,262,785.92

Daily Summary

Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
53,473.65	5,267,465.32
Daily Mud Field Est (Cost)	**Cum Mud Field Est (Cost)**
10,019.65	309,025.60

POL (Personnel on Location)
27.0

Daily Contacts

Job Contact	Title
Dean Baker	Sr. Drlg. Foreman
Noah Dupuis	Drlg. Foreman
Derrick Berry	Drlg. Foreman
Billy Vigil	Drilling Foreman

Personnel Log

Company	Count
PIONEER NATURAL RESOURCES	1
PIONEER NATURAL RESOURCES	1
NABORS DRILLING INC	2
NABORS DRILLING INC	12
BAKER HUGHES INTEQ	2
ZECO	4
SELMA	2
NEWPARK	1
BADLANDZER	2

Weather

Precipitation Amount (in)	Precipitation Type
Temperature - High (°F)	**Temperature - Low (°F)**

Comment

NABORS DRILLING, 169

Rig Type
Drilling - Triple

Rig Start Date	Rig Release Date
9/22/2010	

1, National Supply, 10-P-130

Pump Number
1

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

2, National Supply, 10-P-130

Pump Number
2

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

Job Supply Amounts

Supply Item Des	Unit Label	Received	Consumed	Cum On Loc
Diesel Fuel	gal us	6,958		6,958

Mud Additive Amounts

Des	Consumed	Cum Cons
		0
BULK TANK	2	102
BULK TANK BLOWERS	2	78
MUD ENGINEER	1	51
MUD LAB	1	43
New Bar (Ton/bulk)		161
New Carb Cor		0
Pallets		45
Shrink Wrap		45
Tax	14	13,207

Safety Summary

BOP Test Date	Last BOP Test	BOP Func Due	HSE Incident	HSE Inc Remark
10/Nov/2010	13/Oct/2010	1/Nov/2010		

11/2/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 11/2/2010
REPORT: 68
DOL: 66.67
DFS: 40.60

Rig Name: NABORS DRILLING 169

Depth Progress: 0.00

Daily Summary

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
1	Stop Sub	9 1/2	3.500	1.46	37.48
1	9-1/2" True Trak, Adjustable Pads w/ Stab	9 1/2		36.02	36.02

Drilling Parameters

5,960.0 - 5,960.0 ftKB

Start (ftKB)	End Depth...	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note
5,960.0	5,960.0					489	1,300.0	

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100...	SO Str Wt (100...	Drill Str Wt (100...	Torque Units	Drilling Torque	Off Btm Tq
		204	204	0			

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/...	Max Open Hole AV (ft...

Casing Strings

Prop Run?	Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
Yes	Conductor	105.0	105.0	30	ERW	118.00		
Yes	Surface	4,345.0	4,344.6	13 3/8	K-55	68.00		

Plug Back Total Depths

Date	Depth (ftKB)	Type	Method

Deviation Surveys

Tru-Trak, Proposed? No

Date	Description	Job
9/23/2010	Tru-Trak	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
10/15/2010	5,419.00	0.09		5,418.61				
10/15/2010	5,512.00	0.35		5,511.61				
10/15/2010	5,606.00	0.26		5,605.61				
10/15/2010	5,707.00	0.09		5,706.61				
10/15/2010	5,802.00	0.09		5,801.60				

Mud Additive Amounts

Des	Consumed	Cum Cons
Trucking	9,281	56,487

Formations

Formation Name	Final Top MD (ftKB)
Quaternary	
Tertiary Volcanic	
Tertiary Undivided	
North Horn	
UNCONFORMITY	
Arapien	
FAULT	
Arapien	
Twin Creek	
Gypsum Sprgs Mbr	
Navajo	
Chinle	
TD	

Safety Summary

11/2/2010

PIONEER
NATURAL RESOURCES

Daily Drilling

Well Name: South Hills 6-1
Report for: 11/2/2010
Report #: 69, DFS: 41.60
Depth Progress: 24.00

API/UWI	Surface Legal Location	Dis to Form	State
43-023-30021-0000	1552' FSL and 3171' FEL, Lot 46 Section 6, T16S-R1W		UTAH
Spud Date	**Drilling Rig Release Date**	**Ground Elevation (ft)**	**KB-Ground Distance (ft)**
9/22/2010 15:30		5,239.00	25.00
Weather	**Temperature (°F)**	**Road Condition**	**Hole Condition**
			Minimum Losses

Operations at Report Time	Operations Next Report Period
Drilling @ 5984'	Drill 12 1/4" Hole

Operations Summary

Loosing returns, reduce to 1 pump, lost completre returns, Mix, pump & spot 60 bbl LCM pill, POOH, Rack back Tru-trak Directional eqpt. M/U rotational drlg assm, TIH, remove trip nipple, install rotating head bushing, test tele-drift, RIH to 5840', wash from 5840' to 5960', drill & survey from 5960'-5984'

Time Log

Start Time	End Time	Dur (hr)	Cum Dur (hr)	Phase	Step	Com
06:00	08:30	2.50	2.50			Circ hole, pumps 90X90 spm, 628 gpm, 2300 psi, hole started taking fluid, reduce pumps to 50X50 spm, 349 gpm, lost complete returns. P/U to 5927', shut down pumps, Mix 60 bbls, Cyber-seal, at 15 ppb, pump & spot in place, had partial returns.
08:30	09:30	1.00	3.50			Pull rotating head bushing, install trip nipple
09:30	13:15	3.75	7.25			POOH from 5960' to 493'
13:15	14:45	1.50	8.75			POOH from 493' to Tru-trak, break bit.
14:45	17:00	2.25	11.00			M/U stab & pony DC to Tru-trak, rack back same
17:00	17:15	0.25	11.25	PROD1	SHARE	Function test blind & pipe rams & annular
17:15	18:15	1.00	12.25			Caliper, SLM, move 12-1/4" Stabilizers & TeleDrift sub to cat walk, R/U Teledrift sensor & read out unit
18:15	18:45	0.50	12.75	PROD1	SHARE	JSA Survey Rentals, how to use & read Tele-drift
18:45	20:45	2.00	14.75			M/U PDC bit, near bit stabilizer, teledrift, stabilizer, (1) 8" DC, stabilizer
20:45	23:00	2.25	17.00			TIH w/ BHA to 2919'
23:00	23:30	0.50	17.50			Remove trip nipple, install rotating head bushing, and Fill Pipe.
23:30	00:00	0.50	18.00			M/U TDS, test teledrift, 85 spm, 297 gpm, 450 psi,
00:00	01:45	1.75	19.75			RIH from 2919' to 5840', set down 10K wt
01:45	02:45	1.00	20.75			Wash 5840' to 5960', Pumps 50X50, 349 spm, 675 psi, Pumped (2) 35 bbl, 35ppb sweeps, Losses of approx 65 bbls
02:45	03:15	0.50	21.25			Circ. Hole at 5960', 40 spm inc. to (2) pumps 80X80 spm, 140 to 558 gpm, 1570 psi, Lost approximatly 10bbls in 30 min.
03:15	04:15	1.00	22.25	DRLR1	DRLG	Drill from 5960' to 5974', pumps 80X80 spm, 558 gpm, 1550 psi, WOB 8-12K, TDS 130 rpm. MWT in 9.4, out 9.1 ppg Drilled 14', on bottom drilling time 1 hr, avg ROP = 14'/hr Total on bottom drlg time, 1hr Pump 35 bbl, 35 ppb, Strata-Vanguard, LCM sweeps 5960'-5974', Losses of approx, 50 bbls per hour
04:15	04:45	0.50	22.75	DRLR1	DRLG	Take Teledrift survey @ 5960', pick up off btm, cycle pumps, 95 spm, 332gpm, 1 degree, @ 5960'
04:45	06:00	1.25	24.00			Drill from 5974' to 5984', reduce pumps from 80X80 to 70X70 spm, 558-489 gpm, 1550 to 1220 psi, WOB 12-18K, TDS 130 rpm. Torque 3-6K, Mwt 9.4 in, 9.1 out ppg, adding base oil to drop mwt to 9.0 ppg Drilled 10', on bottom drilling time = 1 hr, avg ROP = 10'/hr Total on bottom drlg time, 1 hr + 1 hr = 2 hrs Pump 35 bbl, 35 ppb, Strata-Vanguard, LCM sweeps 5974'-5984', Losses of approx, 11 bbls per hour Fms: 5960'-5984', 90% Silty Shale , 10% Limestone

AFE Number	Total AFE + Sup (Cost)
018514	9,064,000.00
Day Total (Cost)	**Cum To Date (Cost)**
165,665.65	5,433,100.97
Mud Field Est (Cost)	**Cum Mud Field Est (Co…**
	309,025.60
Start Depth (ftKB)	**End Depth (ftKB)**
5,960.0	5,984.0
Target Form.	**Target Depth (ftKB)**
Navajo	9,040.0
Last Casing String	

Daily Contacts

Job Contact	Mobile
Dean Baker	318-517-2897
Noah Dupuis	337-351-9418
Derrick Berry	719-859-1007

NABORS DRILLING, 169

Contractor	Rig Number
NABORS DRILLING	169
Rig Supervisor	**Phone Mobile**
Rod Flynn	

1, National Supply, 10-P-130

Pump #	Pwr (hp)	Rod Dia (in)
1		
Liner Size (in)	**Stroke (in)**	**Vol/Stk OR (b…**
6	10.00	0.083
P (psi)	**Slow Spd**	**Strokes (s…**	**Eff (%)**

2, National Supply, 10-P-130

Pump #	Pwr (hp)	Rod Dia (in)
2		
Liner Size (in)	**Stroke (in)**	**Vol/Stk OR (b…**
6	10.00	0.083
P (psi)	**Slow Spd**	**Strokes (s…**	**Eff (%)**

Mud Additive Amounts

Des	Field Est (Cost/unit)	Consumed

Safety Checks

Time	Type	Des

Wellbores

Wellbore Name	KO MD (ftKB)
Original Hole	

Report Printed: 11/3/2010

<depth>ftKB, <dttm>

Type	Time	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	PV (cp)	YP (lbf/100ft²)

Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Filtrate (mL/30min)	Filter Cake (1/32")	pH	Sand (%)	Solids (%)

MBT (lb/bbl)	Alkalinity (mL/mL)	Chlorides (ppm)	Calcium (ppm)	Pf (mL/mL)	Pm (mL/mL)	Gel 30 min (lbf/100ft²)

Whole Mud Added (bbl)	Mud Lost to Hole (bbl)	Mud Lost to Surface (bbl)	Reserve Mud Volume (bbl)	Active Mud Volume (bbl)

BHA #16, Slick

Bit Run	Drill Bit	Length (ft)	IADC Bit Dull	TFA (incl Noz) (in²)	BHA ROP…
1	12 1/4in, HCD506ZX, 7021592		-------	2.23	12.0

Nozzles (1/32")	String Length (ft)	Max Nominal OD (in)
22/22/22/22/22/22	5,946.99	8.375

String Components

Hughes HCD506ZX, Stabilizer - Near Bit, Tele-Drift, 12" Stabilizer, 8" Drill Collar, 12" Stabilizer, 8" DC's, X/O, 6-1/2" DC's, X/O, HWDP, Jars, HWDP, Drill Pipe

Comment

Wellbore	Start (ftKB)	End Depth (ftKB)	Cum Depth (ft)	Cum Drill Time (hr)	Int ROP (ft/hr)	Q Flow (gpm)	WOB (1000lbf)	RPM (rpm)	SPP (psi)	Drill Str Wt (1000lbf)	PU Str Wt (1000lbf)	Drill Tq
Original Hole	5,960.0	5,984.0	24.00	2.00	12.0	488	18	130	1,270.0	16	200	10.0

PIONEER NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1 | **Daily Drilling Report** | **REPORT DATE: 11/4/2010**

Rig Name: NABORS DRILLING 169 | **REPORT: 70**

Depth Progress: 39.00 | **DOL: 68.67** | **DFS: 42.60**

Daily Summary

Property Sub	Field Name	API/UWI	Spud Date
327560-001	WILDCAT	43-023-30021-0000	9/22/2010

KB-Ground Distance (ft)	Original KB Elevation (ft)	KB-Mud Line Distance (ft)
25.00	5,264.00	

Daily Operations

Target Depth (ftKB)	Target Depth (TVD) (ftKB)	End Depth (ftKB)	End Depth (TVD) (ftKB)
9,040.0		6,023.0	

Footage/Meterage (ft)	24 HR ROP (ft/hr)	Drilling Hours (hr)
39.00	1.9	20.50

Avg Connection Gas	Avg Trip Gas	Avg Background Gas	Max Connection Gas	Max Trip Gas	Max Drill Gas
	32.00	121.00			1188.00

Operations at Report Time
Start TOH, for new bit & Bha.

Operations Summary
Rotate drilled from 5,984' , to 6,023', low rop @ 3' per hour (formation 80% sandstone, pumped numerous lcm pills & added to mud system, to obtain 10#/bbl./lcm in mud system. Reduced losses from 15 bbls. per hour, to zero bbl./hr. loss.

Remarks
Last survey : Tele drift tool failed.
Safety Meeting topic: Communication is the Key
Lithology: 85 % sandstone & 15 % shale @ 6,020' md.
Drill pipe on location : Hole-150 jts / Derrick & Mouse hole-30 jts / Racks-213 jts. Total of: 393 jts.
Visually checked reserve pits, choke manifold, flare line and BOP's , ok.
Acc. Manifold : 1,350 psi / Acc : 2,900 psi / Annular : 1,000 psi.
Rotating hours since last inspection: 24 hrs.

Operations Next Report Period
TOH, for new bit & BHA.(bit/ motor/mwd)., TIH & Drill 12 1/4" Intermediate Hole .

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com
06:00	10:00	4.00	ROTDRLG	PP	Drilled from 5984' to 5994', pumps 70 X 70 spm, 489 gpm, 1220 psi, WOB 30 K, TDS 90 rpm. Torque 3-5 K, Mud wt. : 9.1 out ppg, Drilled 10', avg ROP = 3'/hr Pump 35 bbl, 35 ppb, Strata-Vanguard, LCM sweeps 5984'-5994', Losses of approx, 15 bbls per hour
10:00	11:30	1.50	RIGSER	PP	Rig Service, change shaker screens to 84's, to retain LCM, in mud system. Adjusted top drive track to center pipe in bushings.
11:30	16:00	4.50	ROTDRLG	PP	Drilled from 5994' to 6,004', increased pumps 75 X 75 spm, 523 gpm, 1320 psi, WOB 30 K, TDS 90 rpm. Torque 3-5 K, Mud wt. : 9.0 out ppg, Drilled 12', avg ROP = 2.7'/hr Pump 35 bbl, 35 ppb, Strata-Vanguard, LCM sweeps, adding LCM to sytem to obtain 10#/bbl. in mud system. 5994'-6004', Losses decread to .5 bbls/hr.
16:00	16:30	0.50	DEVSUR	PP	Made two attemps to take survey with " Teledrift tool", no success.
16:30	22:00	5.50	ROTDRLG	PP	Drilled from 6,004' to 6,009', increased pumps 75 X 75 spm, 523 gpm, 1320 psi, WOB 30 K, TDS 90 rpm. Torque 3-5 K, Mud wt. : 9.0 out ppg, Drilled 5', avg ROP = 1'/hr Pump 35 bbl, 35 ppb, Strata-Vanguard, LCM sweeps, adding LCM to sytem to obtain 10#/bbl. in mud system. 6,004'-6,009', Losses decread to : 0 bbls/hr. Note : At 6,005', increased pumps to 80 x 80 = 559 gpm / 1,499 psi . Note: CanRig on location and troubleshoot top drive RPM, and torque. Need new data box located in dog house, hot-shot in will be back on location in morning.
22:00	22:30	0.50	DEVSUR	PP	Made two attemps to take survey with "Teledrift tool", no success.
22:30	05:00	6.50	ROTDRLG	PP	Drilled from 6,009' to 6,023', pumps 85 X 85 spm, 593 gpm, 1650 psi, WOB 30-37 K, TDS 90-130 rpm. Torque 3-5 K, Mud wt. : 9.1 out ppg, Drilled 14', avg ROP = 2'/hr Pump 35 bbl, 35 ppb, Strata-Vanguard, LCM sweeps, adding LCM to sytem to obtain 10#/bbl. in mud system. Losses decreased to : 0 bbls/hr. Note : At 6,013', increased pumps to 85 x 85 = 593 gpm / 1,650 psi .
05:00	06:00	1.00	CIRC	PP	Increase Stks 90 X 90, 628 GPM, 1860 PSI. No Losses. Pump sweep, build slug 2lb over, and prepare for TOOH, to change BHA.

Mud Properties

Daily Cost: 15,898.22 Cost Cum Cost: 663,469.85 Cost

Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	T Flowline (°F)
03:30	Oil Base	6,022.0	9.10	44	116.4

PV (cp)	YP (lbf/100ft²)	Filtrate (mL/30min)	HTHP Filtrate (mL/30...	HTHP Pressure (psi)	HTHP Temperature (°F)
12.0	16.000		5.0		250.0

Solids (%)	Sand (%)	MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)
11.0					

Chlorides (ppm)	Calcium (ppm)	Oil Water Ratio	Electric Stab (V)	Lime (lb/bbl)	Low Gravity Solids (%)
		82/18	722.0	3.8	8.1

Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Comment
10.000	11.000	

Bottom Hole Assembly

BHA Since Insp (hr)	BHA Wt BelowJar (1000lbf)	Hrs on Jars (hr)

Total AFE + Sup (Cost): 9,064,000.00

AFE Job Cost Summary

Cost Type	AFE Amt (Cost)
DHC	7,600,000.00
CWC	1,464,000.00

Field Estimate Job Cost Summary

Cost Type	Field Est (Cost)
DHC	5,838,117.42

Daily Summary

Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
66,110.72	5,842,796.82
Daily Mud Field Est (Cost)	**Cum Mud Field Est (Cost)**
15,898.22	663,469.85

POL (Personnel on Location): 25.0

Daily Contacts

Job Contact	Title
Noah Dupuis	Drlg. Foreman
Bill Vigil	Drlg. Foreman
Mike Reel	Field Drlg. Supt
Eric Burnett	Drilling Engineer

Personnel Log

Company	Count
PIONEER NATURAL RESOURCES	1
PIONEER NATURAL RESOURCES	1
NABORS DRILLING INC	2
NABORS DRILLING INC	12
BAKER HUGHES INTEQ	2
ZECO	2
SELMA	2
NEWPARK	1
BADLANDZER	2

Weather

Precipitation Amount (in)	Precipitation Type
Temperature - High (°F)	**Temperature - Low (°F)**

Comment

NABORS DRILLING, 169

Rig Type: Drilling - Triple

Rig Start Date	Rig Release Date
9/22/2010	

1, National Supply, 10-P-130

Pump Number: 1

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi):

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)
Yes	180.0	50	166	95
Yes	110.0	40	133	95
Yes	110.0	40	133	95

2, National Supply, 10-P-130

Pump Number: 2

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi):

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

Job Supply Amounts

Supply Item Des	Unit Label	Received	Consumed	Cum On Loc
Diesel Fuel	gal us	6,958		6,958

Mud Additive Amounts

Des	Consumed	Cum Cons
Bentone 910	54	154
BULK TANK	2	106
BULK TANK BLOWERS	2	84
Cyber Seal		0
Cyber Seal		0
Dyna Fiber Cor	60	614
Fiber Fluid Cor		0
Gilsonite HT	11	73

Safety Summary

BOP Test Date	Last BOP Test	BOP Func Due	HSE Incident	HSE Inc Remark
10/Nov/2010	13/Oct/2010	10/Nov/2010		

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 11/4/2010
REPORT: 70
DOL: 68.67
DFS: 42.60

Rig Name: NABORS DRILLING 169

Depth Progress: 39.00

Daily Summary

BHA #16 , Slick

Bit Run	Drill Bit	Bit Type	Make
1	12 1/4in, HCD506ZX, 7021592	PDC	Hughes

Nozzles (1/32")	IADC Codes	IADC Bit Dull
22/22/22/22/22/22	M323	-------

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)
2.23	22.50	63.00

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)
22.50	63.00	2.8	5,960.0	6,023.0

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
					5,946.99
150	Drill Pipe	5	4.276	4,621.00	5,946.99
7	HWDP	5	3.000	215.16	1,325.99
1	Jars	6 3/8	2.875	32.57	1,110.83
19	HWDP	5	3.000	583.54	1,078.26
1	X/O	6 3/8	2.813	3.57	494.72
9	6-1/2" DC's	6 1/2	2.875	276.70	491.15
1	X/O	6 1/2	2.813	2.92	214.45
5	8" DC's	8	2.875	153.83	211.53
1	12" Stabilizer	8 1/4	2.563	7.40	57.70
1	8" Drill Collar	8	2.875	30.02	50.30
1	12" Stabilizer	8 3/8	2.563	6.75	20.28
1	Tele-Drift	8	2.875	8.46	13.53
1	Stabilizer - Near Bit	8 3/16	2.500	5.07	5.07

Drilling Parameters

5,984.0 - 6,023.0 ftKB

Start (ftKB)	End Depth...	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note
5,984.0	6,023.0	1.9	30	100			1,460.0	

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100...	SO Str Wt (100...	Drill Str Wt (100...	Torque Units	Drilling Torque	Off Btm Tq
20.50	2.50	204	204				

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/...	Max Open Hole AV (ft...

Casing Strings

Prop Run?	Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
Yes	Conductor	105.0	105.0	30	ERW	118.00		
Yes	Surface	4,345.0	4,344.6	13 3/8	K-55	68.00		

Plug Back Total Depths

Date	Depth (ftKB)	Type	Method

Deviation Surveys

Tru-Trak, Proposed? No

Date	Description	Job
9/23/2010	Tru-Trak	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
10/15/2010	5,419.00	0.09		5,418.61				
10/15/2010	5,512.00	0.35		5,511.61				
10/15/2010	5,606.00	0.26		5,605.61				
10/15/2010	5,707.00	0.09		5,706.61				
10/15/2010	5,802.00	0.09		5,801.60				

Mud Additive Amounts

Des	Consumed	Cum Cons
Lime	104	306
Mica F	65	365
MUD ENGINEER	1	53
MUD LAB	1	45
New Seal		0
Opti-Clean	1	2
Opti-Mul	3	20
Opti-Plus	3	15
Pallets		45
Shrink Wrap		45
Strata Vanguard F		0
Tax	782	33,125
Trucking	1,587	58,074
Wallnut Shell M	25	685

Formations

Formation Name	Final Top MD (ftKB)
Quaternary	
Tertiary Volcanic	
Tertiary Undivided	
North Horn	
UNCONFORMITY	
Arapien	
FAULT	
Arapien	
Twin Creek	
Gypsum Sprgs Mbr	
Navajo	
Chinle	
TD	

Safety Summary

11/4/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 11/5/2010
REPORT: 71
DOL: 69.67
DFS: 43.60

Rig Name: NABORS DRILLING 169

Depth Progress: 0.00

Daily Summary

Property Sub	Field Name	API/UWI	Spud Date
327560-001	WILDCAT	43-023-30021-0000	9/22/2010

KB-Ground Distance (ft)	Original KB Elevation (ft)	KB-Mud Line Distance (ft)
25.00	5,264.00	

Daily Operations

Target Depth (ftKB)	Target Depth (TVD) (ftKB)	End Depth (ftKB)	End Depth (TVD) (ftKB)
9,040.0		6,023.0	

Footage/Meterage (ft)	24 HR ROP (ft/hr)	Drilling Hours (hr)
0.00		

Avg Connection Gas	Avg Trip Gas	Avg Background Gas	Max Connection Gas	Max Trip Gas	Max Drill Gas

Operations at Report Time
TIH W/ Slick BHA #17, To clean bottom of debris, from pdc bit.

Operations Summary
TOH with BHA #16. Bit was under gauge and had broken gauge pads. Started rigging up stdby pump. MU new BHA (#17) TIH to 400'.

Remarks
Last survey : 5,802', .09 degrees (Baker Hughes Tru Track).
Safety Meeting topic: Proper trip tank operation.
Lithology: 85 % sandstone & 15 % shale @ 6,020' md.
Drill pipe on location : Hole-150 jts / Derrick & Mouse hole-30 jts / Racks-213 jts. Total of: 393 jts.
Visually checked reserve pits, choke manifold, flare line and BOP's , ok.
Acc. Manifold : 1,350 psi / Acc : 2,900 psi / Annular : 1,000 psi.
BHA Rotating hours since last inspection: 24 hrs.
Note : Total oil base Mud lost to date (11/4/10) : 2,721 bbls.
Note : Total oil base Mud lost last to the hole 24 - hrs. : 0 bbls.

Operations Next Report Period
Drill 12 1/4" Intermediate Hole, monitoring all drilling parameters.

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com
06:00	12:00	6.00	TRIP	PP	TOH, for new bit & " Tru Track " , no abnormal drag TOH to BHA, hole took correct displacement , recorded per trip tank gauge.
12:00	16:00	4.00	BHA	PP	TOH, with BHA, L/D stab., and tele drift tool. Bit was worn & under gauged, face of bit 7 " tapered to 9.75", with 3 broken gauge pads, left in hole (3" long & 1.25" thick, steel body). Note : Bit made only 63', in 22.5 hrs.
16:00	18:00	2.00	SFTY	PP	Clean rig floor & prep for TIH, held Safety meeting .
18:00	22:00	4.00	MOB	PP	Started Rigging up standby pump, for drilling operations, also serviced rig pumps. Cut drill line.
22:00	22:30	0.50	SFTY	PP	Nabors JSA / Safety Meeting. Topic PU, and MU BHA, TIH.
22:30	23:00	0.50	BOPS	PP	Check well for SICP = o psi, on choke panel, open secondary valves behind chokes, then open chokes, no flow, alert everyone to stand clear & open blind rams, hole full & static .
23:00	06:00	7.00	BHA	PP	Make up new BHA #17 & start TIH with same., . at 06:00 hrs. @ 990' .

Mud Properties

Daily Cost: 41,628.78 Cost Cum Cost: 705,098.63 Cost

Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	T Flowline (°F)
03:00	Oil Base	6,023.0	9.10	46	

PV (cp)	YP (lbf/100ft²)	Filtrate (mL/30min)	HTHP Filtrate (mL/30...	HTHP Pressure (psi)	HTHP Temperature (°F)
12.0	16.000		5.0		250.0

Solids (%)	Sand (%)	MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)
11.0					

Chlorides (ppm)	Calcium (ppm)	Oil Water Ratio	Electric Stab (V)	Lime (lb/bbl)	Low Gravity Solids (%)
		82/18	702.0	4.0	8.1

Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Comment
10.000	11.000	

Bottom Hole Assembly

BHA Since Insp (hr)	BHA Wt BelowJar (1000lbf)	Hrs on Jars (hr)

BHA #16 , Slick

Bit Run	Drill Bit	Bit Type	Make
1	12 1/4in, HCD506ZX, 7021592	PDC	Hughes

Nozzles (1/32")	IADC Codes	IADC Bit Dull
22/22/22/22/22/22	M323	8-8-RO-A-X-8-RO-PR

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)
2.23	22.50	63.00

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)
22.50	63.00	2.8	5,960.0	6,023.0

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
					5,946.99
150	Drill Pipe	5	4.276	4,621.00	5,946.99
7	HWDP	5	3.000	215.16	1,325.99
1	Jars	6 3/8	2.875	32.57	1,110.83
19	HWDP	5	3.000	583.54	1,078.26
1	X/O	6 3/8	2.813	3.57	494.72
9	6-1/2" DC's	6 1/2	2.875	276.70	491.15
1	X/O	6 1/2	2.813	2.92	214.45
5	8" DC's	8	2.875	153.83	211.53
1	12" Stabilizer	8 1/4	2.563	7.40	57.70
1	8" Drill Collar	8	2.875	30.02	50.30
1	12" Stabilizer	8 3/8	2.563	6.75	20.28
1	Tele-Drift	8	2.875	8.46	13.53
1	Stabilizer - Near Bit	8 3/16	2.500	5.07	5.07

Total AFE + Sup (Cost)
9,064,000.00

AFE Job Cost Summary

Cost Type	AFE Amt (Cost)
DHC	7,600,000.00
CWC	1,464,000.00

Field Estimate Job Cost Summary

Cost Type	Field Est (Cost)
DHC	5,932,594.06

Daily Summary

Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
94,476.64	5,937,273.46

Daily Mud Field Est (Cost)	Cum Mud Field Est (Cost)
41,628.78	705,098.63

POL (Personnel on Location)
25.0

Daily Contacts

Job Contact	Title
Noah Dupuis	Drlg. Foreman
Bill Vigil	Drlg. Foreman
Mike Reel	Drilling Supt
Eric Burnett	Drilling Engineer

Personnel Log

Company	Count
PIONEER NATURAL RESOURCES	1
PIONEER NATURAL RESOURCES	1
NABORS DRILLING INC	2
NABORS DRILLING INC	12
BAKER HUGHES INTEQ	2
ZECO	2
SELMA	2
NEWPARK	1
BADLANDZER	2

Weather

Precipitation Amount (in)	Precipitation Type

Temperature - High (°F)	Temperature - Low (°F)

Comment

NABORS DRILLING, 169

Rig Type
Drilling - Triple

Rig Start Date	Rig Release Date
9/22/2010	

1, National Supply, 10-P-130

Pump Number
1

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

2, National Supply, 10-P-130

Pump Number
2

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

Job Supply Amounts

Supply Item Des	Unit Label	Received	Consumed	Cum On Loc
Diesel Fuel	gal us	6,958		6,958

Mud Additive Amounts

Des	Consumed	Cum Cons
BULK TANK	2	108
BULK TANK BLOWERS	2	86
MUD ENGINEER	1	54
MUD LAB	1	46
OptiDrill OBM (1 bbl/bulk)	294	2,721
Tax	2,328	35,453

Formations

Formation Name	Final Top MD (ftKB)
Quaternary	

Safety Summary

BOP Test Date	Last BOP Test	BOP Func Due	HSE Incident	HSE Inc Remark
10/Nov/2010	13/Oct/2010	10/Nov/2010		

11/5/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 11/5/2010
REPORT: 71
DOL: 69.67
DFS: 43.60

Rig Name: NABORS DRILLING 169

Depth Progress: 0.00

Daily Summary

Drilling Parameters

6,023.0 - 6,023.0 ftKB

Start (ftKB)	End Depth...	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note
6,023.0	6,023.0		30	100			1,460.0	

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100...	SO Str Wt (100...	Drill Str Wt (100...	Torque Units	Drilling Torque	Off Btm Tq
		204	204				

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/...	Max Open Hole AV (ft...

BHA #17 , Slick

Bit Run	Drill Bit	Bit Type	Make
2	12 1/4in, FDS+C, PP0693	Mill Tooth	Smith

Nozzles (1/32")	IADC Codes	IADC Bit Dull
	___	-------

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)
	2.02	16.00

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)
			6,023.0	6,023.0

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
150	Drill Pipe	5	4.276	4,742.00	5,966.01
25	HWDP	5	3.000	767.98	1,224.01
	Drilling Jars - Hydraulic	5	2.875	32.57	456.03
1	HWDP	5	3.000	30.72	423.46
	XO Sub	6 3/8	2.813	3.57	392.74
6	Drill Collar	6 1/2	2.813	184.03	389.17
	XO Sub	6 1/2	2.813	2.92	205.14
5	Drill Collar	8	2.813	153.83	202.22
	Stabilizer	8 3/8	2.563	6.75	48.39
1	Drill Collar	8	2.813	30.02	41.64
	Float Sub	8	2.813	3.93	11.62
	Junk Sub	7 3/4	2.813	4.75	7.69
	Junk Sub	8 1/2	3.000	2.94	2.94

Drilling Parameters

6,023.0 - 6,023.0 ftKB

Start (ftKB)	End Depth...	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note
6,023.0	6,023.0							Start Trip in hole to ream under gauge hole

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100...	SO Str Wt (100...	Drill Str Wt (100...	Torque Units	Drilling Torque	Off Btm Tq
0.00	0.00						

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/...	Max Open Hole AV (ft...
				0.0	0.0

Casing Strings

Prop Run?	Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
Yes	Conductor	105.0	105.0	30	ERW	118.00		
Yes	Surface	4,345.0	4,344.6	13 3/8	K-55	68.00		

Plug Back Total Depths

Date	Depth (ftKB)	Type	Method

Deviation Surveys

Tru-Trak, Proposed? No

Date	Description	Job
9/23/2010	Tru-Trak	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
10/15/2010	5,419.00	0.09		5,418.61				
10/15/2010	5,512.00	0.35		5,511.61				
10/15/2010	5,606.00	0.26		5,605.61				
10/15/2010	5,707.00	0.09		5,706.61				
10/15/2010	5,802.00	0.09		5,801.60				

Formations

Formation Name	Final Top MD (ftKB)
Tertiary Volcanic	
Tertiary Undivided	
North Horn	
UNCONFORMITY	
Arapien	
FAULT	
Arapien	
Twin Creek	
Gypsum Sprgs Mbr	
Navajo	
Chinle	
TD	

Safety Summary

11/5/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 11/6/2010
REPORT: 72
DOL: 70.67
DFS: 44.60

Rig Name: NABORS DRILLING 169

Depth Progress: 5.00

Daily Summary

Property Sub	Field Name	API/UWI	Spud Date
327560-001	WILDCAT	43-023-30021-0000	9/22/2010

KB-Ground Distance (ft)	Original KB Elevation (ft)	KB-Mud Line Distance (ft)
25.00	5,264.00	

Daily Operations

Target Depth (ftKB)	Target Depth (TVD) (ftKB)	End Depth (ftKB)	End Depth (TVD) (ftKB)
9,040.0		6,028.0	

Footage/Meterage (ft)	24 HR ROP (ft/hr)	Drilling Hours (hr)
5.00	1.0	5.00

Avg Connection Gas	Avg Trip Gas	Avg Background Gas	Max Connection Gas	Max Trip Gas	Max Drill Gas
		7.00		39.00	

Operations at Report Time
Testing BOP's .

Operations Summary
TIH with rock bit & boot baskets, reamed under gauged hole, worked boot baskets to catch debris from prior pdc bit, drilled 5' , to 6,028', of new hole. TOH for new bit, BHA, and to Test BOP's.

Remarks
Last survey : 5,802', .09 degrees (Baker Hughes Tru Track).
Safety Meeting topic: Proper trip tank operation.
Lithology: 85 % sandstone & 15 % shale @ 6,020' md.
Drill pipe on location : Hole-150 jts / Derrick & Mouse hole-30 jts / Racks-213 jts. Total of: 393 jts.
Visually checked reserve pits, choke manifold, flare line and BOP's , ok.
Acc. Manifold : 1,350 psi / Acc : 2,900 psi / Annular : 1,000 psi.
BHA Rotating hours since last inspection: 29 hrs.
Note : Total oil base Mud lost to date (11/4/10) : 2,721 bbls.
Note : Total oil base Mud lost last to the hole 24 - hrs. : 0 bbls.
Note : Notified " Mr. Randy Knight", with BLM SLC, of impending BOP test, no answer , left voice message .

Operations Next Report Period
Finish testing BOP's. TIH with Tru-track assembly. Drill 12 1/4" Intermediate Hole, monitoring all drilling parameters.

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com
06:00	09:00	3.00	TRIP	PP	Finish TIH, from 990', to 3,490' with rock bit & boot baskets, no abnormal drag observed TIH monitoring displacement to trip tank, correct displacement recorded.
09:00	10:00	1.00	BOPS	PP	Pull trip nipple, and install rotating head, filled drill pipe & broke circ.
10:00	12:00	2.00	TRIP	PP	Finish TIh, from 3,490', to 5,959', no abormal drag noted, Monitored displacement to trip tank, correct displacement recorded. Filled rill pipe , and broke circulation slowly, full returns noted.
12:00	13:30	1.50	U_RIG	PN	Rig repair, trouble shoot top drive (unable to rotate), repaired same.
13:30	14:30	1.00	U_FSH	PN	Reamed for Safety from, 5,959', to 6,023', max. wt. : 2 K, no torque, until bit @ 6,021', slight torque (2K), reamed to 6,023'. Once on bottom @ 6,023', indications of debris from prior bit. Washed bottom with high pump rate & worked boot baskets, 4 - times, by shutting off pumps , then on, rotating & then off pumps, gradually added bit wt. to a max. of 12 K., adjusting top drive rpm's to keep bit bounce to a minium. Pumps : 89/89 = 621 gpm, no mud loss noted.
14:30	18:30	4.00	ROTDRLG	PP	Rotate drilled from 6,023', to 6,028' (5 ' @ 1.25" ft/hr), bit wt. : 12 K, Top drive rpm's @ 85 , Pumps : 89 / 89 = 621 gpm . Note : No mud loss noted , no excess torque (1- 2 K) , top drive recorded torque. Note : Top drive torque & rpm's indicator for " Rig Watch', still inoperable, Can rig working on same, with no success to date. Note : Audio alarm for " Rig Watch " pvt system inoperable @ 6am, repaired & operational @ 18:00 hrs., was installed 11/3/2010.
18:30	19:00	0.50			Check flow , well static , slug drill pipe.
19:00	22:00	3.00	TRIP	PP	TOH to BHA, monitored pipe displacement in trip tank, proper displacement recorded. No abnormal drag noted TOH, to BHA.
22:00	23:00	1.00	BOPS	PP	Pulled rotating head, and installed trip nipple.
23:00	01:00	2.00	BOPS	PP	Finish TOH, with BHA, cleaned boot baskets, recovered 75 small pieces of prior bit & 1 piece of a cutters from prior bit. Rock Bit in good shape, no broken or chipped teeth. Checked gauge on same, in gauge.
01:00	02:30	1.50	BOPS	PP	Back out wear bushing lock down pins, and retrieve wear bushing, utilizing air hoist, due to Safety, and operational considerations.
02:30	03:00	0.50	SFTY	PP	Held Safety,and operational meeting with B & C BOP testers,and rig crew. All Nabors permits,and Safety guide lines were addressed.
03:00	06:00	3.00	BOPS	PP	Pressure testing BOP's.

Mud Properties

Daily Cost: 29,308.44 Cost Cum Cost: 734,407.07 Cost

Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	T Flowline (°F)
03:00	Oil Base	6,028.0	9.10	45	162.1

PV (cp)	YP (lbf/100ft²)	Filtrate (mL/30min)	HTHP Filtrate (mL/30...	HTHP Pressure (psi)	HTHP Temperature (°F)
11.0	17.000		5.0		250.0

Solids (%)	Sand (%)	MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)
11.0					

Chlorides (ppm)	Calcium (ppm)	Oil Water Ratio	Electric Stab (V)	Lime (lb/bbl)	Low Gravity Solids (%)
		82/18	725.0	3.9	8.1

Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Comment
10.000	11.000	

Bottom Hole Assembly

BHA Since Insp (hr)	BHA Wt BelowJar (1000lbf)	Hrs on Jars (hr)

Total AFE + Sup (Cost)
9,064,000.00

AFE Job Cost Summary

Cost Type	AFE Amt (Cost)
DHC	7,600,000.00
CWC	1,464,000.00

Field Estimate Job Cost Summary

Cost Type	Field Est (Cost)
DHC	6,046,646.23

Daily Summary

Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
114,052.17	6,051,325.63
Daily Mud Field Est (Cost)	**Cum Mud Field Est (Cost)**
29,308.44	734,407.07

POL (Personnel on Location)
25.0

Daily Contacts

Job Contact	Title
Noah Dupuis	Drlg. Foreman
Bill Vigil	Drlg. Foreman
Mike Reel	Drilling Supt
Eric Burnett	Drilling Engineer

Personnel Log

Company	Count
PIONEER NATURAL RESOURCES	1
PIONEER NATURAL RESOURCES	1
NABORS DRILLING INC	2
NABORS DRILLING INC	12
BAKER HUGHES INTEQ	2
ZECO	2
SELMA	2
NEWPARK	1
BADLANDZER	2

Weather

Precipitation Amount (in)	Precipitation Type
Temperature - High (°F)	**Temperature - Low (°F)**

Comment

NABORS DRILLING, 169

Rig Type
Drilling - Triple

Rig Start Date	Rig Release Date
9/22/2010	

1, National Supply, 10-P-130

Pump Number
1

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

2, National Supply, 10-P-130

Pump Number
2

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

Job Supply Amounts

Supply Item Des	Unit Label	Received	Consumed	Cum On Loc
Diesel Fuel	gal us	6,958		6,958

Mud Additive Amounts

Des	Consumed	Cum Cons
Bentone 910	18	172
BULK TANK	2	110
BULK TANK BLOWERS	2	88
Cyber Seal	45	45
Drum Disposal	8	48
Dyna Fiber Cor	75	689
Gilsonite HT	27	100
Lime	19	325
Mica F	37	402
MUD ENGINEER	1	55

Safety Summary

BOP Test Date	Last BOP Test	BOP Func Due	HSE Incident	HSE Inc Remark
10/Nov/2010	13/Oct/2010	10/Nov/2010	None	

11/6/2010

PIONEER NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Daily Drilling Report

Well Name: South Hills 6-1

Rig Name: NABORS DRILLING 169

Depth Progress: 5.00

REPORT DATE: 11/6/2010
REPORT: 72
DOL: 70.67
DFS: 44.60

Daily Summary

BHA #17 , Slick

Bit Run	Drill Bit	Bit Type	Make
2	12 1/4in, FDS+C, PP0693	Mill Tooth	Smith

Nozzles (1/32")	IADC Codes	IADC Bit Dull
	___	1-1---F-0--BHA

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)
	7.02	21.00

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)
5.00	5.00	1.0	6,023.0	6,028.0

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
150	Drill Pipe	5	4.276	4,742.00	5,966.01
25	HWDP	5	3.000	767.98	1,224.01
	Drilling Jars - Hydraulic	5	2.875	32.57	456.03
1	HWDP	5	3.000	30.72	423.46
	XO Sub	6 3/8	2.813	3.57	392.74
6	Drill Collar	6 1/2	2.813	184.03	389.17
	XO Sub	6 1/2	2.813	2.92	205.14
5	Drill Collar	8	2.813	153.83	202.22
	Stabilizer	8 3/8	2.563	6.75	48.39
1	Drill Collar	8	2.813	30.02	41.64
	Float Sub	8	2.813	3.93	11.62
	Junk Sub	7 3/4	2.813	4.75	7.69
	Junk Sub	8 1/2	3.000	2.94	2.94

Drilling Parameters

6,023.0 - 6,028.0 ftKB

Start (ftKB)	End Depth...	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note
6,023.0	6,028.0	1.0	10	75		621		Ream under gauge hole and drill 5' of new formatio

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100...	SO Str Wt (100...	Drill Str Wt (100...	Torque Units	Drilling Torque	Off Btm Tq
5.00		204	204	204			

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/...	Max Open Hole AV (ft...
				12.0	65.0

Casing Strings

Prop Run?	Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
Yes	Conductor	105.0	105.0	30	ERW	118.00		
Yes	Surface	4,345.0	4,344.6	13 3/8	K-55	68.00		

Plug Back Total Depths

Date	Depth (ftKB)	Type	Method

Deviation Surveys

Tru-Trak, Proposed? No

Date	Description	Job
9/23/2010	Tru-Trak	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
10/15/2010	5,419.00	0.09		5,418.61				
10/15/2010	5,512.00	0.35		5,511.61				
10/15/2010	5,606.00	0.26		5,605.61				
10/15/2010	5,707.00	0.09		5,706.61				
10/15/2010	5,802.00	0.09		5,801.60				

Mud Additive Amounts

Des	Consumed	Cum Cons
MUD LAB	1	47
New Seal	62	62
OptiDrill OBM (1 bbl/bulk)	27	2,748
Opti-Mul	3	23
Opti-Plus	3	18
OptiVis RM	14	38
Strata Vanguard M	27	152
Tax	1,631	37,084
Wallnut Shell M	19	704

Formations

Formation Name	Final Top MD (ftKB)
Quaternary	80.0
Tertiary Volcanic	1,300.0
Tertiary Undivided	1,830.0
North Horn	3,810.0
UNCONFORMITY	4,345.0
Arapien	4,345.0
FAULT	
Arapien	
Twin Creek	
Gypsum Sprgs Mbr	
Navajo	
Chinle	
TD	

Safety Summary

11/6/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 11/7/2010
REPORT: 73
DOL: 71.67
DFS: 45.60

Rig Name: NABORS DRILLING 169

Depth Progress: 132.00

Daily Summary

Property Sub	Field Name	API/UWI	Spud Date
327560-001	WILDCAT	43-023-30021-0000	9/22/2010

KB-Ground Distance (ft)	Original KB Elevation (ft)	KB-Mud Line Distance (ft)
25.00	5,264.00	

Daily Operations

Target Depth (ftKB)	Target Depth (TVD) (ftKB)	End Depth (ftKB)	End Depth (TVD) (ftKB)
9,040.0		6,160.0	

Footage/Meterage (ft)	24 HR ROP (ft/hr)	Drilling Hours (hr)
132.00	13.2	10.00

Avg Connection Gas	Avg Trip Gas	Avg Background Gas	Max Connection Gas	Max Trip Gas	Max Drill Gas
		21.00		239.00	34.00

Operations at Report Time
Drilling 12 1/4" Hole @ 6,160' md.

Operations Summary
Finished Testing BOP's. TIH with 12 1/4" button bit, @ Tru-Track assembly, break circulation, pattern bit and drill 12 1/4" from 6028' to 6160'. Made 132' average ROP 13'/hr.

Remarks
Last survey 6085', 0.18 degrees. (Baker hughes Tru Track)
Safety Meeting Topic: Communication, Team Work.
Lithology: 90% sandstone, & 14% shale @ 6130'.
Drill pipe on location : Hole-153 jts / Derrick & Mouse hole - 27 jts / Racks-213 jts. Total of: 393 jts.
Visually checked reserve pits, choke manifold, flare line and BOP's , ok.
Acc. Manifold : 1,350 psi / Acc : 2,900 psi / Annular : 1,000 psi.
BHA Rotating hours since last inspection: 29 hrs.
Note : Total oil base Mud lost to date (11/7/10) : 2,749 bbls.
Note : Total oil base Mud lost last to the hole 24 - hrs. : 28 bbls.
Note : Notified " Mr. Randy Knight", with BLM SLC, of impending BOP test, no answer , left voice message .

Operations Next Report Period
Drilling 12 1/4" Hole, monitoring all drilling parameters for abnormal pressure detection, and possible losses of drilling fluid.

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com
06:00	09:00	3.00	BOPS	PP	Finished testing Bop's & related equipment (including I- Bop / TIW/ Gray Inside BOP, to 250 psi/ low, and 5,000 psi / high. Annular was tested to 250 psi/ low, and 2,500 psi/ high. All test were positive, all test were for the required 10 - min.., per BLM req. Manifold & choke line, was displaced with glycol to prevent freezing. Wear bushing was re - installed & locked in .
09:00	13:30	4.50	BHA	PP	Pick up new Smith 12.25" Insert bit (IADC Code : 637 / Diamond Gauge protection) , and make up Baker "Tru Track" tool, break & clean filter sub, also installed baffle plate , in case of pulser failure, baffle plate to enable single shot surveys. Functioned tested Baker Tru Track, tested ok.
13:30	15:00	1.50	TRIP	PP	Continued TIH, with drill pipe to 3,537', monitoring displacement in trip tank, correct displacement recorded.
15:00	16:00	1.00	BOPS	PP	Removed trip nipple,and installed Weatherford rotating head, filled drill pipe & broke circ. slowly.
16:00	17:30	1.50	TRIP	PP	Continued TIH, with drill pipe from 3,537', to 5, 928', monitoring displacement in trip tank, correct displacement recorded. Note : No abnormal drag noted TIH.
17:30	18:00	0.50	RMWASH	PN	Filled drill pipe & broke circ. slowly, wash & ream from 5,928', to 6,028', for Safety, 3' of fill noted on bottom . Washed bottom well, prior to applying bit. wt.. Allowed bit to pattern on bottom @ 6,028'....
18:00	20:00	2.00	SLDDRLG	PP	Drilled ahead utilizing "Baker Tru Trac", monitored all drilling parameters, pumps : 93/93 = 649 gpm, motor : (.16 r/gpm) 104 rpm's @ bit, Bit wt. : 28 - 38 K, BGG : 13 units., Mud wt. : 9.0 ppg., vis : 41 sec/qt., (Trip gas : 249 units, no mud cut) . Note : Fanned bottom in case of any debris from prior pdc bit, drilled from 6,028', to 6,055', (drilled 27', 13.5 ft/hr. Note : Possible formation change @ 6,033' (high differential pressure ,and bit bounce).
20:00	21:00	1.00	RISER	PP	Pump problem , # 1 pump , Check and tighten rods, and check springs in #2 hole., Took slow pump rates. Cycled pumps & took survey : 0.26 deg. @ 5993'. "Baker Tru Trac" in sync, ribs out.
21:00	00:00	3.00	SLDDRLG	PP	Drilled ahead utilizing "Baker Tru Trac", monitored all drilling parameters, pumps : 94/94 = 657 gpm, motor : (.16 r/gpm) 104 rpm's @ bit, Bit wt. : 28 - 38 K, BGG : 13 units. Drilled from 6,055', to 6,100', (drilled 45', 15 ft/hr.). Differential pressure up and string bouncing. PU off bottom, Shakers full of cuttings.
00:00	01:00	1.00	CLNBH	PP	Circulate and work pipe. Build and pump 50 bbs 100 visc sweep. While pumping sweep, #2 pump had leak on discharge cap, take off line and replace gasket, continue to circulate with #1 pump until repaired (15 minutes on #1 Pump). Monitor returns at shakers. Hole is cleaned up.
01:00	06:00	5.00	SLDDRLG	PP	Drilled ahead utilizing "Baker Tru Trac", monitored all drilling parameters, pumps : 94/94 = 657 gpm, motor : (.16 r/gpm) 104 rpm's @ bit, Bit wt. : 20 - 35 K, More than 35 K WOB causes drill string to bounce. BGG : 21 units. Drilled from 6,100', to 6,160', (drilled 60', 12 ft/hr.). Connection @ 6100' Survey @ 6085' - .18*

Total AFE + Sup (Cost)
9,064,000.00

AFE Job Cost Summary

Cost Type	AFE Amt (Cost)
DHC	7,600,000.00
CWC	1,464,000.00

Field Estimate Job Cost Summary

Cost Type	Field Est (Cost)
DHC	6,113,354.02

Daily Summary

Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
66,707.79	6,118,033.42
Daily Mud Field Est (Cost)	**Cum Mud Field Est (Cost)**
7,065.12	741,472.19

POL (Personnel on Location)
25.0

Daily Contacts

Job Contact	Title
Noah Dupuis	Drlg. Foreman
Bill Vigil	Drlg. Foreman
Mike Reel	Drilling Supt
Eric Burnett	Drilling Engineer

Personnel Log

Company	Count
PIONEER NATURAL RESOURCES	1
PIONEER NATURAL RESOURCES	1
NABORS DRILLING INC	2
NABORS DRILLING INC	12
BAKER HUGHES INTEQ	2
ZECO	2
SELMA	2
NEWPARK	1
BADLANDZER	2

Weather

Precipitation Amount (in)	Precipitation Type
Temperature - High (°F)	**Temperature - Low (°F)**

Comment

NABORS DRILLING, 169

Rig Type
Drilling - Triple

Rig Start Date	Rig Release Date
9/22/2010	

1, National Supply, 10-P-130

Pump Number
1

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)
Yes	350.0	60	199	95
Yes	160.0	40	133	95
Yes	250.0	50	166	95

2, National Supply, 10-P-130

Pump Number
2

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)
Yes	160.0	40	133	95
Yes	235.0	50	166	95
Yes	335.0	60	199	95

Job Supply Amounts

Supply Item Des	Unit Label	Received	Consumed	Cum On Loc
Diesel Fuel	gal us	6,958		6,958

Mud Additive Amounts

Des	Consumed	Cum Cons
BULK TANK	2	112
BULK TANK BLOWERS	2	90
MUD ENGINEER	1	56
MUD LAB	1	48
New Bar (Ton/bulk)	3	165
Strata Vanguard M	27	179

Safety Summary

BOP Test Date	Last BOP Test	BOP Func Due	HSE Incident	HSE Inc Remark
13/Dec/2010	10/Nov/2010	17/Nov/2010	None	

11/7/2010

PIONEER NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 11/7/2010
REPORT: 73
DOL: 71.67
DFS: 45.60

Rig Name: NABORS DRILLING 169

Depth Progress: 132.00

Daily Summary

Mud Properties

Daily Cost: 7,065.12 Cost Cum Cost: 741,472.19 Cost

Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	T Flowline (°F)
03:00	Oil Base	6,137.0	9.40	45	122.4

PV (cp)	YP (lbf/100ft²)	Filtrate (mL/30min)	HTHP Filtrate (mL/30…	HTHP Pressure (psi)	HTHP Temperature (°F)
12.0	16.000		5.0		250.0

Solids (%)	Sand (%)	MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)
13.0					

Chlorides (ppm)	Calcium (ppm)	Oil Water Ratio	Electric Stab (V)	Lime (lb/bbl)	Low Gravity Solids (%)
		83/17	731.0	4.5	9.9

Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Comment
11.000	13.000	

Bottom Hole Assembly

BHA Since Insp (hr)	BHA Wt BelowJar (1000lbf)	Hrs on Jars (hr)

BHA #18 , Steerable

Bit Run	Drill Bit	Bit Type	Make
1	12 1/4in, 637, PL6488	PDC	Smith

Nozzles (1/32")	IADC Codes	IADC Bit Dull
18/18/18	___	-------

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)
0.75	10.00	132.00

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)
10.00	132.00	13.2	6,028.0	6,160.0

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
146	Drill Pipe	5	4.276	4,554.00	5,927.06
7	HWDP	5	3.000	215.16	1,373.06
1	Jars	6 3/8	2.875	32.57	1,157.90
19	HWDP	5	3.000	583.54	1,125.33
1	X/O	6 3/8	2.813	3.57	541.79
9	6-1/2" DC's	6 1/2	2.875	276.70	538.22
1	X/O	6 1/2	2.813	2.92	261.52
6	8" DC's	8	2.875	183.85	258.60
1	Mechanical Thruster	8	3.563	26.78	74.75
1	Filter Sub	8	2.875	4.88	47.97
1	Float Sub	8 1/16	2.938	2.49	43.09
1	XO Sub	8 1/4	3.000	3.12	40.60
1	Stop Sub	9 1/2	3.500	1.46	37.48
1	9-1/2" True Trak, Adjustable Pads w/ Stab	9 1/2		36.02	36.02

Drilling Parameters

6,028.0 - 6,160.0 ftKB

Start (ftKB)	End Depth…	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note
6,028.0	6,160.0	13.2	34			656	2,700.0	

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100…	SO Str Wt (100…	Drill Str Wt (100…	Torque Units	Drilling Torque	Off Btm Tq
10.00	2.00	213	213				

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/…	Max Open Hole AV (ft…
251.4	2.1	282.3	657.0	12.7	74.4

Casing Strings

Prop Run?	Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
Yes	Conductor	105.0	105.0	30	ERW	118.00		
Yes	Surface	4,345.0	4,344.6	13 3/8	K-55	68.00		

Plug Back Total Depths

Date	Depth (ftKB)	Type	Method

Deviation Surveys

Tru-Trak, Proposed? No

Date	Description	Job
9/23/2010	Tru-Trak	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
10/15/2010	5,707.00	0.09		5,706.61				
10/15/2010	5,802.00	0.09		5,801.60				
10/15/2010	5,896.00	0.44		5,895.60				
10/15/2010	5,993.00	0.26		5,992.60				
10/15/2010	6,085.00	0.00		6,084.60				

Mud Additive Amounts

Des	Consumed	Cum Cons
Tax	373	37,456

Formations

Formation Name	Final Top MD (ftKB)
Quaternary	80.0
Tertiary Volcanic	1,300.0
Tertiary Undivided	1,830.0
North Horn	3,810.0
UNCONFORMITY	4,345.0
Arapien	4,345.0
FAULT	
Arapien	
Twin Creek	
Gypsum Sprgs Mbr	
Navajo	
Chinle	
TD	

Safety Summary

11/7/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 11/8/2010
REPORT: 74
DOL: 72.67
DFS: 46.60

Rig Name: NABORS DRILLING 169

Depth Progress: 177.00

Daily Summary

Property Sub	Field Name	API/UWI	Spud Date
327560-001	WILDCAT	43-023-30021-0000	9/22/2010

KB-Ground Distance (ft)	Original KB Elevation (ft)	KB-Mud Line Distance (ft)
25.00	5,264.00	

Daily Operations

Target Depth (ftKB)	Target Depth (TVD) (ftKB)	End Depth (ftKB)	End Depth (TVD) (ftKB)
9,040.0		6,337.0	

Footage/Meterage (ft)	24 HR ROP (ft/hr)	Drilling Hours (hr)
177.00	8.2	21.50

Avg Connection Gas	Avg Trip Gas	Avg Background Gas	Max Connection Gas	Max Trip Gas	Max Drill Gas
		33.00	36.00	33.00	33.00

Operations at Report Time
Building 50 bbl Hi-Visc sweep, prepare to back ream out of hole to 6028'

Operations Summary
Drilled 177' of 12 1/4" with Baker Hughes Tru-Track assembly from 6160' to 6337'. Pipe stuck at 6332' work and free pipe, build Hi-Visc sweep.

Remarks
Last survey 6275', 1.14 degrees. (Baker hughes Tru Track)
Safety Meeting Topic: Communication, Team Work, Housekeeping.
Lithology: 100% sandstone @ 6330'.
Drill pipe on location : Hole-159 jts / Derrick & Mouse hole - 21 jts / Racks-213 jts. Total of: 393 jts.
Visually checked reserve pits, choke manifold, flare line and BOP's , ok.
Acc. Manifold : 1,350 psi / Acc : 2,900 psi / Annular : 1,000 psi.
BHA Rotating hours since last inspection: 29 hrs.
Note : Total oil base Mud lost to date (11/7/10) : 3,194 bbls.
Note : Total oil base Mud lost last to the hole 24 - hrs. : 160 bbls.

Operations Next Report Period
Pump Hi-Visc, LCM sweep, and back ream out of hole to 6028', Ream back in hole. Reduce mud weight to 9.0.

Continue drilling 12 1/4" Hole, monitoring all drilling parameters for abnormal pressure detection, and losses of drilling fluid.

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com
06:00	12:00	6.00	SLDDRLG	PP	Drilled ahead utilizing "Baker Tru Trac", monitored all drilling parameters, pumps : 94/94 = 657 gpm, motor : (.16 r/gpm) 104 rpm's @ bit, Bit wt. : 20 - 35 K, More than 35 K WOB causes drill string to bounce. BGG : 25 units. Drilled from 6,160', to 6,195', (drilled 35', 5.8 ft/hr.). Note : Mud loggers samples indicated 95 % sandstone , 5 % shale, small trace of lime stone.
12:00	13:00	1.00	RIGSER	PP	Repaired # 1 pump, replaced swab. Circulated with # 2 pump , during repairs.
13:00	18:00	5.00	SLDDRLG	PP	Drilled ahead utilizing "Baker Tru Trac", monitored all drilling parameters, pumps : 94/94 = 657 gpm, motor : (.16 r/gpm) 104 rpm's @ bit, Bit wt. : 20 - 35 K, More than 35 K WOB causes drill string to bounce. BGG : 39 units., mud wt : 9.4 ppg., vis 47 sec/qt. Drilled from 6,195', to 6,247', (drilled 52', 10.4 ft/hr.). Note : Mud loggers samples indicated 95 % sandstone , 5 % shale, small trace of lime stone.
18:00	01:30	7.50	SLDDRLG	PP	Drilled ahead utilizing "Baker Tru Trac", monitored all drilling parameters, pumps : 95/95 = 663 gpm, 2750 psi off bottom, drlg with 35-125 psi differential pressure. Bit wt. : 20 - 37 K motor : (.16 r/gpm) 104 rpm's @ bit. Connection @ 6304'. BGG : 35 units., mud wt : 9.2 ppg., vis 47 sec/qt. Drilled from 6,247', to 6,304', (drilled 52', 7.8 ft/hr.). Note : Mud loggers samples indicated 95 % sandstone , 5 % shale, small trace of lime stone.
01:30	02:00	0.50	CLNBH	PP	Slow speed checks on both pumps. Sync Baker Hughes Tru-Track tool. Survey: 1.14 degrees, @ 6275'
02:00	05:00	3.00	SLDDRLG	PP	Drilled ahead utilizing "Baker Tru Trac", monitored all drilling parameters, pumps : 95/95 = 663 gpm, 2750 psi off bottom, drlg with 50-175 psi differential pressure. Bit wt. : 35 - 41 K motor : (.16 r/gpm) 104 rpm's @ bit. BGG : 35 units., mud wt : 9.3 ppg., vis 47 sec/qt. Drilled from 6,304', to 6,337', (drilled 33', 11 ft/hr.). At 6332' Driller picked up on string and pulled 10k over string weight. Note : Mud loggers samples indicated 100 % sandstone.
05:00	06:00	1.00	U_SP	PN	6332'. Closed ribs on Tru-Track tool. (String weight 206k) Work pipe, apply rotary torque to string, pulling 15k over string weight, approx 2' of movement. Pull 35k over string weight with rotary torque. Pull 64k over string weight approx 5' of movement. Cocked and set off Jars, pulling 64k over string weight, gained movement and rotation. Bring pumps on-line 30 X 30, 209 GPM, 400 PSI, pull one joint to 6303' pumps to 95 X 95, 670 GPM, 2800 PSI. Circulate on hole, while building 50 bbl, Hi-Visc LCM Sweep.

Total AFE + Sup (Cost)
9,064,000.00

AFE Job Cost Summary

Cost Type	AFE Amt (Cost)
DHC	7,600,000.00
CWC	1,464,000.00

Field Estimate Job Cost Summary

Cost Type	Field Est (Cost)
DHC	6,249,085.81

Daily Summary

Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
135,731.79	6,253,765.21
Daily Mud Field Est (Cost)	**Cum Mud Field Est (Cost)**
79,746.37	821,218.56

POL (Personnel on Location)
25.0

Daily Contacts

Job Contact	Title
Noah Dupuis	Drlg. Foreman
Bill Vigil	Drlg. Foreman
Mike Reel	Drilling Supt
Eric Burnett	Drilling Engineer

Personnel Log

Company	Count
PIONEER NATURAL RESOURCES	1
PIONEER NATURAL RESOURCES	1
NABORS DRILLING INC	2
NABORS DRILLING INC	12
BAKER HUGHES INTEQ	2
ZECO	2
SELMA	2
NEWPARK	1
BADLANDZER	2

Weather

Precipitation Amount (in)	Precipitation Type
Temperature - High (°F)	**Temperature - Low (°F)**

Comment

NABORS DRILLING, 169

Rig Type
Drilling - Triple

Rig Start Date	Rig Release Date
9/22/2010	

1, National Supply, 10-P-130

Pump Number
1

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)
Yes	155.0	40	133	95
Yes	230.0	50	166	95
Yes	360.0	60	199	95

2, National Supply, 10-P-130

Pump Number
2

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)
Yes	370.0	60	199	95
Yes	190.0	40	133	95
Yes	260.0	50	166	95

Job Supply Amounts

Supply Item Des	Unit Label	Received	Consumed	Cum On Loc
Diesel Fuel	gal us	6,958		6,958

Mud Additive Amounts

Des	Consumed	Cum Cons
Bentone 910	28	200
BULK TANK	2	114
BULK TANK BLOWERS	2	92
Cyber Seal	162	207
Drum Disposal	16	64
Dyna Fiber Cor	61	750

Safety Summary

BOP Test Date	Last BOP Test	BOP Func Due	HSE Incident	HSE Inc Remark
13/12/2010	10/11/2010	17/11/2010	None	

11/8/2010

PIONEER NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 11/8/2010
REPORT: 74
DOL: 72.67
DFS: 46.60

Rig Name: NABORS DRILLING 169

Depth Progress: 177.00

Daily Summary

Mud Properties

Daily Cost: 79,746.37 Cost Cum Cost: 821,218.56 Cost

Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	T Flowline (°F)
03:30	Oil Base	6,323.0	9.40	47	132.8

PV (cp)	YP (lbf/100ft²)	Filtrate (mL/30min)	HTHP Filtrate (mL/30…	HTHP Pressure (psi)	HTHP Temperature (°F)
13.0	15.000		5.0		250.0

Solids (%)	Sand (%)	MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)
13.0					

Chlorides (ppm)	Calcium (ppm)	Oil Water Ratio	Electric Stab (V)	Lime (lb/bbl)	Low Gravity Solids (%)
		83/17	701.0	4.1	9.9

Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Comment
12.000	13.000	

Bottom Hole Assembly

BHA Since Insp (hr)	BHA Wt BelowJar (1000lbf)	Hrs on Jars (hr)

BHA #18 , Steerable

Bit Run	Drill Bit	Bit Type	Make
1	12 1/4in, 637, PL6488	PDC	Smith

Nozzles (1/32")	IADC Codes	IADC Bit Dull
18/18/18	___	-------

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)
0.75	31.50	309.00

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)
31.50	309.00	9.8	6,028.0	6,337.0

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
159	Drill Pipe	5	4.276	6,179.71	7,552.77
7	HWDP	5	3.000	215.16	1,373.06
1	Jars	6 3/8	2.875	32.57	1,157.90
19	HWDP	5	3.000	583.54	1,125.33
1	X/O	6 3/8	2.813	3.57	541.79
9	6-1/2" DC's	6 1/2	2.875	276.70	538.22
1	X/O	6 1/2	2.813	2.92	261.52
6	8" DC's	8	2.875	183.85	258.60
1	Mechanical Thruster	8	3.563	26.78	74.75
1	Float Sub	8 1/16	2.938	2.49	47.97
1	Filter Sub	8	2.875	4.88	45.48
1	XO Sub	8 1/4	3.000	3.12	40.60
1	Stop Sub	9 1/2	3.500	1.46	37.48
1	9-1/2" True Trak, Adjustable Pads w/ Stab	9 1/2		36.02	36.02

Drilling Parameters

6,160.0 - 6,337.0 ftKB

Start (ftKB)	End Depth…	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note
6,160.0	6,337.0	8.2	38		125.0	656	2,750.0	

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100…	SO Str Wt (100…	Drill Str Wt (100…	Torque Units	Drilling Torque	Off Btm Tq
21.50	3.00	206	206				

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/…	Max Open Hole AV (ft…
259.7	2.2	282.3	678.6	12.7	74.4

Casing Strings

Prop Run?	Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
Yes	Conductor	105.0	105.0	30	ERW	118.00		
Yes	Surface	4,345.0	4,344.6	13 3/8	K-55	68.00		

Plug Back Total Depths

Date	Depth (ftKB)	Type	Method

Deviation Surveys

Tru-Trak, Proposed? No

Date	Description	Job
9/23/2010	Tru-Trak	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
10/15/2010	5,896.00	0.44		5,895.60				
10/15/2010	5,993.00	0.26		5,992.60				
11/7/2010	6,085.00	0.18		6,084.60				
11/7/2010	6,181.00	0.35		6,180.60				
11/7/2010	6,275.00	1.14		6,274.60				

Mud Additive Amounts

Des	Consumed	Cum Cons
GSX-509		0
Lime	12	337
Mica F	78	480
MUD ENGINEER	1	57
MUD LAB	1	49
New Bar		252
New Carb Med	31	507
New Seal	98	160
OptiDrill OBM (1 bbl/bulk)	285	3,033
Opti-Mul	5	28
Opti-Plus	5	23
OptiVis RM	26	64
Pallets	47	92
SHRINK WRAP	39	47
Tax	4,104	41,561
Trucking	1,587	59,661

Formations

Formation Name	Final Top MD (ftKB)
Quaternary	80.0
Tertiary Volcanic	1,300.0
Tertiary Undivided	1,830.0
North Horn	3,810.0
UNCONFORMITY	4,345.0
Arapien	4,345.0
FAULT	
Arapien	
Twin Creek	
Gypsum Sprgs Mbr	
Navajo	
Chinle	
TD	

Safety Summary

11/8/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 11/9/2010
REPORT: 75
DOL: 73.67
DFS: 47.60

Rig Name: NABORS DRILLING 169

Depth Progress: 8.00

Daily Summary

Property Sub	Field Name	API/UWI	Spud Date
327560-001	WILDCAT	43-023-30021-0000	9/22/2010

KB-Ground Distance (ft)	Original KB Elevation (ft)	KB-Mud Line Distance (ft)
25.00	5,264.00	

Daily Operations

Target Depth (ftKB)	Target Depth (TVD) (ftKB)	End Depth (ftKB)	End Depth (TVD) (ftKB)
9,040.0		6,341.0	

Footage/Meterage (ft)	24 HR ROP (ft/hr)	Drilling Hours (hr)
8.00	2.0	4.00

Avg Connection Gas	Avg Trip Gas	Avg Background Gas	Max Connection Gas	Max Trip Gas	Max Drill Gas
	20.00	16.00	22.00	20.00	20.00

Operations at Report Time
Drilling ahead @ 6,341', (rop : 6 ft/hr.).

Operations Summary
Back reamed up to 6,028', reamed back to 6,328' (Torque : 6,328' - 30'). drilled 6,030' - 38', problems Baker tool wall sticking.
TOH to inspect bit & Baker Tru Trac.(Bit under gauged 3/8"), replaced same & TIH, reamed from 6195' , to 6251',
due to taking wt.(10-12 K), from 6251' to 6335' taking 5-8k. Ream 6335' to 6338' pattern in bit.
Slide drilling from 6338' to 6341' no losses detected.

Remarks
Last survey 6,307', 0.44 degrees. (Baker hughes Tru Track)
Safety Meeting Topic: Slips & falls in snow & ice..
Lithology: 100% sandstone @ 6330'.
Drill pipe on location : Hole-159 jts / Derrick & Mouse hole - 21 jts / Racks-213 jts. Total of: 393 jts.
Visually checked reserve pits, choke manifold, flare line and BOP's , ok.
Acc. Manifold : 1,350 psi / Acc : 2,900 psi / Annular : 1,000 psi.
BHA Rotating hours since last inspection: 29.5 hrs.
Note : Total oil base Mud lost to date (11/7/10) : 3213 bbls.
Note : Total oil base Mud lost last to the hole 24 - hrs. : 180 bbls.
Note : We have enough volume of base & mud to build + 1100 bbls. of 9.0 ppg. mud, if needed. Also on order, ETA, Tuesday pm, 3 truck loads of base oil.
Note : Monday ,Nov. 8 th. , stopped all additions of different LCM, and started adding Ne wPark " Fiber Fluid ", per approval of the Baker techs on location, this product has the appearance of saw dust, our plan is to add 5-7 #/bbl. throught system, to reduce mud losses, to an aceptable level .

Operations Next Report Period
Continue drilling 12 1/4" Hole, monitoring all drilling parameters for abnormal pressure detection, and losses of drilling fluid.
Maintain mud weight : 9.0 pppg., adding only "Fiber Fluid" to reduce mud loss to formation.

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com
06:00	09:00	3.00	U_TH	PN	Circ. @ 6,307', pumped high vis sweep. Back reamed from 6,307', to 6,028', no drag, no torque, no problems. Safety reamed back in hole, from 6,028', to 6,328'. (Torque at 6,028'). Pumped 69 bbls. of high vis. - sweep (+ 100 sec/qt.), on B/U no increase of cuttings noted at shaker.
09:00	09:30	0.50	U_RIG	PN	Repaired # 1 mud pump, problem with water line , for liner washer pump. Circ. with # 2 pump, during repair operation.
09:30	14:00	4.50	SLDDRLG	PP	Reamed 6,328' - 30', slight torque. Drilled from 6,330', to 6,338' (8 ', rop : 2 ft/hr.).. Problems with Baker Tru Trac, wall sticking, tried various bit weights from 0 - 50 K, closed ribs on tool, and attempted to drill with ribs closed, still hanging problems. Increased pumps from 90/90, to 97/97, no success. (97/97 = 677 gpm = 2,869 psi), low differential pressure (0 - 75 psi max.). Decesion made to, TOH and inspect bit, and Baker Tru Trac tool. Note : Actual on bottom hours with bit : 32 - hrs., Total Ftg : 310', average rop : 9.7 ft/hr.
14:00	14:30	0.50	PUMPPILL	PP	Circ. & mix slug, Check flow , well static, slug drill pipe.
14:30	17:00	2.50	TRIP	PP	TOH to 1,500' , no abnormal drag, hole taking correct dispalcement, recorded with manual trip tank gauge, (Rig Watch" electronic monitors not operable.
17:00	17:30	0.50	BOPS	PP	Removed rotating head, and installed trip nipple on Weatherford rotating head assembly.
17:30	20:00	2.50	BHA	PP	Finish TOH, with BHA. Visually inspected Baker Tru Trac tool, no visiable defects noted. Tool is rated for 180 hrs., cumm hrs. to date : 40, 140 hrs. of projected life left. The Smith bit was 3/8" under gauged (actual O.D. of the bit was + - 11 15/16" , broken & worn cutters on the gage row of the cones, the diamond gage skirt protection, was not worn. Note : O.D. of the Baker Tru Trac stabilization blades : 12" .
20:00	23:00	3.00	BHA	PP	MU Hughes 12 1/4" GX-28DX insert bit with diamond gauge protection, Baker Hughes Tru-Track assembly and BHA #19, TIh to 1374'. Check Float and filter sub on top of Tru-Track.
23:00	23:30	0.50	LWD	PP	Fill pipe and test Baker Hughes Tru-Track. All tested good.
23:30	02:00	2.50	TRIP	PP	TIH with 5" DP to 5350'. Filled pipe and broke roke circulation at 3500'
02:00	02:30	0.50	BOPS	PP	Pulled trip nipple and installed rotating head.
02:30	04:00	1.50	TRIP	PP	Continue TIH with 5" DP from 5350' to 6307'. Tagged @ 6195', 10-12k
04:00	05:30	1.50	RMCLN	PN	Safety reamed from 6195', to 6338', no problems, reaming, taking 5-10k wt., while reaming ...,Reamed to 6,338', fanned bottom, and allowed bit to pattern.

Total AFE + Sup (Cost)
9,064,000.00

AFE Job Cost Summary

Cost Type	AFE Amt (Cost)
DHC	7,600,000.00
CWC	1,464,000.00

Field Estimate Job Cost Summary

Cost Type	Field Est (Cost)
DHC	6,387,318.38

Daily Summary

Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
138,232.57	6,391,997.78
Daily Mud Field Est (Cost)	**Cum Mud Field Est (Cost)**
38,208.61	859,427.17

POL (Personnel on Location)
25.0

Daily Contacts

Job Contact	Title
Noah Dupuis	Drlg. Foreman
Bill Vigil	Drlg. Foreman
Mike Reel	Drilling Supt
Eric Burnett	Drilling Engineer

Personnel Log

Company	Count
PIONEER NATURAL RESOURCES	1
PIONEER NATURAL RESOURCES	1
NABORS DRILLING INC	2
NABORS DRILLING INC	12
BAKER HUGHES INTEQ	2
ZECO	2
SELMA	2
NEWPARK	1
BADLANDZER	2

Weather

Precipitation Amount (in)	Precipitation Type
Temperature - High (°F)	**Temperature - Low (°F)**

Comment

NABORS DRILLING, 169

Rig Type: Drilling - Triple

Rig Start Date	Rig Release Date
9/22/2010	

1, National Supply, 10-P-130

Pump Number: 1

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

2, National Supply, 10-P-130

Pump Number: 2

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

Job Supply Amounts

Supply Item Des	Unit Label	Received	Consumed	Cum On Loc
Diesel Fuel	gal us	6,958		6,958

Mud Additive Amounts

Des	Consumed	Cum Cons
Bentone 910	24	224
BULK TANK	2	116
BULK TANK BLOWERS	2	94
Fiber Fluid Cor	144	144
GSX-509	6	6
Lime	36	373
MUD ENGINEER	1	58
MUD LAB	1	50
New Bar (Ton/bulk)	3	168

Safety Summary

BOP Test Date	Last BOP Test	BOP Func Due	HSE Incident	HSE Inc Remark
13/12/2010	10/11/2010	17/11/2010	None	

11/9/2010

PIONEER NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 11/9/2010
REPORT: 75
DOL: 73.67
DFS: 47.60

Rig Name: NABORS DRILLING 169

Depth Progress: 8.00

Daily Summary

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com
05:30	06:00	0.50	SLDDRL G	PP	Slide Drlg 6338' to 6341'. 95 X 95 - 663 GPM, 2650 PSI. 5 - 35K WOB. Bit RPM = 106. ROP 6'/hr No losses.

Mud Properties

Daily Cost: 38,208.61 Cost Cum Cost: 859,427.17 Cost

Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	T Flowline (°F)
03:00	Oil Base	6,338.0	9.00	48	

PV (cp)	YP (lbf/100ft²)	Filtrate (mL/30min)	HTHP Filtrate (mL/30...	HTHP Pressure (psi)	HTHP Temperature (°F)
12.0	16.000		16.0		

Solids (%)	Sand (%)	MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)
10.0					

Chlorides (ppm)	Calcium (ppm)	Oil Water Ratio	Electric Stab (V)	Lime (lb/bbl)	Low Gravity Solids (%)
		81/19	801.0	4.3	6.9

Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Comment
12.000	15.000	

Bottom Hole Assembly

BHA Since Insp (hr)	BHA Wt BelowJar (1000lbf)	Hrs on Jars (hr)

BHA #18 , Steerable

Bit Run	Drill Bit	Bit Type	Make
7	12 1/4in, 5GA, PL6488	Insert	Smith

Nozzles (1/32")	IADC Codes	IADC Bit Dull
18/18/18	622	1-8-BT-G-5-3-BT-PR

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)
0.75	35.00	314.00

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)
35.00	314.00	9.0	6,028.0	6,338.0

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
159	Drill Pipe	5	4.276	6,179.71	7,552.77
7	HWDP	5	3.000	215.16	1,373.06
1	Jars	6 3/8	2.875	32.57	1,157.90
19	HWDP	5	3.000	583.54	1,125.33
1	X/O	6 3/8	2.813	3.57	541.79
9	6-1/2" DC's	6 1/2	2.875	276.70	538.22
1	X/O	6 1/2	2.813	2.92	261.52
6	8" DC's	8	2.875	183.85	258.60
1	Mechanical Thruster	8	3.563	26.78	74.75
1	Float Sub	8 1/16	2.938	2.49	47.97
1	Filter Sub	8	2.875	4.88	45.48
1	XO Sub	8 1/4	3.000	3.12	40.60
1	Stop Sub	9 1/2	3.500	1.46	37.48
1	9-1/2" True Trak, Adjustable Pads w/ Stab	9 1/2		36.02	36.02

Drilling Parameters

6,333.0 - 6,338.0 ftKB

Start (ftKB)	End Depth...	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note
6,333.0	6,338.0	1.4	38		125.0	656	2,750.0	

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100...	SO Str Wt (100...	Drill Str Wt (100...	Torque Units	Drilling Torque	Off Btm Tq
3.50	3.50	206	206				

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/...	Max Open Hole AV (ft...
259.7	2.2	282.3	678.6	12.7	74.4

BHA #19 , Steerable

Bit Run	Drill Bit	Bit Type	Make
8	12 1/4in, GX-28DX, 5166737	Insert	Hughes

Nozzles (1/32")	IADC Codes	IADC Bit Dull
22/22/18	_527	-------

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)
0.99	0.50	3.00

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)
0.50	3.00	6.0	6,338.0	6,341.0

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
159	Drill Pipe	5	4.276	6,179.71	7,552.77
7	HWDP	5	3.000	215.16	1,373.06
1	Jars	6 3/8	2.875	32.57	1,157.90
19	HWDP	5	3.000	583.54	1,125.33
1	X/O	6 3/8	2.813	3.57	541.79
9	6-1/2" DC's	6 1/2	2.875	276.70	538.22
1	X/O	6 1/2	2.813	2.92	261.52
6	8" DC's	8	2.875	183.85	258.60
1	Mechanical Thruster	8	3.563	26.78	74.75
1	Float Sub	8 1/16	2.938	2.49	47.97
1	Filter Sub	8	2.875	4.88	45.48
1	XO Sub	8 1/4	3.000	3.12	40.60
1	Stop Sub	9 1/2	3.500	1.46	37.48
1	9-1/2" True Trak, Adjustable Pads w/ Stab	9 1/2		36.02	36.02

Mud Additive Amounts

Des	Consumed	Cum Cons
OptiDrill OBM (1 bbl/bulk)	180	3,213
Opti-Mul	2	30
Opti-Plus	2	25
OptiVis RM	12	76
Tax	2,160	43,721

Formations

Formation Name	Final Top MD (ftKB)
Quaternary	80.0
Tertiary Volcanic	1,300.0
Tertiary Undivided	1,830.0
North Horn	3,810.0
UNCONFORMITY	4,345.0
Arapien	4,345.0
FAULT	
Arapien	
Twin Creek	
Gypsum Sprgs Mbr	
Navajo	
Chinle	
TD	

Safety Summary

11/9/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 11/9/2010
REPORT: 75
DOL: 73.67
DFS: 47.60

Rig Name: NABORS DRILLING 169

Depth Progress: 8.00

Daily Summary

Drilling Parameters

6,338.0 - 6,341.0 ftKB

Start (ftKB)	End Depth…	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note
6,338.0	6,341.0	6.0	15			663	2,650.0	

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100…	SO Str Wt (100…	Drill Str Wt (100…	Torque Units	Drilling Torque	Off Btm Tq
0.50	2.00	206	206	206			

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/…	Max Open Hole AV (ft…
151.7	1.3	214.7	392.3	12.8	75.2

Casing Strings

Prop Run?	Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
Yes	Conductor	105.0	105.0	30	ERW	118.00		
Yes	Surface	4,345.0	4,344.6	13 3/8	K-55	68.00		

Plug Back Total Depths

Date	Depth (ftKB)	Type	Method

Deviation Surveys

Tru-Trak, Proposed? No

Date	Description	Job
9/23/2010	Tru-Trak	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
10/15/2010	5,993.00	0.26		5,992.60				
11/7/2010	6,085.00	0.18		6,084.60				
11/7/2010	6,181.00	0.35		6,180.60				
11/7/2010	6,275.00	1.14		6,274.60				
11/7/2010	6,307.00	0.44		6,306.60				

Safety Summary

11/9/2010

PIONEER NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1 | **Daily Drilling Report** | **REPORT DATE: 11/10/2010**

Rig Name: NABORS DRILLING 169 | **REPORT: 76**

Depth Progress: 15.00 | **DOL: 74.71** | **DFS: 48.60**

Daily Summary

Property Sub	Field Name	API/UWI	Spud Date
327560-001	WILDCAT	43-023-30021-0000	9/22/2010

KB-Ground Distance (ft)	Original KB Elevation (ft)	KB-Mud Line Distance (ft)
25.00	5,264.00	

Daily Operations

Target Depth (ftKB)	Target Depth (TVD) (ftKB)	End Depth (ftKB)	End Depth (TVD) (ftKB)
9,040.0		6,356.0	

Footage/Meterage (ft)	24 HR ROP (ft/hr)	Drilling Hours (hr)
15.00	1.4	10.50

Avg Connection Gas	Avg Trip Gas	Avg Background Gas	Max Connection Gas	Max Trip Gas	Max Drill Gas
0.00	159.00	21.00	23.00	193.00	37.00

Operations at Report Time

TIH with new rotary BHA, to drill ahead.

Operations Summary

Drilled from 6,341', to 6,356' (15 '), very low rop, changed every drilling parameter in attempt to increase rop, with no success....
TOH, replaced bit, and changed BHA, to rotary drilling BHA.
Started TIH with same, to resume drilling ahead.

Remarks

Last survey 6,307', 0.44 degrees. (Baker Hughes Tru Track)
Safety Meeting Topic: TOH
Lithology: 100% sandstone @ 6330'.
Drill pipe on location : Hole-159 jts / Derrick & Mouse hole - 21 jts / Racks-213 jts. Total of: 393 jts.
Visually checked reserve pits, choke manifold, flare line and BOP's , ok.
Acc. Manifold : 1,350 psi / Acc : 2,900 psi / Annular : 1,000 psi.
BHA Rotating hours since last inspection: 30.5 hrs.
Note : Total oil base Mud lost to date (11/10/10) : 3217 bbls.
Note : Total oil base Mud lost last to the hole 24 - hrs. : 4 bbls.
Note : We have enough volume of base & mud to build + 1100 bbls. of 9.0 ppg. mud, if needed. Also on order, ETA, Wednesday pm, 3 truck loads of base oil .
Note : Monday ,Nov. 8 th. , stopped all additions of different LCM, and started adding NewPark " Fiber Fluid ", per approval of the Baker techs on location, this product has the appearance of saw dust, past 24 hrs. utilizing " Fiber Fluid", 4 bbls loss to the hole recorded.

Operations Next Report Period

Finish TIH, with rotary BHA to 6,356', fan bottom, and work boot basket, to catch inserts from Smith bit.
Continue drilling 12 1/4" Hole, monitoring all drilling parameters for abnormal pressure detection, and losses of drilling fluid.
Maintain mud weight : 9.0 pppg., adding only "Fiber Fluid" to reduce mud loss to formation.

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com
06:00	06:30	0.50	U_RIG	PN	Repair # 1 mud pump, replaced swab. Circ. with # 2 mud pump during repairs. Current depth : 6,341' md.
06:30	17:00	10.50	SLDDRLG	PP	Drilled ahead from 6,341', to 6,356' (Made 15', @ 1.4 ft/hr). (Pumps : 95/95 - 90/90 = 663 gpm - 628 gpm) rpm's @ bit : 106/100 Note : every attempt was made to increase rop to aceptable level. All drill weights from 0 , to 60,000 were attempted. Pumped two base oil pills , no increase in rop. Cycled Tru Trac tool to ribs in, continued drilling, no increase in rop noted. Reduced gpm to 528 gpm, lower end of gpm tool rating, reduced bit rpm's to 85, rop 2' - 4' ft/hr. max. Decesion made to TOH, inspect bit, replace if needed, and change BHA to rotary assembly.
17:00	18:00	1.00	CIRC	PP	Checked flow @ 6,356', well static, attempt to slug drill pipe, failed to slug pipe, due to derrickman lining up pumps incorrect . Continued Circ., until second slug was mixed, slug drill pipe.
18:00	20:30	2.50	TRIP	PP	TOH, to replace bit, and change BHA. No abnormal drag noted., Hole took correct displacemnt, recorded at trip tank manual gauge, electronic gauge inoperable. TOH to BHA.
20:30	21:00	0.50	BOPS	PP	Pulled rotating head,and installed trip nipple.
21:00	00:00	3.00	BHA	PP	Finish TOH, LD stop sub, filter sub, x-over and bit. LD Tru-Track, and mechanical thruster, on catwalk. Inspected bit, in gauge, worn inserts.
00:00	00:30	0.50	BOPS	PP	Clean rig floor, due to Safety considerations. Replaced rubber element on rotating head bearing package, checked oil in oiler/ ok.
00:30	05:00	4.50	BHA	PP	Picked up ,and make up new BHA # 20
05:00	05:30	0.50	BOPS	PP	Pulled trip nipple,and installed rotating head bearing package.
05:30	06:00	0.50	CIRC	PP	Fill pipe & Function test " Teledrift, test ok.
06:00	07:00	1.00	TRIP	PP	Continued TIH with new BHA, to 2000', Taking returns to trip tank, correct displacement recorded, no abnormal drag noted TIH.

Mud Properties

Daily Cost: 18,959.11 Cost Cum Cost: 877,710.08 Cost

Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	T Flowline (°F)
03:30	Oil Base	6,352.0	9.00	52	132.0

PV (cp)	YP (lbf/100ft²)	Filtrate (mL/30min)	HTHP Filtrate (mL/30...	HTHP Pressure (psi)	HTHP Temperature (°F)
12.0	16.000		4.5		250.0

Solids (%)	Sand (%)	MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)
10.0					

Chlorides (ppm)	Calcium (ppm)	Oil Water Ratio	Electric Stab (V)	Lime (lb/bbl)	Low Gravity Solids (%)
		81/19	766.0	4.1	6.9

Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Comment
13.000	14.000	

Bottom Hole Assembly

BHA Since Insp (hr)	BHA Wt BelowJar (1000lbf)	Hrs on Jars (hr)

Total AFE + Sup (Cost): 9,064,000.00

AFE Job Cost Summary

Cost Type	AFE Amt (Cost)
DHC	7,600,000.00
CWC	1,464,000.00

Field Estimate Job Cost Summary

Cost Type	Field Est (Cost)
DHC	6,482,256.49

Daily Summary

Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
94,938.11	6,486,935.89
Daily Mud Field Est (Cost)	**Cum Mud Field Est (Cost)**
18,959.11	877,710.08

POL (Personnel on Location): 25.0

Daily Contacts

Job Contact	Title
Noah Dupuis	Drlg. Foreman
Bill Vigil	Drlg. Foreman
Mike Reel	Drilling Supt
Eric Burnett	Drilling Engineer

Personnel Log

Company	Count
PIONEER NATURAL RESOURCES	1
PIONEER NATURAL RESOURCES	1
NABORS DRILLING INC	2
NABORS DRILLING INC	12
BAKER HUGHES INTEQ	2
ZECO	2
SELMA	2
NEWPARK	1
BADLANDZER	2

Weather

Precipitation Amount (in)	Precipitation Type
Temperature - High (°F)	**Temperature - Low (°F)**

Comment

NABORS DRILLING, 169

Rig Type: Drilling - Triple

Rig Start Date	Rig Release Date
9/22/2010	

1, National Supply, 10-P-130

Pump Number: 1

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

2, National Supply, 10-P-130

Pump Number: 2

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

Job Supply Amounts

Supply Item Des	Unit Label	Received	Consumed	Cum On Loc
Diesel Fuel	gal us	6,958		6,958

Mud Additive Amounts

Des	Consumed	Cum Cons
Bentone 910	26	250
BULK TANK	2	118
BULK TANK BLOWERS	2	96
Fiber Fluid Cor	120	240
GSX-509	16	22
Lime	46	419
MUD ENGINEER	1	59
MUD LAB	1	51
OptiDrill OBM (1 bbl/bulk)	4	3,217

Safety Summary

BOP Test Date	Last BOP Test	BOP Func Due	HSE Incident	HSE Inc Remark
13/12/2010	10/11/2010	17/11/2010		

11/10/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 11/10/2010
REPORT: 76
DOL: 74.71
DFS: 48.60

Rig Name: NABORS DRILLING 169

Depth Progress: 15.00

Daily Summary

BHA #19 , Steerable

Bit Run	Drill Bit	Bit Type	Make
8	12 1/4in, GX-28DX, 5166737	Insert	Hughes

Nozzles (1/32")	IADC Codes	IADC Bit Dull
22/22/18	_527	1-1-WT-A-2-0--PR

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)
0.99	11.00	18.00

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)
11.00	18.00	1.6	6,338.0	6,356.0

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
159	Drill Pipe	5	4.276	6,179.71	7,552.77
7	HWDP	5	3.000	215.16	1,373.06
1	Jars	6 3/8	2.875	32.57	1,157.90
19	HWDP	5	3.000	583.54	1,125.33
1	X/O	6 3/8	2.813	3.57	541.79
9	6-1/2" DC's	6 1/2	2.875	276.70	538.22
1	X/O	6 1/2	2.813	2.92	261.52
6	8" DC's	8	2.875	183.85	258.60
1	Mechanical Thruster	8	3.563	26.78	74.75
1	Float Sub	8 1/16	2.938	2.49	47.97
1	Filter Sub	8	2.875	4.88	45.48
1	XO Sub	8 1/4	3.000	3.12	40.60
1	Stop Sub	9 1/2	3.500	1.46	37.48
1	9-1/2" True Trak, Adjustable Pads w/ Stab	9 1/2		36.02	36.02

Drilling Parameters

6,341.0 - 6,356.0 ftKB

Start (ftKB)	End Depth...	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note
6,341.0	6,356.0	1.4	15			663	2,650.0	

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100...	SO Str Wt (100...	Drill Str Wt (100...	Torque Units	Drilling Torque	Off Btm Tq
10.50	1.50	206	206	206			

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/...	Max Open Hole AV (ft...
145.3	1.2	214.7	375.6	12.8	75.2

BHA #20 , Slick

Bit Run	Drill Bit	Bit Type	Make
9	12 1/4in, F67 OD, PL1313	Insert	Smith

Nozzles (1/32")	IADC Codes	IADC Bit Dull
18/18/18	647Y	-------

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)
0.75		

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)
			6,356.0	6,356.0

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
159	Drill Pipe	5	4.276	5,021.00	6,354.92
7	HWDP	5	3.000	215.16	1,333.92
1	Jars	6 3/8	2.875	32.57	1,118.76
19	HWDP	5	3.000	583.54	1,086.19
1	X/O	6 3/8	2.813	3.57	502.65
9	6-1/2" DC's	6 1/2	2.875	276.70	499.08
1	X/O	6 1/2	2.813	2.92	222.38
5	8" DC's	8	2.875	153.83	219.46
1	Reamer	12 1/4	2.750	6.82	65.63
1	8" Drill Collar	8	2.875	30.02	58.81
1	Roller Reamer	12 1/4	2.750	8.15	28.79
1	Tele-Drift	8	2.875	8.46	20.64
1	Near Bit Roller Reamer	12 1/4	2.750	6.92	12.18
1	Junk Sub	9 5/8	3.500	5.26	5.26

Drilling Parameters

6,356.0 - 6,356.0 ftKB

Start (ftKB)	End Depth...	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note
6,356.0	6,356.0							

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100...	SO Str Wt (100...	Drill Str Wt (100...	Torque Units	Drilling Torque	Off Btm Tq
0.00	0.00						

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/...	Max Open Hole AV (ft...
				0.0	0.0

Casing Strings

Prop Run?	Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
Yes	Conductor	105.0	105.0	30	ERW	118.00		
Yes	Surface	4,345.0	4,344.6	13 3/8	K-55	68.00		

Plug Back Total Depths

Date	Depth (ftKB)	Type	Method

Deviation Surveys

Tru-Trak, Proposed? No

Date	Description	Job
9/23/2010	Tru-Trak	EXD, 9/22/2010 09:00

Mud Additive Amounts

Des	Consumed	Cum Cons
Opti-Mul	4	34
Opti-Plus	4	29
Tax	872	44,593
Trucking	3,710	63,371

Formations

Formation Name	Final Top MD (ftKB)
Quaternary	80.0
Tertiary Volcanic	1,300.0
Tertiary Undivided	1,830.0
North Horn	3,810.0
UNCONFORMITY	4,345.0
Arapien	4,345.0
FAULT	
Arapien	
Twin Creek	
Gypsum Sprgs Mbr	
Navajo	
Chinle	
TD	

Safety Summary

11/10/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Daily Drilling Report

Well Name: South Hills 6-1

Rig Name: NABORS DRILLING 169

Depth Progress: 15.00

REPORT DATE: 11/10/2010
REPORT: 76
DOL: 74.71
DFS: 48.60

Daily Summary

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
10/15/2010	5,993.00	0.26		5,992.60				
11/7/2010	6,085.00	0.18		6,084.60				
11/7/2010	6,181.00	0.35		6,180.60				
11/7/2010	6,275.00	1.14		6,274.60				
11/7/2010	6,307.00	0.44		6,306.60				

Safety Summary

11/10/2010

PIONEER NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 11/11/2010
REPORT: 77
DOL: 75.67
DFS: 49.60

Rig Name: NABORS DRILLING 169

Depth Progress: 80.00

Daily Summary

Property Sub	Field Name	API/UWI	Spud Date
327560-001	WILDCAT	43-023-30021-0000	9/22/2010

KB-Ground Distance (ft)	Original KB Elevation (ft)	KB-Mud Line Distance (ft)
25.00	5,264.00	

Daily Operations

Target Depth (ftKB)	Target Depth (TVD) (ftKB)	End Depth (ftKB)	End Depth (TVD) (ftKB)
9,040.0		6,436.0	

Footage/Meterage (ft)	24 HR ROP (ft/hr)	Drilling Hours (hr)
80.00	4.8	16.75

Avg Connection Gas	Avg Trip Gas	Avg Background Gas	Max Connection Gas	Max Trip Gas	Max Drill Gas
28.00		28.00			28.00

Operations at Report Time
Drilling @

Operations Summary
TIH to 6265', wash to 6355', fan bottom, shutting down pumps, no indication of junk, check gear end on mud pump #1, rotate drill & run teledrift surveys from 6355'-6436' Last Sure shot survey @ 6424' less than 1*.

Remarks
BHA Rotating hours since last inspection: 47 hrs.
Note : Total OBM lost to date (11/11/10) : 3239 bbls.
Note : OBM lost past 24 hrs: 22 bbls (surface = 18, hole = 4)

Operations Next Report Period
Drill 12 1/4" Hole

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com
06:00	07:15	1.25	TRIP	PP	TIH from 2000'-3500'
07:15	08:00	0.75	WLHEAD	PP	Pull trip nipple, install rotating head bushing assm
08:00	10:15	2.25	TRIP	PP	TIH from 3500'-6265', no tite hole from 4345'-6265', no fill on bottom
10:15	11:00	0.75	WA	PP	Wash from 6265'-6355', pumps 95X95 spm, 2850 psi, WOB 0-5K, TDS 50 rpm, torque 1500 ft/lbs, no excessive torque, no fill on bottom, cutting mwt from 9.7 to 9.6 ppg
11:00	11:30	0.50	RIGSER	PP	Mechanic checked gear end on #1 mud pump - OK
11:30	11:45	0.25	WA	PP	Tag bottom, @ 6355', pumps 95X95, 663 gpm, 2850 psi, TDS 50 rpm, WOB 0-5K, fan bottom 3 times shutting down pumps, no indication of junk
11:45	14:15	2.50	ROTDRLG	PP	Drill from 6355'-6362', pumps 95X95 spm, 663 gpm, 2785 psi, WOB 28-35K, TDS 35 rpm, Torque 3000 ft/lbs. Tried different TDS speed & WOB, drill string bouncing. Best parameters: WOB 32-40K, TDS 45-55 rpm Drilled 7', 2.4 hrs, avg ROP 2.9'/hr, on btm rotating time 2.4 hrs continue cutting mwt from 9.6 ppg, stabilized mwt @ 9.0+ ppg
14:15	14:45	0.50	DEVSUR	PP	Treledrift survey @ 6358', less than 1 deg, Nabors conducted BOP/Spill drill
14:45	21:00	6.25	ROTDRLG	PP	Drill from 6362'-6391', pumps 95X95 spm, 663 gpm, 2770 psi, WOB 28-52K, TDS 35-60 rpm, Torque 3000-5000 ft/lbs. Tried different TDS speeds & WOB, drill string bouncing, due to lithology. Drilled 29', 6.3 hrs, avg ROP 4.6 '/hr, on btm rotating time 2.4 hrs, Total on btm rotating time 8.7 hrs
21:00	21:15	0.25	DEVSUR	PP	Survey at 6389', less than 1 deg
21:15	23:45	2.50	ROTDRLG	PP	Drill from 6391-6409', pumps 95X95 spm, 663 gpm, 2770 psi, WOB 28-52K, TDS 35-60 rpm, Torque 3000-5000 ft/lbs. Drilled 18', 2.5 hrs, avg ROP 7.2 '/hr, on btm rotating time 2.5 hrs, Total on btm rotating time 11.2 hrs
23:45	00:15	0.50	DEVSUR	PP	Survey @ 6404' Less than 1 degree.
00:15	03:30	3.25	ROTDRLG	PP	Drill from 6409-6424', pumps 95X95 spm, 663 gpm, 2770 psi, WOB 28-52K, TDS 35-60 rpm, Torque 3000-5000 ft/lbs. Drilled 15', 3.25 hrs, avg ROP 4.6 '/hr, on btm rotating time 3.25 hrs, Total on btm rotating time 14.5 hrs
03:30	03:45	0.25	DEVSUR	PP	Survey @ 6424' Less that one degree.
03:45	06:00	2.25	ROTDRLG	PP	Drill from 6424-6436', pumps 95X95 spm, 663 gpm, 2770 psi, WOB 28-52K, TDS 35-60 rpm, Torque 3000-5000 ft/lbs. Drilled 12', 2.25 hrs, avg ROP 5.3'/hr, on btm rotating time 2.25 hrs, Total on btm rotating time 16.75 hrs

Mud Properties

Daily Cost: 4,845.26 Cost Cum Cost: 883,441.94 Cost

Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	T Flowline (°F)
03:00	Oil Base	6,424.0	9.00	52	131.2

PV (cp)	YP (lbf/100ft²)	Filtrate (mL/30min)	HTHP Filtrate (mL/30...	HTHP Pressure (psi)	HTHP Temperature (°F)
13.0	15.000		4.0		250.0

Solids (%)	Sand (%)	MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)
10.0					

Chlorides (ppm)	Calcium (ppm)	Oil Water Ratio	Electric Stab (V)	Lime (lb/bbl)	Low Gravity Solids (%)
		81/19	822.0	4.1	6.9

Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Comment
13.000	15.000	

Bottom Hole Assembly

BHA Since Insp (hr)	BHA Wt BelowJar (1000lbf)	Hrs on Jars (hr)

BHA #20 , Slick

Bit Run	Drill Bit	Bit Type	Make
9	12 1/4in, F67 OD, PL1313	Insert	Smith

Nozzles (1/32")	IADC Codes	IADC Bit Dull
18/18/18	647Y	-------

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)
0.75	16.75	80.00

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)
16.75	80.00	4.8	6,356.0	6,436.0

Total AFE + Sup (Cost)
9,064,000.00

AFE Job Cost Summary

Cost Type	AFE Amt (Cost)
DHC	7,600,000.00
CWC	1,464,000.00

Field Estimate Job Cost Summary

Cost Type	Field Est (Cost)
DHC	6,700,670.20

Daily Summary

Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
232,313.41	6,705,349.60
Daily Mud Field Est (Cost)	**Cum Mud Field Est (Cost)**
4,845.26	883,441.94

POL (Personnel on Location)
25.0

Daily Contacts

Job Contact	Title
Dean Baker	Sr. Drlg. Foreman
Bill Vigil	Drlg. Foreman
Mike Reel	Drilling Supt
Eric Burnett	Drilling Engineer

Personnel Log

Company	Count
PIONEER NATURAL RESOURCES	1
PIONEER NATURAL RESOURCES	1
NABORS DRILLING INC	2
NABORS DRILLING INC	12
BAKER HUGHES INTEQ	2
ZECO	2
SELMA	2
NEWPARK	1
BADLANDZER	2

Weather

Precipitation Amount (in)	Precipitation Type
Temperature - High (°F)	**Temperature - Low (°F)**

Comment

NABORS DRILLING, 169

Rig Type
Drilling - Triple

Rig Start Date	Rig Release Date
9/22/2010	

1, National Supply, 10-P-130

Pump Number
1

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

2, National Supply, 10-P-130

Pump Number
2

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

Job Supply Amounts

Supply Item Des	Unit Label	Received	Consumed	Cum On Loc
Diesel Fuel	gal us	6,958		6,958

Mud Additive Amounts

Des	Consumed	Cum Cons
Bentone 910		250
BULK TANK	2	120
BULK TANK BLOWERS	2	98
Mica F		480
MUD ENGINEER	1	60
MUD LAB	1	52
New X-Prima		0
OptiDrill OBM (1 bbl/bulk)	18	3,235
Opti-Mul	1	35

Safety Summary

BOP Test Date	Last BOP Test	BOP Func Due	HSE Incident	HSE Inc Remark
04/Dec/2010	06/Nov/2010	Next Trip		

11/11/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 11/11/2010
REPORT: 77
DOL: 75.67
DFS: 49.60

Rig Name: NABORS DRILLING 169

Depth Progress: 80.00

Daily Summary

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
159	Drill Pipe	5	4.276	5,021.00	6,354.92
7	HWDP	5	3.000	215.16	1,333.92
1	Jars	6 3/8	2.875	32.57	1,118.76
19	HWDP	5	3.000	583.54	1,086.19
1	X/O	6 3/8	2.813	3.57	502.65
9	6-1/2" DC's	6 1/2	2.875	276.70	499.08
1	X/O	6 1/2	2.813	2.92	222.38
5	8" DC's	8	2.875	153.83	219.46
1	Reamer	12 1/4	2.750	6.82	65.63
1	8" Drill Collar	8	2.875	30.02	58.81
1	Roller Reamer	12 1/4	2.750	8.15	28.79
1	Tele-Drift	8	2.875	8.46	20.64
1	Near Bit Roller Reamer	12 1/4	2.750	6.92	12.18
1	Junk Sub	9 5/8	3.500	5.26	5.26

Drilling Parameters

6,356.0 - 6,436.0 ftKB

Start (ftKB)	End Depth...	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note
6,356.0	6,436.0	4.8	50	60		663	2,725.0	

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100...	SO Str Wt (100...	Drill Str Wt (100...	Torque Units	Drilling Torque	Off Btm Tq
16.75	19.00	206	206	206			

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/...	Max Open Hole AV (ft...
256.7	2.2	285.3	663.7	12.8	104.0

Casing Strings

Prop Run?	Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
Yes	Conductor	105.0	105.0	30	ERW	118.00		
Yes	Surface	4,345.0	4,344.6	13 3/8	K-55	68.00		

Plug Back Total Depths

Date	Depth (ftKB)	Type	Method

Deviation Surveys

Tru-Trak, Proposed? No

Date	Description	Job
9/23/2010	Tru-Trak	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
10/15/2010	5,993.00	0.26		5,992.60				
11/7/2010	6,085.00	0.18		6,084.60				
11/7/2010	6,181.00	0.35		6,180.60				
11/7/2010	6,275.00	1.14		6,274.60				
11/7/2010	6,307.00	0.44		6,306.60				

Mud Additive Amounts

Des	Consumed	Cum Cons
Opti-Plus	1	30
SALT	4	4
Tax	246	44,839

Formations

Formation Name	Final Top MD (ftKB)
Quaternary	80.0
Tertiary Volcanic	1,300.0
Tertiary Undivided	1,830.0
North Horn	3,810.0
UNCONFORMITY	4,345.0
Arapien	4,345.0
FAULT	
Arapien	
Twin Creek	
Gypsum Sprgs Mbr	
Navajo	
Chinle	
TD	

Safety Summary

11/11/2010

PIONEER NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 11/12/2010
REPORT: 78
DOL: 76.67
DFS: 50.60

Rig Name: NABORS DRILLING 169

Depth Progress: 73.00

Daily Summary

Property Sub	Field Name	API/UWI	Spud Date
327560-001	WILDCAT	43-023-30021-0000	9/22/2010

KB-Ground Distance (ft)	Original KB Elevation (ft)	KB-Mud Line Distance (ft)
25.00	5,264.00	

Daily Operations

Target Depth (ftKB)	Target Depth (TVD) (ftKB)	End Depth (ftKB)	End Depth (TVD) (ftKB)
9,040.0		6,509.0	

Footage/Meterage (ft)	24 HR ROP (ft/hr)	Drilling Hours (hr)
73.00	3.7	19.75

Avg Connection Gas	Avg Trip Gas	Avg Background Gas	Max Connection Gas	Max Trip Gas	Max Drill Gas
32.00		20.00			

Operations at Report Time
Drilling @ 6509

Operations Summary
Drill to 6457', ran teledrift & wireline single shot surveys, survey .46 deg, drill to 6481', replace seat in pump #2, drill to 6490', ran teled-drift survey @ 6490', less than 1 degree, drilled to 6509'

Remarks
Note : Total OBM lost to date (11/12/10) : 3270 bbls.
Note : OBM lost past 24 hrs: 31 bbls (surface = 22 hole = 9)
Received 360 bbls, 7.8 ppg, base oil

Lithology: 95%+/- Sandstone, 5%+/- Shale

Operations Next Report Period
Drill 12 1/4" Hole

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com
06:00	09:15	3.25	ROTDRLG	PP	Drill from 6436-6457', pumps 95X95 spm, 663 gpm, 2770 psi, WOB 48-52K, TDS 50-60 rpm, Torque 3000+/- ft/lbs. Drilled 21', 3 hrs, avg ROP 7 '/hr, on btm rotating time 3 hrs, Total on btm rotating time 19.75 hrs
09:15	09:30	0.25	DEVSUR	PP	Ran teledrift survey @ 6444', less than 1 deg, ran
09:30	10:00	0.50	RIGSER	PP	Rig service -- TDS
10:00	11:00	1.00	DEVSUR	PP	Ran (4) slickline, digital, single shot surveys @ 6443', (3) surveys were .46 deg, 1 survey was .45 deg,
11:00	17:30	6.50	ROTDRLG	PP	Drill from 6457-6481', pumps 95X95 spm, 663 gpm, 2770 psi, WOB 48-55K, TDS 50-60 rpm, Torque 3000+/- ft/lbs. Drilled 24', 6.5 hrs, avg ROP 3.7'/hr, on btm rotating time 19.75 hrs, Total on btm rotating time 26.25 hrs
17:30	19:30	2.00	U_RIG	PN	Could not pull discharge seat on #2 pump, had incorrect seat puller, attempt to use liner puller, liner puller hung up.
19:30	20:00	0.50	RIGSER	PP	Rig service, Lubricate and inspect mud pumps.
20:00	23:00	3.00	ROTDRLG	PP	Drill from 6481-6489', (1) pump 110 spm, 384 gpm, 1035 psi, WOB 48-52K, TDS 50-60 rpm, Torque 3000+/- ft/lbs. Drilled 8', 3 hrs, avg ROP 2.6'/hr, on btm rotating time 26.25 hrs, Total on btm rotating time 29.25 hrs Running 1 pump, waiting on welder to cut out seat puller & liner puller, hung up in pump. Repaired #2 Pump, take slow pump rates both pumps.
23:00	00:15	1.25	ROTDRLG	PP	Drill from 6489-6492', pumps 95X95 spm, 663 gpm, 2770 psi, WOB 48-52K, TDS 50-60 rpm, Torque 2300-3000+/- ft/lbs. Drilled 3', 2.5 hrs, avg ROP 1'/hr, on btm rotating time 29.25 hrs, Total on btm rotating time 30.5 hrs Note: Take #1 Pump off line and change out swab.
00:15	01:00	0.75	ROTDRLG	PP	Drill from 6492-6493', pumps 110 spm, 384 gpm, 1050 psi, WOB 48-52K, TDS 50-60 rpm, Torque 1800-2500+/- ft/lbs. Drilled 1', .75 hrs. On btm rotating time 29.25 hrs, Total on btm rotating time 30 hrs
01:00	06:00	5.00	ROTDRLG	PP	Drill from 6493-6509', pumps 95X95 spm, 663 gpm, 2770 psi, WOB 48-52K, TDS 50-60 rpm, Torque 2300-3000+/- ft/lbs. Drilled 16', 5 hrs, avg ROP 3.2 '/hr, on btm rotating time 30 hrs, Total on btm rotating time 35 hrs 5:05 hrs, pumped 25 bbls, 20 ppb, nut plug sweep -- did not notice any change in bit performance Teledrift survey @ 6490', less than 1 deg

Mud Properties

Daily Cost: 17,670.58 Cost Cum Cost: 901,112.52 Cost

Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	T Flowline (°F)
03:00	Oil Base	6,500.0	9.00	54	130.0

PV (cp)	YP (lbf/100ft²)	Filtrate (mL/30min)	HTHP Filtrate (mL/30...	HTHP Pressure (psi)	HTHP Temperature (°F)
13.0	15.000		4.0		250.0

Solids (%)	Sand (%)	MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)
10.0					

Chlorides (ppm)	Calcium (ppm)	Oil Water Ratio	Electric Stab (V)	Lime (lb/bbl)	Low Gravity Solids (%)
		82/18	801.0	4.3	6.7

Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Comment
13.000	15.000	

Bottom Hole Assembly

BHA Since Insp (hr)	BHA Wt BelowJar (1000lbf)	Hrs on Jars (hr)

Total AFE + Sup (Cost): 9,064,000.00

AFE Job Cost Summary

Cost Type	AFE Amt (Cost)
DHC	7,600,000.00
CWC	1,464,000.00

Field Estimate Job Cost Summary

Cost Type	Field Est (Cost)
DHC	6,913,313.20

Daily Summary

Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
149,616.00	6,854,965.60
Daily Mud Field Est (Cost)	Cum Mud Field Est (Cost)
17,670.58	901,112.52

POL (Personnel on Location): 25.0

Daily Contacts

Job Contact	Title
Dean Baker	Sr. Drlg. Foreman
Bill Vigil	Drlg. Foreman
Mike Reel	Drilling Supt
Eric Burnett	Drilling Engineer

Personnel Log

Company	Count
PIONEER NATURAL RESOURCES	1
PIONEER NATURAL RESOURCES	1
NABORS DRILLING INC	2
NABORS DRILLING INC	12
BAKER HUGHES INTEQ	2
ZECO	2
SELMA	2
NEWPARK	1
BADLANDZER	2

Weather

Precipitation Amount (in)	Precipitation Type
Temperature - High (°F)	Temperature - Low (°F)

Comment

NABORS DRILLING, 169

Rig Type: Drilling - Triple

Rig Start Date	Rig Release Date
9/22/2010	

1, National Supply, 10-P-130

Pump Number: 1

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)
Yes	185.0	40	133	95
Yes	260.0	50	166	95
Yes	360.0	60	199	95

2, National Supply, 10-P-130

Pump Number: 2

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)
Yes	345.0	60	199	95
Yes	180.0	40	133	95
Yes	255.0	50	166	95

Job Supply Amounts

Supply Item Des	Unit Label	Received	Consumed	Cum On Loc
Diesel Fuel	gal us	6,958		6,958

Mud Additive Amounts

Des	Consumed	Cum Cons
Bentone 910	48	298
BULK TANK	2	122
BULK TANK BLOWERS	2	100
GSX-509	7	29
Lime	52	471
MUD ENGINEER	1	61

Safety Summary

BOP Test Date	Last BOP Test	BOP Func Due	HSE Incident	HSE Inc Remark
04/Dec/2010	06/Nov/2010	Next Trip	None	

11/12/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 11/12/2010
REPORT: 78
DOL: 76.67
DFS: 50.60

Rig Name: NABORS DRILLING 169

Depth Progress: 73.00

Daily Summary

BHA #20 , Slick

Bit Run	Drill Bit	Bit Type	Make
9	12 1/4in, F67 OD, PL1313	Insert	Smith

Nozzles (1/32")	IADC Codes	IADC Bit Dull
18/18/18	647Y	-------

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)
0.75	36.50	153.00

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)
36.50	153.00	4.2	6,356.0	6,509.0

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
162	Drill Pipe	5	4.276	5,135.00	6,468.92
7	HWDP	5	3.000	215.16	1,333.92
1	Jars	6 3/8	2.875	32.57	1,118.76
19	HWDP	5	3.000	583.54	1,086.19
1	X/O	6 3/8	2.813	3.57	502.65
9	6-1/2" DC's	6 1/2	2.875	276.70	499.08
1	X/O	6 1/2	2.813	2.92	222.38
5	8" DC's	8	2.875	153.83	219.46
1	Reamer	12 1/4	2.750	6.82	65.63
1	8" Drill Collar	8	2.875	30.02	58.81
1	Roller Reamer	12 1/4	2.750	8.15	28.79
1	Tele-Drift	8	2.875	8.46	20.64
1	Near Bit Roller Reamer	12 1/4	2.750	6.92	12.18
1	Junk Sub	9 5/8	3.500	5.26	5.26

Drilling Parameters

6,436.0 - 6,509.0 ftKB

Start (ftKB)	End Depth...	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note
6,436.0	6,509.0	3.7	50	60		663	2,725.0	

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100...	SO Str Wt (100...	Drill Str Wt (100...	Torque Units	Drilling Torque	Off Btm Tq
19.75	4.25	207	207	207	Ftlbs	2,300.0	

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/...	Max Open Hole AV (ft...
256.7	2.2	285.3	663.7	12.8	104.0

Casing Strings

Prop Run?	Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
Yes	Conductor	105.0	105.0	30	ERW	118.00		
Yes	Surface	4,345.0	4,344.6	13 3/8	K-55	68.00		

Plug Back Total Depths

Date	Depth (ftKB)	Type	Method

Deviation Surveys

Tru-Trak, Proposed? No

Date	Description	Job
9/23/2010	Tru-Trak	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
11/7/2010	6,307.00	0.44		6,306.60				
11/7/2010	6,359.00	0.00		6,358.60				
11/7/2010	6,361.00	0.00		6,360.60				
11/7/2010	6,381.00	0.00		6,380.60				
11/7/2010	6,443.00	0.46		6,442.60				

Mud Additive Amounts

Des	Consumed	Cum Cons
MUD LAB	1	53
New Seal		160
New X-Prima	89	89
Opti-Clean	1	3
OptiDrill OBM (1 bbl/bulk)	31	3,266
Opti-Mul	1	36
Opti-Plus	1	31
Tax	972	45,811

Formations

Formation Name	Final Top MD (ftKB)
Quaternary	80.0
Tertiary Volcanic	1,300.0
Tertiary Undivided	1,830.0
North Horn	3,810.0
UNCONFORMITY	4,345.0
Arapien	4,345.0
FAULT	
Arapien	
Twin Creek	
Gypsum Sprgs Mbr	
Navajo	
Chinle	
TD	

Safety Summary

11/12/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 11/13/2010
REPORT: 79
DOL: 77.67
DFS: 51.60

Rig Name: NABORS DRILLING 169

Depth Progress: 96.00

Daily Summary

Property Sub	Field Name	API/UWI	Spud Date
327560-001	WILDCAT	43-023-30021-0000	9/22/2010

KB-Ground Distance (ft)	Original KB Elevation (ft)	KB-Mud Line Distance (ft)
25.00	5,264.00	

Daily Operations

Target Depth (ftKB)	Target Depth (TVD) (ftKB)	End Depth (ftKB)	End Depth (TVD) (ftKB)
9,040.0		6,605.0	

Footage/Meterage (ft)	24 HR ROP (ft/hr)	Drilling Hours (hr)
96.00	4.3	22.50

Avg Connection Gas	Avg Trip Gas	Avg Background Gas	Max Connection Gas	Max Trip Gas	Max Drill Gas
18.00		18.00	58.00		28.00

Operations at Report Time
Drilling @ 6605

Operations Summary
Drill 12 1/4" hole to 6605'.
Teledrift Surveys:
6490' Less than 0 degrees
6542' Less than 0 degrees
6581' Less than 0 degrees

Remarks
Note : Total OBM lost to date (11/13/10) : 3270 bbls.
Note : OBM lost past 24 hrs: 31 bbls (surface = 22 hole = 9)

Lithology: 95%+/- Sandstone, 5%+/- Shale

Operations Next Report Period
Drill 12 1/4" Hole.
Trip for bit change.

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com
06:00	17:30	11.50	ROTDRLG	PP	Drill from 6509'-6553', pumps 95X95 spm, 663 gpm, 2770 psi, WOB 48-60K, TDS 50-60-35 rpm, Torque 2300-3000+/- ft/lbs. From 6531'-6553', pumps 95X95 spm, 663 gpm, 2770 psi, WOB 60K, TDS 35 rpm, Torque 2650-3000+/- ft/lbs. Drilled 44', 11.5 hrs, avg ROP 3.8 '/hr, previous on btm rotating time 35 hrs, Total on btm rotating time 46.5 hrs Teledrift survey @ 6490', less than 1 deg Teledrift survey @ 6542', less than 1 deg 6524'-6526', reduced TDS rpm from 60 to 35 rpm, WOB remained 45K+/-, for 1 hr, ROP 2'/hr 6526'-6531', Increased WOB from 45K to 50K, TDS rpm remained 35 rpm, for 1 hr, ROP 2-5'/hr 6531'-6541', Increased WOB from 55K to 60K, TDS rpm remained 35 rpm, for 2 hrs, ROP 4-5'/hr
17:30	18:00	0.50	RIGSER	PP	Rig service, TDS
18:00	18:30	0.50	DEVSUR	PP	Teledrift survey @ 6542', less than 1 deg
18:30	20:00	1.50	ROTDRLG	PP	Drill from 6553'-6564', pumps 95X95 spm, 663 gpm, 2770 psi, WOB 60-65K, TDS 35 rpm, Torque 2770-3680+/- ft/lbs. From 6555'-6561', drlg break, ROP 4'/hr to 14'/hr, Lithology: 6560' 100% Sandstone Drilled 11', 2.1hrs, avg ROP 5.2 '/hr, previous on btm rotating time 46.5 hrs, Total on btm rotating time 48.6 hrs Teledrift survey @ 6490', less than 1 deg Teledrift survey @ 6542', less than 1 deg
20:00	20:45	0.75	ROTDRLG	PP	Drill from 6564'-6566', (1) pump 110 spm, 384 gpm, 1200 psi, WOB 55K, TDS 30 rpm, Torque 2350-2850+/- ft/lbs. Change #3 swab in #1 pump -- same swab as reported on 12/Nov, morning report Drilled 2', .6 hrs, avg ROP 3.3 '/hr, previous on btm rotating time 48.6 hrs, Total on btm rotating time 49.2 hrs
20:45	03:45	7.00	ROTDRLG	PP	Drill from 6566'-6597', pumps 95X95 spm, 663 gpm, 2770 psi, WOB 60-65K, TDS 35 rpm, Torque 2900+/- ft/lbs. Lithology: 97% Sandstone, 3% Shale Drilled 31', 7 hrs, avg ROP 4.4 '/hr, previous on btm rotating time 49.2 hrs, Total on btm rotating time 56.2 hrs
03:45	04:15	0.50	DEVSUR	PP	Deviation Survey @ 6581' Less than 1 degree.
04:15	06:00	1.75	ROTDRLG	PP	Drill from 6597'-6605', pumps 95X95 spm, 663 gpm, 2770 psi, WOB 60-65K, TDS 35 rpm, Torque 2900+/- ft/lbs. Lithology: 97% Sandstone, 3% Shale Drilled 8', 1.75 hrs, avg ROP 4.5'/hr, previous on btm rotating time 56.2 hrs, Total on btm rotating time 58 hrs

Total AFE + Sup (Cost)
9,064,000.00

AFE Job Cost Summary

Cost Type	AFE Amt (Cost)
DHC	7,600,000.00
CWC	1,464,000.00

Field Estimate Job Cost Summary

Cost Type	Field Est (Cost)
DHC	6,929,132.05

Daily Summary

Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
78,845.85	6,933,811.45
Daily Mud Field Est (Cost)	**Cum Mud Field Est (Cost)**
7,480.85	908,593.37

POL (Personnel on Location)
25.0

Daily Contacts

Job Contact	Title
Dean Baker	Sr. Drlg. Foreman
Bill Vigil	Drlg. Foreman
Mike Reel	Drilling Supt
Eric Burnett	Drilling Engineer

Personnel Log

Company	Count
PIONEER NATURAL RESOURCES	1
PIONEER NATURAL RESOURCES	1
NABORS DRILLING INC	2
NABORS DRILLING INC	12
BAKER HUGHES INTEQ	2
ZECO	2
SELMA	2
NEWPARK	1
BADLANDZER	2

Weather

Precipitation Amount (in)	Precipitation Type
Temperature - High (°F)	**Temperature - Low (°F)**

Comment

NABORS DRILLING, 169

Rig Type
Drilling - Triple

Rig Start Date	Rig Release Date
9/22/2010	

1, National Supply, 10-P-130

Pump Number
1

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

2, National Supply, 10-P-130

Pump Number
2

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

Job Supply Amounts

Supply Item Des	Unit Label	Received	Consumed	Cum On Loc
Diesel Fuel	gal us	6,958		6,958

Mud Additive Amounts

Des	Consumed	Cum Cons
Bentone 910	16	314
BULK TANK	2	124
BULK TANK BLOWERS	2	102
Fiber Fluid Cor	48	288
GSX-509	4	33
Lime	30	501
MUD ENGINEER	1	62
MUD LAB	1	54
OptiDrill OBM (1 bbl/bulk)	21	3,287

Safety Summary

BOP Test Date	Last BOP Test	BOP Func Due	HSE Incident	HSE Inc Remark
04/Dec/2010	06/Nov/2010	Next Trip	None	

11/13/2010

PIONEER NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 11/13/2010
REPORT: 79
DOL: 77.67
DFS: 51.60

Rig Name: NABORS DRILLING 169

Depth Progress: 96.00

Daily Summary

Mud Properties

Daily Cost: 7,480.85 Cost Cum Cost: 908,593.37 Cost

Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	T Flowline (°F)
03:00	Oil Base		9.00	54	130.0

PV (cp)	YP (lbf/100ft²)	Filtrate (mL/30min)	HTHP Filtrate (mL/30…	HTHP Pressure (psi)	HTHP Temperature (°F)
13.0	15.000				

Solids (%)	Sand (%)	MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)
10.0					

Chlorides (ppm)	Calcium (ppm)	Oil Water Ratio	Electric Stab (V)	Lime (lb/bbl)	Low Gravity Solids (%)
			801.0		

Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Comment
13.000	15.000	

Bottom Hole Assembly

BHA Since Insp (hr)	BHA Wt BelowJar (1000lbf)	Hrs on Jars (hr)

BHA #20 , Slick

Bit Run	Drill Bit	Bit Type	Make
9	12 1/4in, F67 OD, PL1313	Insert	Smith

Nozzles (1/32")	IADC Codes	IADC Bit Dull
18/18/18	647Y	-------

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)
0.75	59.00	249.00

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)
59.00	249.00	4.2	6,356.0	6,605.0

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
162	Drill Pipe	5	4.276	5,135.00	6,468.92
7	HWDP	5	3.000	215.16	1,333.92
1	Jars	6 3/8	2.875	32.57	1,118.76
19	HWDP	5	3.000	583.54	1,086.19
1	X/O	6 3/8	2.813	3.57	502.65
9	6-1/2" DC's	6 1/2	2.875	276.70	499.08
1	X/O	6 1/2	2.813	2.92	222.38
5	8" DC's	8	2.875	153.83	219.46
1	Reamer	12 1/4	2.750	6.82	65.63
1	8" Drill Collar	8	2.875	30.02	58.81
1	Roller Reamer	12 1/4	2.750	8.15	28.79
1	Tele-Drift	8	2.875	8.46	20.64
1	Near Bit Roller Reamer	12 1/4	2.750	6.92	12.18
1	Junk Sub	9 5/8	3.500	5.26	5.26

Drilling Parameters

6,509.0 - 6,605.0 ftKB

Start (ftKB)	End Depth…	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note
6,509.0	6,605.0	4.3	50	60		663	2,725.0	

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100…	SO Str Wt (100…	Drill Str Wt (100…	Torque Units	Drilling Torque	Off Btm Tq
22.50	1.50	207	207	207	Ftlbs	2,300.0	

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/…	Max Open Hole AV (ft…
256.7	2.2	285.3	663.7	12.8	104.0

Casing Strings

Prop Run?	Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
Yes	Conductor	105.0	105.0	30	ERW	118.00		
Yes	Surface	4,345.0	4,344.6	13 3/8	K-55	68.00		

Plug Back Total Depths

Date	Depth (ftKB)	Type	Method

Deviation Surveys

Tru-Trak, Proposed? No

Date	Description	Job
9/23/2010	Tru-Trak	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
11/7/2010	6,381.00	0.00		6,380.60				
11/7/2010	6,443.00	0.46		6,442.60				
11/7/2010	6,490.00	0.00		6,489.60				
11/7/2010	6,542.00	0.00		6,541.60				
11/7/2010	6,581.00	0.00		6,580.60				

Mud Additive Amounts

Des	Consumed	Cum Cons
OptiVis RM	2	78
Tax	395	46,206

Formations

Formation Name	Final Top MD (ftKB)
Quaternary	80.0
Tertiary Volcanic	1,300.0
Tertiary Undivided	1,830.0
North Horn	3,810.0
UNCONFORMITY	4,345.0
Arapien	4,345.0
FAULT	
Arapien	
Twin Creek	
Gypsum Sprgs Mbr	
Navajo	
Chinle	
TD	

Safety Summary

11/13/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 11/14/2010
REPORT: 80
DOL: 78.67
DFS: 52.60

Rig Name: NABORS DRILLING 169

Depth Progress: 29.00

Daily Summary

Property Sub	Field Name	API/UWI	Spud Date
327560-001	WILDCAT	43-023-30021-0000	9/22/2010

KB-Ground Distance (ft)	Original KB Elevation (ft)	KB-Mud Line Distance (ft)
25.00	5,264.00	

Daily Operations

Target Depth (ftKB)	Target Depth (TVD) (ftKB)	End Depth (ftKB)	End Depth (TVD) (ftKB)
9,040.0		6,634.0	

Footage/Meterage (ft)	24 HR ROP (ft/hr)	Drilling Hours (hr)
29.00	3.6	7.95

Avg Connection Gas	Avg Trip Gas	Avg Background Gas	Max Connection Gas	Max Trip Gas	Max Drill Gas
20.00	20.00	20.00	28.00	28.00	

Operations at Report Time
Pattern new 12 1/4" bit @ 6634

Operations Summary
Drill from 6605' to 6633', slight losses, pump 70 bbl LCM pill, drop survey, POOH to casing shoe, pull rotating head bushing, install trip nipple, TOOH, check roller reamers w/ gauge ring, reamers in gauge. Break bit, recover survey tool. L/D junk basket. M/U new, Reed insert bit, check allen bolts on roller reamer blocks - OK, RIH, M/U Thruster, TIH to 4250', remove trip nipple, install rotating head bushing, TIH to 6547', ash and ream to 6333'. Pattern new insert bit 12 1/4", 6633' to 6634'

Remarks
Note : Total OBM lost to date (11/14/10) : 3341 bbls.
Note : OBM lost past 24 hrs: 50 bbls (surface = 8 hole = 42)

Lithology: 85%+/- Sandstone, 15%+/- Shale

Operations Next Report Period
Drill 12 1/4" Hole.

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com
06:00	13:15	7.25	ROTDRLG	PP	Drill from 6605'-6633', pumps 95X95 spm, 663 gpm, 2770 psi, WOB 60-62K, TDS 35 rpm, Torque 2420-7350 ft/lbs. Drilled 26', 6.7 hrs, avg ROP 3.9'/hr, previous on btm rotating time 58 hrs, Total on btm rotating time 64.7 hrs 6619', Increased WOB from 62K to 70K, TDS remained 35 rpm, Torque increased to 7350 ft/lbs, drill string, back-lashing & bouncing. Picked up, put 62K WOB, rpm 35 -- smoothed out. 6621', torque spike from 2650+/- to 6330 ft/lbs, 6629', torque inc to 3900 ft/lbs, would not drop below 3400 ft/lbs 6629' to 6633', 3 torque spikes max at 6100 ft/lbs, avg torque would not drop below 3800 ft/lbs 6619'+, loosing mud to fms, 5 bbls/hr, gradually increasing to 18 bbls/hr. Mix & pump 30 bbls, 15 ppb, Strata-Vanguard sweep Lithology: 6620', 85% Sandstone, 15% Shale
13:15	13:30	0.25	U_LC	PN	Pump 35 bbl, 15 ppb Strata-Vanguard sweep, while filling trip tanks
13:30	14:00	0.50	DEVSUR	PP	Drop survey, survey taken @ 6608' Mix & pump slug
14:00	15:30	1.50	TRIP	PP	TOOH from 6631' to 4072'
15:30	16:00	0.50	BOPS	PP	Pull rotating head bushing, install trip nipple
16:00	18:45	2.75	TRIP	PP	TOOH from 4072' to 503'
18:45	19:45	1.00	BHA	PP	POOH from 503' to 160'
19:45	21:00	1.25	BHA	PP	POOH, breakout & mouse hole (2) 8" DC's, POOH w/ reamers. Pass ring gauge: down top & middle reamers -- both in gauge, Near Bit 1/8"-3/16", under gauge. Bit in gauge (shank protection in full gauge, no broken inserts), no broken teeth, bearings effective, break bit, break out middle reamer, recover survey tool, download survey, .75 deg.
21:00	21:30	0.50	SFTY	PP	Dress & clean OBM off rig floor
21:30	00:15	2.75	BHA	PP	M/U, 12-1/4", STC, R50PDH2, Insert Bit, RIH, check allen bolts on all (3) roller reamer blocks - all were tight. M/U (2) 8" DC's (in mouse hole), RIH with 8" DC's, M/U, 8" Thruster. RIH With BHA #21
00:15	01:30	1.25	TRIP	PP	TIH w/ BHA & DP to 4250'.
01:30	02:30	1.00	BOPS	PP	RD Trip nipple, RU rotating head, fill pipe.
02:30	04:15	1.75	TRIP	PP	TIH with BHA # 21 from 4250' to 6547'. Taking weight @ 6547' 2-8k. Install filter screen and MU to TDS.
04:15	04:45	0.50	RMWASH	PN	Ream from 6547' to 6633' 2 - 5k WOB,95 X 95, 663 GPM, 1700 - 2000 ft/lbs torque, 30 RPM on TDS, 2900 PSI.
04:45	06:00	1.25	ROTDRLG	PP	6633' 6634' Pattern bit, pumps 95 X 95, pressure 2900 PSI, TDS 30 RPM, 1200-2000 ft/lb torque. Pattern bit with. 2-5k, 10 minutes. 10-20k, 15 minutes .20-40k 15 minutes. 5:15 - 5:30. Pattern bit with 1 #2 pump. 110 stks, 348 GPM, TDS, 30 RPM, 1500 torque. Replace #3 swab in #1 Pump. 5:30 #1 Pump back on line.

Total AFE + Sup (Cost): 9,064,000.00

AFE Job Cost Summary

Cost Type	AFE Amt (Cost)
DHC	7,600,000.00
CWC	1,464,000.00

Field Estimate Job Cost Summary

Cost Type	Field Est (Cost)
DHC	6,997,052.64

Daily Summary

Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
67,920.59	7,001,732.04
Daily Mud Field Est (Cost)	**Cum Mud Field Est (Cost)**
22,564.59	931,157.96

POL (Personnel on Location): 25.0

Daily Contacts

Job Contact	Title
Dean Baker	Sr. Drlg. Foreman
Bill Vigil	Drlg. Foreman
Mike Reel	Drilling Supt
Eric Burnett	Drilling Engineer

Personnel Log

Company	Count
PIONEER NATURAL RESOURCES	1
PIONEER NATURAL RESOURCES	1
NABORS DRILLING INC	2
NABORS DRILLING INC	12
BAKER HUGHES INTEQ	2
ZECO	2
SELMA	2
NEWPARK	1
BADLANDZER	2

Weather

Precipitation Amount (in)	Precipitation Type
Temperature - High (°F)	Temperature - Low (°F)

Comment

NABORS DRILLING, 169

Rig Type: Drilling - Triple

Rig Start Date	Rig Release Date
9/22/2010	

1, National Supply, 10-P-130

Pump Number: 1

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

2, National Supply, 10-P-130

Pump Number: 2

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

Job Supply Amounts

Supply Item Des	Unit Label	Received	Consumed	Cum On Loc
Diesel Fuel	gal us	6,958		6,958

Mud Additive Amounts

Des	Consumed	Cum Cons
Bentone 910	7	321
BULK TANK	2	126
BULK TANK BLOWERS	2	104
Fiber Fluid Cor	44	332
GSX-509	3	36
Lime	15	516
MUD ENGINEER	1	63
MUD LAB	1	55
Opti-Clean		3

Safety Summary

BOP Test Date	Last BOP Test	BOP Func Due	HSE Incident	HSE Inc Remark
04/Dec/2010	06/Nov/2010	Next Trip	None	

11/14/2010

PIONEER NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 11/14/2010
REPORT: 80
DOL: 78.67
DFS: 52.60

Rig Name: NABORS DRILLING 169

Depth Progress: 29.00

Daily Summary

Mud Properties

Daily Cost: 22,564.59 Cost Cum Cost: 931,157.96 Cost

Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	T Flowline (°F)
03:00	Oil Base		9.10	54	

PV (cp)	YP (lbf/100ft²)	Filtrate (mL/30min)	HTHP Filtrate (mL/30…	HTHP Pressure (psi)	HTHP Temperature (°F)
12.0	16.000		4.0		250.0

Solids (%)	Sand (%)	MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)
10.0					

Chlorides (ppm)	Calcium (ppm)	Oil Water Ratio	Electric Stab (V)	Lime (lb/bbl)	Low Gravity Solids (%)
			805.0	4.3	6.0

Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Comment
14.000	16.000	

Bottom Hole Assembly

BHA Since Insp (hr)	BHA Wt BelowJar (1000lbf)	Hrs on Jars (hr)

BHA #20 , Slick

Bit Run	Drill Bit	Bit Type	Make
9	12 1/4in, F67 OD, PL1313	Insert	Smith

Nozzles (1/32")	IADC Codes	IADC Bit Dull
18/18/18	647Y	1-1-WT-A-1-0-NO-PR

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)
0.75	65.70	277.00

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)
65.70	277.00	4.2	6,356.0	6,633.0

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
169	Drill Pipe	5	4.276	5,296.00	6,629.92
7	HWDP	5	3.000	215.16	1,333.92
1	Jars	6 3/8	2.875	32.57	1,118.76
19	HWDP	5	3.000	583.54	1,086.19
1	X/O	6 3/8	2.813	3.57	502.65
9	6-1/2" DC's	6 1/2	2.875	276.70	499.08
1	X/O	6 1/2	2.813	2.92	222.38
5	8" DC's	8	2.875	153.83	219.46
1	Reamer	12 1/4	2.750	6.82	65.63
1	8" Drill Collar	8	2.875	30.02	58.81
1	Roller Reamer	12 1/4	2.750	8.15	28.79
1	Tele-Drift	8	2.875	8.46	20.64
1	Near Bit Roller Reamer	12 1/4	2.750	6.92	12.18
1	Junk Sub	9 5/8	3.500	5.26	5.26

Drilling Parameters

6,605.0 - 6,633.0 ftKB

Start (ftKB)	End Depth…	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note
6,605.0	6,633.0	4.2	62	60		663	2,725.0	

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100…	SO Str Wt (100…	Drill Str Wt (100…	Torque Units	Drilling Torque	Off Btm Tq
6.70	2.25	207	207	207	Ftlbs	0.0	

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/…	Max Open Hole AV (ft…

BHA #21 , Slick

Bit Run	Drill Bit	Bit Type	Make
10	12 1/4in, R50PDH2, AT4176	Insert	Reed

Nozzles (1/32")	IADC Codes	IADC Bit Dull
18/18/18	637	-------

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)
0.75	1.25	1.00

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)
1.25	1.00	0.8	6,633.0	6,634.0

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
169	Drill Pipe	5	4.276	5,296.00	6,654.77
7	HWDP	5	3.000	215.16	1,358.77
1	Jars	6 3/8	2.875	32.57	1,143.61
19	HWDP	5	3.000	583.54	1,111.04
1	X/O	6 3/8	2.813	3.57	527.50
9	6-1/2" DC's	6 1/2	2.875	276.70	523.93
1	X/O	6 1/2	2.813	2.92	247.23
1	Thruster	7 7/8	3.563	30.11	244.31
5	8" DC's	8	2.875	153.83	214.20
1	12-1/4" Roller Reamer	8	2.750	6.82	60.37
1	8" Drill Collar	8	2.875	30.02	53.55
1	12-1/4"Roller Reamer	8	2.750	8.15	23.53
1	Tele-Drift	8	2.875	8.46	15.38
1	12-1/4" Near Bit Roller Reamer	8	2.750	6.92	6.92

Drilling Parameters

6,633.0 - 6,634.0 ftKB

Start (ftKB)	End Depth…	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note
6,633.0	6,634.0	0.8		30		663	2,800.0	

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100…	SO Str Wt (100…	Drill Str Wt (100…	Torque Units	Drilling Torque	Off Btm Tq
1.25	2.00	209	209	209	Ftlbs		1,600.0

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/…	Max Open Hole AV (ft…

Mud Additive Amounts

Des	Consumed	Cum Cons
OptiDrill OBM (1 bbl/bulk)	50	3,337
Opti-Mul		36
Opti-Plus	1	32
Opti-Vis		8
Pallets	12	104
Shrink Wrap	4	49
Strata Vanguard M	50	229
Tax	1,249	47,455

Formations

Formation Name	Final Top MD (ftKB)
Quaternary	80.0
Tertiary Volcanic	1,300.0
Tertiary Undivided	1,830.0
North Horn	3,810.0
UNCONFORMITY	4,345.0
Arapien	4,345.0
FAULT	
Arapien	
Twin Creek	
Gypsum Sprgs Mbr	
Navajo	
Chinle	
TD	

Safety Summary

11/14/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 11/14/2010
REPORT: 80
DOL: 78.67
DFS: 52.60

Rig Name: NABORS DRILLING 169

Depth Progress: 29.00

Daily Summary

Casing Strings

Prop Run?	Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
No	Conductor	105.0	105.0	30	ERW	118.00		
No	Surface	4,345.0	4,344.6	13 3/8	K-55	68.00		

Plug Back Total Depths

Date	Depth (ftKB)	Type	Method

Deviation Surveys

Tru-Trak, Proposed? No

Date	Description	Job
9/23/2010	Tru-Trak	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
11/7/2010	6,443.00	0.46		6,442.60				
11/7/2010	6,490.00	0.00		6,489.60				
11/7/2010	6,542.00	0.00		6,541.60				
11/7/2010	6,581.00	0.00		6,580.60				
11/13/2010	6,608.00	0.75		6,607.60				

Safety Summary

11/14/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 11/15/2010
REPORT: 81
DOL: 79.67
DFS: 53.60

Rig Name: NABORS DRILLING 169

Depth Progress: 124.00

Daily Summary

Property Sub	Field Name	API/UWI	Spud Date
327560-001	WILDCAT	43-023-30021-0000	9/22/2010

KB-Ground Distance (ft)	Original KB Elevation (ft)	KB-Mud Line Distance (ft)
25.00	5,264.00	

Daily Operations

Target Depth (ftKB)	Target Depth (TVD) (ftKB)	End Depth (ftKB)	End Depth (TVD) (ftKB)
9,040.0		6,758.0	

Footage/Meterage (ft)	24 HR ROP (ft/hr)	Drilling Hours (hr)
124.00	5.5	22.75

Avg Connection Gas	Avg Trip Gas	Avg Background Gas	Max Connection Gas	Max Trip Gas	Max Drill Gas
25.00		25.00	25.00		37.00

Operations at Report Time
Drlg @ 6758'

Operations Summary
Drill from 6633'-6758'

Remarks
Note : Total OBM lost to date (11/14/10) : 3341 bbls.
Note : OBM lost past 24 hrs: 42 bbls (surface = 25 hole = 17)

Lithology: 85%+/- Sandstone, 15%+/- Shale

Operations Next Report Period
Drill 12 1/4" Hole.

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com
06:00	14:30	8.50	ROTDRLG	PP	Drill from 6634'-6677', pumps 95X95 spm, 663 gpm, 2770 psi, WOB 50-62K, TDS 35-60 rpm, Torque 2350-2980 ft/lbs. Drilled 43', 8.6 hrs, avg ROP 5 '/hr, previous on btm rotating time .5 hrs, Total on btm rotating time 9.1 hrs Teledrift survey @ 6663', less than 1 deg 6660', Lithology: 95% Sandstone, 5% Shale Mixing 5-10 sxs/hr, Fibre Fluid in active system
14:30	15:15	0.75	RIGSER	PP	Run stand-by, direct drive, mud pump (Continental Emsco, F-1000, 6"X10" liners): circ hole 85 spm, 296 gpm, 625 psi. Shut down, fix leaks.
15:15	22:30	7.25	ROTDRLG	PP	Drill from 6677'-6725', pumps 95X95 spm, 663 gpm, 2770 psi, WOB 50-62K, TDS 35-60 rpm, Torque 2350-2980 ft/lbs. Drilled 32', 7.25 hrs, avg ROP 4.4 '/hr, previous on btm rotating time 9.1 hrs, Total on btm rotating time 14.35 hrs Pump Pressure drop take #1 Pump off line, to check fluid end. Mixing 3-10 sxs/hr, Fibre Fluid in active system Lithology: 6680' to 6700': 95% Sandstone, 5% Limestone 6700' to 6725': 90% Sandstone, 5% Limestone, 5% Shale
22:30	23:00	0.50	U_RIG	PN	Take #1 Pump off line, to check fluid end. Line out #3 Pump (Standby). Attempt to bring on line, bull wheel belts slipping. Will continue to drill with one pump on the hole, while belts are adjusted.
23:00	00:00	1.00	ROTDRLG	PP	Drill from 6725'-6729', pump 115 spm, 401 gpm, 1090 psi, WOB 45-50K, TDS 35-60 rpm, Torque 2350-2980 ft/lbs. Drilled 4', 1.25 hrs, avg ROP 3.2 '/hr, previous on btm rotating time 14.35 hrs, Total on btm rotating time 16.1 hrs Change out all valves on #1 Pump, Mixing 3-10 sxs/hr, Fibre Fluid in active system
00:00	02:15	2.25	ROTDRLG	PP	Drill from 6729'-6739', pumps 95X95 spm, 663 gpm, 2770 psi, WOB 50-62K, TDS 35-60 rpm, Torque 2350-2980 ft/lbs. Drilled 10', 2.25 hrs, avg ROP 4.4 '/hr, previous on btm rotating time 16.1 hrs, Total on btm rotating time 18.35 hrs Pump Pressure drop, continue to work on standby pump. Will continue to drill with #2 Pump. Lithology: 95% Sandstone, 5% Shale Mixing 3-10 sxs/hr, Fibre Fluid in active system
02:15	03:15	1.00	ROTDRLG	PP	Drill from 6739'-6745', pump 115 spm, 401 gpm, 1090 psi, WOB 45-50K, TDS 35-60 rpm, Torque 2350-2980 ft/lbs. Drilled 6', 1 hrs, avg ROP 4.8'/hr, previous on btm rotating time 18.35 hrs, Total on btm rotating time 19.6 hrs Checked fluid end #1 Pump, all seats and valves look ok, flushed suction manifold on pump. Stand by pump belts have been adjusted as beast possible, presume pump is ready to go on line when needed. Lithology: 95% Sandstone, 5% Shale Mixing 3-10 sxs/hr, Fibre Fluid in active system

Total AFE + Sup (Cost)
9,064,000.00

AFE Job Cost Summary

Cost Type	AFE Amt (Cost)
DHC	7,600,000.00
CWC	1,464,000.00

Field Estimate Job Cost Summary

Cost Type	Field Est (Cost)
DHC	7,061,121.05

Daily Summary

Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
64,068.41	7,065,800.45
Daily Mud Field Est (Cost)	**Cum Mud Field Est (Cost)**
18,721.41	949,879.37

POL (Personnel on Location)
25.0

Daily Contacts

Job Contact	Title
Dean Baker	Sr. Drlg. Foreman
Bill Vigil	Drlg. Foreman
Mike Reel	Drilling Supt
Eric Burnett	Drilling Engineer

Personnel Log

Company	Count
PIONEER NATURAL RESOURCES	1
PIONEER NATURAL RESOURCES	1
NABORS DRILLING INC	2
NABORS DRILLING INC	12
BAKER HUGHES INTEQ	2
ZECO	2
SELMA	2
NEWPARK	1
BADLANDZER	2

Weather

Precipitation Amount (in)	Precipitation Type
Temperature - High (°F)	**Temperature - Low (°F)**

Comment

NABORS DRILLING, 169

Rig Type
Drilling - Triple

Rig Start Date	Rig Release Date
9/22/2010	

1, National Supply, 10-P-130

Pump Number
1

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

2, National Supply, 10-P-130

Pump Number
2

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

Job Supply Amounts

Supply Item Des	Unit Label	Received	Consumed	Cum On Loc
Diesel Fuel	gal us	6,958		6,958

Mud Additive Amounts

Des	Consumed	Cum Cons
Bentone 910	14	335
BULK TANK	2	128
BULK TANK BLOWERS	2	106
Fiber Fluid Cor	110	442
GSX-509	3	39
Lime	24	540
MUD ENGINEER	1	64
MUD LAB	1	56
New Bar (Ton/bulk)	3	170

Safety Summary

BOP Test Date	Last BOP Test	BOP Func Due	HSE Incident	HSE Inc Remark
04/Dec/2010	06/Nov/2010	Next Trip		

PIONEER NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 11/15/2010
REPORT: 81
DOL: 79.67
DFS: 53.60

Rig Name: NABORS DRILLING 169

Depth Progress: 124.00

Daily Summary

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com
03:15	06:00	2.75	ROTDRLG	PP	Drill from 6745'-6758', pumps 95X95 spm, 663 gpm, 2770 psi, WOB 50-62K, TDS 35-60 rpm, Torque 2350-2980 ft/lbs. Drilled 13', 2.75 hrs, avg ROP 4.7'/hr, previous on btm rotating time 19.6 hrs, Total on btm rotating time 22.35 hrs Lithology: 95% Sandstone, 5% Shale Mixing 3-10 sxs/hr, Fibre Fluid in active system

Mud Properties

Daily Cost: 18,721.41 Cost Cum Cost: 949,879.37 Cost

Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	T Flowline (°F)
03:00	Oil Base	6,746.0	9.00	55	144.3

PV (cp)	YP (lbf/100ft²)	Filtrate (mL/30min)	HTHP Filtrate (mL/30...	HTHP Pressure (psi)	HTHP Temperature (°F)
13.0	15.000		4.0		250.0

Solids (%)	Sand (%)	MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)
10.0					

Chlorides (ppm)	Calcium (ppm)	Oil Water Ratio	Electric Stab (V)	Lime (lb/bbl)	Low Gravity Solids (%)
		82/18	828.0	4.3	6.7

Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Comment
14.000	15.000	

Bottom Hole Assembly

BHA Since Insp (hr)	BHA Wt BelowJar (1000lbf)	Hrs on Jars (hr)

BHA #21 , Slick

Bit Run	Drill Bit	Bit Type	Make
10	12 1/4in, R50PDH2, AT4176	Insert	Reed

Nozzles (1/32")	IADC Codes	IADC Bit Dull
18/18/18	637	-------

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)
0.75	24.00	125.00

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)
24.00	125.00	5.2	6,633.0	6,758.0

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
169	Drill Pipe	5	4.276	5,296.00	6,654.77
7	HWDP	5	3.000	215.16	1,358.77
1	Jars	6 3/8	2.875	32.57	1,143.61
19	HWDP	5	3.000	583.54	1,111.04
1	X/O	6 3/8	2.813	3.57	527.50
9	6-1/2" DC's	6 1/2	2.875	276.70	523.93
1	X/O	6 1/2	2.813	2.92	247.23
1	Thruster	7 7/8	3.563	30.11	244.31
5	8" DC's	8	2.875	153.83	214.20
1	12-1/4" Roller Reamer	8	2.750	6.82	60.37
1	8" Drill Collar	8	2.875	30.02	53.55
1	12-1/4"Roller Reamer	8	2.750	8.15	23.53
1	Tele-Drift	8	2.875	8.46	15.38
1	12-1/4" Near Bit Roller Reamer	8	2.750	6.92	6.92

Drilling Parameters

6,634.0 - 6,758.0 ftKB

Start (ftKB)	End Depth...	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note
6,634.0	6,758.0	5.5	64	58		663	2,800.0	

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100...	SO Str Wt (100...	Drill Str Wt (100...	Torque Units	Drilling Torque	Off Btm Tq
22.75	1.00	209	209	209	Ftlbs		1,600.0

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/...	Max Open Hole AV (ft...

Casing Strings

Prop Run?	Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
No	Conductor	105.0	105.0	30	ERW	118.00		
No	Surface	4,345.0	4,344.6	13 3/8	K-55	68.00		

Plug Back Total Depths

Date	Depth (ftKB)	Type	Method

Deviation Surveys

Tru-Trak, Proposed? No

Date	Description	Job
9/23/2010	Tru-Trak	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
11/7/2010	6,490.00	0.00		6,489.60				
11/7/2010	6,542.00	0.00		6,541.60				
11/7/2010	6,581.00	0.00		6,580.60				
11/13/2010	6,608.00	0.75		6,607.60				
11/13/2010	6,663.00	0.00		6,662.60				

Mud Additive Amounts

Des	Consumed	Cum Cons
OptiDrill OBM (1 bbl/bulk)	42	3,379
Opti-Mul	1	37
Opti-Plus	1	33
Strata Vanguard M	20	249
Tax	1,040	48,495

Formations

Formation Name	Final Top MD (ftKB)
Quaternary	80.0
Tertiary Volcanic	1,300.0
Tertiary Undivided	1,830.0
North Horn	3,810.0
UNCONFORMITY	4,345.0
Arapien	4,345.0
FAULT	
Arapien	
Twin Creek	
Gypsum Sprgs Mbr	
Navajo	
Chinle	
TD	

Safety Summary

11/15/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 11/16/2010
REPORT: 82
DOL: 80.66
DFS: 54.60

Rig Name: NABORS DRILLING 169

Depth Progress: 93.00

Daily Summary

Property Sub	Field Name	API/UWI	Spud Date
327560-001	WILDCAT	43-023-30021-0000	9/22/2010

KB-Ground Distance (ft)	Original KB Elevation (ft)	KB-Mud Line Distance (ft)
25.00	5,264.00	

Daily Operations

Target Depth (ftKB)	Target Depth (TVD) (ftKB)	End Depth (ftKB)	End Depth (TVD) (ftKB)
9,040.0		6,851.0	

Footage/Meterage (ft)	24 HR ROP (ft/hr)	Drilling Hours (hr)
93.00	4.8	19.40

Avg Connection Gas	Avg Trip Gas	Avg Background Gas	Max Connection Gas	Max Trip Gas	Max Drill Gas
38.00		19.00	38.00		38.00

Operations at Report Time
Drlg @ 6851'

Operations Summary
Drill from 6758' to 6851'

Remarks
Note : Total OBM lost to date (11/16/10) : 3315 bbls.
Note : OBM lost past 24 hrs: 84 bbls (surface = 53 hole = 31)

Lithology: 100% Sandstone

BHA #21 on bottom rotating time: Start: 22.35. End: 41.75 hrs.
Total on bottom time:19.40 hrs.

As per geologist and mud loggers, there is a high probability that a fault will be cut between 6800' to 7100', with massive losses expected. To compensate for losses shaker screens were pulled, @ 6825'. Mud system was pre-loaded with 15 ppb LCM..

Operations Next Report Period
Drill 12 1/4" Hole.

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com
06:00	07:45	1.75	ROTDRLG	PP	Drill from 6758'-6764', pumps 95X95 spm, 663 gpm, 2780 psi, WOB 45-55K, TDS 50-70 rpm, Torque 1960-2250 ft/lbs. Drilled 6', .9 hrs, avg ROP 6.7'/hr At 6762' bit torque spiking to 7370 ft/lbs. P/U, re-start bit, had change in lithology, Lithology: 95% Sandstone, 5% Shale At 6761', had drlg break, hole taking mud at approx 25 bbls/hr. Mix & pump (2) 30 bbl, 20 ppb, strata-Vanguard sweeps. Continue mixing 3-10 sxs/hr, Fibre Fluid in active system
07:45	08:15	0.50	RIGSER	PP	Service TDS Teledrift survey @ 6756', less than 1 deg
08:15	11:30	3.25	ROTDRLG	PP	Drill from 6764'-6782', pumps 95X95 spm, 663 gpm, 2820 psi, WOB 50-62K, TDS 50-70 rpm, Torque 2110-2360 ft/lbs. Drilled 18', 3.25 hrs, avg ROP 5.5 '/hr Mixing 5-10 sxs/hr, Fibre Fluid in active system
11:30	11:45	0.25	RIGSER	PP	Change out center, suction, cap gasket, on #2 mud pump
11:45	16:30	4.75	ROTDRLG	PP	Drill from 6782'-6805', pumps 95X95 spm, 663 gpm, 2820 psi, WOB 50-62K, TDS 50-70 rpm, Torque 2560-2970 ft/lbs. Drilled 23', 4.6 hrs, avg ROP 5 '/hr Lithology: 6780', 100% Sandstone Mixing 5-10 sxs/hr, Fibre Fluid in active system
16:30	17:00	0.50	U_OTR	PN	Attempt to circ w/ pump #3. Test pump 90 spm, 800 psi, OK, parallel pump #3 at 65 spm, pump #1 at 85 spm, 1760 psi, belts on #3 slipping.
17:00	17:15	0.25	ROTDRLG	PP	Drill from 6805'-6806', pumps 95X95 spm, 663 gpm, 2820 psi, WOB 50-62K, TDS 50-70 rpm, Torque 2630-2960 ft/lbs. Drilled 1', .3 hrs, avg ROP 3.3 '/hr Offline: adjust belt tension on pump #3
17:15	17:45	0.50	U_OTR	PN	Circ w/ pump #3, 90 spm, 800 psi, OK. Parallel pump #3 at 65 spm, w/ pump #1 at 85 spm, 1760 psi. No cooling fluid on pump #3 rods. S/D, clean out blockage in cooling line
17:45	21:15	3.50	ROTDRLG	PP	Drill from 6806'-6821', running pump #3 (stand-by) & pump #1, 93X96 spm, 660 gpm, 2820 psi, WOB 55-62K, TDS 50-70 rpm, Torque 2530-3050 ft/lbs. Drilled 15', 3.7 hrs, avg ROP 4.1 '/hr, Drill from 6806'-6821' w/ pump #3 Lithology: 100% Sandstone Mixing 3 sxs/hr, Fibre Fluid in active system

Total AFE + Sup (Cost)
9,064,000.00

AFE Job Cost Summary

Cost Type	AFE Amt (Cost)
DHC	7,600,000.00
CWC	1,464,000.00

Field Estimate Job Cost Summary

Cost Type	Field Est (Cost)
DHC	7,280,781.90

Daily Summary

Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
219,660.85	7,285,461.30
Daily Mud Field Est (Cost)	**Cum Mud Field Est (Cost)**
69,865.34	1,019,744.71

POL (Personnel on Location)
25.0

Daily Contacts

Job Contact	Title
Dean Baker	Sr. Drlg. Foreman
Bill Vigil	Drlg. Foreman
Mike Reel	Drilling Supt
Eric Burnett	Drilling Engineer

Personnel Log

Company	Count
PIONEER NATURAL RESOURCES	1
PIONEER NATURAL RESOURCES	1
NABORS DRILLING INC	2
NABORS DRILLING INC	12
BAKER HUGHES INTEQ	2
ZECO	2
SELMA	2
NEWPARK	1
BADLANDZER	2

Weather

Precipitation Amount (in)	Precipitation Type
Temperature - High (°F)	**Temperature - Low (°F)**

Comment

NABORS DRILLING, 169

Rig Type
Drilling - Triple

Rig Start Date	Rig Release Date
9/22/2010	

1, National Supply, 10-P-130

Pump Number
1

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)
Yes	155.0	40	133	95
Yes	230.0	50	166	95
Yes	340.0	60	199	95

2, National Supply, 10-P-130

Pump Number
2

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)
Yes	320.0	60	199	95
Yes	150.0	40	133	95
Yes	240.0	50	166	95

Job Supply Amounts

Supply Item Des	Unit Label	Received	Consumed	Cum On Loc
Diesel Fuel	gal us	6,958		6,958

Mud Additive Amounts

Des	Consumed	Cum Cons
Bentone 910	48	383
BULK TANK	2	130
BULK TANK BLOWERS	2	108
Fiber Fluid Cor	225	667
GSX-509	6	45
Lime	48	588

Safety Summary

BOP Test Date	Last BOP Test	BOP Func Due	HSE Incident	HSE Inc Remark
04/Dec/2010	06/Nov/2010	Next Trip	None	

11/16/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 11/16/2010
REPORT: 82
DOL: 80.66
DFS: 54.60

Rig Name: NABORS DRILLING 169

Depth Progress: 93.00

Daily Summary

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com
21:15	23:15	2.00	ROTDRLG	PP	Drill from 6806'-6827', pumps 95X95 spm, 663 gpm, 2820 psi, WOB 55-62K, TDS 50-70 rpm, Torque 2630-2960 ft/lbs. Drilled 21', 2 hrs, avg ROP 10.5 '/hr, Slow pump rates, on #1 & #2 Pumps. Running pumps #1 & #2, @ 23:15 hrs Loss of pump pressure, prepare to take #1 off line and drill with #1, & #3, pumps. 23:30 6825', Pulled back shaker screens on shakers Mixing DynaFiber, Mica, Walnut Shell, & Fiber Fluid, building to 15 ppb LCM in mud, preloading complete system, for possible massive losses, in fractured faulted area Lithology: 100% Sandstone
23:15	23:45	0.50	ROTDRLG	PP	Drill from 6827'-6829', (#2 &#3) pumps 95X95 spm, 663 gpm, 2820 psi, WOB 55-62K, TDS 50-70 rpm, Torque 2630-2960 ft/lbs. Take #2 pump off of hole, change out cap gasket, Cleaning LCM out of #1 Suction manifold. Drilling with #3 pump only. 110 stks, 975 psi, 45-50k WOB. Mixing DynaFiber, Mica, Walnut Shell, & Fiber Fluid, building to 15 ppb LCM in mud, preloading complete system, for possible massive losses, in fractured faulted area Lithology:100% Sandstone
23:45	00:15	0.50	ROTDRLG	PP	Drill from 6829'-6830', (#3) pump 110 spm, 383 gpm, 975 psi, WOB 45-50K, TDS 50-70 rpm, Torque 2050-2560 ft/lbs. Change out cap gasket, #2 Pump. Cleaning LCM out of Suction manifold, #1 Pump. Mixing DynaFiber, Mica, Walnut Shell, & Fiber Fluid, building to 15 ppb LCM in mud, preloading complete system, for possible massive losses, in fractured faulted area Lithology: 100% Sandstone
00:15	00:45	0.50	U_RIG	PN	Isolate #3 pump, and line out #1 & #2 pumps. Roll both pumps off bottom at drilling rate and inspect. All looks OK.
00:45	06:00	5.25	ROTDRLG	PP	Drill from 6830'-6851', pumps 95X95 spm, 663 gpm, 2820 psi, WOB 55-62K, TDS 50-70 rpm, Torque 2630-2960 ft/lbs. Drilled 21', 5.25 hrs, avg ROP 4 '/hr. Running pumps #1 & #2, 6836' Experience high torque on TDS. Mixing DynaFiber, Mica, Walnut Shell, & Fiber Fluid, building to 15 ppb LCM in mud, preloading complete system, for possible massive losses, in fractured faulted area Lithology:100% Sandstone

Mud Properties

Daily Cost: 69,865.34 Cost Cum Cost: 1,019,744.71 Cost

Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	T Flowline (°F)
03:30	Oil Base	6,839.0	9.00	55	137.6
PV (cp)	**YP (lbf/100ft²)**	**Filtrate (mL/30min)**	**HTHP Filtrate (mL/30...**	**HTHP Pressure (psi)**	**HTHP Temperature (°F)**
13.0	16.000		3.5		250.0
Solids (%)	**Sand (%)**	**MBT (lb/bbl)**	**pH**	**Pm (mL/mL)**	**Pf (mL/mL)**
10.0					
Chlorides (ppm)	**Calcium (ppm)**	**Oil Water Ratio**	**Electric Stab (V)**	**Lime (lb/bbl)**	**Low Gravity Solids (%)**
		82/18	841.0	4.7	6.8
Gel 10 sec (lbf/100ft²)	**Gel 10 min (lbf/100ft²)**	**Comment**			
15.000	16.000				

Bottom Hole Assembly

BHA Since Insp (hr)	BHA Wt BelowJar (1000lbf)	Hrs on Jars (hr)

BHA #21 , Slick

Bit Run	Drill Bit	Bit Type	Make
10	12 1/4in, R50PDH2, AT4176	Insert	Reed

Nozzles (1/32")	IADC Codes	IADC Bit Dull
18/18/18	637	-------

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)
0.75	43.40	218.00

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)
43.40	218.00	5.0	6,633.0	6,851.0

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
171	Drill Pipe	5	4.276	5,401.00	6,759.77
7	HWDP	5	3.000	215.16	1,358.77

Mud Additive Amounts

Des	Consumed	Cum Cons
MUD ENGINEER	1	65
MUD LAB	1	57
New Bar (Ton/bulk)	3	173
Oil Dry	3	11
OptiDrill OBM (1 bbl/bulk)	84	3,463
Opti-Mul	3	40
Opti-Plus	2	35
SALT	6	10
Strata Vanguard M	40	289
Tax	2,170	50,665
Trucking	31,020	94,391

Formations

Formation Name	Final Top MD (ftKB)
Quaternary	80.0
Tertiary Volcanic	1,300.0
Tertiary Undivided	1,830.0
North Horn	3,810.0
UNCONFORMITY	4,345.0
Arapien	4,345.0
FAULT	
Arapien	
Twin Creek	
Gypsum Sprgs Mbr	
Navajo	
Chinle	
TD	

Safety Summary

11/16/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 11/16/2010
REPORT: 82
DOL: 80.66
DFS: 54.60

Rig Name: NABORS DRILLING 169

Depth Progress: 93.00

Daily Summary

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
1	Jars	6 3/8	2.875	32.57	1,143.61
19	HWDP	5	3.000	583.54	1,111.04
1	X/O	6 3/8	2.813	3.57	527.50
9	6-1/2" DC's	6 1/2	2.875	276.70	523.93
1	X/O	6 1/2	2.813	2.92	247.23
1	Thruster	7 7/8	3.563	30.11	244.31
5	8" DC's	8	2.875	153.83	214.20
1	12-1/4" Roller Reamer	8	2.750	6.82	60.37
1	8" Drill Collar	8	2.875	30.02	53.55
1	12-1/4"Roller Reamer	8	2.750	8.15	23.53
1	Tele-Drift	8	2.875	8.46	15.38
1	12-1/4" Near Bit Roller Reamer	8	2.750	6.92	6.92

Drilling Parameters

6,758.0 - 6,851.0 ftKB

Start (ftKB)	End Depth...	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note
6,758.0	6,851.0	4.8	64	58		663	2,800.0	

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100...	SO Str Wt (100...	Drill Str Wt (100...	Torque Units	Drilling Torque	Off Btm Tq
19.40	3.50	209	209	209	Ftlbs		1,600.0

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/...	Max Open Hole AV (ft...

Casing Strings

Prop Run?	Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
No	Conductor	105.0	105.0	30	ERW	118.00		
No	Surface	4,345.0	4,344.6	13 3/8	K-55	68.00		

Plug Back Total Depths

Date	Depth (ftKB)	Type	Method

Deviation Surveys

Tru-Trak, Proposed? No

Date	Description	Job
9/23/2010	Tru-Trak	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
11/7/2010	6,490.00	0.00		6,489.60				
11/7/2010	6,542.00	0.00		6,541.60				
11/7/2010	6,581.00	0.00		6,580.60				
11/13/2010	6,608.00	0.75		6,607.60				
11/13/2010	6,663.00	0.00		6,662.60				

Safety Summary

11/16/2010

PIONEER NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 11/17/2010
REPORT: 83
DOL: 81.66
DFS: 55.60

Rig Name: NABORS DRILLING 169

Depth Progress: 84.00

Daily Summary

Property Sub	Field Name	API/UWI	Spud Date
327560-001	WILDCAT	43-023-30021-0000	9/22/2010

KB-Ground Distance (ft)	Original KB Elevation (ft)	KB-Mud Line Distance (ft)
25.00	5,264.00	

Daily Operations

Target Depth (ftKB)	Target Depth (TVD) (ftKB)	End Depth (ftKB)	End Depth (TVD) (ftKB)
9,040.0		6,935.0	

Footage/Meterage (ft)	24 HR ROP (ft/hr)	Drilling Hours (hr)
84.00	3.8	22.25

Avg Connection Gas	Avg Trip Gas	Avg Background Gas	Max Connection Gas	Max Trip Gas	Max Drill Gas
22.00		22.00	200.00		22.00

Operations at Report Time
Drlg @ 6935'

Operations Summary
Drill from 6581', ran wireline survey @ 6850', 1.51 deg, drill to 6897', install shaker screens, removing LCM from mud system, drilling at 6935'

Remarks
Note : Total OBM lost to date (11/17/10) : 3315 bbls.
Note : OBM lost past 24 hrs: 0 bbls (surface = 0 hole = 0)

Lithology: 100% Sandstone

BHA #21, 24 hrs on bottom rotating time 21.75 hrs: Start: 41.75 hrs. End: 63.5 hrs.

Received: 66 jts (4 trucks), 9-7/8", 62.8 ppf, P110, BTZ, csg, via Venture Transport

Operations Next Report Period
Drill 12 1/4" Hole.

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com
06:00	08:00	2.00	ROTDRLG	PP	Drill from 6851'-6860', pumps 95X95 spm, 663 gpm, 2820 psi, WOB 55-62K, TDS 50-70 rpm, Torque 2520-2960 ft/lbs. Drilled 9', 2 hrs hrs, avg ROP 4.5'/hr. Lithology:100% Sandstone
08:00	08:30	0.50	RIGSER	PP	Service TDS
08:30	09:30	1.00	DEVSUR	PP	Ran teledrift survey @ 6850', less than 1 deg, ran wireline survey @ 6836', 1.51 deg, re-run teledrift @ slower pump rate (350 gpm), had 0 deg dev
09:30	19:00	9.50	ROTDRLG	PP	Drill from 6860'-6897', pumps 95X95 spm, 663 gpm, 2820 psi, WOB 55-62K, TDS 50-70 rpm, Torque 2280-3060 ft/lbs. Drilled 37', 9.2 hrs hrs, avg ROP 4 '/hr. Lithology:100% Sandstone
19:00	19:15	0.25	CLNBH	PP	Install #70, shaker screens (at rear of shakers)
19:15	06:00	10.75	ROTDRLG	PP	Drill from 6897'-6935', pumps 60X60 to 95X95 spm, 419-663 gpm, 1225-2820 psi, WOB 55-62K, TDS 50-70 rpm, Torque 2200-3200 ft/lbs. Drilled 38', 10.6 hrs hrs, avg ROP 3.7 '/hr. Install #70 shaker screens on shakers, lost mud over shakers, due to 15 ppg, LCM concentration, reduced pump strokes from 95X95 to 85X85 to 60X60, Continue drilling ahead, increasing pumps strokes from 60X60, 70X70, 85X85, 95X95. 9 hrs drilling with reduced pump rates, while removing LCM from mud. Lithology:100% Sandstone

Mud Properties

Daily Cost: 19,443.49 Cost Cum Cost: 1,039,188.20 Cost

Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	T Flowline (°F)
06:00	Oil Base	6,887.0	9.00	56	133.0

PV (cp)	YP (lbf/100ft²)	Filtrate (mL/30min)	HTHP Filtrate (mL/30...	HTHP Pressure (psi)	HTHP Temperature (°F)
12.0	16.000		3.5		250.0

Solids (%)	Sand (%)	MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)
10.0					

Chlorides (ppm)	Calcium (ppm)	Oil Water Ratio	Electric Stab (V)	Lime (lb/bbl)	Low Gravity Solids (%)
52,000.000		82.2/17.8	864.0	4.7	6.7

Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Comment
14.000	16.000	

Bottom Hole Assembly

BHA Since Insp (hr)	BHA Wt BelowJar (1000lbf)	Hrs on Jars (hr)

BHA #21 , Slick

Bit Run	Drill Bit	Bit Type	Make
10	12 1/4in, R50PDH2, AT4176	Insert	Reed

Nozzles (1/32")	IADC Codes	IADC Bit Dull
18/18/18	637	-------

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)
0.75	65.65	302.00

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)
65.65	302.00	4.6	6,633.0	6,935.0

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
171	Drill Pipe	5	4.276	5,401.00	6,759.77
7	HWDP	5	3.000	215.16	1,358.77
1	Jars	6 3/8	2.875	32.57	1,143.61
19	HWDP	5	3.000	583.54	1,111.04
1	X/O	6 3/8	2.813	3.57	527.50
9	6-1/2" DC's	6 1/2	2.875	276.70	523.93
1	X/O	6 1/2	2.813	2.92	247.23

Total AFE + Sup (Cost)
9,064,000.00

AFE Job Cost Summary

Cost Type	AFE Amt (Cost)
DHC	7,600,000.00
CWC	1,464,000.00

Field Estimate Job Cost Summary

Cost Type	Field Est (Cost)
DHC	7,386,771.39

Daily Summary

Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
105,989.49	7,391,450.79
Daily Mud Field Est (Cost)	**Cum Mud Field Est (Cost)**
19,443.49	1,039,188.20

POL (Personnel on Location)
25.0

Daily Contacts

Job Contact	Title
Dean Baker	Sr. Drlg. Foreman
Bill Vigil	Drlg. Foreman
Mike Reel	Drilling Supt
Eric Burnett	Drilling Engineer

Personnel Log

Company	Count
PIONEER NATURAL RESOURCES	1
PIONEER NATURAL RESOURCES	1
NABORS DRILLING INC	2
NABORS DRILLING INC	12
BAKER HUGHES INTEQ	2
ZECO	2
SELMA	2
NEWPARK	1
BADLANDZER	2

Weather

Precipitation Amount (in)	Precipitation Type
Temperature - High (°F)	**Temperature - Low (°F)**

Comment

NABORS DRILLING, 169

Rig Type
Drilling - Triple

Rig Start Date	Rig Release Date
11/9/2010	

1, National Supply, 10-P-130

Pump Number
1

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)
3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

2, National Supply, 10-P-130

Pump Number
2

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)
3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

Job Supply Amounts

Supply Item Des	Unit Label	Received	Consumed	Cum On Loc
Diesel Fuel	gal us	6,958		6,958

Mud Additive Amounts

Des	Consumed	Cum Cons
Bentone 910	8	391
BULK TANK	2	132
BULK TANK BLOWERS	2	110
Cyber Seal	26	233
Drum Disposal		64
Dyna Fiber Cor	114	864
Fiber Fluid Cor	114	781
Lime	24	612
Mica F	127	607
MUD ENGINEER	1	66

Safety Summary

BOP Test Date	Last BOP Test	BOP Func Due	HSE Incident	HSE Inc Remark
04/Dec/2010	06/Nov/2010	Next Trip	None	

11/17/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 11/17/2010
REPORT: 83
DOL: 81.66
DFS: 55.60

Rig Name: NABORS DRILLING 169
Depth Progress: 84.00

Daily Summary

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
1	Thruster	7 7/8	3.563	30.11	244.31
5	8" DC's	8	2.875	153.83	214.20
1	12-1/4" Roller Reamer	8	2.750	6.82	60.37
1	8" Drill Collar	8	2.875	30.02	53.55
1	12-1/4"Roller Reamer	8	2.750	8.15	23.53
1	Tele-Drift	8	2.875	8.46	15.38
1	12-1/4" Near Bit Roller Reamer	8	2.750	6.92	6.92

Drilling Parameters

6,851.0 - 6,935.0 ftKB

Start (ftKB)	End Depth...	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note
6,851.0	6,935.0	3.8	64	58		663	2,800.0	

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100...	SO Str Wt (100...	Drill Str Wt (100...	Torque Units	Drilling Torque	Off Btm Tq
22.25	1.00	209	209	209	Ftlbs	3,190.0	1,600.0

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/...	Max Open Hole AV (ft...

Casing Strings

Prop Run?	Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
No	Conductor	105.0	105.0	30	ERW	118.00		
No	Surface	4,345.0	4,344.6	13 3/8	K-55	68.00		

Plug Back Total Depths

Date	Depth (ftKB)	Type	Method

Deviation Surveys

Tru-Trak, Proposed? No

Date	Description	Job
9/23/2010	Tru-Trak	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
11/7/2010	6,542.00	0.00		6,541.60				
11/7/2010	6,581.00	0.00		6,580.60				
11/14/2010	6,608.00	0.75		6,607.60				
11/15/2010	6,663.00	0.00		6,662.60				
11/16/2010	6,836.00	1.51		6,835.58				

Mud Additive Amounts

Des	Consumed	Cum Cons
MUD LAB	1	58
Opti-Clean	1	4
Opti-Mul	2	42
Opti-Plus	1	36
Pallets		104
Shrink Wrap		49
Strata Vanguard M		289
Tax	982	51,647
Trucking	1,587	95,978
Wallnut Shell F	50	200
Wallnut Shell M	77	781

Formations

Formation Name	Final Top MD (ftKB)
Quaternary	80.0
Tertiary Volcanic	1,300.0
Tertiary Undivided	1,830.0
North Horn	3,810.0
UNCONFORMITY	4,345.0
Arapien	4,345.0
FAULT	
Arapien	
Twin Creek	
Gypsum Sprgs Mbr	
Navajo	
Chinle	
TD	

Safety Summary

11/17/2010

PIONEER NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 11/19/2010
REPORT: 85
DOL: 83.66
DFS: 57.60

Rig Name: NABORS DRILLING 169

Depth Progress: 73.00

Daily Summary

Property Sub	Field Name	API/UWI	Spud Date
327560-001	WILDCAT	43-023-30021-0000	9/22/2010

KB-Ground Distance (ft)	Original KB Elevation (ft)	KB-Mud Line Distance (ft)
25.00	5,264.00	

Daily Operations

Target Depth (ftKB)	Target Depth (TVD) (ftKB)	End Depth (ftKB)	End Depth (TVD) (ftKB)
9,040.0		7,112.0	

Footage/Meterage (ft)	24 HR ROP (ft/hr)	Drilling Hours (hr)
73.00	3.5	20.75

Avg Connection Gas	Avg Trip Gas	Avg Background Gas	Max Connection Gas	Max Trip Gas	Max Drill Gas
22.00		13.00	36.00		13.00

Operations at Report Time
Drlg @ 7112'

Operations Summary
Drill from 7039'-7048', run survey @ 7021', .47 deg, Drill from 7048' to 7112', Drilling Ahead.

Remarks
Note : Total OBM lost to date (11/19/10) : 3555 bbls
Note : OBM lost past 24 hrs: 156 bbls (surface = 22 hole = 134)

Lithology: 60% Dolomite, 25% Limestone, 15% Sandstone @ 7100'

BHA #21, On bottom rotating time 20.75 hrs: Start: 84.5 hrs. End: 105.25 hrs.

Total 9-7/8" csg on location: 147 jts, 6060.20' (SLM, threads off)

Day tour held Well Control drill, reaction time 1-3/4 minutes

Operations Next Report Period
Drill 12 1/4" Hole, Possible Bit trip.

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com
06:00	07:30	1.50	ROTDRLG	PP	Drill from 7039'-7048', pumps 75X75 reduced to 70X70 spm, 523-488 gpm, MW 9.0, Vis 57, 2820 psi, WOB 55-62K, TDS 50-70 rpm, Torque 2980-3360 ft/lbs Reduced pumps to 70X70 spm @ 7043' due to downhole losses increasing from 10 to 25 bbls per hr. Drilling with pump #2 and Standby pump #3 Mixed & pump 30 bbls, 25 ppb, Strate-Vanguard sweeps from 7041'- Drilled 9', in 1.4 hrs hrs, avg ROP 6.4 '/hr. Lithology: 100% Sandstone
07:30	08:00	0.50	RIGSER	PP	Rig Service, TDS
08:00	09:00	1.00	DEVSUR	PP	Ran teledrift @ 7034' less than 1 deg, ran wireline survey @ 7021', .47 deg, Tempt 182 deg F (Note: this tempt is 20 deg cooler than last survey run @ 6930', with drilled depth @ 6955')
09:00	12:30	3.50	ROTDRLG	PP	Drill from 7048-7062', pumps 70X70 spm, 488 gpm, MW 9.0, Vis 57, 1630 psi, WOB 42-50K, TDS 60-75 rpm, Torque 2380-3360 ft/lbs Drill w/ reduced pump stks 70X70 spm, due to downhole losses 10 to 25 bbls per hr. Mixed & pump 30 bbls, 25 ppb, Strate-Vanguard sweeps from 7041'-7062' Drilled 14', in 3.3 hrs hrs, avg ROP 4.2 '/hr. Lithology: 100% Sandstone
12:30	12:45	0.25	RMCLN	PN	P/U & ream 7059'-7062', pumps 70X70 spm, 84I8 gpm, WOB 15-35K, torque 1500-4670 ft/lbs, 45-50 rpm, bouncing & backlashing string
12:45	22:00	9.25	ROTDRLG	PP	Drill from 7062-7092', pumps 70X70 to , 75X75, spm, 488 gpm, MW 9.0, Vis 57, 1630 psi, WOB 42-50K, TDS 60-75 rpm, Torque 1840-3270 ft/lbs Drill w/ reduced pump stks 70X70, increasing to 75X75, losses of 5-10 bbls/hr, Drilled 30', in 9.25 hrs, avg ROP 3.2 '/hr. Lithology: 100% Sandstone
22:00	22:15	0.25	RISER	PP	Pick up off btm to switch pumps, put pump #2 and standby pump #3 on hole for service on #1, (change motor oil).
22:15	23:45	1.50	ROTDRLG	PP	Drill from 7092-7096', pumps 75X75 spm, 524 gpm, MW 9.0, Vis 57, 1630 psi, WOB 42-50K, TDS 60-75 rpm, Torque 2380-3360 ft/lbs Drill w/ reduced pump stks 75X75 spm, due to downhole losses 5-10 bbls per hr. Drilled 4', in 1.5 hrs hrs, avg ROP 2.6 '/hr. Lithology: 100% Sandstone
23:45	00:00	0.25	RISER	PP	Pick up off btm to switch pumps, put pump #1 and pump #2 back on hole. Ream back to bottom.

Total AFE + Sup (Cost)
9,064,000.00

AFE Job Cost Summary

Cost Type	AFE Amt (Cost)
DHC	7,600,000.00
CWC	1,464,000.00

Field Estimate Job Cost Summary

Cost Type	Field Est (Cost)
DHC	7,621,321.10

Daily Summary

Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
140,286.44	7,626,000.50
Daily Mud Field Est (Cost)	**Cum Mud Field Est (Cost)**
66,957.44	1,124,500.91

POL (Personnel on Location)
25.0

Daily Contacts

Job Contact	Title
Dean Baker	Sr. Drlg. Foreman
Derrick Berry	Drlg. Foreman
Mike Reel	Drilling Supt
Eric Burnett	Drilling Engineer

Personnel Log

Company	Count
PIONEER NATURAL RESOURCES	1
PIONEER NATURAL RESOURCES	1
NABORS DRILLING INC	2
NABORS DRILLING INC	12
BAKER HUGHES INTEQ	2
ZECO	2
SELMA	2
NEWPARK	1
BADLANDZER	2

Weather

Precipitation Amount (in)	Precipitation Type
Temperature - High (°F)	**Temperature - Low (°F)**

Comment

NABORS DRILLING, 169

Rig Type
Drilling - Triple

Rig Start Date	Rig Release Date
11/9/2010	

1, National Supply, 10-P-130

Pump Number
1

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)
3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

2, National Supply, 10-P-130

Pump Number
2

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)
3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

Job Supply Amounts

Supply Item Des	Unit Label	Received	Consumed	Cum On Loc
Diesel Fuel	gal us	6,958		6,958

Mud Additive Amounts

Des	Consumed	Cum Cons
Bentone 910	6	401
BULK TANK	2	136
BULK TANK BLOWERS	2	114
Fiber Fluid Cor	175	956
GSX-509	4	49
Lime	48	679
MUD ENGINEER	1	68
MUD LAB	1	60
New Bar (Ton/bulk)	23	196

Safety Summary

BOP Test Date	Last BOP Test	BOP Func Due	HSE Incident	HSE Inc Remark
04/Dec/2010	06/Nov/2010	Next Trip	None	

11/19/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 11/19/2010
REPORT: 85
DOL: 83.66
DFS: 57.60

Rig Name: NABORS DRILLING 169

Depth Progress: 73.00

Daily Summary

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com
00:00	06:00	6.00	ROTDRLG	PP	Drill from 7092-7112', pumps 80X80 spm, 558 gpm, MW 9.0, Vis 55, 1630 psi, WOB 42-50K, TDS 60-75 rpm, Torque 2380-3360 ft/lbs. Drilling with #1 and #2 pump. Drilled 20', in 6 hrs hrs, avg ROP 3.3 '/hr. Lithology: 100% Sandstone 7092' to 7100' 60% Dolomite, 25% Limestone, 15% SandStone @ 7100'

Mud Properties

Daily Cost: 66,957.44 Cost Cum Cost: 1,124,500.91 Cost

Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	T Flowline (°F)
00:00	Oil Base	7,105.0	9.00	55	133.0

PV (cp)	YP (lbf/100ft²)	Filtrate (mL/30min)	HTHP Filtrate (mL/30...	HTHP Pressure (psi)	HTHP Temperature (°F)
12.0	18.000		3.0		250.0

Solids (%)	Sand (%)	MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)
9.0					

Chlorides (ppm)	Calcium (ppm)	Oil Water Ratio	Electric Stab (V)	Lime (lb/bbl)	Low Gravity Solids (%)
10,000.000		81.3/18.7	822.0	4.7	5.6

Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Comment
14.000	15.000	

Bottom Hole Assembly

BHA Since Insp (hr)	BHA Wt BelowJar (1000lbf)	Hrs on Jars (hr)

BHA #21 , Slick

Bit Run	Drill Bit	Bit Type	Make
10	12 1/4in, R50PDH2, AT4176	Insert	Reed

Nozzles (1/32")	IADC Codes	IADC Bit Dull
18/18/18	637	-------

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)
0.75	108.40	479.00

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)
108.40	479.00	4.4	6,633.0	7,112.0

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
171	Drill Pipe	5	4.276	5,401.00	6,759.77
7	HWDP	5	3.000	215.16	1,358.77
1	Jars	6 3/8	2.875	32.57	1,143.61
19	HWDP	5	3.000	583.54	1,111.04
1	X/O	6 3/8	2.813	3.57	527.50
9	6-1/2" DC's	6 1/2	2.875	276.70	523.93
1	X/O	6 1/2	2.813	2.92	247.23
1	Thruster	7 7/8	3.563	30.11	244.31
5	8" DC's	8	2.875	153.83	214.20
1	12-1/4" Roller Reamer	8	2.750	6.82	60.37
1	8" Drill Collar	8	2.875	30.02	53.55
1	12-1/4"Roller Reamer	8	2.750	8.15	23.53
1	Tele-Drift	8	2.875	8.46	15.38
1	12-1/4" Near Bit Roller Reamer	8	2.750	6.92	6.92

Drilling Parameters

7,039.0 - 7,112.0 ftKB

Start (ftKB)	End Depth...	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note
7,039.0	7,112.0	3.5	50	75		558	2,100.0	

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100...	SO Str Wt (100...	Drill Str Wt (100...	Torque Units	Drilling Torque	Off Btm Tq
20.75	1.00	215	215	165	Ftlbs	2,500.0	1,600.0

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/...	Max Open Hole AV (ft...

Casing Strings

Prop Run?	Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
No	Conductor	105.0	105.0	30	ERW	118.00		
No	Surface	4,345.0	4,344.6	13 3/8	K-55	68.00		

Plug Back Total Depths

Date	Depth (ftKB)	Type	Method

Deviation Surveys

Tru-Trak, Proposed? No

Date	Description	Job
9/23/2010	Tru-Trak	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
11/14/2010	6,608.00	0.75		6,607.60				
11/15/2010	6,663.00	0.00		6,662.60				
11/16/2010	6,836.00	1.51		6,835.58				
11/17/2010	6,930.00	0.92		6,929.57				
11/17/2010	7,021.00	0.47		7,020.57				

Mud Additive Amounts

Des	Consumed	Cum Cons
OptiDrill OBM (1 bbl/bulk)	156	3,703
Opti-Thin	1	1
Strata Vanguard M	140	429
Tax	3,636	56,294
Trucking	2,224	98,202

Formations

Formation Name	Final Top MD (ftKB)
Quaternary	80.0
Tertiary Volcanic	1,300.0
Tertiary Undivided	1,830.0
North Horn	3,810.0
UNCONFORMITY	4,345.0
Arapien	4,345.0
FAULT	
Arapien	
Twin Creek	
Gypsum Sprgs Mbr	
Navajo	
Chinle	
TD	

Safety Summary

11/19/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 11/20/2010
REPORT: 86
DOL: 84.55
DFS: 58.60

Rig Name: NABORS DRILLING 169

Depth Progress: 13.00

Daily Summary

Property Sub	Field Name	API/UWI	Spud Date
327560-001	WILDCAT	43-023-30021-0000	9/22/2010

KB-Ground Distance (ft)	Original KB Elevation (ft)	KB-Mud Line Distance (ft)
25.00	5,264.00	

Daily Operations

Target Depth (ftKB)	Target Depth (TVD) (ftKB)	End Depth (ftKB)	End Depth (TVD) (ftKB)
9,040.0		7,125.0	

Footage/Meterage (ft)	24 HR ROP (ft/hr)	Drilling Hours (hr)
13.00	4.3	3.00

Avg Connection Gas	Avg Trip Gas	Avg Background Gas	Max Connection Gas	Max Trip Gas	Max Drill Gas
	63.00	14.00			14.00

Operations at Report Time
Drlg @ 7125'

Operations Summary
Drill to 7113', circ btms up, drop survey, TOOH, L/D (3) roller reamers, Teledrift Tool. Float hung up in new near bit roller reamer, knock oput float, new near bit roller reamer not cut deep enough for float. Change out pins & rollers on near bit roller reamer laid down. M/U bit and BHA, TIH to 4109', remove trip nipple and install rotating head, TIH to 6960', wash down last 2 stands hole free and clear, Drill from 7112' to 7125'.

Remarks
Note : Total OBM lost to date (11/20/10) : 3454 bbls (corrected due to incorrect math figures)
Note : OBM lost past 24 hrs: 18 bbls (surface = 8 hole = 10)
Note: Hauled in to location 480bbls of Base oil

Lithology @ 7113': 80% Dolomite, 20% Shale

BHA #21, On bottom rotating time: .6 hrs: Start: 105.25 hrs. End: 105.85 hrs.
BHA #22: On bottom rotating time: 2.5 hrs: Start: 0 hrs End: 2.5 hrs

Casing Delivered 19/Nov: 95 jts (6 trucks), 9-7/8", 62.8 ppf, P110, BTZ, csg, via Venture Transport
Total 9-7/8" csg on location: 242 jts, 10,014.54' (SLM, threads off)

Operations Next Report Period
Drill 12 1/4" Hole

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com
06:00	06:30	0.50	ROTDRLG	PP	Drill from 7112-7113', pumps 80X80 spm, 558 gpm, MW 9.0, Vis 55, 1630 psi, WOB 42-50K, TDS 60-75 rpm, Torque 2380-3360 ft/lbs. Drilling with #1 and #2 pump. Drilled 1', in .5 hrs hrs, avg ROP 2 '/hr. Lithology @ 7113': 60% Dolomite, 25% Limestone, 15% SandStone
06:30	07:30	1.00	CIRSMP	PP	Circ bottoms up @ 7113'
07:30	08:00	0.50	DEVSUR	PP	Drop survey, survey depth 7089', pump slug
08:00	09:30	1.50	TRIP	PP	TOOH from 7113'-3991'
09:30	09:45	0.25	WLHEAD	PP	Pull rotating head assm, install trip nipple
09:45	11:45	2.00	TRIP	PP	POOH from 3991'-528'
11:45	12:30	0.75	BHA	PP	POOH, w/ DC's from 528'-61', L/D top roller reamer, reamer 1/8 undergauge
12:30	14:15	1.75	BHA	PP	Break bit (full gauge, no broken teeth, teeth some wear), could not pull float, breakout & L/D near bit roller reamer (1/4"-5/16" undergauge), teledrift tool, string roller reamer (1/4" undergauge). Survey tool damaged when dropped & landed in crows foot (bottom, part w/ mandrel, that spring fits over, bent). Survey was 1.07 deg -- not a good survey. Tempt 188 deg F.
14:15	14:30	0.25	RIGSER	PP	Break out BHI sensor in mud line
14:30	15:00	0.50	RIGSER	PP	Service TDS
15:00	17:30	2.50	BHA	PP	When inserting float in near bit stab, float hung up. L/D reamer, could not knock out float (near bit reamer not bored deep enough f/ float). Remove cutters & pins from near bit roller reamer L/D. New spare cutters & pins were incorrect length & Diameter.
17:30	19:00	1.50	U_OTR	PN	Field dress string roller reamer -- remove used, install new, cutters & pins Locate 8" Bit Sub on location M/U: New roller reamer, pony Monel DC, New roller reamer, 8" DC,
19:00	21:45	2.75	BHA	PP	M/U: 12-1/4", Reed, Insert, R-44FPDH, (3) 18 nozzles, Bit Sub, to, New roller reamer, pony Monel DC, New roller reamer, 8" DC, re-run roller reamer (field dressed w/ new cutters & pins), TIH w/ DC's to 532'
21:45	23:15	1.50	TRIP	PP	TIH from 532' to 4109'
23:15	00:30	1.25	BOPS	PP	Pull trip nipple, install rotating head assm, and fill pipe 45spm.
00:30	02:15	1.75	TRIP	PP	TIH from 4109' to 6960', Hole free and clear with no fill.
02:15	02:45	0.50	WA	PP	Wash from 6960' to btm @ 7113', Pumps 80X80, 2100psi, Good returns no losses.
02:45	03:30	0.75	ROTDRLG	PP	Break bit in @ 7113', Pumps @ 80X80 spm, TDS @ 35 rpm, WOB from 5K increasing slowly to 40K
03:30	06:00	2.50	ROTDRLG	PP	Drill from 7113-7125', pumps 80X80 spm, 558 gpm, MW 9.0, Vis 55, 1630 psi, WOB 42-60K, TDS 40-50 rpm, Torque 2580-3000 ft/lbs. Drilling with #1 and #2 pump. Drilled 13', in 2.5 hrs, avg ROP 5.2 '/hr. Lithology: 65% Dolomite, 30% Limestone, 5% SandStone

Total AFE + Sup (Cost)
9,064,000.00

AFE Job Cost Summary

Cost Type	AFE Amt (Cost)
DHC	7,600,000.00
CWC	1,464,000.00

Field Estimate Job Cost Summary

Cost Type	Field Est (Cost)
DHC	7,714,966.11

Daily Summary

Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
93,645.01	7,719,645.51
Daily Mud Field Est (Cost)	**Cum Mud Field Est (Cost)**
15,611.71	1,140,112.62

POL (Personnel on Location)
25.0

Daily Contacts

Job Contact	Title
Dean Baker	Sr. Drlg. Foreman
Derrick Berry	Drlg. Foreman
Mike Reel	Drilling Supt
Eric Burnett	Drilling Engineer

Personnel Log

Company	Count
PIONEER NATURAL RESOURCES	1
PIONEER NATURAL RESOURCES	1
NABORS DRILLING INC	2
NABORS DRILLING INC	12
BAKER HUGHES INTEQ	2
ZECO	2
SELMA	2
NEWPARK	1
BADLANDZER	2

Weather

Precipitation Amount (in)	Precipitation Type
Temperature - High (°F)	**Temperature - Low (°F)**

Comment

NABORS DRILLING, 169

Rig Type
Drilling - Triple

Rig Start Date	Rig Release Date
11/9/2010	

1, National Supply, 10-P-130

Pump Number
1

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)
3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

2, National Supply, 10-P-130

Pump Number
2

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)
3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

Job Supply Amounts

Supply Item Des	Unit Label	Received	Consumed	Cum On Loc
Diesel Fuel	gal us	6,958		6,958

Mud Additive Amounts

Des	Consumed	Cum Cons
Bentone 910	2	403
BULK TANK	2	138
BULK TANK BLOWERS	2	116
GSX-509	3	52
Lime	19	698
MUD ENGINEER	1	69
MUD LAB	1	61
Oil Dry	4	15
OptiDrill OBM (1 bbl/bulk)	18	3,721

Safety Summary

BOP Test Date	Last BOP Test	BOP Func Due	HSE Incident	HSE Inc Remark
04/Dec/2010	06/Dec/2010	Next Trip		

11/20/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 11/20/2010
REPORT: 86
DOL: 84.55
DFS: 58.60

Rig Name: NABORS DRILLING 169

Depth Progress: 13.00

Daily Summary

Mud Properties — **Daily Cost: 15,611.71 Cost Cum Cost: 1,140,112.62 Cost**

Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	T Flowline (°F)
00:00	Oil Base	7,107.0	9.00	55	133.0

PV (cp)	YP (lbf/100ft²)	Filtrate (mL/30min)	HTHP Filtrate (mL/30…	HTHP Pressure (psi)	HTHP Temperature (°F)
12.0	18.000		3.0		250.0

Solids (%)	Sand (%)	MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)
9.0					

Chlorides (ppm)	Calcium (ppm)	Oil Water Ratio	Electric Stab (V)	Lime (lb/bbl)	Low Gravity Solids (%)
		81.3/18.7	854.0	4.7	4.8

Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Comment
14.000	16.000	

Bottom Hole Assembly

BHA Since Insp (hr)	BHA Wt BelowJar (1000lbf)	Hrs on Jars (hr)

BHA #21 , Slick

Bit Run	Drill Bit	Bit Type	Make
10	12 1/4in, R50PDH2, AT4176	Insert	Reed

Nozzles (1/32")	IADC Codes	IADC Bit Dull
18/18/18	637	2-2-WT-A-2-0-NO-HR

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)
0.75	108.90	480.00

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)
108.90	480.00	4.4	6,633.0	7,113.0

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
183	Drill Pipe	5	4.276	5,782.00	7,140.77
7	HWDP	5	3.000	215.16	1,358.77
1	Jars	6 3/8	2.875	32.57	1,143.61
19	HWDP	5	3.000	583.54	1,111.04
1	X/O	6 3/8	2.813	3.57	527.50
9	6-1/2" DC's	6 1/2	2.875	276.70	523.93
1	X/O	6 1/2	2.813	2.92	247.23
1	Thruster	7 7/8	3.563	30.11	244.31
5	8" DC's	8	2.875	153.83	214.20
1	12-1/4" Roller Reamer	8	2.750	6.82	60.37
1	8" Drill Collar	8	2.875	30.02	53.55
1	12-1/4"Roller Reamer	8	2.750	8.15	23.53
1	Tele-Drift	8	2.875	8.46	15.38
1	12-1/4" Near Bit Roller Reamer	8	2.750	6.92	6.92
		8			0.00

Drilling Parameters

7,112.0 - 7,113.0 ftKB

Start (ftKB)	End Depth…	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note
7,112.0	7,113.0	2.0	50	75		558	2,100.0	

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100…	SO Str Wt (100…	Drill Str Wt (100…	Torque Units	Drilling Torque	Off Btm Tq
0.50	1.25	215	215	165	Ftlbs	2,500.0	1,600.0

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/…	Max Open Hole AV (ft…

BHA #22 , Slick

Bit Run	Drill Bit	Bit Type	Make
11	12 1/4in, R44FPDH, JT9784t	Insert	Reed

Nozzles (1/32")	IADC Codes	IADC Bit Dull
18/18/18	627	-------

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)
0.75	2.50	12.00

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)
2.50	12.00	4.8	7,113.0	7,125.0

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
183	Drill Pipe	5	4.276	5,782.00	7,144.25
7	HWDP	5	3.000	215.16	1,362.25
1	Jars	6 3/8	2.875	32.57	1,147.09
19	HWDP	5	3.000	583.54	1,114.52
1	X/O	6 3/8	2.813	3.57	530.98
9	6-1/2" DC's	6 1/2	2.875	276.70	527.41
1	X/O	6 1/2	2.813	2.92	250.71
1	Thruster	7 7/8	3.563	30.11	247.79
5	8" DC's	8	2.875	153.83	217.68
1	12-1/4" Roller Reamer	8	2.750	6.82	63.85
1	8" Drill Collar	8	2.875	30.02	57.03
1	12-1/4" Roller Reamer	8	2.875	7.03	27.01
1	Drill Collar - Pony	8	2.875	8.74	19.98
1	12-1/4" Roller Reamer	8 1/8	2.875	6.74	11.24
1	Bit Sub w/Float	8		4.50	4.50

Drilling Parameters

7,113.0 - 7,125.0 ftKB

Start (ftKB)	End Depth…	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note
7,113.0	7,125.0	4.8	60	50		558	2,100.0	

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100…	SO Str Wt (100…	Drill Str Wt (100…	Torque Units	Drilling Torque	Off Btm Tq
2.50		215	215	165		3,300.0	

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/…	Max Open Hole AV (ft…

Mud Additive Amounts

Des	Consumed	Cum Cons
Opti-Mul	4	49
Strata Vanguard M	40	469
Tax	855	57,149

Formations

Formation Name	Final Top MD (ftKB)
Quaternary	80.0
Tertiary Volcanic	1,300.0
Tertiary Undivided	1,830.0
North Horn	3,810.0
UNCONFORMITY	4,345.0
Arapien	4,345.0
FAULT	
Arapien	
Twin Creek	
Gypsum Sprgs Mbr	
Navajo	
Chinle	
TD	

Safety Summary

11/20/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Daily Drilling Report

Well Name: South Hills 6-1

Rig Name: NABORS DRILLING 169

Depth Progress: 13.00

REPORT DATE: 11/20/2010
REPORT: 86
DOL: 84.55
DFS: 58.60

Daily Summary

Casing Strings

Prop Run?	Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
No	Conductor	105.0	105.0	30	ERW	118.00		
No	Surface	4,345.0	4,344.6	13 3/8	K-55	68.00		

Plug Back Total Depths

Date	Depth (ftKB)	Type	Method

Deviation Surveys

Tru-Trak, Proposed? No

Date	Description	Job
9/23/2010	Tru-Trak	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
11/14/2010	6,608.00	0.75		6,607.60				
11/15/2010	6,663.00	0.00		6,662.60				
11/16/2010	6,836.00	1.51		6,835.58				
11/17/2010	6,930.00	0.92		6,929.57				
11/17/2010	7,021.00	0.47		7,020.57				

Safety Summary

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 11/21/2010
REPORT: 87
DOL: 85.55
DFS: 59.60

Rig Name: NABORS DRILLING 169

Depth Progress: 123.00

Daily Summary

Property Sub	Field Name	API/UWI	Spud Date
327560-001	WILDCAT	43-023-30021-0000	9/22/2010

KB-Ground Distance (ft)	Original KB Elevation (ft)	KB-Mud Line Distance (ft)
25.00	5,264.00	

Daily Operations

Target Depth (ftKB)	Target Depth (TVD) (ftKB)	End Depth (ftKB)	End Depth (TVD) (ftKB)
9,040.0		7,248.0	

Footage/Meterage (ft)	24 HR ROP (ft/hr)	Drilling Hours (hr)
123.00	5.6	21.85

Avg Connection Gas	Avg Trip Gas	Avg Background Gas	Max Connection Gas	Max Trip Gas	Max Drill Gas
		16.00			

Operations at Report Time
Drlg @ 7248'

Operations Summary
Drill from 7125'- 7146', ran wireline survey - 1.9 deg. @ 7142', Drill from 7146' to 7248'.

Remarks
Note : Total OBM lost to date (11/20/10) : 3484
Note : OBM lost past 24 hrs: 28 bbls (surface = 22 hole = 6)
Note: Newpark brought in 240 bbls, 12.0 ppg, OBM

Lithology @ 7230': 70% Dolomite, 30% Limestone

BHA #22: On bottom rotating time: hrs: Start: 2.5 hrs End: 24.9 hrs on bottom time start 105.85 hrs - 130.8 total hrs = 25 hrs on bit

Total 9-7/8" csg on location: 242 jts, 10,014.54' (SLM, threads off)

Operations Next Report Period
Drill 12 1/4" Hole to 7300', TOOH, Log

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com
06:00	09:45	3.75	ROTDRLG	PP	Drill from 7125-7146', pumps 80X80 spm, 558 gpm, MW 9.0, Vis 55, 1630 psi, WOB 48-52K, TDS 40-50 rpm, Torque 3060-3430 ft/lbs Drilled 21', in 3.1 hrs, avg ROP 6.8 '/hr. Lithology: 80% Dolomite, 15% Limestone, 5% SandStone
09:45	10:15	0.50	RIGSER	PP	Service TDS
10:15	11:00	0.75	DEVSUR	PP	Ran wireline survey @ 7142', 1.9 deg
11:00	06:00	19.00	ROTDRLG	PP	Drill from 7146'-7248', pumps 80X80 spm, 558 gpm, MW 9.0, Vis 55, 1970 psi, WOB 48-52K, TDS 40-50 rpm, Torque 2880-3030 ft/lbs Drilled 102', in 22.75 hrs, avg ROP 4.5 '/hr. Lithology: 7100'-7170', 80%-70% Dolomite, 20%-30% Limestone 7180', 60% Sandstone, 20% Dolomite, 20% Limestone 7230', 70% Dolomite, 30% Limestone

Mud Properties

Daily Cost: 16,061.06 Cost Cum Cost: 1,156,173.68 Cost

Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	T Flowline (°F)
03:30	Oil Base	7,234.0	9.00	55	132.0

PV (cp)	YP (lbf/100ft²)	Filtrate (mL/30min)	HTHP Filtrate (mL/30...	HTHP Pressure (psi)	HTHP Temperature (°F)
13.0	16.000		3.0		250.0

Solids (%)	Sand (%)	MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)
9.0					

Chlorides (ppm)	Calcium (ppm)	Oil Water Ratio	Electric Stab (V)	Lime (lb/bbl)	Low Gravity Solids (%)
		81.3/18.7	864.0	4.7	4.8

Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Comment
14.000	15.000	

Bottom Hole Assembly

BHA Since Insp (hr)	BHA Wt BelowJar (1000lbf)	Hrs on Jars (hr)

BHA #22 , Slick

Bit Run	Drill Bit	Bit Type	Make
11	12 1/4in, R44FPDH, JT9784t	Insert	Reed

Nozzles (1/32")	IADC Codes	IADC Bit Dull
18/18/18	627	-------

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)
0.75	24.35	135.00

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)
24.35	135.00	5.5	7,113.0	7,248.0

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
189	Drill Pipe	5	4.276	5,906.25	7,268.50
7	HWDP	5	3.000	215.16	1,362.25
1	Jars	6 3/8	2.875	32.57	1,147.09
19	HWDP	5	3.000	583.54	1,114.52
1	X/O	6 3/8	2.813	3.57	530.98
9	6-1/2" DC's	6 1/2	2.875	276.70	527.41
1	X/O	6 1/2	2.813	2.92	250.71
1	Thruster	7 7/8	3.563	30.11	247.79
5	8" DC's	8	2.875	153.83	217.68
1	12-1/4" Roller Reamer	8	2.750	6.82	63.85
1	8" Drill Collar	8	2.875	30.02	57.03
1	12-1/4" Roller Reamer	8	2.875	7.03	27.01
1	Drill Collar - Pony	8	2.875	8.74	19.98
1	12-1/4" Roller Reamer	8 1/8	2.875	6.74	11.24

Total AFE + Sup (Cost)
9,064,000.00

AFE Job Cost Summary

Cost Type	AFE Amt (Cost)
DHC	7,600,000.00
CWC	1,464,000.00

Field Estimate Job Cost Summary

Cost Type	Field Est (Cost)
DHC	7,800,534.17

Daily Summary

Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
85,568.06	7,805,213.57
Daily Mud Field Est (Cost)	**Cum Mud Field Est (Cost)**
16,061.06	1,156,173.68

POL (Personnel on Location)
25.0

Daily Contacts

Job Contact	Title
Dean Baker	Sr. Drlg. Foreman
Derrick Berry	Drlg. Foreman
Mike Reel	Drilling Supt
Eric Burnett	Drilling Engineer

Personnel Log

Company	Count
PIONEER NATURAL RESOURCES	1
PIONEER NATURAL RESOURCES	1
NABORS DRILLING INC	2
NABORS DRILLING INC	12
BAKER HUGHES INTEQ	2
ZECO	2
SELMA	2
NEWPARK	1
BADLANDZER	2

Weather

Precipitation Amount (in)	Precipitation Type
Temperature - High (°F)	**Temperature - Low (°F)**

Comment

NABORS DRILLING, 169

Rig Type
Drilling - Triple

Rig Start Date	Rig Release Date
11/9/2010	

1, National Supply, 10-P-130

Pump Number
1

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)
3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

2, National Supply, 10-P-130

Pump Number
2

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)
3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

Job Supply Amounts

Supply Item Des	Unit Label	Received	Consumed	Cum On Loc
Diesel Fuel	gal us	6,958		6,958

Mud Additive Amounts

Des	Consumed	Cum Cons
Bentone 910	6	409
BULK TANK	2	140
BULK TANK BLOWERS	2	118
Lime	24	722
MUD ENGINEER	1	70
MUD LAB	1	62
New Bar (Ton/bulk)	3	198
Oil Dry	8	23
OptiDrill OBM (1 bbl/bulk)	30	3,751

Safety Summary

BOP Test Date	Last BOP Test	BOP Func Due	HSE Incident	HSE Inc Remark
04/Dec/2010	06/Nov/2010	Next Trip		

11/21/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 11/21/2010
REPORT: 87
DOL: 85.55
DFS: 59.60

Rig Name: NABORS DRILLING 169

Depth Progress: 123.00

Daily Summary

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
1	Bit Sub w/Float	8		4.50	4.50

Drilling Parameters

7,125.0 - 7,248.0 ftKB

Start (ftKB)	End Depth...	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note
7,125.0	7,248.0	5.6	52	70		558	1,970.0	

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100...	SO Str Wt (100...	Drill Str Wt (100...	Torque Units	Drilling Torque	Off Btm Tq
21.85	0.50	219	219	169		2,900.0	

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/...	Max Open Hole AV (ft...

Casing Strings

Prop Run?	Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
No	Conductor	105.0	105.0	30	ERW	118.00		
No	Surface	4,345.0	4,344.6	13 3/8	K-55	68.00		

Plug Back Total Depths

Date	Depth (ftKB)	Type	Method

Deviation Surveys

Tru-Trak, Proposed? No

Date	Description	Job
9/23/2010	Tru-Trak	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
11/15/2010	6,663.00	0.00		6,662.60				
11/16/2010	6,836.00	1.51		6,835.58				
11/17/2010	6,930.00	0.92		6,929.57				
11/17/2010	7,021.00	0.47		7,020.57				
11/20/2010	7,142.00	1.90		7,141.56				

Mud Additive Amounts

Des	Consumed	Cum Cons
Opti-Mul	2	51
Opti-Plus	2	41
Opti-Thin	1	2
Strata Vanguard M	30	499
Tax	881	58,030

Formations

Formation Name	Final Top MD (ftKB)
Quaternary	80.0
Tertiary Volcanic	1,300.0
Tertiary Undivided	1,830.0
North Horn	3,810.0
UNCONFORMITY	4,345.0
Arapien	4,345.0
FAULT	
Arapien	
Twin Creek	
Gypsum Sprgs Mbr	
Navajo	
Chinle	
TD	

Safety Summary

11/21/2010

REPORT DATE: 11/24/2010
REPORT: 90
DOL: 88.55
DFS: 62.60

Rig Name: NABORS DRILLING 169
Depth Progress: 0.00

Daily Summary

Property Sub	Field Name	API/UWI	Spud Date
327560-001	WILDCAT	43-023-30021-0000	9/22/2010

KB-Ground Distance (ft)	Original KB Elevation (ft)	KB-Mud Line Distance (ft)
25.00	5,264.00	

Daily Operations

Target Depth (ftKB)	Target Depth (TVD) (ftKB)	End Depth (ftKB)	End Depth (TVD) (ftKB)
9,040.0		7,300.0	

Footage/Meterage (ft)	24 HR ROP (ft/hr)	Drilling Hours (hr)
0.00		

Avg Connection Gas	Avg Trip Gas	Avg Background Gas	Max Connection Gas	Max Trip Gas	Max Drill Gas

Operations at Report Time
Waiting on RFT computer card to be flown in

Operations Summary
Ran VSP, R/D VSP eqpt, R/U RFT eqpt, trouble shoot eqpt, computer card in surface unit panel burned up. Conference call, Halliburton to fly in replacement cards. Wait on Card.

Remarks
Note : Total OBM lost to date (11/23/10) : 3505bbls
Note : OBM lost past 24 hrs: 18 bbls (surface = 0 hole = 3)

Total 9-7/8" csg on location: 242 jts, 10,014.54' (SLM, threads off)
Received 23/Nov: (2) 9-7/8" Guide Shoes
Received 23/Nov: (2) Differential Fill Float Collars

Operations Next Report Period
Logging

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com	Start Depth (ftKB)	End Depth (ftKB)
06:00	15:30	9.50	LOG	PP	Ran VSP, as per Geologist	7,300.0	7,300.0
15:30	23:00	7.50	LOG	PP	MI/RU, RFT eqpt, trouble shoot electronic panel in RFT unit, computer card burned up. Conference call, decision was made to wait for replacement cards to be flown in. R/D RFT eqpt	7,300.0	7,300.0
23:00	06:00	7.00	U_WT	PN	Wait on computer cards to to be flown in.	7,300.0	

Mud Properties

Daily Cost: 4,493.73 Cost Cum Cost: 1,166,701.14 Cost

Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	T Flowline (°F)
03:30	Oil Base	7,300.0	9.00	57	132.0

PV (cp)	YP (lbf/100ft²)	Filtrate (mL/30min)	HTHP Filtrate (mL/30…	HTHP Pressure (psi)	HTHP Temperature (°F)
12.0	18.000		3.0		250.0

Solids (%)	Sand (%)	MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)
9.0					

Chlorides (ppm)	Calcium (ppm)	Oil Water Ratio	Electric Stab (V)	Lime (lb/bbl)	Low Gravity Solids (%)
		82.4/17.6	848.0	4.7	4.6

Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Comment
14.000	15.000	

Bottom Hole Assembly

BHA Since Insp (hr)	BHA Wt BelowJar (1000lbf)	Hrs on Jars (hr)

BHA #<BHA #?>, <Drill String Name?>

Bit Run	Drill Bit	Bit Type	Make

Nozzles (1/32")	IADC Codes	IADC Bit Dull

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)

Drilling Parameters

<depthstart> - <depthend> ftKB

Start (ftKB)	End Depth…	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100…	SO Str Wt (100…	Drill Str Wt (100…	Torque Units	Drilling Torque	Off Btm Tq

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/…	Max Open Hole AV (ft…

Casing Strings

Prop Run?	Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
No	Conductor	105.0	105.0	30	ERW	118.00		
No	Surface	4,345.0	4,344.6	13 3/8	K-55	68.00		

Plug Back Total Depths

Date	Depth (ftKB)	Type	Method

Deviation Surveys

Tru-Trak, Proposed? No

Date	Description	Job
9/23/2010	Tru-Trak	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
11/15/2010	6,663.00	0.00		6,662.60				

Total AFE + Sup (Cost)
9,064,000.00

AFE Job Cost Summary

Cost Type	AFE Amt (Cost)
DHC	7,600,000.00
CWC	1,464,000.00

Field Estimate Job Cost Summary

Cost Type	Field Est (Cost)
DHC	8,181,270.78

Daily Summary

Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
99,045.28	8,185,950.18
Daily Mud Field Est (Cost)	**Cum Mud Field Est (Cost)**
4,493.73	1,166,701.14

POL (Personnel on Location)
28.0

Daily Contacts

Job Contact	Title
Dean Baker	Sr. Drlg. Foreman
Derrick Berry	Drlg. Foreman
Mike Reel	Drilling Supt
Eric Burnett	Drilling Engineer

Personnel Log

Company	Count
PIONEER NATURAL RESOURCES	1
PIONEER NATURAL RESOURCES	1
NABORS DRILLING INC	2
NABORS DRILLING INC	12
ZECO	2
SELMA	2
NEWPARK	1
BADLANDZER	2
Halliburton	4
Pioneer	1

Weather

Precipitation Amount (in)	Precipitation Type
Temperature - High (°F)	**Temperature - Low (°F)**

Comment

NABORS DRILLING, 169

Rig Type
Drilling - Triple

Rig Start Date	Rig Release Date
11/9/2010	

1, National Supply, 10-P-130

Pump Number
1

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)
3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

2, National Supply, 10-P-130

Pump Number
2

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)
3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

Job Supply Amounts

Supply Item Des	Unit Label	Received	Consumed	Cum On Loc

Mud Additive Amounts

Des	Consumed	Cum Cons
BULK TANK	2	146
BULK TANK BLOWERS	2	124
MUD ENGINEER	1	73
MUD LAB	1	65
OptiDrill OBM (1 bbl/bulk)	27	3,799
Tax	226	58,543

Safety Summary

BOP Test Date	Last BOP Test	BOP Func Due	HSE Incident	HSE Inc Remark
04/Dec/2010	06/Nov/2010	Next Trip		

REPORT DATE: 11/24/2010
REPORT: 90
DOL: 88.55
DFS: 62.60

Rig Name: NABORS DRILLING 169
Depth Progress: 0.00

Daily Summary

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
11/16/2010	6,836.00	1.51		6,835.58				
11/17/2010	6,930.00	0.92		6,929.57				
11/17/2010	7,021.00	0.47		7,020.57				
11/20/2010	7,142.00	1.90		7,141.56				

Formations

Formation Name	Final Top MD (ftKB)
Quaternary	80.0
Tertiary Volcanic	1,300.0
Tertiary Undivided	1,830.0
North Horn	3,810.0
UNCONFORMITY	4,345.0
Arapien	4,345.0
FAULT	
Arapien	
Twin Creek	
Gypsum Sprgs Mbr	
Navajo	
Chinle	
TD	

Safety Summary

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 11/25/2010
REPORT: 91
DOL: 90
DFS: 64

Rig Name: NABORS DRILLING 169

Depth Progress: 0.00

Daily Summary

Property Sub	Field Name	API/UWI	Spud Date
327560-001	WILDCAT	43-023-30021-0000	9/22/2010

KB-Ground Distance (ft)	Original KB Elevation (ft)	KB-Mud Line Distance (ft)
25.00	5,264.00	

Daily Operations

Target Depth (ftKB)	Target Depth (TVD) (ftKB)	End Depth (ftKB)	End Depth (TVD) (ftKB)
9,040.0		7,300.0	

Footage/Meterage (ft)	24 HR ROP (ft/hr)	Drilling Hours (hr)
0.00		

Avg Connection Gas	Avg Trip Gas	Avg Background Gas	Max Connection Gas	Max Trip Gas	Max Drill Gas

Operations at Report Time
Run RFT tools per Geologist

Operations Summary
Wait on Halib., computer cards, Made conditioning trip, no drag, R/U Halib. wireline truck, PU RFT tools.

Remarks
Last survey :
Safety Meeting Topic: Slips & falls in snow & ice..
Lithology:
Drill pipe on location : Hole- 189 jts / Derrick & Mouse hole - 0 jts / Racks - 204 jts. Total of: 393 jts.
Visually checked reserve pits, choke manifold, flare line and BOP's , ok.
Acc. Manifold : 1,350 psi / Acc : 2,900 psi / Annular : 1,000 psi.
BHA Rotating hours since last inspection: hrs.
Note : Total oil base Mud lost to date : 3,538 bbls.
Note : Total oil base Mud lost last to the hole 24 - hrs. : 26 bbls.

Operations Next Report Period
Logging

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com	Start Depth (ftKB)	End Depth (ftKB)
06:00	08:00	2.00	U_WT	PN	Wait on new Halib. RFT computer cards to be flown in from New Iberia, La. ETA : 02:00 hrs. Nov. 25,. Halib. crew attempting to hot fix on location, while waiting on computer cards to arrive.	7,300.0	7,300.0
08:00	15:30	7.50	TRIP	PP	TIH slowly at 100 fpm, to condition hole, for logging operations. Note : No abnormal drag TIH, filled & broke circ. every 2,000', no mud loss detected TIH. Note : at 14:00 hrs. ,Hailib. tech reported they were able to hot fix computer problem. Decesion wa smade to continue to make conditioning trip, prior RFT logging operations.	7,300.0	7,300.0
15:30	19:30	4.00	CIRC	PP	Circ. @ 7,300', pumps : 80/80, 1,329 psi., Running # 1 pump & stdby. pump, waiting on valve, for # 2 pump.	7,300.0	7,300.0
19:30	20:30	1.00	CIRC	PP	Check flow, well static, slug pipe.	7,300.0	7,300.0
20:30	00:45	4.25	TRIP	PP	TOH, to BHA, monitoring displacement with trip tank, correct displacement recorded, no abnormal drag TOH.	7,300.0	7,300.0
00:45	01:30	0.75	RIGSER	PP	Remove rotating head ,and install trip nipple.	7,300.0	7,300.0
01:30	03:15	1.75	TRIP	PP	TOH with BHA.	7,300.0	7,300.0
03:15	03:45	0.50	SFTY	PP	Held Safety & Operational meeting with Haliburton wire line.	7,300.0	7,300.0
03:45	04:45	1.00	LOG	PP	R/U Haliburton wire line.	7,300.0	7,300.0
04:45	06:00	1.25	LOG	PP	Haliburton wire line TIH with RFT tool. Test Tools	7,300.0	7,300.0

Mud Properties

Daily Cost: 4,354.65 Cost Cum Cost: 1,171,055.79 Cost

Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	T Flowline (°F)
03:30	Oil Base	7,300.0	9.00	59	132.0

PV (cp)	YP (lbf/100ft²)	Filtrate (mL/30min)	HTHP Filtrate (mL/30…	HTHP Pressure (psi)	HTHP Temperature (°F)
12.0	18.000		3.0		250.0

Solids (%)	Sand (%)	MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)
8.0					

Chlorides (ppm)	Calcium (ppm)	Oil Water Ratio	Electric Stab (V)	Lime (lb/bbl)	Low Gravity Solids (%)
		82.4/17.6	861.0	4.8	4.6

Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Comment
14.000	16.000	

Bottom Hole Assembly

BHA Since Insp (hr)	BHA Wt BelowJar (1000lbf)	Hrs on Jars (hr)

BHA #<BHA #?>, <Drill String Name?>

Bit Run	Drill Bit	Bit Type	Make

Nozzles (1/32")	IADC Codes	IADC Bit Dull

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)

Drilling Parameters

<depthstart> - <depthend> ftKB

Start (ftKB)	End Depth…	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100…	SO Str Wt (100…	Drill Str Wt (100…	Torque Units	Drilling Torque	Off Btm Tq

Total AFE + Sup (Cost)
9,064,000.00

AFE Job Cost Summary

Cost Type	AFE Amt (Cost)
DHC	7,600,000.00
CWC	1,464,000.00

Field Estimate Job Cost Summary

Cost Typ	Field Est (Cost)
DHC	8,277,307.58

Daily Summary

Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
96,036.80	8,281,986.98

Daily Mud Field Est (Cost)	Cum Mud Field Est (Cost)
4,354.65	1,171,055.79

POL (Personnel on Location)
29.0

Daily Contacts

Job Contact	Title
Dean Baker	Sr. Drlg. Foreman
Derrick Berry	Drlg. Foreman
Mike Reel	Drilling Supt
Eric Burnett	Drilling Engineer

Personnel Log

Company	Count
PIONEER NATURAL RESOURCES	1
PIONEER NATURAL RESOURCES	1
NABORS DRILLING INC	2
NABORS DRILLING INC	12
ZECO	2
SELMA	2
NEWPARK	1
BADLANDZER	2
Halliburton	4
Pioneer	1
Pioneer	1

Weather

Precipitation Amount (in)	Precipitation Type

Temperature - High (°F)	Temperature - Low (°F)

Comment

NABORS DRILLING, 169

Rig Type
Drilling - Triple

Rig Start Date	Rig Release Date
11/9/2010	

1, National Supply, 10-P-130

Pump Number
1

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)
3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

2, National Supply, 10-P-130

Pump Number
2

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)
3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

Job Supply Amounts

Supply Item Des	Unit Label	Received	Consumed	Cum On Loc

Mud Additive Amounts

Des	Consumed	Cum Cons
BULK TANK	2	148
BULK TANK BLOWERS	2	126
MUD ENGINEER	1	74
MUD LAB	1	66
OptiDrill OBM (1 bbl/bulk)	26	3,825
Tax	218	58,762

Safety Summary

BOP Test Date	Last BOP Test	BOP Func Due	HSE Incident	HSE Inc Remark

11/25/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 11/25/2010
REPORT: 91
DOL: 90
DFS: 64

Rig Name: NABORS DRILLING 169

Depth Progress: 0.00

Daily Summary

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/…	Max Open Hole AV (ft…

Casing Strings

Prop Run?	Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
No	Conductor	105.0	105.0	30	ERW	118.00		
No	Surface	4,345.0	4,344.6	13 3/8	K-55	68.00		

Plug Back Total Depths

Date	Depth (ftKB)	Type	Method

Deviation Surveys

Tru-Trak, Proposed? No

Date	Description	Job
9/23/2010	Tru-Trak	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
11/15/2010	6,663.00	0.00		6,662.60				
11/16/2010	6,836.00	1.51		6,835.58				
11/17/2010	6,930.00	0.92		6,929.57				
11/17/2010	7,021.00	0.47		7,020.57				
11/20/2010	7,142.00	1.90		7,141.56				

Formations

Formation Name	Final Top MD (ftKB)
Quaternary	80.0
Tertiary Volcanic	1,300.0
Tertiary Undivided	1,830.0
North Horn	3,810.0
UNCONFORMITY	4,345.0
Arapien	4,345.0
FAULT	
Arapien	
Twin Creek	
Gypsum Sprgs Mbr	
Navajo	
Chinle	
TD	

Safety Summary

11/25/2010

PIONEER NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Daily Drilling Report

Well Name: South Hills 6-1

Rig Name: NABORS DRILLING 169

Depth Progress: 0.00

REPORT DATE: 11/26/2010
REPORT: 92
DOL: 91
DFS: 65

Daily Summary

Property Sub	Field Name	API/UWI	Spud Date
327560-001	WILDCAT	43-023-30021-0000	9/22/2010

KB-Ground Distance (ft)	Original KB Elevation (ft)	KB-Mud Line Distance (ft)
25.00	5,264.00	

Daily Operations

Target Depth (ftKB)	Target Depth (TVD) (ftKB)	End Depth (ftKB)	End Depth (TVD) (ftKB)
9,040.0		7,300.0	

Footage/Meterage (ft)	24 HR ROP (ft/hr)	Drilling Hours (hr)
0.00		

Avg Connection Gas	Avg Trip Gas	Avg Background Gas	Max Connection Gas	Max Trip Gas	Max Drill Gas

Operations at Report Time
Run RFT tools per Geologist

Operations Summary
Halliburton wireline thaw out pump for RFT tools, Run RFT tools per Geoligist and Engineer.

Remarks
Last survey : 1.92 degrees @ 7300'
Safety Meeting Topic: Slips & falls in snow & ice..
Lithology: 90% dolomite 10% limestone
Drill pipe on location : Hole- 189 jts / Derrick & Mouse hole - 0 jts / Racks - 204 jts. Total of: 393 jts.
Visually checked reserve pits, choke manifold, flare line and BOP's , ok.
Acc. Manifold : 1,350 psi / Acc : 2,900 psi / Annular : 1,000 psi.
BHA Will be inspected (11-26-10)
Note : Total oil base Mud lost to date : 3,533 bbls.
Note : Total oil base Mud lost last to the hole 24 - hrs. : 29 bbls.

Operations Next Report Period
Drilling 12 1/4" Hole

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com	Start Depth (ftKB)	End Depth (ftKB)
06:00	08:00	2.00	LOG	PP	Halliburton wire line defrosting pump, due to freezing temp., lowest recorded (- 17 deg. F.), continued TIh with " RFT". Took pressures per " Kyle", at various depths.	7,300.0	7,300.0
08:00	06:00	22.00			RFT logs per Geoligist and Engineers.	7,300.0	7,300.0

Mud Properties

Daily Cost: 4,713.66 Cost Cum Cost: 1,175,769.45 Cost

Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	T Flowline (°F)
03:30	Oil Base	7,300.0	9.00	59	132.0

PV (cp)	YP (lbf/100ft²)	Filtrate (mL/30min)	HTHP Filtrate (mL/30...	HTHP Pressure (psi)	HTHP Temperature (°F)
12.0	18.000		3.0		250.0

Solids (%)	Sand (%)	MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)
8.0					

Chlorides (ppm)	Calcium (ppm)	Oil Water Ratio	Electric Stab (V)	Lime (lb/bbl)	Low Gravity Solids (%)
		82.6/17.4	844.0	4.8	2.5

Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Comment
14.000	15.000	

Bottom Hole Assembly

BHA Since Insp (hr)	BHA Wt BelowJar (1000lbf)	Hrs on Jars (hr)

BHA #<BHA #?>, <Drill String Name?>

Bit Run	Drill Bit	Bit Type	Make

Nozzles (1/32")	IADC Codes	IADC Bit Dull

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)

Drilling Parameters

<depthstart> - <depthend> ftKB

Start (ftKB)	End Depth...	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100...	SO Str Wt (100...	Drill Str Wt (100...	Torque Units	Drilling Torque	Off Btm Tq

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/...	Max Open Hole AV (ft...

Casing Strings

Prop Run?	Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
No	Conductor	105.0	105.0	30	ERW	118.00		
No	Surface	4,345.0	4,344.6	13 3/8	K-55	68.00		

Plug Back Total Depths

Date	Depth (ftKB)	Type	Method

Deviation Surveys

Tru-Trak, Proposed? No

Date	Description	Job
9/23/2010	Tru-Trak	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
11/15/2010	6,663.00	0.00		6,662.60				
11/16/2010	6,836.00	1.51		6,835.58				

Total AFE + Sup (Cost): 9,064,000.00

AFE Job Cost Summary

Cost Type	AFE Amt (Cost)
DHC	7,600,000.00
CWC	1,464,000.00

Field Estimate Job Cost Summary

Cost Typ	Field Est (Cost)
DHC	8,373,703.33

Daily Summary

Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
96,395.75	8,378,382.73
Daily Mud Field Est (Cost)	**Cum Mud Field Est (Cost)**
4,713.66	1,175,769.45

POL (Personnel on Location): 29.0

Daily Contacts

Job Contact	Title
Noah Dupuis	Drlg. Foreman
Derrick Berry	Drlg. Foreman
Mike Reel	Drilling Supt
Eric Burnett	Drilling Engineer

Personnel Log

Company	Count
PIONEER NATURAL RESOURCES	1
PIONEER NATURAL RESOURCES	1
NABORS DRILLING INC	2
NABORS DRILLING INC	12
ZECO	2
SELMA	2
NEWPARK	1
BADLANDZER	2
Halliburton	4
Pioneer	1
Pioneer	1

Weather

Precipitation Amount (in)	Precipitation Type
Temperature - High (°F)	**Temperature - Low (°F)**

Comment

NABORS DRILLING, 169

Rig Type: Drilling - Triple

Rig Start Date	Rig Release Date
11/9/2010	

1, National Supply, 10-P-130

Pump Number: 1

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi): 3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

2, National Supply, 10-P-130

Pump Number: 2

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi): 3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

Job Supply Amounts

Supply Item Des	Unit Label	Received	Consumed	Cum On Loc

Mud Additive Amounts

Des	Consumed	Cum Cons
BULK TANK	2	150
BULK TANK BLOWERS	2	128
MUD ENGINEER	1	75
OptiDrill OBM (1 bbl/bulk)	29	3,854
Tax	239	59,000

Formations

Formation Name	Final Top MD (ftKB)
Quaternary	80.0

Safety Summary

BOP Test Date	Last BOP Test	BOP Func Due	HSE Incident	HSE Inc Remark

11/26/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 11/26/2010
REPORT: 92
DOL: 91
DFS: 65

Rig Name: NABORS DRILLING 169

Depth Progress: 0.00

Daily Summary

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
11/17/2010	6,930.00	0.92		6,929.57				
11/17/2010	7,021.00	0.47		7,020.57				
11/20/2010	7,142.00	1.90		7,141.56				

Formations

Formation Name	Final Top MD (ftKB)
Tertiary Volcanic	1,300.0
Tertiary Undivided	1,830.0
North Horn	3,810.0
UNCONFORMITY	4,345.0
Arapien	4,345.0
FAULT	
Arapien	
Twin Creek	
Gypsum Sprgs Mbr	
Navajo	
Chinle	
TD	

Safety Summary

11/26/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 11/27/2010
REPORT: 93
DOL: 92
DFS: 66

Rig Name: NABORS DRILLING 169

Depth Progress:

Daily Summary

Property Sub	Field Name	API/UWI	Spud Date
327560-001	WILDCAT	43-023-30021-0000	9/22/2010

KB-Ground Distance (ft)	Original KB Elevation (ft)	KB-Mud Line Distance (ft)
25.00	5,264.00	

Daily Operations

Target Depth (ftKB)	Target Depth (TVD) (ftKB)	End Depth (ftKB)	End Depth (TVD) (ftKB)
9,040.0		7,300.0	0.0

Footage/Meterage (ft)	24 HR ROP (ft/hr)	Drilling Hours (hr)

Avg Connection Gas	Avg Trip Gas	Avg Background Gas	Max Connection Gas	Max Trip Gas	Max Drill Gas

Operations at Report Time
TIH w/ BHA Inspecting every connection

Operations Summary
Running RFT logs per Geologist, Rig Service, Cut Drill Line, TIH w/ BHA inspecting all BHA connection going in Hole, Laying down collars that failed inspection, Downtime due to Hydraulic Catwalk not working.

Remarks
Last survey : 1.92 degrees @ 7300'
Safety Meeting Topic: Communication .
Lithology: 90% dolomite 10% limestone
Drill pipe on location : Hole- 189 jts / Derrick & Mouse hole - 0 jts / Racks - 204 jts. Total of: 393 jts.
Visually checked reserve pits, choke manifold, flare line and BOP's , ok.
Acc. Manifold : 1,350 psi / Acc : 2,900 psi / Annular : 1,000 psi.
Total rot. hrs on BHa, since last Insp.: 0
Total rotating hrs. on Jars & Thruster since last replaced : 0
Note : Total oil base Mud lost to date : 3,561 bbls.
Note : Total oil base Mud lost last to the hole 24 - hrs. : 28 bbls.

Operations Next Report Period
Drilling 12 1/4" Hole

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com	Start Depth (ftKB)	End Depth (ftKB)
06:00	13:30	7.50	LOG	PP	Halliburton wire line finished running RFT logs per Geologist and Engineers. Halliburton wire line, TOH with tools, obtained fluid samples, and rigged down . Samples will be taken by Halib. to lab, for final results. Note : Halliburton, also obtained mud & base oil samples from rig, which will also be transported to lab, by Hailb. engineer.	7,300.0	7,300.0
13:30	14:30	1.00	RIGSER	PP	Serviced rig,and top drive. Nabors checked to make sure derrick level, for running casing, block not hanging level,unable to level without jack, will obtain one, prior to next TOH, per tool pusher.	7,300.0	7,300.0
14:30	16:00	1.50	RIGSER	PP	Cut drill line.	7,300.0	7,300.0
16:00	03:45	11.75	BHA	PP	Held Safety & Operational meeting, with Drilco, on BHA inspection, TIH with BHA to HWDP, inspecting all connections, Drilco inspection indicated the following : 1-8" Collar w/ damaged face, 2-6" Collars w/ damaged face.	7,300.0	7,300.0
03:45	06:00	2.25			Shut down due to Hydraulic Catwalk not working. Having to cut and restring cable.	7,300.0	7,300.0

Mud Properties

Daily Cost: 4,691.11 Cost Cum Cost: 1,180,460.56 Cost

Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	T Flowline (°F)
03:30	Oil Base	7,300.0	9.00	58	132.0

PV (cp)	YP (lbf/100ft²)	Filtrate (mL/30min)	HTHP Filtrate (mL/30...	HTHP Pressure (psi)	HTHP Temperature (°F)
12.0	18.000		3.0		250.0

Solids (%)	Sand (%)	MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)
8.0					

Chlorides (ppm)	Calcium (ppm)	Oil Water Ratio	Electric Stab (V)	Lime (lb/bbl)	Low Gravity Solids (%)
		82.6/17.4	828.0	4.8	2.5

Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Comment
14.000	15.000	

Bottom Hole Assembly

BHA Since Insp (hr)	BHA Wt BelowJar (1000lbf)	Hrs on Jars (hr)

BHA #23 , Slick

Bit Run	Drill Bit	Bit Type	Make
	12 1/4in, Q507, TN17679R	PDC	Hughes

Nozzles (1/32")	IADC Codes	IADC Bit Dull
13/13/13/13/13/13/13	M323	-------

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)
0.91		

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)
			7,300.0	

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
183	Drill Pipe	5	4.276	5,782.00	7,140.77
7	HWDP	5	3.000	215.16	1,358.77
1	Jars	6 3/8	2.875	32.57	1,143.61
19	HWDP	5	3.000	583.54	1,111.04
1	X/O	6 3/8	2.813	3.57	527.50
9	6-1/2" DC's	6 1/2	2.875	276.70	523.93
1	X/O	6 1/2	2.813	2.92	247.23
1	Thruster	7 7/8	3.563	30.11	244.31
4	8" DC's	8	2.875	153.83	214.20

Total AFE + Sup (Cost)
9,064,000.00

AFE Job Cost Summary

Cost Type	AFE Amt (Cost)
DHC	7,600,000.00
CWC	1,464,000.00

Field Estimate Job Cost Summary

Cost Typ	Field Est (Cost)
DHC	8,700,160.44

Daily Summary

Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
326,457.11	8,704,839.84

Daily Mud Field Est (Cost)	Cum Mud Field Est (Cost)
4,691.11	1,180,460.56

POL (Personnel on Location)
29.0

Daily Contacts

Job Contact	Title
Noah Dupuis	Drlg. Foreman
Derrick Berry	Drlg. Foreman
Mike Reel	Drilling Supt
Eric Burnett	Drilling Engineer

Personnel Log

Company	Count
PIONEER NATURAL RESOURCES	1
PIONEER NATURAL RESOURCES	1
NABORS DRILLING INC	2
NABORS DRILLING INC	12
ZECO	2
SELMA	2
NEWPARK	1
BADLANDZER	2
Halliburton	4
Pioneer	1
Pioneer	1

Weather

Precipitation Amount (in)	Precipitation Type

Temperature - High (°F)	Temperature - Low (°F)

Comment

NABORS DRILLING, 169

Rig Type
Drilling - Triple

Rig Start Date	Rig Release Date
11/9/2010	

1, National Supply, 10-P-130

Pump Number
1

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)
3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

2, National Supply, 10-P-130

Pump Number
2

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)
3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

Job Supply Amounts

Supply Item Des	Unit Label	Received	Consumed	Cum On Loc

Mud Additive Amounts

Des	Consumed	Cum Cons
BULK TANK	2	152
BULK TANK BLOWERS	2	130
MUD ENGINEER	1	76
MUD LAB	2	68
OptiDrill OBM (1 bbl/bulk)	28	3,882
Tax	237	59,237

Safety Summary

BOP Test Date	Last BOP Test	BOP Func Due	HSE Incident	HSE Inc Remark

11/27/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 11/27/2010
REPORT: 93
DOL: 92
DFS: 66

Rig Name: NABORS DRILLING 169

Depth Progress:

Daily Summary

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
1	12-1/4" Roller Reamer	8	2.750	6.82	60.37
1	8" Drill Collar	8	2.875	30.02	53.55
1	12-1/4"Roller Reamer	8	2.750	8.15	23.53
1	Tele-Drift	8	2.875	8.46	15.38
1	12-1/4" Near Bit Roller Reamer	8	2.750	6.92	6.92

Drilling Parameters

7,300.0 - <depthend> ftKB

Start (ftKB)	End Depth...	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note
7,300.0								

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100…	SO Str Wt (100…	Drill Str Wt (100…	Torque Units	Drilling Torque	Off Btm Tq

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/…	Max Open Hole AV (ft…

Casing Strings

Prop Run?	Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
No	Conductor	105.0	105.0	30	ERW	118.00		
No	Surface	4,345.0	4,344.6	13 3/8	K-55	68.00		

Plug Back Total Depths

Date	Depth (ftKB)	Type	Method

Deviation Surveys

Tru-Trak, Proposed? No

Date	Description	Job
9/23/2010	Tru-Trak	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
11/15/2010	6,663.00	0.00		6,662.60				
11/16/2010	6,836.00	1.51		6,835.58				
11/17/2010	6,930.00	0.92		6,929.57				
11/17/2010	7,021.00	0.47		7,020.57				
11/20/2010	7,142.00	1.90		7,141.56				

Formations

Formation Name	Final Top MD (ftKB)
Quaternary	80.0
Tertiary Volcanic	1,300.0
Tertiary Undivided	1,830.0
North Horn	3,810.0
UNCONFORMITY	4,345.0
Arapien	4,345.0
FAULT	
Arapien	
Twin Creek	
Gypsum Sprgs Mbr	
Navajo	
Chinle	
TD	

Safety Summary

11/27/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 11/28/2010
REPORT: 94
DOL: 93
DFS: 67

Rig Name: NABORS DRILLING 169

Depth Progress: 17.00

Daily Summary

Property Sub	Field Name	API/UWI	Spud Date
327560-001	WILDCAT	43-023-30021-0000	9/22/2010

KB-Ground Distance (ft)	Original KB Elevation (ft)	KB-Mud Line Distance (ft)
25.00	5,264.00	

Daily Operations

Target Depth (ftKB)	Target Depth (TVD) (ftKB)	End Depth (ftKB)	End Depth (TVD) (ftKB)
9,040.0		7,317.0	

Footage/Meterage (ft)	24 HR ROP (ft/hr)	Drilling Hours (hr)
17.00	11.3	1.50

Avg Connection Gas	Avg Trip Gas	Avg Background Gas	Max Connection Gas	Max Trip Gas	Max Drill Gas
18.00		14.00	20.00		

Operations at Report Time
Drlg 12 1/4 Hole

Operations Summary
Finish TIH w/ BHA inspecting all connections, Test teledrift, P/U 30jnts of DP (singles), TIH broke circulation @ 3500', TIH from 3500' to 6075', remove trip nipple and install new rotating head, TIH from 6075' to 6300', Circulate hole, TIH to botm @ 7300', washed last 2 stands down, No hole problems-No Fill. Drill from 7300' to 7317'.

Remarks
Last survey : 1.92 degrees @ 7300'
Safety Meeting Topic: BOP drills
Lithology: 90% dolomite 10% limestone
Drill pipe on location : Hole : 199 jts / Derrick & Mouse hole : 18 jts / Racks : 176 jts./ Total of : 393 jts.
Visually checked reserve pits, choke manifold, flare line and BOP's , ok.
Acc. Manifold : 1,350 psi / Acc : 2,900 psi / Annular : 1,000 psi.
Total rotating hours on BHA, since last Insp.: 1.5
Total rotating hours on Jars & Thruster since last replaced : 1.5
Note : Total oil base Mud lost to date : 3, 561 bbls.
Note : Total oil base Mud lost last to the hole 24 - hrs. : 0 bbls.
Note : Sent 9jnst of HWDP, 2- 8"DC's, and 2- 6 1/2" DC's to Drilco to be repaired.
Note : Recieved 39jnst of HWDP from Nabors yard, to be inspected on location (11-28-10)

Operations Next Report Period
Drilling 12 1/4" Hole

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com	Start Depth (ftKB)	End Depth (ftKB)
06:00	14:00	8.00	BHA	PP	Finish TIH with BHA , inspecting all connections, with 'Drilco inspection', inspector indicated the following defects : 1-8" Collar w/ damaged face, 2 - 6" Collars w/ damaged shoulders, 9 - HWDP w/ damaged face & shoulders, (1- HWDP on the verge of creating a wash - out) . All will be sent to " Drilco" for repairs . Note : Drilling jar & thruster were also replaced due to + 200 hours of rotating time	7,300.0	7,300.0
14:00	15:30	1.50	DPIPE	PP	Function tested " Teledrift tool " tested ok. Load out jars, and load rack with drill pipe.	7,300.0	7,300.0
15:30	16:00	0.50	RIGSER	PP	Rig Service,and trouble shoot high clutch, determined, the spear was the problem. Tool pusher checked with office, no mechanic available until Monday. Will continue operations utilizing low clutch.	7,300.0	7,300.0
16:00	18:00	2.00	TRIP	PP	TIH picking up 30 - joints of drill pipe, drifting same, picking up drill pipe to have in derrick ,for drilling ahead.	7,300.0	7,300.0
18:00	21:30	3.50	TRIP	PP	Continue TIH, monitoring displacement to trip tank displacement to trip tank, correct displacement recorded, broke circ. @ 3,500' .	7,300.0	7,300.0
21:30	00:00	2.50	TRIP	PP	Continue TIH, from 3500' to 6075' monitoring displacement to trip tank displacement to trip tank, correct displacement recorded .	7,300.0	7,300.0
00:00	01:00	1.00	RIGSER	PP	Remove trip nipple, and install new rotating head insert & bearing package,@ 6075'.		
01:00	03:45	2.75	TRIP	PP	Finish TIH from 6075", to 7065', wash from 7165', to 7,300', for Safety, allow bit to wash bottom. Pumps @ 30X30, 375psi.	7,300.0	7,300.0
03:45	06:00	2.25	ROTDRLG	PP	Allow pdc bit to pattern at 7,300', gradually adding weight, and changing drilling parameters to achive maxium "ROP", rotate drilled from 7,300', to 7317', (drilled : 17 ', @ 11 ft/hr. avg.) pumps : 90X90, wt. bit : 15 K, Top drive rpm's : 75. B/U trip gas : 22 units, low mud cut : 9.0 ppg.	7,300.0	7,300.0

Mud Properties

Daily Cost: 2,567.18 Cost Cum Cost: 1,183,027.74 Cost

Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	T Flowline (°F)
03:30	Oil Base	7,300.0	9.00	60	132.0

PV (cp)	YP (lbf/100ft²)	Filtrate (mL/30min)	HTHP Filtrate (mL/30...	HTHP Pressure (psi)	HTHP Temperature (°F)
12.0	18.000		3.0		250.0

Solids (%)	Sand (%)	MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)
8.0					

Chlorides (ppm)	Calcium (ppm)	Oil Water Ratio	Electric Stab (V)	Lime (lb/bbl)	Low Gravity Solids (%)
		82.6/17.4	825.0	4.8	2.5

Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Comment
14.000	16.000	

Bottom Hole Assembly

BHA Since Insp (hr)	BHA Wt BelowJar (1000lbf)	Hrs on Jars (hr)

Total AFE + Sup (Cost)
9,064,000.00

AFE Job Cost Summary

Cost Type	AFE Amt (Cost)
DHC	7,600,000.00
CWC	1,464,000.00

Field Estimate Job Cost Summary

Cost Typ	Field Est (Cost)
DHC	8,749,671.62

Daily Summary

Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
51,206.18	8,756,046.02
Daily Mud Field Est (Cost)	**Cum Mud Field Est (Cost)**
2,567.18	1,183,027.74

POL (Personnel on Location)
29.0

Daily Contacts

Job Contact	Title
Noah Dupuis	Drlg. Foreman
Derrick Berry	Drlg. Foreman
Mike Reel	Drilling Supt
Eric Burnett	Drilling Engineer

Personnel Log

Company	Count
PIONEER NATURAL RESOURCES	1
PIONEER NATURAL RESOURCES	1
NABORS DRILLING INC	2
NABORS DRILLING INC	12
ZECO	2
SELMA	2
NEWPARK	1
BADLANDZER	2
Halliburton	4
Pioneer	1
Pioneer	1

Weather

Precipitation Amount (in)	Precipitation Type
Temperature - High (°F)	**Temperature - Low (°F)**

Comment

NABORS DRILLING, 169

Rig Type
Drilling - Triple

Rig Start Date	Rig Release Date
11/9/2010	

1, National Supply, 10-P-130

Pump Number
1

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)
3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

2, National Supply, 10-P-130

Pump Number
2

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)
3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

Job Supply Amounts

Supply Item Des	Unit Label	Received	Consumed	Cum On Loc

Mud Additive Amounts

Des	Consumed	Cum Cons
BULK TANK	2	154
BULK TANK BLOWERS	2	132
MUD ENGINEER	1	77
MUD LAB	1	69
Pallets	10	139
Shrink Wrap	4	75
Tax	27	59,265
Trucking	1,587	99,789

Safety Summary

BOP Test Date	Last BOP Test	BOP Func Due	HSE Incident	HSE Inc Remark
04/Dec/2010	06/Nov/2010	Next Trip		

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 11/28/2010
REPORT: 94
DOL: 93
DFS: 67

Rig Name: NABORS DRILLING 169

Depth Progress: 17.00

Daily Summary

BHA #23 , Slick

Bit Run	Drill Bit	Bit Type	Make
	12 1/4in, Q507, TN17679R	PDC	Hughes

Nozzles (1/32")	IADC Codes	IADC Bit Dull
13/13/13/13/13/13/13	M323	-------

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)
0.91	1.50	17.00

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)
1.50	17.00	11.3	7,300.0	7,317.0

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
183	Drill Pipe	5	4.276	5,782.00	7,140.77
7	HWDP	5	3.000	215.16	1,358.77
1	Jars	6 3/8	2.875	32.57	1,143.61
19	HWDP	5	3.000	583.54	1,111.04
1	X/O	6 3/8	2.813	3.57	527.50
9	6-1/2" DC's	6 1/2	2.875	276.70	523.93
1	X/O	6 1/2	2.813	2.92	247.23
1	Thruster	7 7/8	3.563	30.11	244.31
4	8" DC's	8	2.875	153.83	214.20
1	12-1/4" Roller Reamer	8	2.750	6.82	60.37
1	8" Drill Collar	8	2.875	30.02	53.55
1	12-1/4"Roller Reamer	8	2.750	8.15	23.53
1	Tele-Drift	8	2.875	8.46	15.38
1	12-1/4" Near Bit Roller Reamer	8	2.750	6.92	6.92

Drilling Parameters

7,300.0 - 7,317.0 ftKB

Start (ftKB)	End Depth...	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note
7,300.0	7,317.0	11.3	15	75		628	2,350.0	

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100...	SO Str Wt (100...	Drill Str Wt (100...	Torque Units	Drilling Torque	Off Btm Tq
1.50	2.00	212	212	196		4,500.0	

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/...	Max Open Hole AV (ft...

Casing Strings

Prop Run?	Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
No	Conductor	105.0	105.0	30	ERW	118.00		
No	Surface	4,345.0	4,344.6	13 3/8	K-55	68.00		

Plug Back Total Depths

Date	Depth (ftKB)	Type	Method

Deviation Surveys

Tru-Trak, Proposed? No

Date	Description	Job
9/23/2010	Tru-Trak	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
11/15/2010	6,663.00	0.00		6,662.60				
11/16/2010	6,836.00	1.51		6,835.58				
11/17/2010	6,930.00	0.92		6,929.57				
11/17/2010	7,021.00	0.47		7,020.57				
11/20/2010	7,142.00	1.90		7,141.56				

Formations

Formation Name	Final Top MD (ftKB)
Quaternary	80.0
Tertiary Volcanic	1,300.0
Tertiary Undivided	1,830.0
North Horn	3,810.0
UNCONFORMITY	4,345.0
Arapien	4,345.0
FAULT	
Arapien	
Twin Creek	
Gypsum Sprgs Mbr	
Navajo	
Chinle	
TD	

Safety Summary

11/28/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 11/29/2010
REPORT: 95
DOL: 94
DFS: 68

Rig Name: NABORS DRILLING 169

Depth Progress: 237.00

Daily Summary

Property Sub	Field Name	API/UWI	Spud Date
327560-001	WILDCAT	43-023-30021-0000	9/22/2010

KB-Ground Distance (ft)	Original KB Elevation (ft)	KB-Mud Line Distance (ft)
25.00	5,264.00	

Daily Operations

Target Depth (ftKB)	Target Depth (TVD) (ftKB)	End Depth (ftKB)	End Depth (TVD) (ftKB)
9,040.0		7,554.0	7,553.5

Footage/Meterage (ft)	24 HR ROP (ft/hr)	Drilling Hours (hr)
237.00	16.9	14.00

Avg Connection Gas	Avg Trip Gas	Avg Background Gas	Max Connection Gas	Max Trip Gas	Max Drill Gas
12.00		12.00	20.00		

Operations at Report Time
TOOH

Operations Summary
Rotate Drill from 7317' to 7554', taking wireline surveys (sure shot), 5.13 degrees deviation @ 7554', (decision was made to TOOH for directional tools), TOOH to 2800' (bit depth @ report time)

Remarks
Last survey : 5.13 degrees @ 7554'
Safety Meeting Topic: BOP drills
Lithology: @ 7540' 75% dolomite 20% Shale. 5% Limestone
Drill pipe on location : Hole : 199 jts / Derrick & Mouse hole : 18 jts / Racks : 176 jts./ Total of : 393 jts.
Visually checked reserve pits, choke manifold, flare line and BOP's , ok.
Acc. Manifold : 1,350 psi / Acc : 2,900 psi / Annular : 1,000 psi.
Total rotating hours on BHA, since last Insp.: 15.5 hrs
Total rotating hours on Jars & Thruster since last replaced : 15.5 hrs
Available wt. below jars : 61,000 lbs.
Note : Total oil base Mud lost to date : 3, 540 bbls. (Correction)
Note : Total oil base Mud lost last to the hole 24 - hrs. : 16 bbls.
Note : Sent 9- jnts. of HWDP, 2- 8"DC's, and 2- 6 1/2" DC's to Drilco to be repaired. (11-28-10)
Note : Recieved 39- jnts. of HWDP from Nabors yard, to be inspected on location (11-28-10)
Note : B&C on location to pressure test BOP's. Notified Randy Knight with BLM 05:00hrs (11-29-10)

Operations Next Report Period
Pressure Test BOP's, Make up Directional BHA, TIH

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com	Start Depth (ftKB)	End Depth (ftKB)
06:00	13:00	7.00	ROTD RLG	PP	Rotate drilled from 7,317', to 7,442', (drilled : 125 ', @ 17.9 ft/hr. avg.) pumps : 90 X 90 = 628 gpm, PP: 2,337 psi,, wt. bit : 15 K, Top drive rpm's : 99, top drive torque : 3,000 - 9,000 ft/lbs.. Note : Formation per mud logger @ 7,420' : 85 % Dolomite & 15 % Limestone. (gas : 15 units) .	7,317.0	7,442.0
13:00	14:30	1.50	DEVS UR	PP	Obtained slow pump rates @ 7,434'. Deviation survey with "Teledrift", = 2.5 degrees, a secondary survey taken by " Sure Shot" on wire line @ 7,441' = 3.44 degrees of inclination, and 185 degrees BHT, made connection, to resume drilling . Note : Bit wt. will be reduced & rpm's will be increased to attempt to maintain angle .	7,442.0	7,442.0
14:30	17:00	2.50	ROTD RLG	PP	Rotate drilled from 7,442', to 7,464', (drilled : 22 ', @ 10 ft/hr. avg.) pumps : 90 X 90 = 628 gpm, PP: 2,337 psi,, Wt. bit : 10 K, Top drive rpm's : 120, top drive torque : 3,000 - 9,000 ft/lbs.. Note : Formation per mud logger @ 7,440' : 85 % Dolmatic Shale, 5 % Dolomite & 10 % Limestone. (gas : 5 units) . Note : Reduced bit wt. , and increased top drive rpm's, in attempt to control deviation. Note : Driller made a - 15' correction, on depth, due to "Rig Watch", not properly tracking.	7,442.0	7,464.0
17:00	17:30	0.50	DEVS UR	PP	Deviation survey with " Sure Shot" on wire line @ 7,464', = 3.56 degrees of inclination, and 191.7 degrees BHT . Note : Inclination increased : .11 degrees last 30' .	7,464.0	7,464.0
17:30	20:30	3.00	ROTD RLG	PP	Rotate drilled from 7,464', to 7,518', (drilled : 57 ', @ 20 ft/hr. avg.) pumps : 90 X 90 = 628 gpm, PP: 2,337 psi,, Wt. bit : 13 K, Top drive rpm's : 120, top drive torque : 3,000 - 9,000 ft/lbs.. Note : Formation per mud logger @ 7,500' : 75 % Dolmite, 20% Shale & 5 % Limestone.	7,464.0	7,518.0
20:30	21:30	1.00	DEVS UR	PP	Deviation survey with " Sure Shot" on wire line @ 7,518', = 4.53 degrees of inclination, and 197.5 degrees BHT . Note : Inclination increased : .97 degrees last 54' .	7,518.0	7,518.0
21:30	00:00	2.50	ROTD RLG	PP	Rotate drilled from 7,518', to 7,554', (drilled : 36 ', @ 15 ft/hr. avg.) pumps : 90 X 90 = 628 gpm, PP: 2,337 psi,, Wt. bit : 13 K, Top drive rpm's : 120, top drive torque : 3,000 - 9,000 ft/lbs.. Note : Formation per mud logger @ 7,540' : 75 % Dolmite, 20% Shale & 5 % Limestone.	7,518.0	7,554.0

Total AFE + Sup (Cost)
9,064,000.00

AFE Job Cost Summary

Cost Type	AFE Amt (Cost)
DHC	7,600,000.00
CWC	1,464,000.00

Field Estimate Job Cost Summary

Cost Typ	Field Est (Cost)
DHC	8,823,354.53

Daily Summary

Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
49,453.18	8,848,533.66
Daily Mud Field Est (Cost)	**Cum Mud Field Est (Cost)**
6,967.78	1,189,995.52

POL (Personnel on Location)
29.0

Daily Contacts

Job Contact	Title
Noah Dupuis	Drlg. Foreman
Derrick Berry	Drlg. Foreman
Mike Reel	Drilling Supt
Eric Burnett	Drilling Engineer

Personnel Log

Company	Count
PIONEER NATURAL RESOURCES	1
PIONEER NATURAL RESOURCES	1
NABORS DRILLING INC	2
NABORS DRILLING INC	12
ZECO	2
SELMA	2
NEWPARK	1
BADLANDZER	2
Halliburton	4
Pioneer	1
Pioneer	1

Weather

Precipitation Amount (in)	Precipitation Type
Temperature - High (°F)	Temperature - Low (°F)

Comment

NABORS DRILLING, 169

Rig Type
Drilling - Triple

Rig Start Date	Rig Release Date
11/9/2010	

1, National Supply, 10-P-130

Pump Number
1

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)
3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

2, National Supply, 10-P-130

Pump Number
2

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)
3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

Job Supply Amounts

Supply Item Des	Unit Label	Received	Consumed	Cum On Loc
Diesel Fuel	gal us	7,200	2,850	4,350

Mud Additive Amounts

Des	Consumed	Cum Cons
BULK TANK	2	156
BULK TANK BLOWERS	2	134
GSX-509	3	55
Lime	12	770
MUD ENGINEER	1	78
MUD LAB	1	70
New Bar (Ton/bulk)	3	206

Safety Summary

BOP Test Date	Last BOP Test	BOP Func Due	HSE Incident	HSE Inc Remark
04/Dec/2010	06/Nov/2010	06/Nov/2010		

11/29/2010

PIONEER NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 11/29/2010
REPORT: 95
DOL: 94
DFS: 68

Rig Name: NABORS DRILLING 169

Depth Progress: 237.00

Daily Summary

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com	Start Depth (ftKB)	End Depth (ftKB)
00:00	01:00	1.00	DEVS UR	PP	Deviation survey with " Sure Shot" on wire line @ 7,554', = 5.13 degrees of inclination, and 197 degrees BHT . Note : Inclination increased : .6 degrees last 36' .	7,554.0	7,554.0
01:00	02:30	1.50	CIRC	PP	Decision was made to TOOH due to deviation, Circ. btms up.	7,554.0	7,554.0
02:30	05:00	2.50	TRIP	PP	TOOH w/ DP from 7554' to 4021'.	7,554.0	7,554.0
05:00	05:30	0.50	RIGSER	PP	Remove rotating head, install Trip nipple.	7,554.0	7,554.0
05:30	06:00	0.50	TRIP	PP	Continue TOOH from 4021' to 2800' (bit depth @ report time).	7,554.0	7,554.0
06:00	06:00					7,554.0	

Mud Properties

Daily Cost: 6,967.78 Cost Cum Cost: 1,189,995.52 Cost

Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	T Flowline (°F)
03:30	Oil Base	7,554.0	9.00	57	126.0

PV (cp)	YP (lbf/100ft²)	Filtrate (mL/30min)	HTHP Filtrate (mL/30…	HTHP Pressure (psi)	HTHP Temperature (°F)
13.0	16.000		3.0		250.0

Solids (%)	Sand (%)	MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)
8.0					

Chlorides (ppm)	Calcium (ppm)	Oil Water Ratio	Electric Stab (V)	Lime (lb/bbl)	Low Gravity Solids (%)
		82.6/17.4	901.0	4.8	2.5

Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Comment
14.000	15.000	

Bottom Hole Assembly

BHA Since Insp (hr)	BHA Wt BelowJar (1000lbf)	Hrs on Jars (hr)
	61,000	15.500

BHA #23 , Slick

Bit Run	Drill Bit	Bit Type	Make
	12 1/4in, Q507, TN17679R	PDC	Hughes

Nozzles (1/32")	IADC Codes	IADC Bit Dull
13/13/13/13/13/13/13	M323	-------

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)
0.91	15.50	254.00

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)
15.50	254.00	16.4	7,300.0	7,554.0

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
183	Drill Pipe	5	4.276	5,782.00	7,140.77
7	HWDP	5	3.000	215.16	1,358.77
1	Jars	6 3/8	2.875	32.57	1,143.61
19	HWDP	5	3.000	583.54	1,111.04
1	X/O	6 3/8	2.813	3.57	527.50
9	6-1/2" DC's	6 1/2	2.875	276.70	523.93
1	X/O	6 1/2	2.813	2.92	247.23
1	Thruster	7 7/8	3.563	30.11	244.31
4	8" DC's	8	2.875	153.83	214.20
1	12-1/4" Roller Reamer	8	2.750	6.82	60.37
1	8" Drill Collar	8	2.875	30.02	53.55
1	12-1/4"Roller Reamer	8	2.750	8.15	23.53
1	Tele-Drift	8	2.875	8.46	15.38
1	12-1/4" Near Bit Roller Reamer	8	2.750	6.92	6.92

Drilling Parameters

7,317.0 - 7,554.0 ftKB

Start (ftKB)	End Depth…	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note
7,317.0	7,554.0	16.9	13	120		628	2,600.0	

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100…	SO Str Wt (100…	Drill Str Wt (100…	Torque Units	Drilling Torque	Off Btm Tq
14.00	1.50	220	220	205		4,500.0	

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/…	Max Open Hole AV (ft…
147.3	1.2	222.1	402.0	54.7	63.5

Casing Strings

Prop Run?	Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
No	Conductor	105.0	105.0	30	ERW	118.00		
No	Surface	4,345.0	4,344.6	13 3/8	K-55	68.00		

Plug Back Total Depths

Date	Depth (ftKB)	Type	Method

Deviation Surveys

Tru-Trak, Proposed? No

Date	Description	Job
9/23/2010	Tru-Trak	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
11/20/2010	7,142.00	1.90		7,141.56				
11/20/2010	7,441.00	3.44		7,440.53				
11/20/2010	7,464.00	3.56		7,463.53				

Mud Additive Amounts

Des	Consumed	Cum Cons
OptiDrill OBM (1 bbl/bulk)	16	3,898
Opti-Mul	3	55
Opti-Plus	1	42
Opti-Thin	1	3
Tax	367	59,631

Formations

Formation Name	Final Top MD (ftKB)
Quaternary	80.0
Tertiary Volcanic	1,300.0
Tertiary Undivided	1,830.0
North Horn	3,810.0
UNCONFORMITY	4,345.0
Arapien	4,345.0
FAULT	
Arapien	
Twin Creek	
Gypsum Sprgs Mbr	
Navajo	
Chinle	
TD	

Safety Summary

11/29/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Daily Drilling Report

Well Name: South Hills 6-1

Rig Name: NABORS DRILLING 169

Depth Progress: 237.00

REPORT DATE: 11/29/2010
REPORT: 95
DOL: 94
DFS: 68

Daily Summary

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
11/20/2010	7,518.00	4.53		7,517.52				
11/20/2010	7,554.00	5.13		7,553.52				

Safety Summary

11/29/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 11/30/2010
REPORT: 96
DOL: 95
DFS: 69

Rig Name: NABORS DRILLING 169

Depth Progress: 0.00

Daily Summary

Property Sub	Field Name	API/UWI	Spud Date
327560-001	WILDCAT	43-023-30021-0000	9/22/2010

KB-Ground Distance (ft)	Original KB Elevation (ft)	KB-Mud Line Distance (ft)
25.00	5,264.00	

Daily Operations

Target Depth (ftKB)	Target Depth (TVD) (ftKB)	End Depth (ftKB)	End Depth (TVD) (ftKB)
9,040.0		7,554.0	7,553.5

Footage/Meterage (ft)	24 HR ROP (ft/hr)	Drilling Hours (hr)
0.00		

Avg Connection Gas	Avg Trip Gas	Avg Background Gas	Max Connection Gas	Max Trip Gas	Max Drill Gas
11.00		11.00	12.00		

Operations at Report Time
P/U BHA

Operations Summary
Finished TOOH, Test BOPs per BLM specs (all tested positive, Waiting on Baker Hughes subs, Arrived on location @ 04:30 hrs. Simops: Mechanic working on High clutch on draworks (ordered parts). Replaced 2 seats in Pump #1 and 1 seat in pump #2. Strap and P/U BHA.

Remarks
Note : 15:49 hrs.: Requested Nabor's inspect mud pumps, valves, swabs, etc., while waiting on Baker Filter subs. Replaced 2 seats in # 1pump and 1 seat in #2 pump. Baker Hughes tools arrived to location @ 04:30hrs
Last survey : " Sure Shot " survey : 5.13 degrees @ 7554' .
Safety Meeting Topic: BOP drills .
Lithology: @ 7540' 75% dolomite 20% Shale. 5% Limestone .
Drill pipe on location : Hole : 0 jts / Derrick & Mouse hole : 217 jts / Racks : 176 jts./ Total of : 393 jts.
Visually checked reserve pits, choke manifold, flare line and BOP's , ok.
Acc. Manifold : 1,350 psi / Acc : 2,900 psi / Annular : 1,000 psi.
Total rotating hours on BHA, since last Insp.: 15.5 hrs.
Total rotating hours on Jars & Thruster since last replaced : 15.5 hrs
Note : Total oil base Mud lost to date : 3, 560 bbls.
Note : Total oil base Mud lost last to the hole 24 - hrs. : 20 bbls.
Note : Sent 9- jnts. of HWDP, 2- 8"DC's, and 2- 6 1/2" DC's to Drilco to be repaired. (11-28-10)
Note : Recieved 39- jnts. of HWDP from Nabors yard, to be inspected on location (11-28-10)
Note : B&C on location to pressure test BOP's. Notified Randy Knight with BLM 05:00hrs (11-29-10)

Operations Next Report Period
TIH, Drill 12 1/4 Hole

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com	Start Depth (ftKB)	End Depth (ftKB)
06:00	07:30	1.50	TRIP	PP	Finish TOH to BHA., monitoring displacement with trip tank, correct displacement recorded. Note : TOH, to test BOP's, and pick up "Baker Tru Trac", due to deviation of 5.13 degrees.	7,554.0	7,554.0
07:30	10:00	2.50	BHA	PP	Finish TOH with BHA, L/D roller reamers & "TeleDrift ".	7,554.0	7,554.0
10:00	10:30	0.50	SFTY	PP	Held Safety & Operational meeting with Nabors & BC BOP testers, on proper testing of BOP's.	7,554.0	7,554.0
10:30	15:00	4.50	BOPS	PP	Retrieve wear bushing & install test plug, test BOP's and related equipement, upper & lower pipe rams, blind rams, choke line, hcr valve) to 250 psi/ low, and 5,000 psi/ high, for 10 minutes per test, per "BLM Spec's. Note : Annular was tested to 250 psi low, and 2,500 psi high, for 10 minutes, tested positive . Note : While TOH, B & C Testers, tested all chokes & choke manifold valves to 250 psi/ low, and 5,000 psi/ high, for 10 minutes each, per " BLM Specs."., All test were positive. Pull test plug, and install wear bushing, lock same in place.	7,554.0	7,554.0
15:00	04:30	13.50	U_WT	PN	Waiting on Baker Tru Trak filter sub, Baker did nots end ,with original order of tools. Tools arrived on location @ 04:30hrs.	7,554.0	7,554.0
04:30	06:00	1.50	BHA	PP	Held Safety & Operational meeting with "Baker" on picking up "Tru Trac" BHA, and pick up same.	7,554.0	7,554.0

Mud Properties

Daily Cost: 4,777.21 Cost Cum Cost: 1,194,772.73 Cost

Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	T Flowline (°F)
03:30	Oil Base	7,554.0	9.00	59	

PV (cp)	YP (lbf/100ft²)	Filtrate (mL/30min)	HTHP Filtrate (mL/30...	HTHP Pressure (psi)	HTHP Temperature (°F)
12.0	18.000		3.0		250.0

Solids (%)	Sand (%)	MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)
8.0					

Chlorides (ppm)	Calcium (ppm)	Oil Water Ratio	Electric Stab (V)	Lime (lb/bbl)	Low Gravity Solids (%)
		83.5/16.5	924.0	4.8	4.5

Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Comment
14.000	15.000	

Bottom Hole Assembly

BHA Since Insp (hr)	BHA Wt BelowJar (1000lbf)	Hrs on Jars (hr)

BHA #<BHA #?>, <Drill String Name?>

Bit Run	Drill Bit	Bit Type	Make

Nozzles (1/32")	IADC Codes	IADC Bit Dull

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)

Total AFE + Sup (Cost)
9,064,000.00

AFE Job Cost Summary

Cost Type	AFE Amt (Cost)
DHC	7,600,000.00
CWC	1,464,000.00

Field Estimate Job Cost Summary

Cost Typ	Field Est (Cost)
DHC	8,916,457.34

Daily Summary

Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
93,102.81	8,941,636.47

Daily Mud Field Est (Cost)	Cum Mud Field Est (Cost)
4,777.21	1,194,772.73

POL (Personnel on Location)
29.0

Daily Contacts

Job Contact	Title
Noah Dupuis	Drlg. Foreman
Derrick Berry	Drlg. Foreman
Mike Reel	Drilling Supt
Eric Burnett	Drilling Engineer

Personnel Log

Company	Count
PIONEER NATURAL RESOURCES	1
PIONEER NATURAL RESOURCES	1
NABORS DRILLING INC	2
NABORS DRILLING INC	12
ZECO	2
SELMA	2
NEWPARK	1
BADLANDZER	2
Halliburton	4
Pioneer	1
Pioneer	1

Weather

Precipitation Amount (in)	Precipitation Type

Temperature - High (°F)	Temperature - Low (°F)

Comment

NABORS DRILLING, 169

Rig Type
Drilling - Triple

Rig Start Date	Rig Release Date
11/9/2010	

1, National Supply, 10-P-130

Pump Number
1

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)
3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

2, National Supply, 10-P-130

Pump Number
2

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)
3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

Job Supply Amounts

Supply Item Des	Unit Label	Received	Consumed	Cum On Loc
Diesel Fuel	gal us	3,800	1,500	6,650

Mud Additive Amounts

Des	Consumed	Cum Cons
BULK TANK	2	158
BULK TANK BLOWERS	2	136
GSX-509	2	57
Lime	8	778
MUD ENGINEER	1	79
MUD LAB	1	71
New Bar (Ton/bulk)	3	208

Safety Summary

BOP Test Date	Last BOP Test	BOP Func Due	HSE Incident	HSE Inc Remark
29/Dec/2010	29/Nov/2010	6/Dec/2010		

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 11/30/2010
REPORT: 96
DOL: 95
DFS: 69

Rig Name: NABORS DRILLING 169

Depth Progress: 0.00

Daily Summary

Drilling Parameters

<depthstart> - <depthend> ftKB

Start (ftKB)	End Depth…	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100…	SO Str Wt (100…	Drill Str Wt (100…	Torque Units	Drilling Torque	Off Btm Tq

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/…	Max Open Hole AV (ft…

Casing Strings

Prop Run?	Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
No	Conductor	105.0	105.0	30	ERW	118.00		
No	Surface	4,345.0	4,344.6	13 3/8	K-55	68.00		

Plug Back Total Depths

Date	Depth (ftKB)	Type	Method

Deviation Surveys

Tru-Trak, Proposed? No

Date	Description	Job
9/23/2010	Tru-Trak	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
11/20/2010	7,142.00	1.90		7,141.56				
11/20/2010	7,441.00	3.44		7,440.53				
11/20/2010	7,464.00	3.56		7,463.53				
11/20/2010	7,518.00	4.53		7,517.52				
11/20/2010	7,554.00	5.13		7,553.52				

Mud Additive Amounts

Des	Consumed	Cum Cons
OptiDrill OBM (1 bbl/bulk)	20	3,918
Opti-Mul	1	56
Tax	242	59,873

Formations

Formation Name	Final Top MD (ftKB)
Quaternary	80.0
Tertiary Volcanic	1,300.0
Tertiary Undivided	1,830.0
North Horn	3,810.0
UNCONFORMITY	4,345.0
Arapien	4,345.0
FAULT	
Arapien	
Twin Creek	
Gypsum Sprgs Mbr	
Navajo	
Chinle	
TD	

Safety Summary

11/30/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 12/1/2010
REPORT: 97
DOL: 96
DFS: 70

Rig Name: NABORS DRILLING 169

Depth Progress: 187.00

Daily Summary

Property Sub	Field Name	API/UWI	Spud Date
327560-001	WILDCAT	43-023-30021-0000	9/22/2010

KB-Ground Distance (ft)	Original KB Elevation (ft)	KB-Mud Line Distance (ft)
25.00	5,264.00	

Daily Operations

Target Depth (ftKB)	Target Depth (TVD) (ftKB)	End Depth (ftKB)	End Depth (TVD) (ftKB)
9,040.0		7,741.0	

Footage/Meterage (ft)	24 HR ROP (ft/hr)	Drilling Hours (hr)
187.00	19.7	9.50

Avg Connection Gas	Avg Trip Gas	Avg Background Gas	Max Connection Gas	Max Trip Gas	Max Drill Gas
4.00	35.00	0.00	11.00	35.00	35.00

Operations at Report Time
Drilling ahead @ 7,741' .

Operations Summary
Picked up Baker Tru Trak system, function test same,and program to drop, 1 - 1.5 degree per 100'.
TIH, repair generator sync problem, and resume drilling 12.25" intermediate hole, monitoring all drilling parameters.
Drilled from 7,554', to 7,741', Drilled 187', in 9.5 hrs. average 19.7 ft/hr.,

Remarks
Last survey : " Sure Shot " survey : 5.13 degrees @ 7554' .
Safety Meeting Topic: Proper shut in procedures..
Lithology: @ 7540' 75% dolomite 20% Shale. 5% Limestone .
Drill pipe on location : Hole : 201 jts / Derrick & Mouse hole : 9 jts / Racks : 183 jts./ Total of : 393 jts.
Visually checked reserve pits, choke manifold, flare line and BOP's , ok.
Acc. Manifold : 1,350 psi / Acc : 2,900 psi / Annular : 1,000 psi.
Total rotating hours on BHA, since last Insp.: 15.5 hrs.
Total Circulating hours on BHA, since last Insp.: ??? hrs.
Total rotating hours on Jars & Thruster since last replaced : 15.5 hrs
Total circulating hours on Jars & Thruster since last replaced : ??? hrs
Note : Total oil base Mud lost to date : ?,??? bbls.
Note : Total oil base Mud lost last to the hole 24 - hrs. : ??? bbls.
Note : Sent 9- jnts. of HWDP, 2- 8"DC's, and 2- 6 1/2" DC's to Drilco to be repaired. (11-28-10)
Note : Recieved 39- jnts. of HWDP from Nabors yard, to be inspected on location (11-28-10)

Operations Next Report Period
Drill ahead, monitoring all drilling parameters .

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com	Start Depth (ftKB)	End Depth (ftKB)
06:00	12:30	6.50	BHA	PP	Picked up "Baker Tru Trak" BHA", and TIH with same, to 1,254.50'.	7,554.0	7,554.0
12:30	13:30	1.00	TRIP	PP	Function Test Baker Tru Trak, & program tool to drop 1- 1.5 degrees per 100'.	7,554.0	7,554.0
13:30	18:00	4.50	BHA	PP	TIH, monitoring displacement to trip tank, and record same, correct displacement recorded. No abnormal drag . Broke circ slowly & washed last 45' to bottom for Safety, no fill on bottom. Shut down pumps, to bring back on line, to sync Baker Tru Trak, problems with rig generator.	7,554.0	7,554.0
18:00	19:30	1.50	U_RIG	PN	Trouble shoot rig generator & sync problem, corrected same.	7,554.0	7,554.0
19:30	20:30	1.00	RIGSER	PP	On bottom drilling, Top drive system brake not working, "pipe back spinning", Pull off of bottom,mouse hole 1 stand, and inspect TDS. Found relief valve open on Brake. Serviced rig.	7,554.0	7,554.0
20:30	06:00	9.50	SLDDRLG	PP	Slide drilled from 7,554', to 7,741', (drilled : 187 ', @ 19.7 ft/hr. avg.) pumps : 90 X 90 = 628 gpm, PP: 2,950 psi,, Wt. bit : 15 - 22 K, Motor/ Bit rpm's : 100, Mud wt.: 9.0ppg, adding 3 - sack sof " Fiber Fluid" per hour, for mud loss prevention. , No detected mud loss noted. Note : Trip gas @ 7,554' = 34 units, no mud cut detected. Lithology: 7,580' to 7600' : 85 % Sand, 5 % Limestone, 5% Dolomite, 5% Gypsum Anhydrite. 7600' to 7620' : 30% Lime, 30% Dolomite, 20% Shale, 10% Sandstone 7620' to 7640' : 80% Dolomite, 20% Lime Avearge BGG : 15 - 25 units.	7,554.0	7,741.0

Mud Properties

Daily Cost: 3,111.20 Cost Cum Cost: 1,197,883.93 Cost

Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	T Flowline (°F)
03:30	Oil Base	0.0	9.00	59	

PV (cp)	YP (lbf/100ft²)	Filtrate (mL/30min)	HTHP Filtrate (mL/30...	HTHP Pressure (psi)	HTHP Temperature (°F)
12.0	18.000		3.0		250.0

Solids (%)	Sand (%)	MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)
8.0					

Chlorides (ppm)	Calcium (ppm)	Oil Water Ratio	Electric Stab (V)	Lime (lb/bbl)	Low Gravity Solids (%)
		83.5/16.5	924.0	4.8	4.5

Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Comment
14.000	15.000	

Bottom Hole Assembly

BHA Since Insp (hr)	BHA Wt BelowJar (1000lbf)	Hrs on Jars (hr)
15.5	63,000	15.500

Total AFE + Sup (Cost): 9,064,000.00

AFE Job Cost Summary

Cost Type	AFE Amt (Cost)
DHC	7,600,000.00
CWC	1,464,000.00

Field Estimate Job Cost Summary

Cost Typ	Field Est (Cost)
DHC	9,079,033.16

Daily Summary

Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
162,575.82	9,104,212.29
Daily Mud Field Est (Cost)	**Cum Mud Field Est (Cost)**
3,111.20	1,197,883.93

POL (Personnel on Location): 29.0

Daily Contacts

Job Contact	Title
Noah Dupuis	Drlg. Foreman
Derrick Berry	Drlg. Foreman
Mike Reel	Drilling Supt
Eric Burnett	Drilling Engineer

Personnel Log

Company	Count
PIONEER NATURAL RESOURCES	1
PIONEER NATURAL RESOURCES	1
NABORS DRILLING INC	2
NABORS DRILLING INC	12
ZECO	2
SELMA	2
NEWPARK	1
BADLANDZER	2
Halliburton	4
Pioneer	1
Pioneer	1

Weather

Precipitation Amount (in)	Precipitation Type
	Snow
Temperature - High (°F)	**Temperature - Low (°F)**
18.0	5.0

Comment

NABORS DRILLING, 169

Rig Type: Drilling - Triple

Rig Start Date	Rig Release Date
11/9/2010	

1, National Supply, 10-P-130

Pump Number: 1

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi): 3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)
Yes	410.0	60	199	95
Yes	205.0	40	133	95
Yes	315.0	50	166	95

2, National Supply, 10-P-130

Pump Number: 2

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi): 3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)
Yes	390.0	60	199	95
Yes	205.0	40	133	95
Yes	29.0	50	166	95

Job Supply Amounts

Supply Item Des	Unit Label	Received	Consumed	Cum On Loc

Mud Additive Amounts

Des	Consumed	Cum Cons
BULK TANK	2	160
BULK TANK BLOWERS	2	138
MUD ENGINEER	1	80
MUD LAB	1	72
Tax	14	59,887

Safety Summary

BOP Test Date	Last BOP Test	BOP Func Due	HSE Incident	HSE Inc Remark
29/Dec/2010	29/Nov/2010	6/Dec/2010	No	None

12/1/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Daily Drilling Report

Well Name: South Hills 6-1

Rig Name: NABORS DRILLING 169

Depth Progress: 187.00

REPORT DATE: 12/1/2010
REPORT: 97
DOL: 96
DFS: 70

Daily Summary

BHA #24 , Steerable

Bit Run	Drill Bit	Bit Type	Make
	12 1/4in, Q507, TN17679R	PDC	Hughes

Nozzles (1/32")	IADC Codes	IADC Bit Dull
	M323	-------

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)
	25.00	441.00

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)
9.50	187.00	19.7	7,554.0	7,741.0

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
206	Drill Pipe	5	4.276	6,231.15	7,484.65
5	HWDP	5	3.000	153.28	1,253.50
1	Jars	6 3/8	2.875	32.61	1,100.22
18	HWDP	5	3.000	552.37	1,067.61
1	X/O	6 3/8	2.813	3.57	515.24
9	6-1/2" DC's	6 1/2	2.875	276.70	511.67
1	X/O	6 1/2	2.813	2.92	234.97
5	8" DC's	8	2.875	153.83	232.05
1	Mechanical Thruster	8	3.563	30.11	78.22
1	Float Sub	8 1/16	2.938	3.00	48.11
1	XO Sub	8 1/4	3.000	3.81	45.11
1	Filter Sub	8	2.875	5.17	41.30
1	Stop Sub	9 1/2	3.500	2.18	36.13
1	9-1/2" True Trak, Adjustable Pads w/ Stab	9 1/2		33.95	33.95

Drilling Parameters

7,554.0 - 7,741.0 ftKB

Start (ftKB)	End Depth...	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note
7,554.0	7,741.0	19.7	20	100		628	2,950.0	

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100...	SO Str Wt (100...	Drill Str Wt (100...	Torque Units	Drilling Torque	Off Btm Tq
9.50	0.00	231	231	211			

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/...	Max Open Hole AV (ft...
				54.7	71.3

Casing Strings

Prop Run?	Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
No	Conductor	105.0	105.0	30	ERW	118.00		
No	Surface	4,345.0	4,344.6	13 3/8	K-55	68.00		

Plug Back Total Depths

Date	Depth (ftKB)	Type	Method

Deviation Surveys

Tru-Trak, Proposed? No

Date	Description	Job
9/23/2010	Tru-Trak	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
11/20/2010	7,441.00	3.44		7,440.53				
11/20/2010	7,464.00	3.56		7,463.53				
11/20/2010	7,518.00	4.53		7,517.52				
11/20/2010	7,554.00	5.13		7,553.52				
11/20/2010	7,574.00	4.48		7,573.52				

Mud Additive Amounts

Des	Consumed	Cum Cons
Trucking	2,373	102,162

Formations

Formation Name	Final Top MD (ftKB)
Quaternary	80.0
Tertiary Volcanic	1,300.0
Tertiary Undivided	1,830.0
North Horn	3,810.0
UNCONFORMITY	4,345.0
Arapien	4,345.0
FAULT	
Arapien	
Twin Creek	
Gypsum Sprgs Mbr	
Navajo	
Chinle	
TD	

Safety Summary

12/1/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 12/2/2010
REPORT: 98
DOL: 97
DFS: 71

Rig Name: NABORS DRILLING 169

Depth Progress: 241.00

Daily Summary

Property Sub	Field Name	API/UWI	Spud Date
327560-001	WILDCAT	43-023-30021-0000	9/22/2010

KB-Ground Distance (ft)	Original KB Elevation (ft)	KB-Mud Line Distance (ft)
25.00	5,264.00	

Daily Operations

Target Depth (ftKB)	Target Depth (TVD) (ftKB)	End Depth (ftKB)	End Depth (TVD) (ftKB)
9,040.0		7,982.0	

Footage/Meterage (ft)	24 HR ROP (ft/hr)	Drilling Hours (hr)
241.00	21.9	11.00

Avg Connection Gas	Avg Trip Gas	Avg Background Gas	Max Connection Gas	Max Trip Gas	Max Drill Gas
39.00	35.00	20.00	39.00	39.00	29.00

Operations at Report Time
TIH W/ BHA #25

Operations Summary
Drilled from 7,741', to 7,982'. Baker Tru Trak failed @ 7,822'. Wire line survey @ 7,936' : 4.59 *.
TOH to rpelace Tru Trak. No abnormnal drag TOH, bit in good condition.
Clean rig floor for Safety considerations. Prep to TIH, with new Baker Tru Trak, to resume drilling ahead.

Remarks
Last survey : " Sure Shot " survey : 4.59 degrees @ 7,936' .
Safety Meeting Topic: TOH, proper displacement.
Lithology: @ 7,959' ,90 % dolomite 5% Shale. 5% Limestone .
Drill pipe on location : Hole : 213 jts / Derrick & Mouse hole : 6 jts / Racks : 174 jts./ Total of : 393 jts.
Visually checked reserve pits, choke manifold, flare line and BOP's , ok.
Acc. Manifold : 1,350 psi / Acc : 2,900 psi / Annular : 1,000 psi.
Total rotating hours on BHA, since last Inspection .: 15.5 hrs.
Total slide/drilling hours on BHA, since last Inspection .: 20.5 hrs.
Total rotating hours on Jars & Thruster since last replaced : 15.5 hrs
Total slide/drilling hours on Jars & Thruster since last replaced : 20.5 hrs
Note : Total oil base Mud lost to date : 3,615 bbls.
Note : Total oil base Mud lost last to the hole 24 - hrs. : 55 bbls.
Note : Sent 9 - jnts. of HWDP, 2 - 8"DC's, and 2 - 6 1/2" DC's, to Drilco to be repaired. (11-28-10)
Note : Recieved 39 - jnts. of HWDP from Nabors yard, to be inspected on location (11-28-10)
Total down time today : 0 hrs. Total rig down time hours month of December : 0 hrs.
Total rig down time hours month of November : 11 hrs.
Nabor's was notified @ 19:30 hrs., to make every attempt to get the spear & mechanics, to install same, on TIH @ shoe.
Note : Derrck still needs to be leveled, contacted rig leveler, to inspect today. " Western Crane".

Operations Next Report Period
TIH with new Baker Tru Trak. Drill ahead, monitoring all drilling parameters .

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com	Start Depth (ftKB)	End Depth (ftKB)
06:00	07:30	1.50	SLDDR LG	PP	Slide drilled from with "Baker Tru Trak" from : 7,741', to 7,770', (Drilled : 29 ', @ 19.3 ft/hr. avg.) pumps : 90 X 90 = 628 gpm, PP: 2,950 psi,, Wt. bit : 15 - 22 K, Motor/ Bit rpm's : 100, Mud wt.: 9.0ppg, adding 3 - sacks of " Fiber Fluid" per hour, for mud loss prevention. , No detected mud loss noted . Lithology: 7,750' : 70 % Dolomite, 30 % Limestone, trace of sandstone. Average BGG : 25 units. Mud pump lost 900 psi, pick up off bottom to trouble shoot pressure loss.	7,741.0	7,770.0
07:30	08:00	0.50	U_RIG	PN	Trouble shoot 900 psi, pressure loss, determined pump suction plugged with lcm "Fiber Fluid", derrickmen mixing over pump suction, vs. through hopper as instructed by Pioneer rep., Flushed suction line, pumps ok.	7,770.0	7,770.0
08:00	17:30	9.50	SLDDR LG	PP	Slide drilled with "Baker Tru Trak" from : 7,770', to 7,982', (drilled : 212 ', @ 22.3 ft/hr. avg.) pumps : 96 X 97 = 673 gpm, Pump pressure : 3,180 psi,, Wt. bit : 22 K, Motor/ Bit rpm's : 102, Mud wt.: 9.0ppg, adding 10 - sacks of " Fiber Fluid" per hour, for mud loss prevention. Lithology: 7900' : , 5 % Limestone, 90 % Dolomite, 5 % Gypsum Anhydrite. Average BGG : 25 units. Note : At 7,891' , TruTrak', no longer received pulses, down loaded data & emailed to Baker, for evaluation , continued drilling " Blind", while data was analyzed .	7,770.0	7,982.0
17:30	19:00	1.50	DEVS UR	PP	Back ream stand for Safety, circ. 12 - minutes, while rigging up wire line, to take " Sure Shot" survey. Survey @ 7,935' = 4.59 * (103', below depth Tru Trak" failed, 49' TD of 7,982') (Projected @ TD : 5.3 degrees).. Decision made to TOH, to pick up replacement for the Baker Tru Trak ".	7,982.0	7,982.0
19:00	20:30	1.50	CIRC	PP	Circ. B/U @ 7,982', while mixing slug, and prep to TOH, for new Baker Tru Trak. Check flow (-), slug drill pipe.	7,982.0	7,982.0
20:30	22:30	2.00	TRIP	PP	TOH, from 7,982', to 4,190', no abnormal drag, correct displacement recorded in trip tank.	7,982.0	7,982.0
22:30	23:00	0.50	BOPS	PP	Remove rotating head, and install trip nipple.	7,982.0	7,982.0
23:00	00:30	1.50	TRIP	PP	Finish TOH to BHA @ 1,254'.	7,982.0	7,982.0

Total AFE + Sup (Cost)
9,064,000.00

AFE Job Cost Summary

Cost Type	AFE Amt (Cost)
DHC	7,600,000.00
CWC	1,464,000.00

Field Estimate Job Cost Summary

Cost Typ	Field Est (Cost)
DHC	9,108,109.37

Daily Summary

Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
73,247.81	9,133,288.50
Daily Mud Field Est (Cost)	**Cum Mud Field Est (Cost)**
15,047.81	1,212,931.74

POL (Personnel on Location)
29.0

Daily Contacts

Job Contact	Title
Mike Reel	Drilling Supt
Eric Burnett	Drilling Engineer
Bill Vigil	Drilling Foreman
Noah Dupuis	Drlg. Foreman

Personnel Log

Company	Count
PIONEER NATURAL RESOURCES	1
PIONEER NATURAL RESOURCES	1
NABORS DRILLING INC	2
NABORS DRILLING INC	12
ZECO	2
SELMA	2
NEWPARK	1
BADLANDZER	2
Halliburton	4
Pioneer	1
Pioneer	1

Weather

Precipitation Amount (in)	Precipitation Type
Temperature - High (°F)	Temperature - Low (°F)

Comment

NABORS DRILLING, 169

Rig Type: Drilling - Triple

Rig Start Date	Rig Release Date
11/9/2010	

1, National Supply, 10-P-130

Pump Number: 1

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi): 3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

2, National Supply, 10-P-130

Pump Number: 2

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi): 3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

Job Supply Amounts

Supply Item Des	Unit Label	Received	Consumed	Cum On Loc

Mud Additive Amounts

Des	Consumed	Cum Cons
Bentone 910	6	415
BULK TANK	2	162
BULK TANK BLOWERS	2	140
Fiber Fluid Cor	96	1,052
GSX-509	3	60
Lime	24	802
MUD ENGINEER	1	81
MUD LAB	1	73
New Bar (Ton/bulk)	16	224

Safety Summary

BOP Test Date	Last BOP Test	BOP Func Due	HSE Incident	HSE Inc Remark
29/Dec/2010	29/Nov/2010	6/Dec/2010	No	None

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 12/2/2010
REPORT: 98
DOL: 97
DFS: 71

Rig Name: NABORS DRILLING 169

Depth Progress: 241.00

Daily Summary

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com	Start Depth (ftKB)	End Depth (ftKB)
00:30	03:30	3.00	BHA	PP	TOH with BHA, inspect TruTrak, and bit, bit in gauge no broken or wore cutters.	7,982.0	7,982.0
03:30	04:00	0.50	SFTY	PP	Housekeeping on rig floor, and JSA on MU BHA.	7,982.0	7,982.0
04:00	06:00	2.00	BHA	PP	Break down stop sub, LD Tru-Track, PU new Tru-Track, MU stop sub, clean and inspect filter sub. Dress bit with 7-15's, and MU. TIH with BHA #25, @ 75'	7,982.0	7,982.0

Mud Properties

Daily Cost: 15,047.81 Cost Cum Cost: 1,212,931.74 Cost

Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	T Flowline (°F)
03:30	Oil Base	7,982.0	9.00	59	

PV (cp)	YP (lbf/100ft²)	Filtrate (mL/30min)	HTHP Filtrate (mL/30...	HTHP Pressure (psi)	HTHP Temperature (°F)
12.0	18.000		3.0		250.0

Solids (%)	Sand (%)	MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)
9.0					

Chlorides (ppm)	Calcium (ppm)	Oil Water Ratio	Electric Stab (V)	Lime (lb/bbl)	Low Gravity Solids (%)
		84/16	918.0	4.8	4.5

Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Comment
14.000	15.000	

Bottom Hole Assembly

BHA Since Insp (hr)	BHA Wt BelowJar (1000lbf)	Hrs on Jars (hr)
	63,000	20.500

BHA #24 , Steerable

Bit Run	Drill Bit	Bit Type	Make
12 RR1	12 1/4in, Q507, TN17679R	PDC	Hughes

Nozzles (1/32")	IADC Codes	IADC Bit Dull
	M323	-------

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)
	36.00	682.00

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)
20.50	428.00	20.9	7,554.0	7,982.0

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
206	Drill Pipe	5	4.276	6,231.15	7,484.65
5	HWDP	5	3.000	153.28	1,253.50
1	Jars	6 3/8	2.875	32.61	1,100.22
18	HWDP	5	3.000	552.37	1,067.61
1	X/O	6 3/8	2.813	3.57	515.24
9	6-1/2" DC's	6 1/2	2.875	276.70	511.67
1	X/O	6 1/2	2.813	2.92	234.97
5	8" DC's	8	2.875	153.83	232.05
1	Mechanical Thruster	8	3.563	30.11	78.22
1	Float Sub	8 1/16	2.938	3.00	48.11
1	XO Sub	8 1/4	3.000	3.81	45.11
1	Filter Sub	8	2.875	5.17	41.30
1	Stop Sub	9 1/2	3.500	2.18	36.13
1	9-1/2" True Trak, Adjustable Pads w/ Stab	9 1/2		33.95	33.95

Drilling Parameters

7,741.0 - 7,982.0 ftKB

Start (ftKB)	End Depth...	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note
7,741.0	7,982.0	21.9	20	100		628	2,950.0	

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100...	SO Str Wt (100...	Drill Str Wt (100...	Torque Units	Drilling Torque	Off Btm Tq
11.00	1.50	231	231	211			

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/...	Max Open Hole AV (ft...
				54.7	71.3

BHA #25 , Steerable

Bit Run	Drill Bit	Bit Type	Make
12 RR 2	12 1/4in, Q507, TN17679R	PDC	Hughes

Nozzles (1/32")	IADC Codes	IADC Bit Dull
15/15/15/15/15/15/15	M323	-------

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)
1.21	36.00	682.00

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)
			7,982.0	7,982.0

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
206	Drill Pipe	5	4.276	6,231.15	7,486.67
5	HWDP	5	3.000	153.28	1,255.52
1	Jars	6 3/8	2.875	32.61	1,102.24
18	HWDP	5	3.000	552.37	1,069.63
1	X/O	6 3/8	2.813	3.57	517.26
9	6-1/2" DC's	6 1/2	2.875	276.70	513.69
1	X/O	6 1/2	2.813	2.92	236.99
5	8" DC's	8	2.875	153.83	234.07
1	Mechanical Thruster	8	3.563	30.11	80.24
1	Float Sub	8 1/16	2.938	3.00	50.13
1	XO Sub	8 1/4	3.000	3.81	47.13
1	Filter Sub	8	2.875	5.17	43.32
1	Stop Sub	9 1/2	3.500	2.18	38.15
1	9-1/2" True Trak, Adjustable Pads w/ Stab	9 1/2		35.97	35.97

Mud Additive Amounts

Des	Consumed	Cum Cons
OptiDrill OBM (1 bbl/bulk)	55	3,973
Tax	823	60,710

Formations

Formation Name	Final Top MD (ftKB)
Quaternary	80.0
Tertiary Volcanic	1,300.0
Tertiary Undivided	1,830.0
North Horn	3,810.0
UNCONFORMITY	4,345.0
Arapien	4,345.0
FAULT	
Arapien	
Twin Creek	
Gypsum Sprgs Mbr	
Navajo	
Chinle	
TD	

Safety Summary

12/2/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 12/2/2010
REPORT: 98
DOL: 97
DFS: 71

Rig Name: NABORS DRILLING 169

Depth Progress: 241.00

Daily Summary

Drilling Parameters

7,982.0 - 7,982.0 ftKB

Start (ftKB)	End Depth…	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note
7,982.0	7,982.0							

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100…	SO Str Wt (100…	Drill Str Wt (100…	Torque Units	Drilling Torque	Off Btm Tq
0.00	0.00						

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/…	Max Open Hole AV (ft…
				0.0	0.0

Casing Strings

Prop Run?	Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
No	Conductor	105.0	105.0	30	ERW	118.00		
No	Surface	4,345.0	4,344.6	13 3/8	K-55	68.00		

Plug Back Total Depths

Date	Depth (ftKB)	Type	Method

Deviation Surveys

Tru-Trak, Proposed? No

Date	Description	Job
9/23/2010	Tru-Trak	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
11/20/2010	7,554.00	5.13		7,553.52				
11/20/2010	7,574.00	4.48		7,573.52				
11/20/2010	7,668.00	4.04		7,667.52				
11/20/2010	7,763.00	3.25		7,762.52				
11/20/2010	7,925.00	4.59		7,924.50				

Safety Summary

12/2/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 12/3/2010
REPORT: 99
DOL: 98
DFS: 72

Rig Name: NABORS DRILLING 169

Depth Progress: 163.00

Daily Summary

Property Sub	Field Name	API/UWI	Spud Date
327560-001	WILDCAT	43-023-30021-0000	9/22/2010

KB-Ground Distance (ft)	Original KB Elevation (ft)	KB-Mud Line Distance (ft)
25.00	5,264.00	

Daily Operations

Target Depth (ftKB)	Target Depth (TVD) (ftKB)	End Depth (ftKB)	End Depth (TVD) (ftKB)
9,040.0		8,145.0	

Footage/Meterage (ft)	24 HR ROP (ft/hr)	Drilling Hours (hr)
163.00	13.0	12.50

Avg Connection Gas	Avg Trip Gas	Avg Background Gas	Max Connection Gas	Max Trip Gas	Max Drill Gas
17.00	108.00	30.00	21.00		35.00

Operations at Report Time
Slide Driling @ 8145'

Operations Summary
TIH with new Tru-Track, BHA #25, Slide Drill from 7982' to 8145'

Remarks
Last survey : Tru-Track : 4.22 degrees @ 8048' .
Safety Meeting Topic: SLIPS & FALLS, MUDDY MELTING SNOW .
Lithology: @ 8130' ,60 % dolomite 20% Shale. 20% Limestone .
Drill pipe on location : Hole : 213 jts / Derrick & Mouse hole : 6 jts / Racks : 174 jts./ Total of : 393 jts.
Visually checked reserve pits, choke manifold, flare line and BOP's , ok.
Acc. Manifold : 1,350 psi / Acc : 2,900 psi / Annular : 1,000 psi.
Total rotating hours on BHA, since last Inspection .: 15.5 hrs.
Total slide/drilling hours on BHA, since last Inspection .: 32.5 hrs.
Total rotating hours on Jars & Thruster since last replaced : 15.5 hrs
Total slide/drilling hours on Jars & Thruster since last replaced : 33 hrs
Note : Total oil base Mud lost to date : 3,645 bbls.
Note : Total oil base Mud lost last to the hole 24 - hrs. : 30 bbls.
Note : Sent 9 - jnts. of HWDP, 2 - 8"DC's, and 2 - 6 1/2" DC's, to Drilco to be repaired. (11-28-10)
Note : Recieved 39 - jnts. of HWDP from Nabors yard, to be inspected on location (11-28-10)
Total down time today : 2 hrs. Total rig down time hours month of December : 2 hrs.
Note : Derrck still needs to be leveled, contacted rig leveler, to inspect today. " Western Crane".
Fuel on location : 7650 gal.

Operations Next Report Period
Drill ahead, monitoring all drilling parameters .

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com	Start Depth (ftKB)	End Depth (ftKB)
06:00	09:00	3.00	BHA	PP	Made up Baker Tru Trak, and TIH with BHA. Function test Baker Tru Trak, all indications, tool tested "OK". Note : Derrickman having problems to latch 8" drill collars. Tested Baker Tru Trak, fully operational.	7,982.0	7,982.0
09:00	12:00	3.00	TRIP	PP	TIH with Baker TRu Trak, taking returns to trip tank, monitoring & recording displacement, correct displacement recorded. Fill & break circ. @ 4,000', and 7,000' , during TIH.	7,982.0	7,982.0
12:00	13:00	1.00	BOPS	PP	Remove trip nipple,and installed rotating head @ 6,987'.	7,982.0	7,982.0
13:00	14:00	1.00	TRIP	PP	Continue TIH, to 7,900', monitoring displacement in trip tank, correct displacement recorded, no abnormal drag noted.	7,982.0	7,982.0
14:00	15:30	1.50	RMWASH	PP	Washed & reamed for Safety from 7,900' , to 7,982' , no fill on bottom . Survey with Tru Trak @ 7,953', = 5.01 degrees.	7,982.0	7,982.0
15:30	01:30	10.00	SLDDRLG	PP	Slide drilled with "Baker Tru Trak" from : 7,982', to 8129', (drilled : 147 ', @ 14.7 ft/hr. avg.) pumps : 95 X 95 = 663 gpm, Pump pressure : 3150 psi,, Wt. bit : 22 K, Motor/ Bit rpm's : 106, Mud wt.: 9.0 ppg, adding 3 - sacks of " Fiber Fluid" per hour, for mud loss prevention. Lithology: 8080' : , 10 % Limestone, 85 % Dolomite, 5 % Shale Average BGG : 28 units. Rig lost all power.	7,982.0	8,129.0
01:30	02:30	1.00	U_RIG	PN	Get 3 motors back running, PU 5' off bottom, roll pumps @ 50 X 50, 350 GPM, establish circulation, work pipe +/- 50', hole if free and clear. Attempt to sync Tru-Track tool. Rig Watch down. Circulate on hole 50 X 50, while trouble shoot Rig Watch. Unable to get Rig Watch to restore connection. Tool Pusher continue to trouble shoot.	8,129.0	8,129.0
02:30	03:00	0.50	U_RIG	PN	Sync Tru-Track, manual count strokes, will drill ahead with out Rig Watch while crew trouble shoots.	8,129.0	8,129.0
03:00	03:30	0.50	SLDDRLG	PP	Slide drilled with "Baker Tru Trak" from : 8,129', to 8121', pumps : 95 X 95 = 663 gpm, Pump pressure : 3150 psi, Off bottom pump pressure 2960 psi. Wt. bit : 22 K, Motor/ Bit rpm's : 106, Mud wt.: 9.0 ppg, adding 3 - sacks of " Fiber Fluid" per hour, for mud loss prevention. Drilling with out Rig Watch.	8,129.0	8,131.0

Total AFE + Sup (Cost): 9,064,000.00

AFE Job Cost Summary

Cost Type	AFE Amt (Cost)
DHC	7,600,000.00
CWC	1,464,000.00

Field Estimate Job Cost Summary

Cost Typ	Field Est (Cost)
DHC	9,216,644.02

Daily Summary

Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
108,534.65	9,241,823.15
Daily Mud Field Est (Cost)	**Cum Mud Field Est (Cost)**
31,685.11	1,244,616.85

POL (Personnel on Location): 29.0

Daily Contacts

Job Contact	Title
Mike Reel	Drilling Supt
Eric Burnett	Drilling Engineer
Bill Vigil	Drilling Foreman
Noah Dupuis	Drlg. Foreman

Personnel Log

Company	Count
PIONEER NATURAL RESOURCES	1
PIONEER NATURAL RESOURCES	1
NABORS DRILLING INC	2
NABORS DRILLING INC	12
ZECO	2
SELMA	2
NEWPARK	1
BADLANDZER	2
Halliburton	4
Pioneer	1
Pioneer	1

Weather

Precipitation Amount (in)	Precipitation Type
Temperature - High (°F)	Temperature - Low (°F)

Comment

NABORS DRILLING, 169

Rig Type: Drilling - Triple

Rig Start Date	Rig Release Date
11/9/2010	

1, National Supply, 10-P-130

Pump Number: 1

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi): 3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)
Yes	300.0	40	133	95
Yes	320.0	50	166	95
Yes	420.0	60	199	95

2, National Supply, 10-P-130

Pump Number: 2

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi): 3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)
Yes	380.0	60	199	95
Yes	280.0	40	133	95
Yes	300.0	50	166	95

Job Supply Amounts

Supply Item Des	Unit Label	Received	Consumed	Cum On Loc

Mud Additive Amounts

Des	Consumed	Cum Cons
Bentone 910	5	420
BULK TANK	2	164
BULK TANK BLOWERS	2	142
Fiber Fluid Cor	26	1,078
GSX-509	2	62

Safety Summary

BOP Test Date	Last BOP Test	BOP Func Due	HSE Incident	HSE Inc Remark
29/Dec/2010	29/Nov/2010	6/Dec/2010	No	None

PIONEER NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 12/3/2010
REPORT: 99
DOL: 98
DFS: 72

Rig Name: NABORS DRILLING 169

Depth Progress: 163.00

Daily Summary

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com	Start Depth (ftKB)	End Depth (ftKB)
03:30	04:00	0.50	RIGSER	PP	Pump #1 bad swab. Line out #3 pump, belts slipping, could not bring on to sync Tru-Track. Change out swab in #1 Pump. Circulat on hole using #2 Pump, 100 Stks/min.	8,131.0	8,131.0
04:00	06:00	2.00	SLDDRLG	PP	Slide drilled with "Baker Tru Trak" from : 8131', to 8145', (drilled : 14 ', @ 7 ft/hr. avg.) pumps : 95 X 95 = 663 gpm, Pump pressure : 3150 psi, 190 PSI Diff Pressure Wt. bit : 22 K, Motor/ Bit rpm's : 106, Mud wt.: 9.0 ppg, adding 3 - sacks of " Fiber Fluid" per hour, for mud loss prevention. Lithology: 8130' : , 20% Limestone, 60 % Dolomite, 20% Shale Average BGG : 28 units. Drilling with out Rig Watch. Tech called out of Rock Springs WY. should arrive on location 09:30.	8,131.0	8,145.0

Mud Properties

Daily Cost: 31,685.11 Cost Cum Cost: 1,244,616.85 Cost

Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	T Flowline (°F)
03:30	Oil Base	8,130.0	9.00	57	161.5

PV (cp)	YP (lbf/100ft²)	Filtrate (mL/30min)	HTHP Filtrate (mL/30...	HTHP Pressure (psi)	HTHP Temperature (°F)
12.0	18.000		3.0		250.0

Solids (%)	Sand (%)	MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)
8.0					

Chlorides (ppm)	Calcium (ppm)	Oil Water Ratio	Electric Stab (V)	Lime (lb/bbl)	Low Gravity Solids (%)
		83/17	933.0	4.8	2.5

Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Comment
14.000	16.000	

Bottom Hole Assembly

BHA Since Insp (hr)	BHA Wt BelowJar (1000lbf)	Hrs on Jars (hr)
	63,000	

BHA #25 , Steerable

Bit Run	Drill Bit	Bit Type	Make
12 RR 2	12 1/4in, Q507, TN17679R	PDC	Hughes

Nozzles (1/32")	IADC Codes	IADC Bit Dull
15/15/15/15/15/15/15	M323	-------

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)
1.21	48.50	845.00

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)
12.50	163.00	13.0	7,982.0	8,145.0

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
206	Drill Pipe	5	4.276	6,231.15	7,486.67
5	HWDP	5	3.000	153.28	1,255.52
1	Jars	6 3/8	2.875	32.61	1,102.24
18	HWDP	5	3.000	552.37	1,069.63
1	X/O	6 3/8	2.813	3.57	517.26
9	6-1/2" DC's	6 1/2	2.875	276.70	513.69
1	X/O	6 1/2	2.813	2.92	236.99
5	8" DC's	8	2.875	153.83	234.07
1	Mechanical Thruster	8	3.563	30.11	80.24
1	Float Sub	8 1/16	2.938	3.00	50.13
1	XO Sub	8 1/4	3.000	3.81	47.13
1	Filter Sub	8	2.875	5.17	43.32
1	Stop Sub	9 1/2	3.500	2.18	38.15
1	9-1/2" True Trak, Adjustable Pads w/ Stab	9 1/2		35.97	35.97

Drilling Parameters

7,982.0 - 8,145.0 ftKB

Start (ftKB)	End Depth...	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note
7,982.0	8,145.0	13.0	23		280.0	663	3,100.0	

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100...	SO Str Wt (100...	Drill Str Wt (100...	Torque Units	Drilling Torque	Off Btm Tq
12.50	4.00	252	244				

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/...	Max Open Hole AV (ft...
97.8	0.8	176.1	252.8	57.8	75.2

Casing Strings

Prop Run?	Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
No	Conductor	105.0	105.0	30	ERW	118.00		
No	Surface	4,345.0	4,344.6	13 3/8	K-55	68.00		

Plug Back Total Depths

Date	Depth (ftKB)	Type	Method

Deviation Surveys

Tru-Trak, Proposed? No

Date	Description	Job
9/23/2010	Tru-Trak	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
11/20/2010	7,554.00	5.13		7,553.52				

Mud Additive Amounts

Des	Consumed	Cum Cons
Lime	8	810
MUD ENGINEER	1	82
MUD LAB	1	74
New Bar (Ton/bulk)	3	227
OptiDrill OBM (1 bbl/bulk)	30	4,003
Opti-Mul	1	57
Opti-Plus	1	43
Tax	448	61,159
Trucking	23,265	125,427

Formations

Formation Name	Final Top MD (ftKB)
Quaternary	80.0
Tertiary Volcanic	1,300.0
Tertiary Undivided	1,830.0
North Horn	3,810.0
UNCONFORMITY	4,345.0
Arapien	4,345.0
FAULT	
Arapien	
Twin Creek	
Gypsum Sprgs Mbr	
Navajo	
Chinle	
TD	

Safety Summary

12/3/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 12/3/2010
REPORT: 99
DOL: 98
DFS: 72

Rig Name: NABORS DRILLING 169

Depth Progress: 163.00

Daily Summary

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
11/20/2010	7,574.00	4.48		7,573.52				
11/20/2010	7,668.00	4.04		7,667.52				
11/20/2010	7,763.00	3.25		7,762.52				
11/20/2010	7,925.00	4.59		7,924.50				

Safety Summary

12/3/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 12/4/2010
REPORT: 100
DOL: 99
DFS: 73

Rig Name: NABORS DRILLING 169

Depth Progress: 112.00

Daily Summary

Property Sub	Field Name	API/UWI	Spud Date
327560-001	WILDCAT	43-023-30021-0000	9/22/2010

KB-Ground Distance (ft)	Original KB Elevation (ft)	KB-Mud Line Distance (ft)
25.00	5,264.00	

Daily Operations

Target Depth (ftKB)	Target Depth (TVD) (ftKB)	End Depth (ftKB)	End Depth (TVD) (ftKB)
9,040.0		8,257.0	

Footage/Meterage (ft)	24 HR ROP (ft/hr)	Drilling Hours (hr)
112.00	6.6	17.00

Avg Connection Gas	Avg Trip Gas	Avg Background Gas	Max Connection Gas	Max Trip Gas	Max Drill Gas
39.00		22.00	39.00		67.00

Operations at Report Time
Circ. @ 8,257', for logging.

Operations Summary
Slide drilled with TruTrak from 8,145', to 8,257' (logging depth), attempted to level derrick with no success.

Remarks
Attempted to level derrick to enable running casing with no problems, 100 ton jack,
was not able to lift leg, to install shims.
Derrick leg binding, Nabor's could not find where it was binding.

Note : We will have to jack the substructure & install cribibing, after logging.
Last survey : Tru-Track : 8,227' @ 2.72*.
Safety Meeting Topic: Proper Shut In Procedures .
Lithology: @ 8,255' , 40 % dolomite 60 % Shale.
Drill pipe on location : Hole : 222 jts / Derrick & Mouse hole : 3 jts / Racks : 168 jts./ Total of : 393 jts.
Visually checked reserve pits, choke manifold, flare line and BOP's , ok.
Acc. Manifold : 1,350 psi / Acc : 2,900 psi / Annular : 1,000 psi.
Total rotating hours on BHA, since last Inspection .: 15.5 hrs.
Total slide/drilling hours on BHA, since last Inspection .: 40.5 hrs.
Total rotating hours on Jars & Thruster since last replaced : 15.5 hrs
Total slide/drilling hours on Jars & Thruster since last replaced : 50 hrs
Note : Total oil base Mud lost to date : 3,596 bbls.
Note : Total oil base Mud lost last to the hole 24 - hrs. : 6 bbls.
Note : Sent 9 - jnts. of HWDP, 2 - 8"DC's, and 2 - 6 1/2" DC's, to Drilco to be repaired. (11-28-10)
Note : Recieved 39 - jnts. of HWDP from Nabors yard, to be inspected on location (11-28-10)
Total down time today : 2 hrs. Total rig down time hours month of December : 2 hrs.
Note : Derrck still needs to be leveled, contacted rig leveler, to inspect today. " Western Crane".
Fuel on location : 7650 gal. , Received : 6,503 gallons, from Denton Oil .

Notify Randy Knight wtih BLM @ 05:59 12/4/2010, of log, run 9 7/8" casing, and cement, 12 1/4" hole to 8257' TD.

Operations Next Report Period
Circ. two complete circ.@ 8,257', make 10 std. wiper trip., circ. two circ., TOH , L/d Baker tools, R/U Halliburton wire line, commence logging operations.

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com	Start Depth (ftKB)	End Depth (ftKB)
06:00	11:00	5.00	SLDDR LG	PP	Slide drilled with "Baker Tru Trak" from : 8145', to 8175', (drilled : 30 ', @ 6 ft/hr. avg.) pumps : 95 X 95 = 663 gpm, Pump pressure : 2950 psi, 70 PSI Diff Pressure Wt. bit : 29 K, Motor/ Bit rpm's : 106, Mud wt.: 9.0 ppg, adding 3 - sacks of " Fiber Fluid" per hour, for mud loss prevention. Lithology: 8130' : , 20% Limestone, 60 % Dolomite, 20% Shale Average BGG : 29 units. Drilled with out Rig Watch. Tech called out of Rock Springs WY. , arrived on location 09:00, and corrected problem.	8,145.0	8,175.0
11:00	11:30	0.50	RIGSE R	PP	Obtained slow pump rates on stdby. pump, and made operational check on same, to be able to drill with stdby. pump, checked ok.	8,175.0	8,175.0
11:30	16:30	5.00	SLDDR LG	PP	Slide drilled with "Baker Tru Trak" from : 8175', to 8,226', (drilled : 51', @ 8.5 ft/hr. avg.) pumps : 94X 94 = 656 gpm, Pump pressure : 3,050 psi, 250 - 400 PSI Diff Pressure. Note : ratty foramtion, rop from 5' - 30 ft/hr. Wt. bit : 20 - 29 K, Motor/ Bit rpm's : 105, Mud wt.: 9.0 ppg, adding 3 - sacks of " Fiber Fluid" per hour, for mud loss prevention. Lithology: 8,226' : , 5 % Limestone, 40 % Dolomite, 10 % Shale, 45 % sandstone Average BGG : 68 units.	8,175.0	8,226.0
16:30	20:30	4.00	U_OTR	PN	Attempted to level derrick to enable running casing with no problems, 100 ton jack, was not able to lift leg, to install shims. Derrick leg binding, Nabor's could not find where it was binding. Note : We will have to jack the substructure & install cribibing, after logging.	8,226.0	8,226.0
20:30	21:30	1.00	U_DE Q	PN	Slight problem to sync TruTrak, made several attempts, sync, ok. Mud pumps pulsating, air locked, trouble shoot pumps, back on line , ok	8,226.0	8,226.0

Total AFE + Sup (Cost): 9,064,000.00

AFE Job Cost Summary

Cost Type	AFE Amt (Cost)
DHC	7,600,000.00
CWC	1,464,000.00

Field Estimate Job Cost Summary

Cost Typ	Field Est (Cost)
DHC	9,361,079.79

Daily Summary

Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
144,435.77	9,386,258.92
Daily Mud Field Est (Cost)	**Cum Mud Field Est (Cost)**
9,090.37	1,253,707.22

POL (Personnel on Location): 29.0

Daily Contacts

Job Contact	Title
Mike Reel	Drilling Supt
Eric Burnett	Drilling Engineer
Bill Vigil	Drilling Foreman
Noah Dupuis	Drlg. Foreman

Personnel Log

Company	Count
PIONEER NATURAL RESOURCES	1
PIONEER NATURAL RESOURCES	1
NABORS DRILLING INC	2
NABORS DRILLING INC	12
ZECO	2
SELMA	2
NEWPARK	1
BADLANDZER	2
Halliburton	4
Pioneer	1
Pioneer	1

Weather

Precipitation Amount (in)	Precipitation Type
Temperature - High (°F)	Temperature - Low (°F)

Comment

NABORS DRILLING, 169

Rig Type: Drilling - Triple

Rig Start Date	Rig Release Date
11/9/2010	

1, National Supply, 10-P-130

Pump Number: 1

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi): 3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

2, National Supply, 10-P-130

Pump Number: 2

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi): 3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

Job Supply Amounts

Supply Item Des	Unit Label	Received	Consumed	Cum On Loc

Mud Additive Amounts

Des	Consumed	Cum Cons
Bentone 910	24	444
BULK TANK	2	166
BULK TANK BLOWERS	2	144
Drum Disposal	22	86
Lime	48	858
MUD ENGINEER	1	83
MUD LAB	1	75
New Bar (Ton/bulk)	20	247
Oil Dry	8	37

Safety Summary

BOP Test Date	Last BOP Test	BOP Func Due	HSE Incident	HSE Inc Remark
29/Dec/2010	29/Nov/2010	6/Dec/2010	No	None

12/4/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 12/4/2010
REPORT: 100
DOL: 99
DFS: 73

Rig Name: NABORS DRILLING 169

Depth Progress: 112.00

Daily Summary

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com	Start Depth (ftKB)	End Depth (ftKB)
21:30	04:30	7.00	SLDDR LG	PP	Slide drilled with "Baker Tru Trak" from : 8226', to 8,257', (drilled : 31', @ 4.4 ft/hr. avg.) pumps : 94X 94 = 656 gpm, Pump pressure : 2890 psi, 200 - 300 PSI Diff Pressure. Note : ratty foramtion, rop from 1' - 5 ft/hr. Wt. bit : 20 - 29 K, Motor/ Bit rpm's : 105, Mud wt.: 9.0 ppg, adding 3 - sacks of " Fiber Fluid" per hour, for mud loss prevention. Lithology: 8226' to 8240': , 5 % Limestone, 20 % Dolomite, 60 % Shale, 10% Sand, 5% Gypsum. Lithology: 8240' to 8250': , 10 % Dolomite, 85 % Shale, 5% Sand. Average BGG : 29 units.	8,226.0	8,257.0
04:30	06:00	1.50	CIRC	PP	Circ. @ 8,257', (ROP decreased from 5' ft/hr, to 1'/hr.), Made conference call with engineering & geology, decesion made to log @ 8,257'., Closed ribs on Tru - Track, Circulated @ 8,257' 94 X 94, 656 gpm, =2,693 psi. Nabors Conducted BOP drill.	8,257.0	8,257.0

Mud Properties

Daily Cost: 9,090.37 Cost Cum Cost: 1,253,707.22 Cost

Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	T Flowline (°F)
03:30	Oil Base	8,255.0	9.00	54	161.8

PV (cp)	YP (lbf/100ft²)	Filtrate (mL/30min)	HTHP Filtrate (mL/30...	HTHP Pressure (psi)	HTHP Temperature (°F)
12.0	18.000		2.5		250.0

Solids (%)	Sand (%)	MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)
9.0					

Chlorides (ppm)	Calcium (ppm)	Oil Water Ratio	Electric Stab (V)	Lime (lb/bbl)	Low Gravity Solids (%)
		84/16	956.0	4.9	4.4

Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Comment
14.000	16.000	

Bottom Hole Assembly

BHA Since Insp (hr)	BHA Wt BelowJar (1000lbf)	Hrs on Jars (hr)
50.0	63,000	50.000

BHA #25 , Steerable

Bit Run	Drill Bit	Bit Type	Make
12 RR 2	12 1/4in, Q507, TN17679R	PDC	Hughes

Nozzles (1/32")	IADC Codes	IADC Bit Dull
15/15/15/15/15/15/15	M323	-------

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)
1.21	65.50	957.00

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)
29.50	275.00	9.3	7,982.0	8,257.0

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
206	Drill Pipe	5	4.276	6,231.15	7,486.67
5	HWDP	5	3.000	153.28	1,255.52
1	Jars	6 3/8	2.875	32.61	1,102.24
18	HWDP	5	3.000	552.37	1,069.63
1	X/O	6 3/8	2.813	3.57	517.26
9	6-1/2" DC's	6 1/2	2.875	276.70	513.69
1	X/O	6 1/2	2.813	2.92	236.99
5	8" DC's	8	2.875	153.83	234.07
1	Mechanical Thruster	8	3.563	30.11	80.24
1	Float Sub	8 1/16	2.938	3.00	50.13
1	XO Sub	8 1/4	3.000	3.81	47.13
1	Filter Sub	8	2.875	5.17	43.32
1	Stop Sub	9 1/2	3.500	2.18	38.15
1	9-1/2" True Trak, Adjustable Pads w/ Stab	9 1/2		35.97	35.97

Drilling Parameters

8,145.0 - 8,257.0 ftKB

Start (ftKB)	End Depth...	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note
8,145.0	8,257.0	6.6	29		280.0	663	2,969.0	

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100...	SO Str Wt (100...	Drill Str Wt (100...	Torque Units	Drilling Torque	Off Btm Tq
17.00	1.50	252	244				

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/...	Max Open Hole AV (ft...
97.8	0.8	176.1	252.8	57.8	75.2

Casing Strings

Prop Run?	Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
No	Conductor	105.0	105.0	30	ERW	118.00		
No	Surface	4,345.0	4,344.6	13 3/8	K-55	68.00		

Plug Back Total Depths

Date	Depth (ftKB)	Type	Method

Deviation Surveys

Tru-Trak, Proposed? No

Date	Description	Job
9/23/2010	Tru-Trak	EXD, 9/22/2010 09:00

Mud Additive Amounts

Des	Consumed	Cum Cons
Opti-Clean	2	6
OptiDrill OBM (1 bbl/bulk)	6	4,009
Opti-Thin	2	5
OptiVis RM	6	84
SALT	12	22
Tax	486	61,645

Formations

Formation Name	Final Top MD (ftKB)
Quaternary	80.0
Tertiary Volcanic	1,300.0
Tertiary Undivided	1,830.0
North Horn	3,810.0
UNCONFORMITY	4,345.0
Arapien	4,345.0
FAULT	
Arapien	
Twin Creek	
Gypsum Sprgs Mbr	
Navajo	
Chinle	
TD	

Safety Summary

12/4/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Daily Drilling Report

Well Name: South Hills 6-1

Rig Name: NABORS DRILLING 169

Depth Progress: 112.00

REPORT DATE: 12/4/2010
REPORT: 100
DOL: 99
DFS: 73

Daily Summary

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
11/20/2010	7,574.00	4.48		7,573.52				
11/20/2010	7,668.00	4.04		7,667.52				
11/20/2010	7,763.00	3.25		7,762.52				
11/20/2010	7,925.00	4.59		7,924.50				
11/20/2010	8,227.00	2.72		8,226.45				

Safety Summary

12/4/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 12/5/2010
REPORT: 101
DOL: 100
DFS: 74

Rig Name: NABORS DRILLING 169

Depth Progress: 0.00

Daily Summary

Property Sub	Field Name	API/UWI	Spud Date
327560-001	WILDCAT	43-023-30021-0000	9/22/2010

KB-Ground Distance (ft)	Original KB Elevation (ft)	KB-Mud Line Distance (ft)
25.00	5,264.00	

Daily Operations

Target Depth (ftKB)	Target Depth (TVD) (ftKB)	End Depth (ftKB)	End Depth (TVD) (ftKB)
9,040.0		8,257.0	

Footage/Meterage (ft)	24 HR ROP (ft/hr)	Drilling Hours (hr)
0.00		

Avg Connection Gas	Avg Trip Gas	Avg Background Gas	Max Connection Gas	Max Trip Gas	Max Drill Gas

Operations at Report Time
R/U Franks casing Crew.

Operations Summary
Circ. @ 8,257', for logging. Made ten stand short trip. Circ. @ 8,257', for logging. TOH. Held Safety & Operational meeting with Halliburton wire line, R/U Halliburton wire line,and logged well, with Triple Combo ,and dip meter, R/D Halliburton wire line. Held Safety and Operational meeting with Franks's Casing Crew. Begin R/U of casing and CRT tools.

Remarks
Notified Randy Knight wtih BLM @ 05:59 12/4/2010, of logging run, running of 9 7/8" casing, and cementing 9 7/8" casing, in 12 1/4" hole @ 8257' T.D of intermediate hole.

Last survey : Tru-Track : 8,227' @ 2.72*.
Safety Meeting Topic: Proper trip tank monitoring, during logging operation..
Lithology: @ 8,255' , 40 % dolomite 60 % Shale.
Drill pipe on location : Hole : 222 jts / Derrick & Mouse hole : 3 jts / Racks : 168 jts./ Total of : 393 jts.
Visually checked reserve pits, choke manifold, flare line and BOP's , ok.
Acc. Manifold : 1,350 psi / Acc : 2,900 psi / Annular : 1,000 psi.
Total rotating hours on BHA, since last Inspection .: 15.5 hrs.
Total slide/drilling hours on BHA, since last Inspection .: 40.5 hrs.
Total rotating hours on Jars & Thruster since last replaced : 15.5 hrs
Total slide/drilling hours on Jars & Thruster since last replaced : 50 hrs
Note : Total oil base Mud lost to date : 3,705 bbls.
Note : Total oil base Mud lost last to the hole 24 - hrs. : 109 bbls.
Note : Sent 9 - jnts. of HWDP, 2 - 8"DC's, and 2 - 6 1/2" DC's, to Drilco to be repaired. (11-28-10)
Note : Recieved 39 - jnts. of HWDP from Nabors yard, to be inspected on location (11-28-10)
Total down time today : 0 hrs. Total rig down time hours month of December : 2 hrs.
Note : Derrck still needs to be leveled, contacted rig leveler, to inspect today. " Western Crane".
Fuel on location : ???? gal.

Replaced High Clutch Spear.

Operations Next Report Period
R/U Franks Casing crew and tools, run 9 7/8" casing to 8,247' . Circ., and R/U Halliburton cementers.

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com	Start Depth (ftKB)	End Depth (ftKB)
06:00	07:30	1.50	CIRC	PP	Circ. & conditioning mud @ 8,257' (Intermediate casing point), for Halliburton wire line logging operations. Pumps : 94/ 94 = 656 gpm.	8,257.0	8,257.0
07:30	09:00	1.50	TRIP	PP	Made ten stand wiper trip, no abnormal drag, monitored displacement out & in, correct displacement recorded.	8,257.0	8,257.0
09:00	12:00	3.00	CIRC	PP	Circ. & conditioning mud @ 8,257' (Intermediate casing point), for Halliburton wire line logging operations. Pumps : 94/ 94 = 656 gpm.	8,257.0	8,257.0
12:00	16:00	4.00	TRIP	PP	Check flow, well static, slug drill pipe, TOH to BHA, monitored displacement via trip tank, correct displacement recorded. No abnormal drag, noted.	8,257.0	8,257.0
16:00	16:30	0.50	BOPS	PP	Removed rotating head , and installed trip nipple.	8,257.0	8,257.0
16:30	21:30	5.00	BHA	PP	Finished TOH, L/D complete 8" BHA, including Baker Tru Trak tool.	8,257.0	8,257.0
21:30	03:30	6.00	LOG	PP	Held Safety ,and Operational meeting, with Halliburton wire line, rigged up and looged, with run # 1 : " Triple Combo, from 8,257', to 6,900'. Run # 2 : Dip meter, from 8,257', to 6,900' TOH, and rigged down. Total time from rig up , to rig down : 6 hours. Nabors Mechanics repair High clutch spear while crews Held safety meeting.	8,257.0	8,257.0
03:30	04:30	1.00	RIGSER	PP	Pulled Wellhead wear bushing, General housekeeping, and pressure wash rig floor.	8,257.0	8,257.0
04:30	05:00	0.50	SFTY	PP	Held Safety Meeting with Nabors, and Franks. Topic: R/U casing tools, and CRT tool. Communication, and hand signals.	8,257.0	8,257.0
05:00	06:00	1.00	CSG	PP	R/U Franks casing equipment and CRT tools.	8,257.0	8,257.0

Mud Properties

Daily Cost: 26,288.54 Cost Cum Cost: 1,279,995.76 Cost

Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	T Flowline (°F)
03:30	Oil Base	8,257.0	9.00	58	

PV (cp)	YP (lbf/100ft²)	Filtrate (mL/30min)	HTHP Filtrate (mL/30...	HTHP Pressure (psi)	HTHP Temperature (°F)
12.0	18.000		2.5		250.0

Solids (%)	Sand (%)	MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)
9.0					

Chlorides (ppm)	Calcium (ppm)	Oil Water Ratio	Electric Stab (V)	Lime (lb/bbl)	Low Gravity Solids (%)
		84/16	955.0	4.9	4.4

Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Comment
14.000	15.000	

Total AFE + Sup (Cost): 14,064,000.00

AFE Job Cost Summary

Cost Type	AFE Amt (Cost)
DHC	12,600,000.00
CWC	1,464,000.00

Field Estimate Job Cost Summary

Cost Typ	Field Est (Cost)
DHC	9,471,155.07

Daily Summary

Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
110,075.28	9,496,334.20
Daily Mud Field Est (Cost)	**Cum Mud Field Est (Cost)**
26,288.54	1,279,995.76

POL (Personnel on Location): 29.0

Daily Contacts

Job Contact	Title
Mike Reel	Drilling Supt
Eric Burnett	Drilling Engineer
Bill Vigil	Drilling Foreman
Noah Dupuis	Drlg. Foreman

Personnel Log

Company	Count
PIONEER NATURAL RESOURCES	1
PIONEER NATURAL RESOURCES	1
NABORS DRILLING INC	2
NABORS DRILLING INC	12
ZECO	2
SELMA	2
NEWPARK	1
BADLANDZER	2
Halliburton	4
Pioneer	1
Pioneer	1

Weather

Precipitation Amount (in)	Precipitation Type
Temperature - High (°F)	**Temperature - Low (°F)**

Comment

NABORS DRILLING, 169

Rig Type: Drilling - Triple

Rig Start Date	Rig Release Date
11/9/2010	

1, National Supply, 10-P-130

Pump Number: 1

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi): 3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

2, National Supply, 10-P-130

Pump Number: 2

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi): 3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

Job Supply Amounts

Supply Item Des	Unit Label	Received	Consumed	Cum On Loc

Mud Additive Amounts

Des	Consumed	Cum Cons
Bentone 910	14	458
BULK TANK	2	168
BULK TANK BLOWERS	2	146
Fiber Fluid Cor	88	1,166
GSX-509	3	65
Lime	42	900
MUD ENGINEER	1	84
MUD LAB	1	76
New Bar (Ton/bulk)	3	249

Safety Summary

BOP Test Date	Last BOP Test	BOP Func Due	HSE Incident	HSE Inc Remark
29/Dec/2010	29/Nov/2010	6/Dec/2010	No	None.

12/5/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 12/5/2010
REPORT: 101
DOL: 100
DFS: 74

Rig Name: NABORS DRILLING 169

Depth Progress: 0.00

Daily Summary

Bottom Hole Assembly

BHA Since Insp (hr)	BHA Wt BelowJar (1000lbf)	Hrs on Jars (hr)
50.0		

BHA #<BHA #?>, <Drill String Name?>

Bit Run	Drill Bit	Bit Type	Make

Nozzles (1/32")	IADC Codes	IADC Bit Dull

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)

Drilling Parameters

<depthstart> - <depthend> ftKB

Start (ftKB)	End Depth...	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100...	SO Str Wt (100...	Drill Str Wt (100...	Torque Units	Drilling Torque	Off Btm Tq

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/...	Max Open Hole AV (ft...

Casing Strings

Prop Run?	Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
No	Conductor	105.0	105.0	30	ERW	118.00		
No	Surface	4,345.0	4,344.6	13 3/8	K-55	68.00		

Plug Back Total Depths

Date	Depth (ftKB)	Type	Method

Deviation Surveys

Tru-Trak, Proposed? No

Date	Description	Job
9/23/2010	Tru-Trak	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
11/20/2010	7,574.00	4.48		7,573.52				
11/20/2010	7,668.00	4.04		7,667.52				
11/20/2010	7,763.00	3.25		7,762.52				
11/20/2010	7,925.00	4.59		7,924.50				
11/20/2010	8,227.00	2.72		8,226.45				

Mud Additive Amounts

Des	Consumed	Cum Cons
OptiDrill OBM (1 bbl/bulk)	131	4,140
Opti-Plus	1	44
Tax	1,397	63,042
Trucking	1,101	126,528

Formations

Formation Name	Final Top MD (ftKB)
Quaternary	80.0
Tertiary Volcanic	1,300.0
Tertiary Undivided	1,830.0
North Horn	3,810.0
UNCONFORMITY	4,345.0
Arapien	4,345.0
FAULT	
Arapien	
Twin Creek	
Gypsum Sprgs Mbr	
Navajo	
Chinle	
TD	

Safety Summary

12/5/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 12/6/2010
REPORT: 102
DOL: 101
DFS: 75

Rig Name: NABORS DRILLING 169

Depth Progress: 0.00

Daily Summary

Property Sub	Field Name	API/UWI	Spud Date
327560-001	WILDCAT	43-023-30021-0000	9/22/2010

KB-Ground Distance (ft)	Original KB Elevation (ft)	KB-Mud Line Distance (ft)
25.00	5,264.00	

Daily Operations

Target Depth (ftKB)	Target Depth (TVD) (ftKB)	End Depth (ftKB)	End Depth (TVD) (ftKB)
9,040.0		8,257.0	

Footage/Meterage (ft)	24 HR ROP (ft/hr)	Drilling Hours (hr)
0.00		

Avg Connection Gas	Avg Trip Gas	Avg Background Gas	Max Connection Gas	Max Trip Gas	Max Drill Gas

Operations at Report Time
Running 9 7/8" Casing @ 6299'

Operations Summary
R/U Franks casing tools, and fill up tool. Running 9 7/8" casing to 6299', have ran 154 of 198 joints, monitoring trip tanks for correct displacement.

Remarks
Received verbal approval to pump conventional cement slurry in place of foam cement as per original drilling plan. Approval via phone conversation between Eric Burnett and Al McKee(SLC BLM) +/- 2:00 PM December 5, 2010.

Notified Randy Knight wtih BLM @ 05:59 12/4/2010, of logging run, running of 9 7/8" casing, and cementing 9 7/8" casing, in 12 1/4" hole @ 8257' T.D of intermediate hole.

Last survey : Tru-Track : 8,227' @ 2.72*.
Safety Meeting Topic: Proper trip tank monitoring, during logging operation..
Lithology: @ 8,255' , 40 % dolomite 60 % Shale.
Drill pipe on location : Hole : 222 jts / Derrick & Mouse hole : 3 jts / Racks : 168 jts./ Total of : 393 jts.
Visually checked reserve pits, choke manifold, flare line and BOP's , ok.
Acc. Manifold : 1,350 psi / Acc : 2,900 psi / Annular : 1,000 psi.
Total rotating hours on BHA, since last Inspection .: 15.5 hrs.
Total slide/drilling hours on BHA, since last Inspection .: 40.5 hrs.
Total rotating hours on Jars & Thruster since last replaced : 15.5 hrs
Total slide/drilling hours on Jars & Thruster since last replaced : 50 hrs
Note : Total oil base Mud lost to date : 3,705 bbls.
Note : Total oil base Mud lost last to the hole 24 - hrs. : 109 bbls.
Note : Sent 9 - jnts. of HWDP, 2 - 8"DC's, and 2 - 6 1/2" DC's, to Drilco to be repaired. (11-28-10)
Total down time today : 0 hrs. Total rig down time hours month of December : 2 hrs.
**** Note : 140 bbls. of base oil, was transferred from location, to Denton Oil, to have enough storage capacity on location, for calculated gain, from running casing,and cementing same.
Note: Casing running operation slower due to derrick not being level, taking more time to MU to ensure threads are not crossed.
Fuel on location : 4650 gal. (31")

Note : Top drive leaking oil, Nabor's will have mechanic, repair this afternoon.

Operations Next Report Period
Finish running 9 7/8" casing, land @ 8247', circulate 2 times casing capacity, pump cement job, prepare for next hole section.

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com	Start Depth (ftKB)	End Depth (ftKB)
06:00	06:30	0.50	SFTY	PP	Held Safety , and Operational meeting with Frank's crew, and Nabor's drill crew. (Topic : Safety - First).	8,257.0	8,257.0
06:30	09:30	3.00	CSG	PP	Finish R/U " Frank's casing running equipment, and Fill tool.	8,257.0	8,257.0
09:30	10:30	1.00	U_OTR	PN	Trouble shoot, and repair Frank's air slips, sand paint off " I.D " of single joint eleavators, and add extended slings, removed hose from fill tool, due to self filling float equipment.	8,257.0	8,257.0
10:30	06:00	19.50	CSG	PP	Running 9 7/8" intermediate casing , to 6299' (9 7/8", P -110, 62.8 lb/ft., BTC), (Guide shoe, 2-jnts. of casing, self fill float collar(ball activated), 154 of 198 - jnts of (9 7/8", P -110, 62.8 lb/ft., BTC) Note : problems with single joint elevators binding on (white - P 110 markings on casing, buffed inner "I.D." of elevators, and "Badlanderz Construction", buffing off white paint stripes on casing . Note : Averaged 12 jnts. on torque, monitoring Pyramid, determined optimum torque : 18,000 ft/lbs. Note : Monitored displacement in trip tank, correct displacement recorded. Note : due to " self - fill float equipment, casing running over, last 10' above rig floor, mud draining to cellar, and then was pumped to mud pits. Note : Slugged casing to prevent mud, from flowing back, through " self fill float equipment ". Note: Casing running operation slower due to derrick not being level, taking more time to MU to ensure threads are not crossed.	8,257.0	8,257.0

Total AFE + Sup (Cost): 14,064,000.00

AFE Job Cost Summary

Cost Type	AFE Amt (Cost)
DHC	12,600,000.00
CWC	1,464,000.00

Field Estimate Job Cost Summary

Cost Typ	Field Est (Cost)
DHC	9,555,824.61

Daily Summary

Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
84,669.54	9,581,003.74
Daily Mud Field Est (Cost)	**Cum Mud Field Est (Cost)**
739.88	1,281,454.75

POL (Personnel on Location): 44.0

Daily Contacts

Job Contact	Title
Mike Reel	Drilling Supt
Eric Burnett	Drilling Engineer
Bill Vigil	Drilling Foreman
Noah Dupuis	Drlg. Foreman

Personnel Log

Company	Count
PIONEER NATURAL RESOURCES	1
PIONEER NATURAL RESOURCES	1
NABORS DRILLING INC	2
NABORS DRILLING INC	12
ZECO	2
SELMA	2
NEWPARK	1
BADLANDZER	2
Halliburton	4
Pioneer	1
Pioneer	1
FRANKS CSG CREW & RENTAL TOOLS	8
HALLIBURTON	6
WOOD GROUP	1

Weather

Precipitation Amount (in)	Precipitation Type
Temperature - High (°F)	**Temperature - Low (°F)**

Comment

NABORS DRILLING, 169

Rig Type: Drilling - Triple

Rig Start Date	Rig Release Date
11/9/2010	

1, National Supply, 10-P-130

Pump Number: 1

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi): 3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

2, National Supply, 10-P-130

Pump Number: 2

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi): 3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

Job Supply Amounts

Supply Item Des	Unit Label	Received	Consumed	Cum On Loc

Mud Additive Amounts

Des	Consumed	Cum Cons
BULK TANK	2	170
BULK TANK BLOWERS	2	148
MUD ENGINEER	1	85
MUD LAB	1	77
Tax	15	63,003

Safety Summary

BOP Test Date	Last BOP Test	BOP Func Due	HSE Incident	HSE Inc Remark
29/Dec/2010	29/Nov/2010	6/Dec/2010	No	None.

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 12/6/2010
REPORT: 102
DOL: 101
DFS: 75

Rig Name: NABORS DRILLING 169

Depth Progress: 0.00

Daily Summary

Mud Properties

Daily Cost: 739.88 Cost Cum Cost: 1,281,454.75 Cost

Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	T Flowline (°F)
03:30	Oil Base	8,257.0	9.00	57	

PV (cp)	YP (lbf/100ft²)	Filtrate (mL/30min)	HTHP Filtrate (mL/30…	HTHP Pressure (psi)	HTHP Temperature (°F)
12.0	18.000		2.5		250.0

Solids (%)	Sand (%)	MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)
9.0					

Chlorides (ppm)	Calcium (ppm)	Oil Water Ratio	Electric Stab (V)	Lime (lb/bbl)	Low Gravity Solids (%)
		84/16	961.0	4.9	4.4

Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Comment
14.000	15.000	

Bottom Hole Assembly

BHA Since Insp (hr)	BHA Wt BelowJar (1000lbf)	Hrs on Jars (hr)

BHA #<BHA #?>, <Drill String Name?>

Bit Run	Drill Bit	Bit Type	Make

Nozzles (1/32")	IADC Codes	IADC Bit Dull

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)

Drilling Parameters

<depthstart> - <depthend> ftKB

Start (ftKB)	End Depth…	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100…	SO Str Wt (100…	Drill Str Wt (100…	Torque Units	Drilling Torque	Off Btm Tq

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/…	Max Open Hole AV (ft…

Casing Strings

Prop Run?	Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
No	Conductor	105.0	105.0	30	ERW	118.00		
No	Surface	4,345.0	4,344.6	13 3/8	K-55	68.00		

Plug Back Total Depths

Date	Depth (ftKB)	Type	Method

Deviation Surveys

Tru-Trak, Proposed? No

Date	Description	Job
9/23/2010	Tru-Trak	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
11/20/2010	7,574.00	4.48		7,573.52				
11/20/2010	7,668.00	4.04		7,667.52				
11/20/2010	7,763.00	3.25		7,762.52				
11/20/2010	7,925.00	4.59		7,924.50				
11/20/2010	8,227.00	2.72		8,226.45				

Formations

Formation Name	Final Top MD (ftKB)
Quaternary	80.0
Tertiary Volcanic	1,300.0
Tertiary Undivided	1,830.0
North Horn	3,810.0
UNCONFORMITY	4,345.0
Arapien	4,345.0
FAULT	
Arapien	
Twin Creek	
Gypsum Sprgs Mbr	
Navajo	
Chinle	
TD	

Safety Summary

12/6/2010

PIONEER NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 12/7/2010
REPORT: 103
DOL: 102
DFS: 76

Rig Name: NABORS DRILLING 169

Depth Progress: 0.00

Daily Summary

Property Sub	Field Name	API/UWI	Spud Date
327560-001	WILDCAT	43-023-30021-0000	9/22/2010

KB-Ground Distance (ft)	Original KB Elevation (ft)	KB-Mud Line Distance (ft)
25.00	5,264.00	

Daily Operations

Target Depth (ftKB)	Target Depth (TVD) (ftKB)	End Depth (ftKB)	End Depth (TVD) (ftKB)
9,040.0		8,257.0	

Footage/Meterage (ft)	24 HR ROP (ft/hr)	Drilling Hours (hr)
0.00		

Avg Connection Gas	Avg Trip Gas	Avg Background Gas	Max Connection Gas	Max Trip Gas	Max Drill Gas

Operations at Report Time

WOC. Holding pressure on casing, due to float failed to hold after cementing.

Operations Summary

Completed running 9 7/8" intermediate casing to 8,247', with 50 centralizers installed every 3rd joint to surface, full returns, no abnormal drag, landed casing with hangar in Wood group head. Circulated, and conditioned mud for cementing, lost partial returns, during B/U, due to packing off below hangar. Shut down circulating,and monitored well on trip tank, while Halliburton rigged up. Cemented 9 7/8" intermediate casing with a total of 1,300 sacks of cement. Partial returns, lost 60 bbls, during cementing,and displacing. Estimated TOC 738'

Remarks

Received verbal approval to pump conventional cement slurry in place of foam cement as per original drilling plan. Approval via phone conversation between Eric Burnett and Al McKee(SLC BLM) +/- 2:00 PM December 5, 2010.

Notified Randy Knight with BLM @ 05:59 12/4/2010, of logging run, running of 9 7/8" casing, and cementing 9 7/8" casing, in 12 1/4" hole @ 8257' T.D of intermediate hole.

Last survey : Tru-Track : 8,227' @ 2.72*.
Safety Meeting Topic: Proper trip tank monitoring, during logging operation..
Lithology: @ 8,255' , 40 % dolomite 60 % Shale.
Drill pipe on location : Hole : 222 jts / Derrick & Mouse hole : 3 jts / Racks : 168 jts./ Total of : 393 jts.
Visually checked reserve pits, choke manifold, flare line and BOP's , ok.
Acc. Manifold : 1,350 psi / Acc : 2,900 psi / Annular : 1,000 psi.
Total rotating hours on BHA, since last Inspection .: 15.5 hrs.
Total slide/drilling hours on BHA, since last Inspection .: 40.5 hrs.
Total rotating hours on Jars & Thruster since last replaced : 15.5 hrs
Total slide/drilling hours on Jars & Thruster since last replaced : 50 hrs
Note : Total oil base Mud lost to date : 3,835 bbls.
Note : Total oil base Mud lost last to the hole 24 - hrs. : 130 bbls.
Note : Sent 9 - jnts. of HWDP, 2 - 8"DC's, and 2 - 6 1/2" DC's, to Drilco to be repaired. (11-28-10)
Total down time today : 0 hrs. Total rig down time hours month of December : 2 hrs.
**** Note : 140 bbls. of base oil, was transferred from location, to Denton Oil, to have enough storage capacity on location, for calculated gain, from running casing,and cementing same.
Note: Casing running operation slower due to derrick not being level, taking more time to MU to ensure threads are not crossed.
Fuel on location : 3300 gal. (22") 2850 gal used the last 24 hrs.

Note : Top drive leaking oil, Nabor's will have mechanic, repair this afternoon.

Operations Next Report Period

WOC. Woodgroup install pack off, and test same to 5,000 psi. Prep and Pick up Baker Tru Trak BHA, TIH, test casing to 4,000 psi. Drill shoe track, and perform "FIT", to 14.0 ppg. Drill ahead with 8.5" Hughes pdc bit, and Baker TruTrak BHA, as designed. Nabors repair oil leaks on top drive.

Total AFE + Sup (Cost): 14,064,000.00

AFE Job Cost Summary

Cost Type	AFE Amt (Cost)
DHC	12,600,000.00
CWC	1,464,000.00

Field Estimate Job Cost Summary

Cost Typ	Field Est (Cost)
DHC	10,249,062.63

Daily Summary

Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
693,238.02	10,274,241.76
Daily Mud Field Est (Cost)	**Cum Mud Field Est (Cost)**
21,943.55	1,303,398.30

POL (Personnel on Location): 44.0

Daily Contacts

Job Contact	Title
Mike Reel	Drilling Supt
Eric Burnett	Drilling Engineer
Bill Vigil	Drilling Foreman
Noah Dupuis	Drlg. Foreman

Personnel Log

Company	Count
PIONEER NATURAL RESOURCES	1
PIONEER NATURAL RESOURCES	1
NABORS DRILLING INC	2
NABORS DRILLING INC	12
ZECO	2
SELMA	2
NEWPARK	1
BADLANDZER	2
Halliburton	4
Pioneer	1
Pioneer	1
FRANKS CSG CREW & RENTAL TOOLS	8
HALLIBURTON	6
WOOD GROUP	1

Weather

Precipitation Amount (in)	Precipitation Type
Temperature - High (°F)	**Temperature - Low (°F)**

Comment

NABORS DRILLING, 169

Rig Type: Drilling - Triple

Rig Start Date	Rig Release Date
11/9/2010	

1, National Supply, 10-P-130

Pump Number: 1

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi): 3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

2, National Supply, 10-P-130

Pump Number: 2

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi): 3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

Job Supply Amounts

Supply Item Des	Unit Label	Received	Consumed	Cum On Loc

Mud Additive Amounts

Des	Consumed	Cum Cons
Bentone 910	12	470
BULK TANK	2	172
BULK TANK BLOWERS	2	150
MUD ENGINEER	1	86
MUD LAB	1	78
New Bar (Ton/bulk)	9	265

Safety Summary

BOP Test Date	Last BOP Test	BOP Func Due	HSE Incident	HSE Inc Remark
29/Dec/2010	29/Nov/2010	6/Dec/2010	No	None.

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Daily Drilling Report

Well Name: South Hills 6-1

Rig Name: NABORS DRILLING 169

Depth Progress: 0.00

REPORT DATE: 12/7/2010
REPORT: 103
DOL: 102
DFS: 76

Daily Summary

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com	Start Depth (ftKB)	End Depth (ftKB)
06:00	13:00	7.00	CSG	PP	Finished Running 9 7/8" intermediate casing , to 8,247' , full returns, no abnormal drag .... (Guide shoe, 2- jnts. of 9 7/8" P -110, 62.8 lb/ft., BTC casing, self fill float collar(ball activated, 196 - jnts. of 9 7/8" P -110, 62.8 lb/ft., BTCcsg., pup jnt., hangar) . Note : Final string wt : 430,000 lbs., w/o block . Landed casing string on well head profile , with hangar. Note : Monitored displacement in trip tank, correct displacement recorded. Note : Averaged 12 jnts. on torque, monitoring Pyramid, determined optimum torque : 16,500 ft/lbs. Note: Joint # 191, bad threads in colar, L/D jnt. #191, (Bad box), and joint # 192 (Damaged pin), replaced same. Note : Total of 42 good joints to return (Ftg. : 1722.80) . Two bad joints (Ftg : 81.60), and one landing joint, with Wood group running tool, bucked on same. One Weatherford guide shoe,and one Weatherford float collar, new in wooden crates. Note : Due to " Self - fill float equipment, casing running over, last 10' above rig floor, mud draining to cellar, and then was pumped to mud pits. Note : Slugged casing to prevent mud, from flowing back, through " self fill float equipment ". Note: Casing running operation slower due to derrick not being level, taking more time to MU to ensure threads are not crossed. Note : problems with single joint elevators binding on (white - P 110 markings on casing, buffed inner "I.D." of elevators, and "Badlanderz Construction", buffing off white paint stripes on casing .	8,257.0	8,257.0
13:00	14:00	1.00	WLHEAD	PP	Wood group tech, drained BOP stack, backed off visual port, and confirmed woodgroup hangar in correct position, for hanging,and packing off procedure, per specs.	8,257.0	8,257.0
14:00	14:30	0.50	CSG	PP	Rig down Franks tongs, and spiders, and R/U Halliburton chicksan lines, to circ. , and condition mud , for cementing.	8,257.0	8,257.0
14:30	16:30	2.00	CIRC	PP	Break Circulation slowly, max. of 500 psi, until circulating, gradually increasing pump rate, to 90 spm, Circulated and conditioned mud @ 8,247', pump rate : 90 spm : 7.5 bpm/ 315 gpm, circulated 10,299 stks. Circulated with full returns,until B/U at WoodGroup Hangar. Note : At B/U from 8,247', cuttings packed off below hangar, and mud lossses were encountred, lost 41 bbls, shut down pumps, lined up on trip tank, monitored . Note : Discussed picking up hangar off profile, checked with Woodgroup, concerns over being able to slack off after cement job, decesion was made to rig up two inch line from casing valve to mud pit, to relieve possible abck pressure below hangar profile.	8,257.0	8,257.0
16:30	19:30	3.00	CMTPRI	PP	Monitor well on trip tank, while rigging up Halliburton cementers. Hole taking 10 bbls./hr.	8,257.0	8,257.0
19:30	20:00	0.50	SFTY	PP	Held Safety,and operational meeting with Halliburton.	8,257.0	8,257.0

Mud Additive Amounts

Des	Consumed	Cum Cons
New Gel HY	63	399
NewPHPA	6	32
OptiDrill OBM (1 bbl/bulk)	131	4,271
Tax	1,214	64,217

Formations

Formation Name	Final Top MD (ftKB)
Quaternary	80.0
Tertiary Volcanic	1,300.0
Tertiary Undivided	1,830.0
North Horn	3,810.0
UNCONFORMITY	4,345.0
Arapien	4,345.0
FAULT	
Arapien	
Twin Creek	
Gypsum Sprgs Mbr	
Navajo	
Chinle	
TD	

Safety Summary

12/7/2010

PIONEER NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Daily Drilling Report

Well Name: South Hills 6-1

Rig Name: NABORS DRILLING 169

Depth Progress: 0.00

REPORT DATE: 12/7/2010
REPORT: 103
DOL: 102
DFS: 76

Daily Summary

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com	Start Depth (ftKB)	End Depth (ftKB)
20:00	01:00	5.00	CMTP RI	PP	Cemented 9 7/8" intermediate string of casing with Halliburton as follows : Rigged up Halliburton , pumped 3 bbls of Tuned Spacer, and tested lines to 5,000 psi, tested positive. Dropped bottom plug, and Pumped 40 bbls. of "Tuned Spacer" ahead . Lead in with : 430 sks. of " Extendacem (TM) System , slurry weight : 11. 0 ppg., Yield : 3.14 cuft/sk., Water : 18.71 gal/sk., Slurry Volume : 240.5 barrels, Tailed in with : " Versacem (TM) System , slurry weight : 13.5 ppg., Yield : 1.71 cuft/sk., water : 8.04 gal/sk., Slurry volume : 265 barrels. Dropped top plug ,and Halliburton kicked out with twenty barrels of fresh water, then switched displacement to rig pumps, (converted self filling float equipment at 11.5 bpm rate, the decreased rate to 7.5 bpm, pumped a total of 569 bbls. (6,851 strokes), bumped plug @ 00:47 hrs., 12/07/10, with 500 psi over displacing pressure (1,900 psi., held same for 5 minutes, bled off 4.5 bbls., floats failed to hold.) Note : Partial returns through cement ,and displacing, Total of 60 barrels lost during cementing, and displacing . Rigged down Halliburton,and loaded out same . Note : Monitored annulus on trip tank, while holding pressure on casing, well static, lost 0 barrels. No cement to surface, trace of spacer to surface. Estimated TOC 738'	8,257.0	8,257.0
01:00	06:00	5.00	CMTP RI	PP	WOC. Hold pressure on casing due to float failed to hold after cementing.	8,257.0	8,257.0

Mud Properties

Daily Cost: 21,943.55 Cost Cum Cost: 1,303,398.30 Cost

Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	T Flowline (°F)
02:00	Oil Base	8,257.0	9.50	71	

PV (cp)	YP (lbf/100ft²)	Filtrate (mL/30min)	HTHP Filtrate (mL/30…	HTHP Pressure (psi)	HTHP Temperature (°F)
13.0	16.000		2.0		250.0

Solids (%)	Sand (%)	MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)
9.0					

Chlorides (ppm)	Calcium (ppm)	Oil Water Ratio	Electric Stab (V)	Lime (lb/bbl)	Low Gravity Solids (%)
		84/16	955.0	4.8	0.7

Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Comment
14.000	17.000	

Bottom Hole Assembly

BHA Since Insp (hr)	BHA Wt BelowJar (1000lbf)	Hrs on Jars (hr)

BHA #<BHA #?>, <Drill String Name?>

Bit Run	Drill Bit	Bit Type	Make

Nozzles (1/32")	IADC Codes	IADC Bit Dull

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)

Drilling Parameters

<depthstart> - <depthend> ftKB

Start (ftKB)	End Depth…	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100…	SO Str Wt (100…	Drill Str Wt (100…	Torque Units	Drilling Torque	Off Btm Tq

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/…	Max Open Hole AV (ft…

Casing Strings

Prop Run?	Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
No	Conductor	105.0	105.0	30	ERW	118.00		
No	Surface	4,345.0	4,344.6	13 3/8	K-55	68.00		
No	Intermediate	8,247.0		9 7/8	P-110	62.80	BTC	

Plug Back Total Depths

Date	Depth (ftKB)	Type	Method

Deviation Surveys

Tru-Trak, Proposed? No

Date	Description	Job
9/23/2010	Tru-Trak	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
11/20/2010	7,574.00	4.48		7,573.52				

Safety Summary

12/7/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Daily Drilling Report

Well Name: South Hills 6-1

Rig Name: NABORS DRILLING 169

Depth Progress: 0.00

REPORT DATE: 12/7/2010
REPORT: 103
DOL: 102
DFS: 76

Daily Summary

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
11/20/2010	7,668.00	4.04		7,667.52				
11/20/2010	7,763.00	3.25		7,762.52				
11/20/2010	7,925.00	4.59		7,924.50				
11/20/2010	8,227.00	2.72		8,226.45				

Safety Summary

12/7/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 12/8/2010
REPORT: 104
DOL: 103
DFS: 77

Rig Name: NABORS DRILLING 169

Depth Progress: 0.00

Daily Summary

Property Sub	Field Name	API/UWI	Spud Date
327560-001	WILDCAT	43-023-30021-0000	9/22/2010

KB-Ground Distance (ft)	Original KB Elevation (ft)	KB-Mud Line Distance (ft)
25.00	5,264.00	

Daily Operations

Target Depth (ftKB)	Target Depth (TVD) (ftKB)	End Depth (ftKB)	End Depth (TVD) (ftKB)
9,040.0		8,257.0	

Footage/Meterage (ft)	24 HR ROP (ft/hr)	Drilling Hours (hr)
0.00		

Avg Connection Gas	Avg Trip Gas	Avg Background Gas	Max Connection Gas	Max Trip Gas	Max Drill Gas

Operations at Report Time
Drilling shoe track @ 8,147'. (float collar).

Operations Summary
Bled off pressure (2,500 psi), from 9 7/8" casing, static. Released landing joint from Woodgroup hangar.
R/D Halliburton head,and Franks fill tool , bells, and elevators.
R/U Nabor's bells, and elevators. Installed Woodgroup packoff, and pressure tested same to 5,000 psi,
for 30 minutes, positive test. Installed wear bushing,and locked same.
Closed blind rams, and pressure tested 9 7/8" casing to 4,000 psi, for 30 minutes with Halliburton, no decrease in pressure, bleed off same slowly,and R/D Halliburton.
Note : Choke panel pressure gauge inoperable, Nabor's tool pusher, will repair .
P/U Baker Tru Trak BHA, and TIH with same.
Tagged TOC @ 8,126', drilled to 8,147', drilled cement, and top - bottom plugs.

Remarks
Notified Randy Knight with BLM @ 07:59 12/7/2010, of 9 7/8" casing " FIT" .
Verbal approval to proceed, emailed documentation after casing test.
Quote " I do not want to witness "FIT" or casing test ", I do want to witness,
BOP, and cementing operations, but always call my cell, if no answer at office .

Last survey : Tru-Track : 8,227' @ 2.72*.
Safety Meeting Topic: BOP drills .
Lithology: @ 8,255' , 40 % dolomite 60 % Shale.
Drill pipe on location : Hole : jts / Derrick & Mouse hole : jts / Racks : 168 jts./ Total of : 393 jts.
Visually checked reserve pits, choke manifold, flare line and BOP's , ok.
Acc. Manifold : 1,350 psi / Acc : 2,900 psi / Annular : 1,000 psi.
Total rotating hours on BHA, since last Inspection .: 15.5 hrs.
Total slide/drilling hours on BHA, since last Inspection .: 40.5 hrs.
Total rotating hours on Jars & Thruster since last replaced : 15.5 hrs
Total slide/drilling hours on Jars & Thruster since last replaced : 50 hrs
Note : Total oil base Mud lost to date : 4,507 bbls.
Note : Total oil base Mud lost last to the hole 24 - hrs. : 0 bbls.
Note : Sent 9 - jnts. of HWDP, 2 - 8"DC's, and 2 - 6 1/2" DC's, to Drilco to be repaired. (11-28-10)
Total down time today : 1 hrs. Total rig down time hours month of December : 3 hrs.
Fuel on location : 9900 gal. (66") 1500 gal. used the last 24 hrs.

Operations Next Report Period
Finish drilling shoe track + 10' of new formation, perform "FIT" to 14.0 ppg. EQMW.
Drill 8.5 " production hole, with Baker TruTrak BHA, monitoring all drilling parameters.

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com	Start Depth (ftKB)	End Depth (ftKB)
06:00	07:00	1.00	CMTP RI	PP	Finished WOC, total of 6 hours. Bled off 9 7/8" casing, from 2,500 psi, to 0 psi, static.	8,257.0	8,257.0
07:00	11:00	4.00	CSG	PP	Held Safety , and Operational meeting with Nabor's, Woodgroup, Franks,and Halliburton. Rigged down Halliburton cementing head,and Lines. Rigged down Franks, elevators, bell's, and fill tool. R/U Nabor's bells,and elevators.	8,257.0	8,257.0
11:00	12:00	1.00	WLHE AD	PP	Picked up Woodgroup pack off assembly & running tool, on a stand of hwdp, for weight. Installed pack off in proper position, and ran in lock down pins, per Woodgroup.	8,257.0	8,257.0
12:00	12:30	0.50	WLHE AD	PP	Woodgroup tech, pressure tested pack off, to 5,000 psi, for thirty minutes, per "BLM Specs', positive test, released pressure,and rigged down portable hydralic pump,and capped test port.	8,257.0	8,257.0
12:30	13:30	1.00	CSG	PP	Woodgroup tech directed,and assisted Nabor's crew , on proper installation of wear bushing, and lock pin procedure. Also painted four lock down pins to be utilized for future abstraction, and or installation of wear bushing.	8,257.0	8,257.0
13:30	15:30	2.00	CSG	PP	Held Safety , and Operational meeting with Halliburton, tested 9 7/8" intermediate casing, to 4,150 psi, with 9 barrels of test fluid , 8.33 ppg., fluid in casing (9.0 ppg. oil base mud). Held for thirty minutes, decreased 50 psi, (1 %) decrease in thrirty minutes. (Note : Tested with blinds closed & monitored on Swaco choke panel). Positive test, bled off pressure slowly. Rigged down Halliburton, and released .	8,257.0	8,257.0
15:30	16:00	0.50	SFTY	PP	Held Safety , and Operational meeting with Nabor's and Baker directional, on picking up Tru Trak BHA. Loaded out Woodgroup running tool, and all Halliburton equipment . Flushed choke line, and choke manifold with air to prevent freezing .	8,257.0	8,257.0
16:00	20:00	4.00	BHA	PP	Picked up Baker TruTrak " BHA ", and functioned tested same.	8,257.0	8,257.0

Total AFE + Sup (Cost)
14,064,000.00

AFE Job Cost Summary

Cost Type	AFE Amt (Cost)
DHC	12,600,000.00
CWC	1,464,000.00

Field Estimate Job Cost Summary

Cost Typ	Field Est (Cost)
DHC	10,507,909.01

Daily Summary

Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
262,011.40	11,839,651.46
Daily Mud Field Est (Cost)	**Cum Mud Field Est (Cost)**
3,165.02	1,306,563.32

POL (Personnel on Location)
23.0

Daily Contacts

Job Contact	Title
Mike Reel	Drilling Supt
Eric Burnett	Drilling Engineer
Bill Vigil	Drilling Foreman
Noah Dupuis	Drlg. Foreman

Personnel Log

Company	Count
PIONEER NATURAL RESOURCES	2
NABORS DRILLING INC	2
NABORS DRILLING INC	12
ZECO	2
SELMA	2
NEWPARK	1
BADLANDZER	2

Weather

Precipitation Amount (in)	Precipitation Type
Temperature - High (°F)	**Temperature - Low (°F)**

Comment

NABORS DRILLING, 169

Rig Type
Drilling - Triple

Rig Start Date	Rig Release Date
11/9/2010	

1, National Supply, 10-P-130

Pump Number
1

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)
3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

2, National Supply, 10-P-130

Pump Number
2

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)
3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

Job Supply Amounts

Supply Item Des	Unit Label	Received	Consumed	Cum On Loc

Mud Additive Amounts

Des	Consumed	Cum Cons
Bentone 910		470
BULK TANK	2	174
BULK TANK BLOWERS	2	152
Drum Disposal	16	102
Lime		900
MUD ENGINEER	1	87
MUD LAB	1	79
Pallets	12	151
Shrink Wrap	8	83
Tax	61	64,278
Trucking	1,587	128,115

Safety Summary

BOP Test Date	Last BOP Test	BOP Func Due	HSE Incident	HSE Inc Remark
29/Dec/2010	29/Nov/2010	12/Dec/2010	No	None.

12/8/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 12/8/2010
REPORT: 104
DOL: 103
DFS: 77

Rig Name: NABORS DRILLING 169

Depth Progress: 0.00

Daily Summary

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com	Start Depth (ftKB)	End Depth (ftKB)
20:00	02:00	6.00	TRIP	PP	TIH W/ DP to 8126' tag up with 5k, bring on pumps and wash down to 8147, tag up on top cement plug.	8,257.0	8,257.0
02:00	03:00	1.00	DRLC MT	PP	Drilling top cement plug, @ 8147', 5 - 10k WOB, pumps @ 72 X 72, 502 GPM, 2500 PSI, bit 90 RPM. getting some cement and top rubber plug over shakers. Note: Stop drililng on cement plugs due to loss of rig power. All three generator engines motors failed, no power.	8,257.0	8,257.0
03:00	04:00	1.00	U_RIG	PN	Trouble Shoot engines, did not determine problem, reported : possible fuel filter problem. Nabor's replaced fuel filters , able to start two engines, still attempting to crank third engine.	8,257.0	8,257.0
04:00	06:00	2.00	DRLC MT	PP	Drilling top cement plug, @ 8147', 5 - 14 K- WOB, pumps @ 72 X 72, 502 GPM, 2530 PSI, bit 90 RPM. noted cement and rubber plugs over shakers.	8,257.0	8,257.0

Mud Properties

Daily Cost: 3,165.02 Cost Cum Cost: 1,306,563.32 Cost

Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	T Flowline (°F)
04:00	Oil Base	8,257.0	9.30	119	

PV (cp)	YP (lbf/100ft²)	Filtrate (mL/30min)	HTHP Filtrate (mL/30…	HTHP Pressure (psi)	HTHP Temperature (°F)
11.0	20.000		2.0		250.0

Solids (%)	Sand (%)	MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)
10.0					

Chlorides (ppm)	Calcium (ppm)	Oil Water Ratio	Electric Stab (V)	Lime (lb/bbl)	Low Gravity Solids (%)
		83/17	944.0	4.9	4.3

Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Comment
15.000	17.000	

Bottom Hole Assembly

BHA Since Insp (hr)	BHA Wt BelowJar (1000lbf)	Hrs on Jars (hr)

BHA #26 , Steerable

Bit Run	Drill Bit	Bit Type	Make
13	8 1/2in, Q507FX, 7127225	PDC	Hughes

Nozzles (1/32")	IADC Codes	IADC Bit Dull
11/11/11/12/12/12/12	___	-------

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)
0.72		

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)
			8,257.0	8,257.0

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
1	6 3/4" Tru-Trak	7		30.89	1,093.26
1	Stop Sub	7	2.313	2.54	1,062.37
1	Filter Sub	6 3/4	3.000	5.68	1,059.83
1	Float Sub	6 3/4	2.875	3.13	1,054.15
1	Thruster	6 7/16	2.500	31.49	1,051.02
9	6 1/2 Drill Collars	6 1/2	2.875	276.70	1,019.53
1	XO Sub	6 3/8	2.813	3.57	742.83
18	5" HWDP	5	3.000	552.37	739.26
1	Drilling Jars	6 1/2	2.750	32.61	186.89
5	5" HWDP	5	3.000	153.28	154.28

Drilling Parameters

8,257.0 - 8,257.0 ftKB

Start (ftKB)	End Depth…	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note
8,257.0	8,257.0							

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100…	SO Str Wt (100…	Drill Str Wt (100…	Torque Units	Drilling Torque	Off Btm Tq

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/…	Max Open Hole AV (ft…

Casing Strings

Prop Run?	Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
No	Conductor	105.0	105.0	30	ERW	118.00		
No	Surface	4,345.0	4,344.6	13 3/8	K-55	68.00		
No	Intermediate	8,247.0		9 7/8	P-110	62.80	BTC	

Plug Back Total Depths

Date	Depth (ftKB)	Type	Method

Deviation Surveys

Tru-Trak, Proposed? No

Date	Description	Job
9/23/2010	Tru-Trak	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
11/20/2010	7,574.00	4.48		7,573.52				
11/20/2010	7,668.00	4.04		7,667.52				

Formations

Formation Name	Final Top MD (ftKB)
Quaternary	80.0
Tertiary Volcanic	1,300.0
Tertiary Undivided	1,830.0
North Horn	3,810.0
UNCONFORMITY	4,345.0
Arapien	4,345.0
FAULT	
Arapien	
Twin Creek	
Gypsum Sprgs Mbr	
Navajo	
Chinle	
TD	

Safety Summary

12/8/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 12/8/2010
REPORT: 104
DOL: 103
DFS: 77

Rig Name: NABORS DRILLING 169

Depth Progress: 0.00

Daily Summary

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
11/20/2010	7,763.00	3.25		7,762.52				
11/20/2010	7,925.00	4.59		7,924.50				
11/20/2010	8,227.00	2.72		8,226.45				

Safety Summary

12/8/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 12/9/2010
REPORT: 105
DOL: 104
DFS: 78

Rig Name: NABORS DRILLING 169

Depth Progress: 65.00

Daily Summary

Property Sub	Field Name	API/UWI	Spud Date
327560-001	WILDCAT	43-023-30021-0000	9/22/2010

KB-Ground Distance (ft)	Original KB Elevation (ft)	KB-Mud Line Distance (ft)
25.00	5,264.00	

Daily Operations

Target Depth (ftKB)	Target Depth (TVD) (ftKB)	End Depth (ftKB)	End Depth (TVD) (ftKB)
9,040.0		8,322.0	

Footage/Meterage (ft)	24 HR ROP (ft/hr)	Drilling Hours (hr)
65.00	4.2	15.50

Avg Connection Gas	Avg Trip Gas	Avg Background Gas	Max Connection Gas	Max Trip Gas	Max Drill Gas
63.00	59.00	23.00	63.00	59.00	92.00

Operations at Report Time
Drilling @ 8322

Operations Summary
Drill out cement from 8147'-8247', Clean out 12-1/4" shoe track to 8257', drill from 8257'-8267', circ, perform FIT to 14 ppg, drill from 8267'- 8322'

Remarks
BHA Rotating hrs, since last Inspection: 15.5 hrs.
BHA Slide/drlg hrs, since last Inspection: 56 hrs.
Jars/Thruster Slide/drlg hrs, since last replaced: 56 hrs

Total OBM lost to date: 4,507 bbls.
OBM lost last hole past 24 hrs: 0 bbls.

Rig down time today: 0 hrs. Total rig down time month of December: 3 hrs.
Fuel on location: 7200 gal., Used past 24 hrs: 2700 gal

Operations Next Report Period
Drill 8.5 ", with Baker TruTrak

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com	Start Depth (ftKB)	End Depth (ftKB)
06:00	08:30	2.50	DRLC MT	PP	Finish drlg cement plug, @ 8147', drill out cement to 8247', clean out 12-1/4" hole to 8257', pumps 70X70-60X60 spm, 488-418 gpm, 1950-1430 psi, WOB 0-5K, bit 97-83 rpm	8,257.0	8,257.0
08:30	09:15	0.75	SLDDR LG	PP	Slide drill from 8257'-8267', pumps 60X60-80X80spm, 418-558 gpm, 2010-3250 psi, WOB 10-15K, bit 83-111 rpm Drilled 10', .7 hrs, avg ROP 14.3'/hr	8,257.0	8,267.0
09:15	09:45	0.50	WA	PP	Circ, mwt stabilized @ 9.0 ppg	8,267.0	8,267.0
09:45	11:00	1.25	LKOFF	PP	Perform FIT @ 8267'. P/U to 8234', Close pipe rams. Pumped 1.41 bbls, press 520 psi. Pumped additional 5 bbls at .42 bbls/stop, for total of 12 readings. Max press 2130 psi. EMWT = 14.05+ ppg (with 9.1 ppg mwt). After 20 min, press bled down from 2130 to 1935 psi. Release press	8,267.0	8,267.0
11:00	11:30	0.50	DEVS UR	PP	Sync Tru-trak	8,267.0	8,267.0
11:30	18:30	7.00	SLDDR LG	PP	Slide drill from 8256'-8294', pumps 80X80 spm, 558 gpm, 3250 psi, WOB 10-21K, bit 111 rpm Drilled 38', 6.9 hrs, avg ROP 5.5'/hr Repair #1 mud pump discharge valve cap & charger pump Running #2 & #3 mud pumps Block position, depth read-out on scroll graph & ROP feet/hr, stopped @ 8286', 13:54, drill TDS down to floor	8,267.0	8,294.0
18:30	19:00	0.50	RIGSE R	PP	#3 pump, blowing mud at pop-off flange, discharge pop-off flange is washed, called out for welder to get parts in am and repair. Can not run #3 pump until repairs are made. finish repairing charger pump packing on #1 mud pump	8,294.0	8,294.0
19:00	21:45	2.75	SLDDR LG	PP	Slide drill from 8294'-8299', pumps 80X80 spm, 558 gpm, 3250 psi, WOB 10-21K, bit 111 rpm Drilled 5', 1.9 hrs, avg ROP 2.6'/hr Running #1 &# 2 mud pumps. Survey depth: 8273' 2.29* Block position, depth read-out on scroll graph & ROP feet/hr, stopped @ 8286', 13:54, drill TDS down to floor	8,294.0	8,299.0
21:45	22:15	0.50	RIGSE R	PP	Service TDS, Caliper Block position, depth read-out on scroll graph & ROP depth/hr	8,299.0	8,299.0
22:15	06:00	7.75	SLDDR LG	PP	Slide drill from 8299'-8322', pumps 78X78 spm, 558 gpm, 3070 psi, WOB 10-21K, bit 111 rpm Drilled 23', 7.5 hrs, avg ROP 3'/hr Drilling break: 8307' to 8315', Lithology 8310' : 70% Dolomite, 15% Limestone, 10% Shale, 5% Sandstone. Running #1 &# 2 mud pumps. Welder called out to get parts and repair #3 pop off flange.	8,299.0	8,322.0

Total AFE + Sup (Cost)
14,064,000.00

AFE Job Cost Summary

Cost Type	AFE Amt (Cost)
DHC	12,600,000.00
CWC	1,464,000.00

Field Estimate Job Cost Summary

Cost Typ	Field Est (Cost)
DHC	10,569,641.88

Daily Summary

Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
64,323.24	11,903,974.70
Daily Mud Field Est (Cost)	**Cum Mud Field Est (Cost)**
2,590.37	1,309,153.69

POL (Personnel on Location)
26.0

Daily Contacts

Job Contact	Title
Mike Reel	Drilling Supt
Eric Burnett	Drilling Engineer
Bill Vigil	Drilling Foreman
Dean Baker	Sr. Drlg. Foreman

Personnel Log

Company	Count
PIONEER NATURAL RESOURCES	2
NABORS DRILLING INC	2
NABORS DRILLING INC	12
ZECO	2
SELMA	2
NEWPARK	1
BADLANDZER	2
BAKER HUGHES	2
Pioneer Natural Resources	1

Weather

Precipitation Amount (in)	Precipitation Type
0.000	Snow
Temperature - High (°F)	**Temperature - Low (°F)**
0.0	-40.0

Comment
wind is a howling & snow is a blowing side ways

NABORS DRILLING, 169

Rig Type
Drilling - Triple

Rig Start Date	Rig Release Date
11/9/2010	

1, National Supply, 10-P-130

Pump Number
1

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)
3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)
No	110.0	40	133	95
No	210.0	50	166	95
No	310.0	60	199	95

2, National Supply, 10-P-130

Pump Number
2

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)
3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)
Yes	310.0	60	199	95
Yes	100.0	40	133	95
Yes	210.0	50	166	95

3, Continental Emsco, F-1000

Pump Number
3

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)
3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

Safety Summary

BOP Test Date	Last BOP Test	BOP Func Due	HSE Incident	HSE Inc Remark
29/Dec/2010	29/Nov/2010	12/Dec/2010	No	None

12/9/2010

PIONEER NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 12/9/2010
REPORT: 105
DOL: 104
DFS: 78

Rig Name: NABORS DRILLING 169

Depth Progress: 65.00

Daily Summary

Mud Properties

Daily Cost: 2,590.37 Cost Cum Cost: 1,309,153.69 Cost

Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	T Flowline (°F)
03:30	Oil Base	8,315.0	9.00	52	

PV (cp)	YP (lbf/100ft²)	Filtrate (mL/30min)	HTHP Filtrate (mL/30…	HTHP Pressure (psi)	HTHP Temperature (°F)
17.0	10.000		2.0		250.0

Solids (%)	Sand (%)	MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)
10.0					

Chlorides (ppm)	Calcium (ppm)	Oil Water Ratio	Electric Stab (V)	Lime (lb/bbl)	Low Gravity Solids (%)
		83/17	961.0	4.9	6.5

Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Comment
10.000	11.000	

Bottom Hole Assembly

BHA Since Insp (hr)	BHA Wt BelowJar (1000lbf)	Hrs on Jars (hr)

BHA #26 , Steerable

Bit Run	Drill Bit	Bit Type	Make
13	8 1/2in, Q507FX, 7127225	PDC	Hughes

Nozzles (1/32")	IADC Codes	IADC Bit Dull
11/11/11/12/12/12/12	___	-------

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)
0.72	15.50	65.00

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)
15.50	65.00	4.2	8,257.0	8,322.0

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
1	6 3/4" Tru-Trak	7		30.89	1,093.26
1	Stop Sub	7	2.313	2.54	1,062.37
1	Filter Sub	6 3/4	3.000	5.68	1,059.83
1	Float Sub	6 3/4	2.875	3.13	1,054.15
1	Thruster	6 7/16	2.500	31.49	1,051.02
9	6 1/2 Drill Collars	6 1/2	2.875	276.70	1,019.53
1	XO Sub	6 3/8	2.813	3.57	742.83
18	5" HWDP	5	3.000	552.37	739.26
1	Drilling Jars	6 1/2	2.750	32.61	186.89
5	5" HWDP	5	3.000	153.28	154.28

Drilling Parameters

8,257.0 - 8,322.0 ftKB

Start (ftKB)	End Depth…	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note
8,257.0	8,322.0	4.2	20		200.0	558	3,000.0	

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100…	SO Str Wt (100…	Drill Str Wt (100…	Torque Units	Drilling Torque	Off Btm Tq
15.50	2.00	211	208	211			

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/…	Max Open Hole AV (ft…

Casing Strings

Prop Run?	Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
No	Conductor	105.0	105.0	30	ERW	118.00		
No	Surface	4,345.0	4,344.6	13 3/8	K-55	68.00		
No	Intermediate	8,247.0		9 7/8	P-110	62.80	BTC	

Plug Back Total Depths

Date	Depth (ftKB)	Type	Method

Deviation Surveys

Tru-Trak, Proposed? No

Date	Description	Job
9/23/2010	Tru-Trak	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
11/20/2010	7,668.00	4.04		7,667.52				
11/20/2010	7,763.00	3.25		7,762.52				
11/20/2010	7,925.00	4.59		7,924.50				
11/20/2010	8,227.00	2.72		8,226.45				
11/20/2010	8,237.00	2.29		8,236.45				

<des>, Proposed? <proposed>

Date	Description	Job

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)

Job Supply Amounts

Supply Item Des	Unit Label	Received	Consumed	Cum On Loc
Diesel Fuel	gal us	10,000	100	9,900

Mud Additive Amounts

Des	Consumed	Cum Cons
BULK TANK	2	176
BULK TANK BLOWERS	2	154
MUD ENGINEER	1	88
MUD LAB	1	80
Opti-Mul	1	58
Opti-Plus	1	45
Opti-Thin	1	6
Tax	118	64,396

Formations

Formation Name	Final Top MD (ftKB)
Quaternary	80.0
Tertiary Volcanic	1,300.0
Tertiary Undivided	1,830.0
North Horn	3,810.0
UNCONFORMITY	4,345.0
Arapien	4,345.0
FAULT	
Arapien	
Twin Creek	
Gypsum Sprgs Mbr	
Navajo	
Chinle	
TD	

Safety Summary

12/9/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 12/10/2010
REPORT: 106
DOL: 105
DFS: 79

Rig Name: NABORS DRILLING 169

Depth Progress: 16.00

Daily Summary

Property Sub	Field Name	API/UWI	Spud Date
327560-001	WILDCAT	43-023-30021-0000	9/22/2010

KB-Ground Distance (ft)	Original KB Elevation (ft)	KB-Mud Line Distance (ft)
25.00	5,264.00	

Daily Operations

Target Depth (ftKB)	Target Depth (TVD) (ftKB)	End Depth (ftKB)	End Depth (TVD) (ftKB)
9,040.0		8,338.0	

Footage/Meterage (ft)	24 HR ROP (ft/hr)	Drilling Hours (hr)
16.00	2.1	7.75

Avg Connection Gas	Avg Trip Gas	Avg Background Gas	Max Connection Gas	Max Trip Gas	Max Drill Gas
		5.00			

Operations at Report Time
TIH with Reed 8 1/2" insert @ 6400'

Operations Summary
Drill from 8322'-8338'. Circulate bottoms up, TOH for bit change, Slip and Cut 91' of drill line. TIH W/ 8 1/2" Reed insert bit and BHA #27.

Remarks
BHA Rotating hrs, since last Inspection: 20.6 hrs.
BHA Slide/drlg hrs, since last Inspection: 61.1

Total OBM lost to date: 4,507 bbls.
OBM lost last hole past 24 hrs: 0 bbls.

Baker Hughes Check Shot: 8305', 1.41 deg
BOP drill when TOOH @ 4524'

Note: Stand by pump discharge line repaired.

Rig down time today: 0 hrs. Total rig down time month of December: 3 hrs.

Operations Next Report Period
Drill 8.5 ", with Baker TruTrak

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com	Start Depth (ftKB)	End Depth (ftKB)
06:00	08:00	2.00	SLDDR LG	PP	Slide drill from 8322'-8329', pumps 78X78-85X85 spm, 558-593 gpm, 3070-3275 psi, WOB 21-30K, bit 111-118 rpm Drilled 7, 1.4 hrs, avg ROP 5'/hr Running #1 &# 2 mud pumps. Waiting on Welder to repair pump #3 pop off flange.	8,322.0	8,329.0
08:00	08:30	0.50	RIGSE R	PP	Changed leaking cap gasket on #1 mud pump. #3 Cat, D-399, overheating, power wash radiator, trouble shoot radiator over heating problem	8,329.0	8,329.0
08:30	13:15	4.75	SLDDR LG	PP	Slide drill from 8329'-8337', 1-2 pumps, 110-130-160 spm, 384-453-558 gpm, 1690-2430-3265 psi, WOB 12-30K, bit 77-90-112 rpm Drilled 8', 3.1 hrs, avg ROP 2.6'/hr Slide drill from 8329'-8332', 1 pump, 110 spm, 384 gpm, 1690 psi, WOB 12-21K, bit 77 rpm Slide drill from 8332'-8333', 2 pumps, 130 spm, 453 gpm, 2430 psi, WOB 21-30K, bit 90 rpm Slide drill from 8333'-8337', 2 pumps, 160 spm, 558 gpm, 3175 psi, WOB, 18-31K, bit 112 rpm Lithology 8230': 80% Dolomite, 10% Limestone, 10% Shale Continue working on #3, Cat radiator, until 8333', 10:30 hrs	8,329.0	8,337.0
13:15	14:15	1.00	ROTD RLG	PP	Rotate drill from 8337'-8338', retract ribs, 2 pumps, 160 spm, 558 gpm, 3285 psi, WOB 25-31K, TDS 25 rpm, motor 112 rpm (total bit rpm 137 rpm) Bit drilled 1', .6 hrs.	8,337.0	8,338.0
14:15	15:15	1.00	CIRSM P	PP	Circ hole for samples Lithology 8335': 60% Dolomite, 10% Shale, 20% Anhydrite, 5% Lime, 5% Sand	8,338.0	8,338.0
15:15	20:30	5.25	TRIP	PP	TOOH from 8338'-1100', Well static, Pump slug, POOH to 4519', pull rotating head bushing, install trip nipple (.75 hrs), TOOH to 1100'	8,338.0	8,338.0
20:30	22:00	1.50	BHA	PP	TOOH BHA, from 1100'-bit. Bit was "green" 7 chipped cutters on shoulder. Note: Stand by pump repaired.	8,338.0	8,338.0
22:00	00:00	2.00	BHA	PP	MU new 8 1/2" Reed insert bit, & TIH with BHA to 1188'. Test Tru-Trak, test ok.	8,338.0	8,338.0
00:00	02:30	2.50	CUTDL	PP	Slip and cut 91' of drilling line.	8,338.0	8,338.0
02:30	06:00	3.50	TRIP	PP	TIH W/ DP to 6400' Remove Trip Nipple, and install Rotating head 1290' (.75 hrs)	8,338.0	8,338.0

Total AFE + Sup (Cost): 14,234,000.00

AFE Job Cost Summary

Cost Type	AFE Amt (Cost)
DHC	12,770,000.00
CWC	1,464,000.00

Field Estimate Job Cost Summary

Cost Typ	Field Est (Cost)
DHC	10,661,506.11

Daily Summary

Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
104,928.46	12,008,903.16
Daily Mud Field Est (Cost)	**Cum Mud Field Est (Cost)**
13,064.23	1,322,217.92

POL (Personnel on Location): 26.0

Daily Contacts

Job Contact	Title
Mike Reel	Drilling Supt
Eric Burnett	Drilling Engineer
Bill Vigil	Drilling Foreman
Dean Baker	Sr. Drlg. Foreman

Personnel Log

Company	Count
PIONEER NATURAL RESOURCES	2
NABORS DRILLING INC	2
NABORS DRILLING INC	12
ZECO	2
SELMA	2
NEWPARK	1
BADLANDZER	2
BAKER HUGHES	2
Pioneer Natural Resources	1

Weather

Precipitation Amount (in)	Precipitation Type
Temperature - High (°F)	**Temperature - Low (°F)**

Comment

NABORS DRILLING, 169

Rig Type: Drilling - Triple

Rig Start Date	Rig Release Date
11/9/2010	

1, National Supply, 10-P-130

Pump Number: 1

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi): 3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

2, National Supply, 10-P-130

Pump Number: 2

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi): 3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

3, Continental Emsco, F-1000

Pump Number: 3

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi): 3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

Job Supply Amounts

Supply Item Des	Unit Label	Received	Consumed	Cum On Loc
Diesel Fuel	gal us	2,250	2,025	7,425

Mud Additive Amounts

Des	Consumed	Cum Cons
Bentone 910	30	500

Safety Summary

BOP Test Date	Last BOP Test	BOP Func Due	HSE Incident	HSE Inc Remark
29/Dec/2010	29/Nov/2010	12/Dec/2010		

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 12/10/2010
REPORT: 106
DOL: 105
DFS: 79

Rig Name: NABORS DRILLING 169

Depth Progress: 16.00

Daily Summary

Mud Properties

Daily Cost: 13,064.23 Cost Cum Cost: 1,322,217.92 Cost

Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	T Flowline (°F)
03:30	Oil Base	8,338.0	9.00	53	

PV (cp)	YP (lbf/100ft²)	Filtrate (mL/30min)	HTHP Filtrate (mL/30…	HTHP Pressure (psi)	HTHP Temperature (°F)
17.0	10.000		2.0		250.0

Solids (%)	Sand (%)	MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)
10.0					

Chlorides (ppm)	Calcium (ppm)	Oil Water Ratio	Electric Stab (V)	Lime (lb/bbl)	Low Gravity Solids (%)
		83/17	1021.0	5.1	6.5

Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Comment
10.000	11.000	

Bottom Hole Assembly

BHA Since Insp (hr)	BHA Wt BelowJar (1000lbf)	Hrs on Jars (hr)

BHA #26 , Steerable

Bit Run	Drill Bit	Bit Type	Make
13	8 1/2in, Q507FX, 7127225	PDC	Hughes

Nozzles (1/32")	IADC Codes	IADC Bit Dull
11/11/11/12/12/12/12	___	0-1-CT-S----ROP

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)
0.72	23.25	81.00

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)
23.25	81.00	3.5	8,257.0	8,338.0

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
1	6 3/4" Tru-Trak	7		30.89	1,093.26
1	Stop Sub	7	2.313	2.54	1,062.37
1	Filter Sub	6 3/4	3.000	5.68	1,059.83
1	Float Sub	6 3/4	2.875	3.13	1,054.15
1	Thruster	6 7/16	2.500	31.49	1,051.02
9	6 1/2 Drill Collars	6 1/2	2.875	276.70	1,019.53
1	XO Sub	6 3/8	2.813	3.57	742.83
18	5" HWDP	5	3.000	552.37	739.26
1	Drilling Jars	6 1/2	2.750	32.61	186.89
5	5" HWDP	5	3.000	153.28	154.28

Drilling Parameters

8,322.0 - 8,338.0 ftKB

Start (ftKB)	End Depth…	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note
8,322.0	8,338.0	2.1	20		200.0	558	3,285.0	

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100…	SO Str Wt (100…	Drill Str Wt (100…	Torque Units	Drilling Torque	Off Btm Tq
7.75	2.00	211	208	211			

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/…	Max Open Hole AV (ft…

BHA #27 , Steerable

Bit Run	Drill Bit	Bit Type	Make
14	8 1/2in, M-4377PDH, WC6214	Insert	Reed

Nozzles (1/32")	IADC Codes	IADC Bit Dull
24/24/24	617	-------

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)
1.33		

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)
			8,338.0	

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
1	6 3/4" Tru-Trak	7		30.89	1,092.26
1	Stop Sub	7	2.313	2.54	1,061.37
1	Filter Sub	6 3/4	3.000	5.68	1,058.83
1	Float Sub	6 3/4	2.875	3.13	1,053.15
1	Thruster	6 7/16	2.500	31.49	1,050.02
9	6 1/2 Drill Collars	6 1/2	2.875	276.70	1,018.53
1	XO Sub	6 3/8	2.813	3.57	741.83
18	5" HWDP	5	3.000	552.37	738.26
1	Drilling Jars	6 1/2	2.750	32.61	185.89
5	5" HWDP	5	3.000	153.28	153.28

Drilling Parameters

8,338.0 - <depthend> ftKB

Start (ftKB)	End Depth…	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note
8,338.0								

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100…	SO Str Wt (100…	Drill Str Wt (100…	Torque Units	Drilling Torque	Off Btm Tq

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/…	Max Open Hole AV (ft…

Casing Strings

Prop Run?	Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
No	Conductor	105.0	105.0	30	ERW	118.00		
No	Surface	4,345.0	4,344.6	13 3/8	K-55	68.00		
No	Intermediate	8,247.0		9 7/8	P-110	62.80	BTC	

Plug Back Total Depths

Date	Depth (ftKB)	Type	Method

Mud Additive Amounts

Des	Consumed	Cum Cons
BULK TANK	2	178
BULK TANK BLOWERS	2	156
GSX-509	6	71
MUD ENGINEER	1	89
MUD LAB	1	81
New Bar (Ton/bulk)	3	268
Opti-Clean	2	8
Opti-Mul	4	62
Opti-Plus	4	49
OptiVis RM	6	90
Soda Ash	6	28
Tax	650	65,046
Trucking	1,080	129,195
Wallnut Shell M	9	790

Formations

Formation Name	Final Top MD (ftKB)
Quaternary	80.0
Tertiary Volcanic	1,300.0
Tertiary Undivided	1,830.0
North Horn	3,810.0
UNCONFORMITY	4,345.0
Arapien	4,345.0
FAULT	
Arapien	
Twin Creek	
Gypsum Sprgs Mbr	
Navajo	
Chinle	
TD	

Safety Summary

12/10/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 12/10/2010
REPORT: 106
DOL: 105
DFS: 79

Rig Name: NABORS DRILLING 169

Depth Progress: 16.00

Daily Summary

Deviation Surveys

Tru-Trak, Proposed? No

Date	Description	Job
9/23/2010	Tru-Trak	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
11/20/2010	7,668.00	4.04						
11/20/2010	7,763.00	3.25						
11/20/2010	7,925.00	4.59						
11/20/2010	8,227.00	2.72						
11/20/2010	8,237.00	2.29						

Dipmeter, Proposed? No

Date	Description	Job
12/7/2010	Dipmeter	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
12/7/2010	8,100.00	2.78	287.01	8,096.64	89.47	-16.89	-88.04	2.39
12/7/2010	8,130.00	2.64	308.37	8,126.61	90.62	-16.25	-89.28	3.38
12/7/2010	8,160.00	3.39	321.22	8,156.57	91.56	-15.13	-90.37	3.35
12/7/2010	8,190.00	3.97	322.34	8,186.51	92.55	-13.61	-91.56	1.95
12/7/2010	8,220.00	4.37	314.17	8,216.43	93.79	-11.99	-93.02	2.38

Safety Summary

12/10/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 12/11/2010
REPORT: 107
DOL: 106
DFS: 80

Rig Name: NABORS DRILLING 169

Depth Progress: 57.00

Daily Summary

Property Sub	Field Name	API/UWI	Spud Date
327560-001	WILDCAT	43-023-30021-0000	9/22/2010

KB-Ground Distance (ft)	Original KB Elevation (ft)	KB-Mud Line Distance (ft)
25.00	5,264.00	

Daily Operations

Target Depth (ftKB)	Target Depth (TVD) (ftKB)	End Depth (ftKB)	End Depth (TVD) (ftKB)
9,040.0		8,395.0	

Footage/Meterage (ft)	24 HR ROP (ft/hr)	Drilling Hours (hr)
57.00	3.1	18.50

Avg Connection Gas	Avg Trip Gas	Avg Background Gas	Max Connection Gas	Max Trip Gas	Max Drill Gas
	16.00	8.00		16.00	17.00

Operations at Report Time
Slide drilling 8 1/2" hole

Operations Summary
Finish TIH from 6400'-8338'. Pattern new bit. Slide drill 8338' to 8395'.

Remarks
BHA Rotating hrs, since last Inspection: 21.9
BHA Slide/drlg hrs, since last Inspection: 19.6

Total OBM lost to date: 4,520 bbls.
OBM lost last hole past 24 hrs: 13 bbls.

Lithology 8380'-8390': 35% Anhydrite/Gypsum, 25% Dolomite, 10% Limestone, 25% Sandstone, 5% Shale

Baker Hughes Check Shot: 8361', 0.62 deg

Rig down time today: 0 hrs. Total rig down time month of December: 3 hrs.

Operations Next Report Period
Drill 8.5 ", with Baker TruTrak

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com	Start Depth (ftKB)	End Depth (ftKB)
06:00	07:30	1.50	TRIP	PP	Finish TIH from 6400' to 8206', fill pipe	8,338.0	8,338.0
07:30	09:00	1.50	RMWASH	PP	Wash from 8247'-8338', pumps 50X50 to 70X70 spm, 349-488 gpm, 1280-2315 psi, WOB 0-15K, TDS 20-30 rpm, Wash from 8247'-8276', set down 25K, pumps 50X50 spm, 349 gpm, 1280 psi P/U to 8255', Wash & Ream from 8255'-8278', TDS 18 rpm, set down 15K at 8278' Wash & ream 8278'-8282', inc pumps to 60X60 spm, 419 gpm, 2085 psi, inc TDS 20 rpm, WOB 0-10K, Torque 0-6Kft/lbs Backream/wash & ream/wash 8282-8278'-8282', 2 times, no drag Wash/ream 8282'-8316', no hole issues, set down 15K @ 8316' Wash/ream 8316'-8318', inc pumps to 70X70 spm, 488 gpm, 2300 psi, TDS 30 rpm, WOB 0-8K, Torque 0-4Kft/lbs Wash/ream 8318'-8338', no hole issues Backream/wash & ream/wash 8338'-8296'-8338', no hole issues Lithology: 8275'-8320', 25%+/- Sh, 70-75% +/-Dolo, 5% +/-LmStn	8,338.0	8,338.0
09:00	05:00	20.00	SLDDRLG	PP	Slide drill from 8338'-8393', pumps 70X70-90X90 spm, 488-628 gpm, 2130-3335 psi, WOB 5-35K, Bit rpm 97-126 Drilled 55', 20 hrs, avg ROP 2.75'/hr. Hole is free and clear no drag when pulling string off bottom. Break bit in, WOB 5-25K, bit 97-112 rpm, 30 minutes Slide drill from 8338'-8393', pumps, 70X70-90X90 spm, 384 gpm, 1690 psi, WOB 12-21K, bit 77 rpm Slide drill from 8332'-8333', 2 pumps, 130 spm, 453 gpm, 2430 psi, WOB 21-30K, bit 90 rpm Slide drill from 8333'-8337', 2 pumps, 160 spm, 558 gpm, 3175 psi, WOB, 18-31K, bit 112 rpm Closed Tru-Trak ribs and tried to slide for better ROP, 8383' to 8391', no change in ROP. 22:00-2:00 hrs. ROP drop at 8380' 1-2'/hr. Lithology 8360', 8370': 75% Sd (red bed), 10% Dolomite, 5% Sh, 5% Limestone, 5% Gypsum. Lithology 8380'-8390': 35% Anhydrite/Gypsum, 25% Dolomite, 10% Limestone, 25% Sandstone, 5% Shale	8,338.0	8,393.0
05:00	05:30	0.50	ROTDRLG	PP	Rotate Drilling 8393' to 8394', 90X90, 628 GPM, 3270 PSI, 28-34k WOB, 21 RPM on TDS.	8,393.0	8,394.0

Total AFE + Sup (Cost)
14,234,000.00

AFE Job Cost Summary

Cost Type	AFE Amt (Cost)
DHC	12,770,000.00
CWC	1,464,000.00

Field Estimate Job Cost Summary

Cost Typ	Field Est (Cost)
DHC	10,782,249.43

Daily Summary

Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
129,024.64	12,137,927.80
Daily Mud Field Est (Cost)	**Cum Mud Field Est (Cost)**
8,281.32	1,330,499.24

POL (Personnel on Location)
26.0

Daily Contacts

Job Contact	Title
Mike Reel	Drilling Supt
Eric Burnett	Drilling Engineer
Bill Vigil	Drilling Foreman
Dean Baker	Sr. Drlg. Foreman

Personnel Log

Company	Count
PIONEER NATURAL RESOURCES	2
NABORS DRILLING INC	2
NABORS DRILLING INC	12
ZECO	2
SELMA	2
NEWPARK	1
BADLANDZER	2
BAKER HUGHES	2
Pioneer Natural Resources	1

Weather

Precipitation Amount (in)	Precipitation Type
Temperature - High (°F)	**Temperature - Low (°F)**

Comment

NABORS DRILLING, 169

Rig Type
Drilling - Triple

Rig Start Date	Rig Release Date
11/9/2010	

1, National Supply, 10-P-130

Pump Number
1

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)
3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

2, National Supply, 10-P-130

Pump Number
2

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)
3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

3, Continental Emsco, F-1000

Pump Number
3

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)
3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

Job Supply Amounts

Supply Item Des	Unit Label	Received	Consumed	Cum On Loc
Diesel Fuel	gal us	3,600	2,950	8,075

Mud Additive Amounts

Des	Consumed	Cum Cons
Bentone 910	6	506

Safety Summary

BOP Test Date	Last BOP Test	BOP Func Due	HSE Incident	HSE Inc Remark
29/Dec/2010	29/Nov/2010	12/Dec/2010	No	None.

PIONEER NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 12/11/2010
REPORT: 107
DOL: 106
DFS: 80

Rig Name: NABORS DRILLING 169

Depth Progress: 57.00

Daily Summary

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com	Start Depth (ftKB)	End Depth (ftKB)
05:30	06:00	0.50	SLDDR LG	PP	Slide drill from 8394'-8395', pumps 90X90 spm, 628 gpm, 3235 psi, WOB 25-35K, Bit rpm 126 Hole is free and clear no drag when pulling string off bottom.	8,394.0	8,395.0

Mud Properties

Daily Cost: 8,281.32 Cost Cum Cost: 1,330,499.24 Cost

Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	T Flowline (°F)
03:30	Oil Base	8,389.0	9.00	53	173.3

PV (cp)	YP (lbf/100ft²)	Filtrate (mL/30min)	HTHP Filtrate (mL/30…	HTHP Pressure (psi)	HTHP Temperature (°F)
17.0	10.000		2.0		250.0

Solids (%)	Sand (%)	MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)
10.0					

Chlorides (ppm)	Calcium (ppm)	Oil Water Ratio	Electric Stab (V)	Lime (lb/bbl)	Low Gravity Solids (%)
		83/17	1030.0	5.2	6.5

Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Comment
10.000	11.000	

Bottom Hole Assembly

BHA Since Insp (hr)	BHA Wt BelowJar (1000lbf)	Hrs on Jars (hr)

BHA #27 , Steerable

Bit Run	Drill Bit	Bit Type	Make
14	8 1/2in, M-4377PDH, WC6214	Insert	Reed

Nozzles (1/32")	IADC Codes	IADC Bit Dull
24/24/24	617	-------

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)
1.33	18.50	57.00

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)
18.50	57.00	3.1	8,338.0	8,395.0

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
1	6 3/4" Tru-Trak	7		30.89	1,092.26
1	Stop Sub	7	2.313	2.54	1,061.37
1	Filter Sub	6 3/4	3.000	5.68	1,058.83
1	Float Sub	6 3/4	2.875	3.13	1,053.15
1	Thruster	6 7/16	2.500	31.49	1,050.02
9	6 1/2 Drill Collars	6 1/2	2.875	276.70	1,018.53
1	XO Sub	6 3/8	2.813	3.57	741.83
18	5" HWDP	5	3.000	552.37	738.26
1	Drilling Jars	6 1/2	2.750	32.61	185.89
5	5" HWDP	5	3.000	153.28	153.28

Drilling Parameters

8,338.0 - 8,395.0 ftKB

Start (ftKB)	End Depth…	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note
8,338.0	8,395.0	3.1	35		200.0	628	3,270.0	

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100…	SO Str Wt (100…	Drill Str Wt (100…	Torque Units	Drilling Torque	Off Btm Tq
18.50	3.00	211	205				

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/…	Max Open Hole AV (ft…

Casing Strings

Prop Run?	Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
No	Conductor	105.0	105.0	30	ERW	118.00		
No	Surface	4,345.0	4,344.6	13 3/8	K-55	68.00		
No	Intermediate	8,247.0		9 7/8	P-110	62.80	BTC	

Plug Back Total Depths

Date	Depth (ftKB)	Type	Method

Deviation Surveys

Tru-Trak, Proposed? No

Date	Description	Job
9/23/2010	Tru-Trak	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
11/20/2010	7,668.00	4.04						
11/20/2010	7,763.00	3.25						
11/20/2010	7,925.00	4.59						
11/20/2010	8,227.00	2.72						
11/20/2010	8,237.00	2.29						

Dipmeter, Proposed? No

Date	Description	Job
12/7/2010	Dipmeter	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
12/7/2010	8,100.00	2.78	287.01	8,096.64	89.47	-16.89	-88.04	2.39
12/7/2010	8,130.00	2.64	308.37	8,126.61	90.62	-16.25	-89.28	3.38
12/7/2010	8,160.00	3.39	321.22	8,156.57	91.56	-15.13	-90.37	3.35
12/7/2010	8,190.00	3.97	322.34	8,186.51	92.55	-13.61	-91.56	1.95

Mud Additive Amounts

Des	Consumed	Cum Cons
BULK TANK	2	180
BULK TANK BLOWERS	2	158
Fiber Fluid Cor		1,166
Lime	10	910
MUD ENGINEER	1	90
MUD LAB	1	82
Opti-Clean	1	9
OptiDrill OBM (1 bbl/bulk)	13	4,284
Opti-Mul	2	64
Opti-Plus	2	51
OptiVis RM	3	93
Pallets	8	159
Shrink Wrap	8	91
Tax	379	65,425
Trucking	1,083	130,278

Formations

Formation Name	Final Top MD (ftKB)
Quaternary	80.0
Tertiary Volcanic	1,300.0
Tertiary Undivided	1,830.0
North Horn	3,810.0
UNCONFORMITY	4,345.0
Arapien	4,345.0
FAULT	
Arapien	
Twin Creek	
Gypsum Sprgs Mbr	
Navajo	
Chinle	
TD	

Safety Summary

12/11/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Daily Drilling Report

Well Name: South Hills 6-1

Rig Name: NABORS DRILLING 169

Depth Progress: 57.00

REPORT DATE:	12/11/2010
REPORT:	107
DOL:	106
DFS:	80

Daily Summary

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
12/7/2010	8,220.00	4.37	314.17	8,216.43	93.79	-11.99	-93.02	2.38

Safety Summary

12/11/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 12/12/2010
REPORT: 108
DOL: 107
DFS: 81

Rig Name: NABORS DRILLING 169

Depth Progress: -8,395.00

Daily Summary

Property Sub	Field Name	API/UWI	Spud Date
327560-001	WILDCAT	43-023-30021-0000	9/22/2010

KB-Ground Distance (ft)	Original KB Elevation (ft)	KB-Mud Line Distance (ft)
25.00	5,264.00	

Daily Operations

Target Depth (ftKB)	Target Depth (TVD) (ftKB)	End Depth (ftKB)	End Depth (TVD) (ftKB)
9,040.0		8,395.0	

Footage/Meterage (ft)	24 HR ROP (ft/hr)	Drilling Hours (hr)
-8,395.00		

Avg Connection Gas	Avg Trip Gas	Avg Background Gas	Max Connection Gas	Max Trip Gas	Max Drill Gas
		14.00			

Operations at Report Time
8304' Wash and Ream to bottom

Operations Summary
Could not get bit to drill, rig service, TOOH, PU Security 6 blade PDC, MU BHA and TIH, wash to bottom

Remarks
BHA Rotating hrs, since last Inspection: 26.9
BHA Slide/drlg hrs, since last Inspection: 22.7

Total OBM lost to date: 4,520 bbls.
OBM lost last hole past 24 hrs: 0 bbls.

Operations Next Report Period
Drill 8.5 ", with Baker TruTrak

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com	Start Depth (ftKB)	End Depth (ftKB)
06:00	06:30	0.50			Could not rotate drill from 8395' to 8395', pumps 90X90 spm, 628 GPM, 3270 PSI, 34-38k WOB, TDS 21 rpm, Torque 2100K ft/lbs. Bit would not drill.	8,395.0	8,395.0
06:30	07:00	0.50	CIRSMP	PP	Circ bottoms up, BHI survey @ 8368', .79 deg Pre-mix slug. Lithology: 45% Dolomite, 20% Anhydrite Gyp, 20% SS (red bed shale), 15% Sh	8,395.0	8,395.0
07:00	07:30	0.50	RIGSER	PP	Rig Service -- crown & TDS,	8,395.0	8,395.0
07:30	08:45	1.25	TRIP	PP	Pump Slug, & TOOH from 8395'-6862'	8,395.0	8,395.0
08:45	09:15	0.50	RISER	PP	Change slip dies	8,395.0	8,395.0
09:15	12:00	2.75	TRIP	PP	TOOH from 6862'-282'	8,395.0	8,395.0
12:00	13:00	1.00	BHA	PP	POOH from 282'-bit, Pull rotating head assm (.25 min), POOH w/ DC's Bt in excellent condition, teeth were 1,1	8,395.0	8,395.0
13:00	14:00	1.00	BHA	PP	Break bit, break-out filter sub, filter was clean, M/U sub, check Tru-Trak (1 rib possible issue with not opening fully), break-out, L/D Tru-Trak	8,395.0	8,395.0
14:00	15:00	1.00	BHA	PP	Move Tru-Trak to pipe racks, move new Tru-Trak to cat walk, P/U "new" Tru-Trak	8,395.0	8,395.0
15:00	15:30	0.50	BHA	PP	M/U Tru-Trak, Sec, PDC bit, #15	8,395.0	8,395.0
15:30	16:45	1.25	BHA	PP	TIH w/ BHA to 1186'. Fill pipe, Test Tru-Trak, 70X70 spm, 1320 psi	8,395.0	8,395.0
16:45	20:30	3.75	TRIP	PP	TIH from 1186'-8283', At 8283' tag up with 20k, Remove trip nipple, Install rotating head assm, 4,025' (45 min)	8,395.0	8,395.0
20:30	23:00	2.50	U_SP	PN	PU, MU to TDS, find neutral point , establish circulation, 55X55, 2500 PSI. Try to rotate, 16 RPM, torque up, pipe stuck, work pipe 8282' to 8277', pulling 250k, 40k over string weight. Slack off to 90k string weight (154k string weight) to cock jars, and pipe fell free. Rotate with TDS 20 RPM, 2000 ft/lbs, pump @ 55 stks, 470 PSI, PU to 8277' pulling 90k over string weight, slack off to 211k, PU to 8277', 90k over string weight, pipe pulled free, and able to get bit into intermediate casing shoe, 8247'. Pieces of rubber coming over shakers, possibly top cement plug.	8,395.0	
23:00	00:00	1.00	CIRC	PP	Pump High-Visc 30 bbl sweep, Sweep brought up pieces of rubber. possibly pieces of top cement plug.	8,395.0	8,395.0
00:00	04:00	4.00	RMWASH	PP	Wash/Ream from 8247' to 8298'. 60X60, 418 GPM, 1800 psi in neutral spot, WOB 3-7k, 75-400 psi diff. Attempted to rotate with TDS, 16-20 RPM, 2000 ft/lbs, attempt to slide with ribs on Tru-Trak in, still taking weight and pressure up while going to bottom. PU to 8247' and slack off to 8295' hole is free. Small pieces of rubber still over shakers.	8,395.0	8,395.0
04:00	05:30	1.50	RMWASH	PP	Sync Tru-Trak tool, to attempt to slide to bottom, with ribs out. 8298' to 8301', 83X83, 580 GPM, 3100 psi, Still taking 10-15k WOB, and 250 psi of diff.	8,395.0	8,395.0
05:30	06:00	0.50	RMWASH	PP	Sync Tru-Trak tool and close ribs. Rotate, from 8301' to 8304', 60X60, 418 GPM, 1800 PSI, 20 RPM, 2100 ft/lbs torque, 3-8k WOB, 150-250 psi diff.	8,395.0	8,395.0

Total AFE + Sup (Cost)
14,234,000.00

AFE Job Cost Summary

Cost Type	AFE Amt (Cost)
DHC	12,770,000.00
CWC	1,464,000.00

Field Estimate Job Cost Summary

Cost Typ	Field Est (Cost)
DHC	10,904,691.40

Daily Summary

Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
127,677.94	12,265,605.74
Daily Mud Field Est (Cost)	**Cum Mud Field Est (Cost)**
5,235.97	1,335,735.21

POL (Personnel on Location)
26.0

Daily Contacts

Job Contact	Title
Mike Reel	Drilling Supt
Eric Burnett	Drilling Engineer
Bill Vigil	Drilling Foreman
Dean Baker	Sr. Drlg. Foreman

Personnel Log

Company	Count
PIONEER NATURAL RESOURCES	2
NABORS DRILLING INC	2
NABORS DRILLING INC	12
ZECO	2
SELMA	2
NEWPARK	1
BADLANDZER	2
BAKER HUGHES	3

Weather

Precipitation Amount (in)	Precipitation Type
Temperature - High (°F)	**Temperature - Low (°F)**

Comment

NABORS DRILLING, 169

Rig Type
Drilling - Triple

Rig Start Date	Rig Release Date
11/9/2010	

1, National Supply, 10-P-130

Pump Number
1

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)
3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

2, National Supply, 10-P-130

Pump Number
2

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)
3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

3, Continental Emsco, F-1000

Pump Number
3

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)
3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

Job Supply Amounts

Supply Item Des	Unit Label	Received	Consumed	Cum On Loc
Diesel Fuel	gal us	5,700	2,195	11,580

Mud Additive Amounts

Des	Consumed	Cum Cons
Bentone 910	8	514
BULK TANK	2	182

Safety Summary

BOP Test Date	Last BOP Test	BOP Func Due	HSE Incident	HSE Inc Remark
29/Dec/2010	29/Nov/2010	12/Dec/2010	No	None

12/12/2010

PIONEER NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 12/12/2010
REPORT: 108
DOL: 107
DFS: 81

Rig Name: NABORS DRILLING 169

Depth Progress: -8,395.00

Daily Summary

Mud Properties

Daily Cost: 5,235.97 Cost Cum Cost: 1,335,735.21 Cost

Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	T Flowline (°F)
01:00	Oil Base	8,394.0	9.00	63	133.0

PV (cp)	YP (lbf/100ft²)	Filtrate (mL/30min)	HTHP Filtrate (mL/30…	HTHP Pressure (psi)	HTHP Temperature (°F)
15.0	15.000		2.0		250.0

Solids (%)	Sand (%)	MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)
10.0					

Chlorides (ppm)	Calcium (ppm)	Oil Water Ratio	Electric Stab (V)	Lime (lb/bbl)	Low Gravity Solids (%)
		83/17	1009.0	5.2	6.6

Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Comment
11.000	13.000	

Bottom Hole Assembly

BHA Since Insp (hr)	BHA Wt BelowJar (1000lbf)	Hrs on Jars (hr)

BHA #27 , Steerable

Bit Run	Drill Bit	Bit Type	Make
14	8 1/2in, M-4377PDH, WC6214	Insert	Reed

Nozzles (1/32")	IADC Codes	IADC Bit Dull
24/24/24	617	1-1-WT-A-E-0-ER-PR

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)
1.33	18.50	57.00

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)
18.50	57.00	3.1	8,338.0	8,395.0

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
1	6 3/4" Tru-Trak	7		30.89	1,092.26
1	Stop Sub	7	2.313	2.54	1,061.37
1	Filter Sub	6 3/4	3.000	5.68	1,058.83
1	Float Sub	6 3/4	2.875	3.13	1,053.15
1	Thruster	6 7/16	2.500	31.49	1,050.02
9	6 1/2 Drill Collars	6 1/2	2.875	276.70	1,018.53
1	XO Sub	6 3/8	2.813	3.57	741.83
18	5" HWDP	5	3.000	552.37	738.26
1	Drilling Jars	6 1/2	2.750	32.61	185.89
5	5" HWDP	5	3.000	153.28	153.28

Drilling Parameters

8,395.0 - 8,395.0 ftKB

Start (ftKB)	End Depth…	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note
8,395.0	8,395.0		35		200.0	628	3,270.0	

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100…	SO Str Wt (100…	Drill Str Wt (100…	Torque Units	Drilling Torque	Off Btm Tq
		211	205				

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/…	Max Open Hole AV (ft…

BHA #28 , Steerable

Bit Run	Drill Bit	Bit Type	Make
15	8 1/2in, FMH3655ZZ, 11199489	PDC	Security

Nozzles (1/32")	IADC Codes	IADC Bit Dull
18/18/18/20/20/20	___	-------

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)
1.67		

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)
			8,395.0	

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
1	6 3/4" Tru-Trak	7		30.87	1,091.48
1	Stop Sub	7	2.313	1.78	1,060.61
1	Filter Sub	6 3/4	3.000	5.68	1,058.83
1	Float Sub	6 3/4	2.875	3.13	1,053.15
1	Thruster	6 7/16	2.500	31.49	1,050.02
9	6 1/2 Drill Collars	6 1/2	2.875	276.70	1,018.53
1	XO Sub	6 3/8	2.813	3.57	741.83
18	5" HWDP	5	3.000	552.37	738.26
1	Drilling Jars	6 1/2	2.750	32.61	185.89
5	5" HWDP	5	3.000	153.28	153.28

Drilling Parameters

8,395.0 - <depthend> ftKB

Start (ftKB)	End Depth…	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note
8,395.0								

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100…	SO Str Wt (100…	Drill Str Wt (100…	Torque Units	Drilling Torque	Off Btm Tq

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/…	Max Open Hole AV (ft…

Casing Strings

Prop Run?	Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
No	Conductor	105.0	105.0	30	ERW	118.00		
No	Surface	4,345.0	4,344.6	13 3/8	K-55	68.00		
No	Intermediate	8,247.0		9 7/8	P-110	62.80	BTC	

Plug Back Total Depths

Date	Depth (ftKB)	Type	Method

Mud Additive Amounts

Des	Consumed	Cum Cons
BULK TANK BLOWERS	2	160
GSX-509	2	73
Lime	14	924
MUD ENGINEER	1	91
MUD LAB	1	83
New Bar (Ton/bulk)	3	271
Oil Dry	8	45
Opti-Mul	2	66
Opti-Plus	2	53
Tax	268	65,693

Formations

Formation Name	Final Top MD (ftKB)
Quaternary	80.0
Tertiary Volcanic	1,300.0
Tertiary Undivided	1,830.0
North Horn	3,810.0
UNCONFORMITY	4,345.0
Arapien	4,345.0
FAULT	
Arapien	
Twin Creek	
Gypsum Sprgs Mbr	
Navajo	
Chinle	
TD	

Safety Summary

12/12/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 12/12/2010
REPORT: 108
DOL: 107
DFS: 81

Rig Name: NABORS DRILLING 169

Depth Progress: -8,395.00

Daily Summary

Deviation Surveys

Tru-Trak, Proposed? No

Date	Description	Job
9/23/2010	Tru-Trak	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
11/20/2010	7,668.00	4.04						
11/20/2010	7,763.00	3.25						
11/20/2010	7,925.00	4.59						
11/20/2010	8,227.00	2.72						
11/20/2010	8,237.00	2.29						

Dipmeter, Proposed? No

Date	Description	Job
12/7/2010	Dipmeter	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
12/7/2010	8,100.00	2.78	287.01	8,096.64	89.47	-16.89	-88.04	2.39
12/7/2010	8,130.00	2.64	308.37	8,126.61	90.62	-16.25	-89.28	3.38
12/7/2010	8,160.00	3.39	321.22	8,156.57	91.56	-15.13	-90.37	3.35
12/7/2010	8,190.00	3.97	322.34	8,186.51	92.55	-13.61	-91.56	1.95
12/7/2010	8,220.00	4.37	314.17	8,216.43	93.79	-11.99	-93.02	2.38

Safety Summary

12/12/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 12/13/2010
REPORT: 109
DOL: 108
DFS: 82

Rig Name: NABORS DRILLING 169

Depth Progress: 1.00

Daily Summary

Property Sub	Field Name	API/UWI	Spud Date
327560-001	WILDCAT	43-023-30021-0000	9/22/2010

KB-Ground Distance (ft)	Original KB Elevation (ft)	KB-Mud Line Distance (ft)
25.00	5,264.00	

Daily Operations

Target Depth (ftKB)	Target Depth (TVD) (ftKB)	End Depth (ftKB)	End Depth (TVD) (ftKB)
9,040.0		8,396.0	

Footage/Meterage (ft)	24 HR ROP (ft/hr)	Drilling Hours (hr)
1.00	0.2	4.00

Avg Connection Gas	Avg Trip Gas	Avg Background Gas	Max Connection Gas	Max Trip Gas	Max Drill Gas
		12.00			

Operations at Report Time
TIH to 7824', and install rotating head assembly

Operations Summary
Wash & ream from 8304'-8395', back wash 8395'-8300' Bit would not drill, TOOH, LD Tru-Trak tools and PU Smith 6 blade PDC, and packed hole assembly, TIH.

Remarks
BHA Rotating hrs, since last Inspection: 29.4
BHA Slide/drlg hrs, since last Inspection: 27.2

Total OBM lost to date: 4,520 bbls.
OBM lost last hole past 24 hrs: 0 bbls.

Operations Next Report Period
Drill 8.5 ", with packed hole assembly

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com	Start Depth (ftKB)	End Depth (ftKB)
06:00	08:30	2.50	U_OTR	PN	W&R from 8304' to 8395', 8304'-8337', pumps 60X60-85X85, 418-593 gpm, 1800-3050 psi, WOB 0-2K, TDS 20 rpm, 1800-3650K ft/lbs torque, 150-750 psi diff. 8337' to 8395', 85X85 spm, 593 gpm, 2875-3175 psi, WOB 0-2K, TDS 20 rpm, 1850-2730K ft/lbs torque, 100 psi diff. Back wash 8395'-8287', pumps 85X85 spm, not rotating, no overpulls RIH from 8287'-8395', no pumps, hole free, no tite spots	8,395.0	8,395.0
08:30	08:45	0.25	SLDDR LG	PP	Make conn, sync tool	8,395.0	8,395.0
08:45	10:45	2.00	SLDDR LG	PP	Slide drill from 8395'-8396', pumps 80X80 spm, 558 gpm, 3000 psi, WOB 25-35K, Bit rpm 112 Drilled 1', 1.75 hrs, avg ROP .6'/hr. Did not make any hole after 1.75 hrs P/U, retract ribs, pump stks 88X88, 3450 psi	8,395.0	8,396.0
10:45	11:30	0.75	RIGSER	PP	Blew pop off valve #1 pump -- no press spike, replace pop-off valve. Put #1 & #2 pumps on line @ 85X85 spm, blew pop off valve #1 pump @ 1920 psi. Start #3 pum motor @ 11:30 hrs Pumps pulling max amps, on traction motors, assigned to generators, due to high pump press	8,396.0	8,396.0
11:30	11:45	0.25	SLDDR LG	PP	Put #1 & #2 pumps on line, un-sync Tru-Trak, ribs off	8,396.0	8,396.0
11:45	12:00	0.25	RIGSER	PP	Put #1 & #2 pumps on line, blew pop off @ 88X88 spm, 3025 psi put #2 & #3 pumps on line, 85X85 spm, 3160 psi,	8,396.0	8,396.0
12:00	14:00	2.00	SLDDR LG	PP	Slide drill from 8396'-8396', pumps 85X85 spm, 593 gpm, 3220 psi, WOB 25-39K, Bit rpm 119 Drilled 0', 2 hrs Ribs are retracted Lithology 8396': 20% Sd (red bed), 45% Dolomite, 20% Gypsum/anahydrite, 15% Shale	8,396.0	8,396.0
14:00	18:00	4.00	TRIP	PP	TOOH from 8396'-418', Mix & pump slug, TOOH to 1108'', pull rotating head assm, install trip nipple (30 min), POOH to DC's	8,396.0	8,396.0
18:00	20:30	2.50	BHA	PP	POOH from 418' to bit, break bit Bit had (2) plugged nozzles, top 2 cutters, on each of the 6 rows, were broken and or, worn flat, bit 1/32' undergauge	8,396.0	8,396.0
20:30	22:30	2.00	BHA	PP	Break-out & L/D filter sub, stop sub, float sub, M/U Thruster, Tru-Trak, X/O, 1 jt DP, rack back in derrick	8,396.0	8,396.0
22:30	00:00	1.50	BHA	PP	PU, 8 1/2" NB roller reamer BBF, 2- 8 1/2" string roller reamers, 2-6 1/4" ponc DC's, Inspect and check gauge on reamers and bit. MU reamers and DC's.	8,396.0	8,396.0
00:00	02:00	2.00	BHA	PP	MU Smith 9 1/2" MSi616, 6 blade PDC, TIH with BHA, to 1100'. LD drilling jars, and PU new set of drilling jars, move 3 jts of HWDP from above jars, place below jars and PU 1 jt of HWDP, place above jars. See BHA #29. Note: No Nozzles in bit, running open, equivalent to 6-20's. Spoke to Smith Bit rep, and he stated that 14's were the biggest that could be run in bit, or run with no nozzles. He gave the ok to run with no nozzles.	8,396.0	8,396.0

Total AFE + Sup (Cost)
14,234,000.00

AFE Job Cost Summary

Cost Type	AFE Amt (Cost)
DHC	12,770,000.00
CWC	1,464,000.00

Field Estimate Job Cost Summary

Cost Typ	Field Est (Cost)
DHC	10,966,185.10

Daily Summary

Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
64,236.82	12,329,842.56
Daily Mud Field Est (Cost)	**Cum Mud Field Est (Cost)**
2,743.12	1,338,478.33

POL (Personnel on Location)
26.0

Daily Contacts

Job Contact	Title
Mike Reel	Drilling Supt
Eric Burnett	Drilling Engineer
Bill Vigil	Drilling Foreman
Dean Baker	Sr. Drlg. Foreman

Personnel Log

Company	Count
PIONEER NATURAL RESOURCES	2
NABORS DRILLING INC	2
NABORS DRILLING INC	12
ZECO	2
SELMA	2
NEWPARK	1
BADLANDZER	2
BAKER HUGHES	3

Weather

Precipitation Amount (in)	Precipitation Type
Temperature - High (°F)	**Temperature - Low (°F)**

Comment

NABORS DRILLING, 169

Rig Type
Drilling - Triple

Rig Start Date	Rig Release Date
11/9/2010	

1, National Supply, 10-P-130

Pump Number
1

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)
3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

2, National Supply, 10-P-130

Pump Number
2

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)
3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

3, Continental Emsco, F-1000

Pump Number
3

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)
3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

Job Supply Amounts

Supply Item Des	Unit Label	Received	Consumed	Cum On Loc
Diesel Fuel	gal us		1,800	9,780

Mud Additive Amounts

Des	Consumed	Cum Cons
Bentone 910	16	530
BULK TANK	2	184

Safety Summary

BOP Test Date	Last BOP Test	BOP Func Due	HSE Incident	HSE Inc Remark
29/Dec/2010	29/Nov/2010	12/Dec/2010	No	None

12/13/2010

PIONEER NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 12/13/2010
REPORT: 109
DOL: 108
DFS: 82

Rig Name: NABORS DRILLING 169

Depth Progress: 1.00

Daily Summary

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com	Start Depth (ftKB)	End Depth (ftKB)
02:00	05:30	3.50	TRIP	PP	TIH with 5" DP from 1077' to 7824', monitoring well on trip tank for correct displacement. Fill pipe at 4000'.	8,396.0	8,396.0
05:30	06:00	0.50	BHA	PP	Remove Trip Nipple and install Rotating Head assembly.	8,396.0	8,396.0

Mud Properties

Daily Cost: 2,743.12 Cost Cum Cost: 1,338,478.33 Cost

Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	T Flowline (°F)
03:30	Oil Base	8,396.0	9.00	61	

PV (cp)	YP (lbf/100ft²)	Filtrate (mL/30min)	HTHP Filtrate (mL/30…	HTHP Pressure (psi)	HTHP Temperature (°F)
16.0	12.000		2.0		250.0

Solids (%)	Sand (%)	MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)
10.0					

Chlorides (ppm)	Calcium (ppm)	Oil Water Ratio	Electric Stab (V)	Lime (lb/bbl)	Low Gravity Solids (%)
		83/17	1015.0	5.2	6.6

Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Comment
11.000	12.000	

Bottom Hole Assembly

BHA Since Insp (hr)	BHA Wt BelowJar (1000lbf)	Hrs on Jars (hr)
29.4	51,720	0.000

BHA #28 , Steerable

Bit Run	Drill Bit	Bit Type	Make
15	8 1/2in, FMH3655ZZ, 11199489	PDC	Security

Nozzles (1/32")	IADC Codes	IADC Bit Dull
18/18/18/20/20/20	___	0-0-BT-G-X-1-CT-PR

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)
1.67	4.00	1,001.00

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)
4.00	1,001.00	250.2	8,395.0	9,395.0

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
1	6 3/4" Tru-Trak	7		30.87	1,091.48
1	Stop Sub	7	2.313	1.78	1,060.61
1	Filter Sub	6 3/4	3.000	5.68	1,058.83
1	Float Sub	6 3/4	2.875	3.13	1,053.15
1	Thruster	6 7/16	2.500	31.49	1,050.02
9	6 1/2 Drill Collars	6 1/2	2.875	276.70	1,018.53
1	XO Sub	6 3/8	2.813	3.57	741.83
18	5" HWDP	5	3.000	552.37	738.26
1	Drilling Jars	6 1/2	2.750	32.61	185.89
5	5" HWDP	5	3.000	153.28	153.28

Drilling Parameters

8,395.0 - 8,396.0 ftKB

Start (ftKB)	End Depth…	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note
8,395.0	8,396.0	0.2						

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100…	SO Str Wt (100…	Drill Str Wt (100…	Torque Units	Drilling Torque	Off Btm Tq
4.00	1.50						

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/…	Max Open Hole AV (ft…

BHA #29 , Slick

Bit Run	Drill Bit	Bit Type	Make
16	8 1/2in, MSi616, JD1506	PDC	Smith

Nozzles (1/32")	IADC Codes	IADC Bit Dull
20/20/20/20/20/20	___	-------

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)
1.84		

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)
			8,396.0	8,396.0

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
1	Roller Reamer - Near Bit	6 5/8	2.250	6.87	1,077.86
1	Drill Collar	6 7/16	2.875	7.85	1,070.99
1	Reamer	6 5/8	2.250	6.47	1,063.14
1	Drill Collar	6 1/2	2.813	30.75	1,056.67
1	Reamer	6 5/8	2.250	6.46	1,025.92
8	Drill Collar	6 1/2	2.813	246.00	1,019.46
1	XO Sub	6 3/8	2.812	3.57	773.46
21	HWDP	5	3.000	644.22	769.89
1	Drilling Jars	6 1/4	2.750	32.63	125.67
3	HWDP	5	3.000	92.04	93.04

Drilling Parameters

8,396.0 - 8,396.0 ftKB

Start (ftKB)	End Depth…	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note
8,396.0	8,396.0					580	480.0	

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100…	SO Str Wt (100…	Drill Str Wt (100…	Torque Units	Drilling Torque	Off Btm Tq
0.00	1.00						

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/…	Max Open Hole AV (ft…

Mud Additive Amounts

Des	Consumed	Cum Cons
BULK TANK BLOWERS	2	162
MUD ENGINEER	1	92
MUD LAB	1	84
Opti-Thin	3	9
Tax	127	65,820

Formations

Formation Name	Final Top MD (ftKB)
Quaternary	80.0
Tertiary Volcanic	1,300.0
Tertiary Undivided	1,830.0
North Horn	3,810.0
UNCONFORMITY	4,345.0
Arapien	4,345.0
FAULT	
Arapien	
Twin Creek	
Gypsum Sprgs Mbr	
Navajo	
Chinle	
TD	

Safety Summary

12/13/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 12/13/2010
REPORT: 109
DOL: 108
DFS: 82

Rig Name: NABORS DRILLING 169

Depth Progress: 1.00

Daily Summary

Casing Strings

Prop Run?	Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
No	Conductor	105.0	105.0	30	ERW	118.00		
No	Surface	4,345.0	4,344.6	13 3/8	K-55	68.00		
No	Intermediate	8,247.0		9 7/8	P-110	62.80	BTC	

Plug Back Total Depths

Date	Depth (ftKB)	Type	Method

Deviation Surveys

Tru-Trak, Proposed? No

Date	Description	Job
9/23/2010	Tru-Trak	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
11/20/2010	7,668.00	4.04						
11/20/2010	7,763.00	3.25						
11/20/2010	7,925.00	4.59						
11/20/2010	8,227.00	2.72						
11/20/2010	8,237.00	2.29						

Dipmeter, Proposed? No

Date	Description	Job
12/7/2010	Dipmeter	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
12/7/2010	8,100.00	2.78	287.01	8,096.64	89.47	-16.89	-88.04	2.39
12/7/2010	8,130.00	2.64	308.37	8,126.61	90.62	-16.25	-89.28	3.38
12/7/2010	8,160.00	3.39	321.22	8,156.57	91.56	-15.13	-90.37	3.35
12/7/2010	8,190.00	3.97	322.34	8,186.51	92.55	-13.61	-91.56	1.95
12/7/2010	8,220.00	4.37	314.17	8,216.43	93.79	-11.99	-93.02	2.38

Safety Summary

12/13/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 12/14/2010
REPORT: 110
DOL: 109
DFS: 83

Rig Name: NABORS DRILLING 169

Depth Progress: 249.00

Daily Summary

Property Sub	Field Name	API/UWI	Spud Date
327560-001	WILDCAT	43-023-30021-0000	9/22/2010

KB-Ground Distance (ft)	Original KB Elevation (ft)	KB-Mud Line Distance (ft)
25.00	5,264.00	

Daily Operations

Target Depth (ftKB)	Target Depth (TVD) (ftKB)	End Depth (ftKB)	End Depth (TVD) (ftKB)
9,040.0		8,645.0	

Footage/Meterage (ft)	24 HR ROP (ft/hr)	Drilling Hours (hr)
249.00	13.1	19.00

Avg Connection Gas	Avg Trip Gas	Avg Background Gas	Max Connection Gas	Max Trip Gas	Max Drill Gas
	20.00	22.00		20.00	

Operations at Report Time
Drilling at 8645'

Operations Summary
Finish TIH to 8247', W&R 8247'-8396', Rotate drill from 8396'- 8645'

Remarks
BHA Rotating hrs, since last Inspection: 48.4
BHA Slide/drlg hrs, since last Inspection: 27.2

Last Survey: 8566', 1.75* Nabors Wire line Totco (Epic)

Total OBM lost to date: 4,520 bbls.
OBM lost last hole past 24 hrs: 0 bbls.

Rotary bushings locks repaired, bushings locked in place

Operations Next Report Period
Drill 8.5 ", with packed hole assembly

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com	Start Depth (ftKB)	End Depth (ftKB)
06:00	06:30	0.50	TRIP	PP	Finish TIH from 7824'-8185', M/U TDS, fill pipe	8,396.0	8,396.0
06:30	07:30	1.00	RMWASH	PP	Wash from 8247'-8396', RIH 8185'-8247' w/ pumps. Wash from 8247'-8321', pumps 50X50 spm, 349 gpm, 980 psi, set down 3K Wash & ream 8321'-8396', pumps 70X70, 488 gpm, 1775 psi, TDS 25 rpm, WOB 0	8,396.0	8,396.0
07:30	14:30	7.00	ROTDRLG	PP	Rotate drill from 8396'-8474', pumps 90X90-95X95 spm, 628-663 gpm, 2760-2990-2720 psi, TDS 100-85 rpm, WOB 5-21K, Torque 3865-4650K ft/lbs, Break bit in 5-15K (35 min) Drilled 78', 6.6 hrs, avg ROP 11.8'/hr Slow pump rates @ 8418', mwt 9.1 Lithology: 8440', 80% Sd, 5% Sh, 5% Lm, 5% Dolo, 5% Anhydrite 8460', 10% Sd, 75% Sh, 5% Lm, 5% Dolo, %% Anhydrite	8,396.0	8,474.0
14:30	15:00	0.50	RMCLN	PP	Back ream, wash down, circ, pumps 95X95 spm, 663 gpm, 2700 psi,	8,474.0	8,474.0
15:00	16:00	1.00	DEVSUR	PP	Survey @ 8462', 1.13 deg, Temp 214 degF	8,474.0	8,474.0
16:00	16:45	0.75	ROTDRLG	PP	Rotate drill from 8474'-8503', pumps 95X95 spm, 663 gpm, 2760 psi, TDS 100-110 rpm, WOB 20-24K, Torque 8150-8265K ft/lbs Drilled 29', .9 hrs, avg ROP 32,2'/hr Lithology: 8490', 10% Sd, 65% Sh, 5% Lm, 5% Dolo, 5% Anhydrite	8,474.0	8,503.0
16:45	17:15	0.50	RIGSER	PP	Rig service, grind down & repair rotary table bushings locks, lock bushings in place, as per Pioneer's request	8,503.0	8,503.0
17:15	23:00	5.75	ROTDRLG	PP	Rotate drill from 8503'-8570', pumps 95X95 spm, 663 gpm, 2760 psi, TDS 110 rpm, WOB 20-24K, Torque 6780K ft/lbs Drilled 67', 2.75 hrs, avg ROP 11.6'/hr Lithology: 8520', 85% Gypsum, Trace Sd, 5% Sh, 5% Lm, 5% Dolo 8540', 75% Gypsum, 10% Sd, 5% Sh, 5% Lm, 5% Dolo 8560', 10% Gypsum, 15% Sd, 10% Sh, 5% Lm, 60% Dolo	8,503.0	8,570.0
23:00	23:30	0.50	CLNBH	PP	Circulate for wire line survey.	8,570.0	8,570.0
23:30	00:30	1.00	DEVSUR	PP	Run Survey @ 8566', 1.75*. Temp: 227 deg F. MU to drill pipe, break circulation, and work pipe after survey. Hole is free and clear.	8,570.0	8,570.0

Total AFE + Sup (Cost)
14,234,000.00

AFE Job Cost Summary

Cost Type	AFE Amt (Cost)
DHC	12,770,000.00
CWC	1,464,000.00

Field Estimate Job Cost Summary

Cost Typ	Field Est (Cost)
DHC	11,043,607.92

Daily Summary

Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
77,422.82	12,407,265.38
Daily Mud Field Est (Cost)	Cum Mud Field Est (Cost)
8,586.82	1,347,065.15

POL (Personnel on Location)
26.0

Daily Contacts

Job Contact	Title
Mike Reel	Drilling Supt
Eric Burnett	Drilling Engineer
Bill Vigil	Drilling Foreman
Dean Baker	Sr. Drlg. Foreman

Personnel Log

Company	Count
PIONEER NATURAL RESOURCES	2
NABORS DRILLING INC	2
NABORS DRILLING INC	12
ZECO	2
SELMA	2
NEWPARK	1
BADLANDZER	2
BAKER HUGHES	3

Weather

Precipitation Amount (in)	Precipitation Type
0.000	None
Temperature - High (°F)	Temperature - Low (°F)
49.0	33.0

Comment

NABORS DRILLING, 169

Rig Type: Drilling - Triple

Rig Start Date	Rig Release Date
11/9/2010	

1, National Supply, 10-P-130

Pump Number: 1

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi): 3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)
Yes	250.0	40	133	95
Yes	340.0	50	166	95
Yes	420.0	60	199	95

2, National Supply, 10-P-130

Pump Number: 2

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi): 3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)
Yes	420.0	60	199	95
Yes	255.0	40	133	95
Yes	330.0	50	166	95

3, Continental Emsco, F-1000

Pump Number: 3

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi): 3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

Job Supply Amounts

Supply Item Des	Unit Label	Received	Consumed	Cum On Loc
Diesel Fuel	gal us		2,880	6,900

Safety Summary

BOP Test Date	Last BOP Test	BOP Func Due	HSE Incident	HSE Inc Remark
29/Dec/2020	29/Nov/2010	12/Dec/2010	No	None

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 12/14/2010
REPORT: 110
DOL: 109
DFS: 83

Rig Name: NABORS DRILLING 169

Depth Progress: 249.00

Daily Summary

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com	Start Depth (ftKB)	End Depth (ftKB)
00:30	06:00	5.50	ROTD RLG	PP	Rotate drill from 8570-8645', pumps 95X95 spm, 663 gpm, 2760 psi, TDS 110 rpm, WOB 20-24K, Torque 6850K ft/lbs Drilled 75', 5.5 hrs, avg ROP 13.6'/hr Lithology: 8580', 5% Gypsum, 5% Lime, 10% Dolomite, 80% Sandstone (Red Bed Shale Sand) 8600', 45% Gypsum, 30% Shale, 10% Sandstone, 10% Dolomite, 5% Lime	8,570.0	8,645.0

Mud Properties

Daily Cost: 8,586.82 Cost Cum Cost: 1,347,065.15 Cost

Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	T Flowline (°F)
03:30	Oil Base	8,606.0	9.00	53	

PV (cp)	YP (lbf/100ft²)	Filtrate (mL/30min)	HTHP Filtrate (mL/30…	HTHP Pressure (psi)	HTHP Temperature (°F)
17.0	10.000		2.0		250.0

Solids (%)	Sand (%)	MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)
10.0					

Chlorides (ppm)	Calcium (ppm)	Oil Water Ratio	Electric Stab (V)	Lime (lb/bbl)	Low Gravity Solids (%)
		81/19	1038.0	5.3	6.9

Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Comment
10.000	11.000	

Bottom Hole Assembly

BHA Since Insp (hr)	BHA Wt BelowJar (1000lbf)	Hrs on Jars (hr)
	51,720	19.000

BHA #29 , Slick

Bit Run	Drill Bit	Bit Type	Make
16	8 1/2in, MSi616, JD1506	PDC	Smith

Nozzles (1/32")	IADC Codes	IADC Bit Dull
20/20/20/20/20/20	___	-------

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)
1.84	19.00	249.00

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)
19.00	249.00	13.1	8,396.0	8,645.0

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
1	Roller Reamer - Near Bit	6 5/8	2.250	6.87	1,077.86
1	Drill Collar	6 7/16	2.875	7.85	1,070.99
1	Reamer	6 5/8	2.250	6.47	1,063.14
1	Drill Collar	6 1/2	2.813	30.75	1,056.67
1	Reamer	6 5/8	2.250	6.46	1,025.92
8	Drill Collar	6 1/2	2.813	246.00	1,019.46
1	XO Sub	6 3/8	2.812	3.57	773.46
21	HWDP	5	3.000	644.22	769.89
1	Drilling Jars	6 1/4	2.750	32.63	125.67
3	HWDP	5	3.000	92.04	93.04

Drilling Parameters

8,396.0 - 8,645.0 ftKB

Start (ftKB)	End Depth…	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note
8,396.0	8,645.0	13.1	22	110		580	480.0	

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100…	SO Str Wt (100…	Drill Str Wt (100…	Torque Units	Drilling Torque	Off Btm Tq
19.00	2.50	214	209		Ftlbs	6,800.0	4,500.0

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/…	Max Open Hole AV (ft…

Casing Strings

Prop Run?	Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
No	Conductor	105.0	105.0	30	ERW	118.00		
No	Surface	4,345.0	4,344.6	13 3/8	K-55	68.00		
No	Intermediate	8,247.0	8,243.4	9 7/8	P-110	62.80	BTC	

Plug Back Total Depths

Date	Depth (ftKB)	Type	Method

Deviation Surveys

Tru-Trak, Proposed? No

Date	Description	Job
9/23/2010	Tru-Trak	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
11/20/2010	7,668.00	4.04						
11/20/2010	7,763.00	3.25						
11/20/2010	7,925.00	4.59						
11/20/2010	8,227.00	2.72						
11/20/2010	8,237.00	2.29						

Mud Additive Amounts

Des	Consumed	Cum Cons
BULK TANK	2	186
BULK TANK BLOWERS	2	164
Calcium Chloride	12	12
Drum Disposal	48	150
Lime	12	936
MUD ENGINEER	1	93
MUD LAB	1	85
Opti-Clean		9
Opti-Mul	2	68
Opti-Plus	2	55
Opti-Thin	4	13
Pallets	12	171
Tax	372	66,192
Trucking	1,518	131,796

Formations

Formation Name	Final Top MD (ftKB)
Quaternary	80.0
Tertiary Volcanic	1,300.0
Tertiary Undivided	1,830.0
North Horn	3,810.0
UNCONFORMITY	4,345.0
Arapien	4,345.0
FAULT	
Arapien	
Twin Creek	
Gypsum Sprgs Mbr	
Navajo	
Chinle	
TD	

Safety Summary

12/14/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 12/14/2010
REPORT: 110
DOL: 109
DFS: 83

Rig Name: NABORS DRILLING 169

Depth Progress: 249.00

Daily Summary

Deviation Surveys

Dipmeter, Proposed? No

Date	Description	Job
12/7/2010	Dipmeter	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
12/7/2010	8,160.00	3.39	321.22	8,156.57	91.56	-15.13	-90.37	3.35
12/7/2010	8,190.00	3.97	322.34	8,186.51	92.55	-13.61	-91.56	1.95
12/7/2010	8,220.00	4.37	314.17	8,216.43	93.79	-11.99	-93.02	2.38
12/13/2010	8,462.00	1.13		8,458.30				
12/13/2010	8,566.00	1.75		8,562.30				

Safety Summary

12/14/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 12/15/2010
REPORT: 111
DOL: 110
DFS: 84

Rig Name: NABORS DRILLING 169

Depth Progress: 53.00

Daily Summary

Property Sub	Field Name	API/UWI	Spud Date
327560-001	WILDCAT	43-023-30021-0000	9/22/2010

KB-Ground Distance (ft)	Original KB Elevation (ft)	KB-Mud Line Distance (ft)
25.00	5,264.00	

Daily Operations

Target Depth (ftKB)	Target Depth (TVD) (ftKB)	End Depth (ftKB)	End Depth (TVD) (ftKB)
9,040.0		8,698.0	

Footage/Meterage (ft)	24 HR ROP (ft/hr)	Drilling Hours (hr)
53.00	4.9	10.90

Avg Connection Gas	Avg Trip Gas	Avg Background Gas	Max Connection Gas	Max Trip Gas	Max Drill Gas
5.00		5.00	54.00		

Operations at Report Time
TIH at 305' w/ BHA

Operations Summary
Rotate drill from 8645'- 8698', Survey, Circ btms up, TOOH due to P-Rate. L/D all (3) roller reamers, PU & M/U (3) new roller reamers & Insert bit, TIH.

Remarks
BHA Rotating hrs, since last Inspection: 59.3
BHA Slide/drlg hrs, since last Inspection: 67.7

Total OBM lost to date: 4,520 bbls.
OBM lost last hole past 24 hrs: 0 bbls.

(3) Badlanderz haul trucks, Backloaded to, Tuboscope/South Yard, Houston, TX:
Total of 44 jts, 9-7/8", 62.8 ppf, BTC, casing, included in this 44 jts: 1 jt w/ bad pin, 1 jt w/ bad box
ETA: Thursday, 09/Dec, 1000+/- hrs

Truck #3, of the (3) Badlanderz haul trucks, backloading 9-7/8" csg, was loaded w/ (1) 8", Thruster, Cougar Tool (used). This truck after 9-7/8" csg, is offloaded, will deliver, 8" Thruster, to Cougar Tool, Oklahoma City.

Operations Next Report Period
Drill 8.5 ", with packed hole assembly

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com	Start Depth (ftKB)	End Depth (ftKB)
06:00	08:15	2.25	ROTD RLG	PP	Rotate drill from 8645-8666', pumps 95X95 spm, 663 gpm, 2760 psi, TDS 110 rpm, WOB 20-24K, Torque 7480K ft/lbs Drilled 21', 2.2 hrs, avg ROP 9.5'/hr Lithology: 8640', 45% Gypsum, 30% Shale, 10% Sandstone, 10% Dolomite, 5% Lime 8660', 5% Gypsum, 5% Lime, 10% Dolomite, 80% Sandstone (Red Bed Shale Sand)	8,645.0	8,666.0
08:15	08:30	0.25	RMCL N	PP	Back ream, wash down, circ, pumps 95X95 spm, 663 gpm, 2700 psi,	8,666.0	8,666.0
08:30	09:30	1.00	DEVS UR	PP	Survey @ 8662', 2..48 deg, Temp 214 degF	8,666.0	8,666.0
09:30	18:30	9.00	ROTD RLG	PP	Rotate drill from 8666-8698', pumps 95X95 spm, 663 gpm, 2760 psi, TDS 110 rpm, WOB 20-24K, Torque 780-9280K ft/lbs Drilled 32', in 8.7 hrs, avg ROP 3.7'/hr Drilled from 8666'-8696', P/U, re-start bit, drilled 30' in 7.7 hrs = 3.9'/hr Drilled from 8696-8698', torque leved out @ 5165-7840K ft/lbs, drilled 2' in 1 hr = 2'/hr Drilled to 8696, P/U off btm, re-start bit, relative torque running 5750-6160K ft/lbsp Lithology: 8670', 20% Gyp, 15% Dolo, 55% SS, 10% Sh 8680', 15% Gyp, 25% Dolo, 45% SS, 10% Sh, 5% Lm 8690', 65% Sd, 20% Dolo, 5% Sh, 5% Anhy, 5% Lm	8,666.0	8,698.0
18:30	19:30	1.00	CIRC	PP	Circ btms up Lithology: 8698', 55% Sd, 25% Dolo, 10% Sh, 5% Gyp, 5% Lm	8,698.0	8,698.0
19:30	23:30	4.00	TRIP	PP	POOH from 8698'-1094', Observe well, pump slug, POOH	8,698.0	8,698.0
23:30	00:00	0.50	BOPS	PP	Remove Rotating Rubber and Install Trip Nipple.	8,698.0	8,698.0
00:00	01:00	1.00	BHA	PP	TOH from 1084' (BHA), LD 8 1/2" Smith Bit. Dull Grade: In gauge, face and shoulder cutters worn.	8,698.0	8,698.0
01:00	03:00	2.00	BHA	PP	Inspect Roller Reamers, check gauge. All 3 reamers 1/16 under gauge. LD 3 roller reamers	8,698.0	8,698.0
03:00	06:00	3.00	BOPS	PP	RIH at 305', w/ BHA. P/U & M/U, NB & (2) String reamers (New) -- roller reamers full gauge, 8 1/2". MU, 8 1/2", Reed, Inset bit #17	8,698.0	8,698.0

Total AFE + Sup (Cost)
14,234,000.00

AFE Job Cost Summary

Cost Type	AFE Amt (Cost)
DHC	12,770,000.00
CWC	1,464,000.00

Field Estimate Job Cost Summary

Cost Typ	Field Est (Cost)
DHC	11,161,100.57

Daily Summary

Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
115,032.65	11,181,600.30
Daily Mud Field Est (Cost)	**Cum Mud Field Est (Cost)**
12,194.65	1,359,259.80

POL (Personnel on Location)
27.0

Daily Contacts

Job Contact	Title
Mike Reel	Drilling Supt
Eric Burnett	Drilling Engineer
Bill Vigil	Drilling Foreman
Dean Baker	Sr. Drlg. Foreman

Personnel Log

Company	Count
PIONEER NATURAL RESOURCES	2
NABORS DRILLING INC	2
NABORS DRILLING INC	12
ZECO	2
SELMA	2
NEWPARK	1
BADLANDZER	2
BAKER HUGHES	3
PIONEER NATURAL RESOURCES	1

Weather

Precipitation Amount (in)	Precipitation Type
	Snow
Temperature - High (°F)	**Temperature - Low (°F)**
50.0	35.0

Comment

NABORS DRILLING, 169

Rig Type
Drilling - Triple

Rig Start Date	Rig Release Date
11/9/2010	

1, National Supply, 10-P-130

Pump Number
1

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)
3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

2, National Supply, 10-P-130

Pump Number
2

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)
3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

3, Continental Emsco, F-1000

Pump Number
3

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)
3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

Job Supply Amounts

Supply Item Des	Unit Label	Received	Consumed	Cum On Loc
Diesel Fuel	gal us	4,575	2,175	9,300

Mud Additive Amounts

Des	Consumed	Cum Cons
BULK TANK	2	188

Safety Summary

BOP Test Date	Last BOP Test	BOP Func Due	HSE Incident	HSE Inc Remark
29/Dec/2020	29/Nov/2010	12/Dec/2010	No	None.

PIONEER NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 12/15/2010
REPORT: 111
DOL: 110
DFS: 84

Rig Name: NABORS DRILLING 169

Depth Progress: 53.00

Daily Summary

Mud Properties

Daily Cost: 12,194.65 Cost Cum Cost: 1,359,259.80 Cost

Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	T Flowline (°F)
03:30	Oil Base	8,698.0	9.00	54	

PV (cp)	YP (lbf/100ft²)	Filtrate (mL/30min)	HTHP Filtrate (mL/30…	HTHP Pressure (psi)	HTHP Temperature (°F)
17.0	10.000		2.0		250.0

Solids (%)	Sand (%)	MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)
10.0					

Chlorides (ppm)	Calcium (ppm)	Oil Water Ratio	Electric Stab (V)	Lime (lb/bbl)	Low Gravity Solids (%)
		81.1/18.9	1111.0	5.4	6.9

Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Comment
11.000	12.000	

Bottom Hole Assembly

BHA Since Insp (hr)	BHA Wt BelowJar (1000lbf)	Hrs on Jars (hr)
Total Hrs on BHA in Hole 142 (67.7 Slide, 74.3 Rotate)	51,720	19.000

BHA #29 , Slick

Bit Run	Drill Bit	Bit Type	Make
16	8 1/2in, MSi616, JD1506	PDC	Smith

Nozzles (1/32")	IADC Codes	IADC Bit Dull
20/20/20/20/20/20	___	1-7-CT-S-X-0-WT-PR

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)
1.84	29.90	302.00

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)
29.90	302.00	10.1	8,396.0	8,698.0

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
1	Roller Reamer - Near Bit	6 5/8	2.250	6.87	1,077.86
1	Drill Collar	6 7/16	2.875	7.85	1,070.99
1	Reamer	6 5/8	2.250	6.47	1,063.14
1	Drill Collar	6 1/2	2.813	30.75	1,056.67
1	Reamer	6 5/8	2.250	6.46	1,025.92
8	Drill Collar	6 1/2	2.813	246.00	1,019.46
1	XO Sub	6 3/8	2.812	3.57	773.46
21	HWDP	5	3.000	644.22	769.89
1	Drilling Jars	6 1/4	2.750	32.63	125.67
3	HWDP	5	3.000	92.04	93.04

Drilling Parameters

8,645.0 - 8,698.0 ftKB

Start (ftKB)	End Depth...	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note
8,645.0	8,698.0	4.9	22	110		580	480.0	

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100…	SO Str Wt (100…	Drill Str Wt (100…	Torque Units	Drilling Torque	Off Btm Tq
10.90	2.50	214	209		Ftlbs	6,800.0	4,500.0

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/…	Max Open Hole AV (ft…

BHA #30 , Slick

Bit Run	Drill Bit	Bit Type	Make
17	8 1/2in, M4378PDH, AL5059	Insert	Reed

Nozzles (1/32")	IADC Codes	IADC Bit Dull
28/28/28	627	-------

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)
1.80		

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)
			8,698.0	8,698.0

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
3	HWDP	5	3.000	92.04	1,077.28
1	Drilling Jars	6 1/4	2.750	32.63	985.24
21	HWDP	5	3.000	644.22	952.61
1	XO Sub	6 3/8	2.812	3.57	308.39
8	Drill Collar	6 1/2	2.813	246.00	304.82
1	Reamer	6 5/8	2.250	5.90	58.82
1	Drill Collar	6 1/2	2.813	30.75	52.92
1	Reamer	6 5/8	2.250	6.47	22.17
1	Drill Collar	6 7/16	2.875	7.85	15.70
1	Roller Reamer - Near Bit	6 5/8	2.250	6.85	7.85

Drilling Parameters

8,698.0 - 8,698.0 ftKB

Start (ftKB)	End Depth...	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note
8,698.0	8,698.0							

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100…	SO Str Wt (100…	Drill Str Wt (100…	Torque Units	Drilling Torque	Off Btm Tq
0.00	0.00						

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/…	Max Open Hole AV (ft…

Casing Strings

Prop Run?	Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
No	Conductor	105.0	105.0	30	ERW	118.00		
No	Surface	4,345.0	4,344.6	13 3/8	K-55	68.00		
No	Intermediate	8,247.0	8,243.4	9 7/8	P-110	62.80	BTC	

Plug Back Total Depths

Date	Depth (ftKB)	Type	Method

Mud Additive Amounts

Des	Consumed	Cum Cons
BULK TANK BLOWERS	2	166
Lime	24	960
MUD ENGINEER	1	94
MUD LAB	1	86
Opti-Mul	4	72
Opti-Plus	1	56
Tax	235	66,428
Trucking	7,535	139,331

Formations

Formation Name	Final Top MD (ftKB)
Quaternary	80.0
Tertiary Volcanic	1,300.0
Tertiary Undivided	1,830.0
North Horn	3,810.0
UNCONFORMITY	4,345.0
Arapien	4,345.0
FAULT	
Arapien	
Twin Creek	
Gypsum Sprgs Mbr	
Navajo	
Chinle	
TD	

Safety Summary

12/15/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 12/15/2010
REPORT: 111
DOL: 110
DFS: 84

Rig Name: NABORS DRILLING 169

Depth Progress: 53.00

Daily Summary

Deviation Surveys

Tru-Trak, Proposed? No

Date	Description	Job
9/23/2010	Tru-Trak	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
11/20/2010	7,668.00	4.04						
11/20/2010	7,763.00	3.25						
11/20/2010	7,925.00	4.59						
11/20/2010	8,227.00	2.72						
11/20/2010	8,237.00	2.29						

Dipmeter, Proposed? No

Date	Description	Job
12/7/2010	Dipmeter	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
12/7/2010	8,160.00	3.39	321.22	8,156.57	91.56	-15.13	-90.37	3.35
12/7/2010	8,190.00	3.97	322.34	8,186.51	92.55	-13.61	-91.56	1.95
12/7/2010	8,220.00	4.37	314.17	8,216.43	93.79	-11.99	-93.02	2.38
12/13/2010	8,462.00	1.13		8,458.30				
12/13/2010	8,566.00	1.75		8,562.30				

Safety Summary

12/15/2010

PIONEER NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 12/16/2010
REPORT: 112
DOL: 111
DFS: 85

Rig Name: NABORS DRILLING 169

Depth Progress: 65.00

Daily Summary

Property Sub	Field Name	API/UWI	Spud Date
327560-001	WILDCAT	43-023-30021-0000	9/22/2010

KB-Ground Distance (ft)	Original KB Elevation (ft)	KB-Mud Line Distance (ft)
25.00	5,264.00	

Daily Operations

Target Depth (ftKB)	Target Depth (TVD) (ftKB)	End Depth (ftKB)	End Depth (TVD) (ftKB)
9,040.0		8,763.0	

Footage/Meterage (ft)	24 HR ROP (ft/hr)	Drilling Hours (hr)
65.00	4.2	15.66

Avg Connection Gas	Avg Trip Gas	Avg Background Gas	Max Connection Gas	Max Trip Gas	Max Drill Gas
18.00		5.00	20.00		

Operations at Report Time
Drlg at 8763'

Operations Summary
TIH to 8509', Fill Pipe, Wash and ream to btm @ 8698' (hole free and clear), Rotate Drill from 8698' to 8760', Wireline Survey - 2.76 deg 223 temp @ 8755', Rotate Drill from 8760' to 8763'.

Remarks
BHA Rotating hrs, since last Inspection: 75.13
BHA Slide/drlg hrs, since last Inspection: 67.7

TIH at 7263, conducted BOP drill

Total OBM lost to date: 4,551 bbls.
OBM lost last hole past 24 hrs: 31 bbls.

Moved 215 bbls, Base Oil, from South Hills location (ran out of storage room) to Denton Oil Co, Bulk facilities

Badlanderz backloaded to:
Weatherford, Vernal --
1) (1) 6-1/2" Drlg Jars - used
2) (1) 9-7/8" Guide Shoe - New
3) (1) 9-7/8" Float Collar - NEW
Franks Westate, Vernal --
4) (1) 9-7/8", 62.8 ppf, P-110, BTZ, Landing Jt, w/ Wood Group Running Tool - Used, no Damage

Received from Spidle: (1) Near bit & (2) String, 8-1/2" Roller Reamers - new
Backload to Spidle: (1) Near bit & (2) String, 8-1/2" Roller Reamers - used

Operations Next Report Period
Drill 8.5 ", with packed hole assembly

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com	Start Depth (ftKB)	End Depth (ftKB)
06:00	06:45	0.75	BHA	PP	TIH w/ BHA from 305'-1077'	8,698.0	8,698.0
06:45	10:45	4.00	TRIP	PP	TIH from 1077'-8509, Pull trip nipple, Install rotating bushing assm at 4811' (15 min)	8,698.0	8,698.0
10:45	11:30	0.75	RMWASH	PP	Wash & lite ream from 8509'-8698', Fill pipe, pumps 75X75-95X95 spm, 523-663 gpm, 2080-2260 psi, TDS 20 rpm, Torque 1520-1730K ft/lbs, went to bottom - no tite hole	8,698.0	8,698.0
11:30	03:15	15.75	ROTDRLG	PP	Rotate drill from 8698-8760', pumps 95X95 spm, 663 gpm, 2945 psi, TDS 90-100 rpm, WOB 35-42K, Torque 1880-4070K ft/lbs. Break bit in, WOB 5-25K, TDS 25-35 rpm (30 min) Drilled 62', 15.21 hrs, avg ROP 4'/hr Lithology: 8710', 80% Sd, 5% Sh, 5% Lm, 5% Dolo, 5% Gyp 8720', 85% Sd, 5% Sh, 5% Dolo, 5% Ahy 8730', 85% Sd, 5% Sh, 5% Dolo, 5% Ahy 8740', 85% Sd, 5% Sh, 5% Dolo, 5% Ahy 8750', 85% Sd, 5% Sh, 5% Dolo, 5%Ahy	8,698.0	8,760.0
03:15	03:45	0.50	RMCLN	PP	Back ream, wash down, circ, pumps 95X95 spm, 663 gpm, 2560 psi,	8,760.0	8,760.0
03:45	04:45	1.00	DEVSUR	PP	Survey @ 8755', 2.76 deg, Temp 223 degF (Tool failed first run, had to make a 2nd run)	8,760.0	8,760.0
04:45	06:00	1.25	ROTDRLG	PP	Rotate drill from 8760-8763', pumps 95X95 spm, 663 gpm, 2945 psi, TDS 90-100 rpm, WOB 35-42K, Torque 1880-4070K ft/lbs. Drilled 3', .5 hrs, avg ROP 6'/hr Take Slow Pump Rates Lithology: 8750', 85% Sd, 5% Sh, 5% Dolo, 5% Ahy	8,760.0	8,763.0

Mud Properties

Daily Cost: 11,912.12 Cost Cum Cost: 1,371,171.92 Cost

Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	T Flowline (°F)
03:30	Oil Base	8,757.0	9.00	53	

PV (cp)	YP (lbf/100ft²)	Filtrate (mL/30min)	HTHP Filtrate (mL/30...	HTHP Pressure (psi)	HTHP Temperature (°F)
17.0	10.000		2.0		250.0

Solids (%)	Sand (%)	MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)
10.0					

Chlorides (ppm)	Calcium (ppm)	Oil Water Ratio	Electric Stab (V)	Lime (lb/bbl)	Low Gravity Solids (%)
		81.1/18.9	1138.0	5.4	6.9

Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Comment
10.000	11.000	

Total AFE + Sup (Cost)
14,234,000.00

AFE Job Cost Summary

Cost Type	AFE Amt (Cost)
DHC	12,770,000.00
CWC	1,464,000.00

Field Estimate Job Cost Summary

Cost Typ	Field Est (Cost)
DHC	11,249,093.69

Daily Summary

Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
87,993.12	11,269,593.42
Daily Mud Field Est (Cost)	**Cum Mud Field Est (Cost)**
11,912.12	1,371,171.92

POL (Personnel on Location)
27.0

Daily Contacts

Job Contact	Title
Mike Reel	Drilling Supt
Eric Burnett	Drilling Engineer
Derrick Berry	Drlg. Foreman
Dean Baker	Sr. Drlg. Foreman

Personnel Log

Company	Count
PIONEER NATURAL RESOURCES	2
NABORS DRILLING INC	2
NABORS DRILLING INC	12
ZECO	2
SELMA	2
NEWPARK	1
BADLANDZER	2
BAKER HUGHES	3
PIONEER NATURAL RESOURCES	1

Weather

Precipitation Amount (in)	Precipitation Type
Temperature - High (°F)	**Temperature - Low (°F)**

Comment

NABORS DRILLING, 169

Rig Type
Drilling - Triple

Rig Start Date	Rig Release Date
11/9/2010	

1, National Supply, 10-P-130

Pump Number
1

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)
3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

2, National Supply, 10-P-130

Pump Number
2

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)
3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

3, Continental Emsco, F-1000

Pump Number
3

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)
3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

Job Supply Amounts

Supply Item Des	Unit Label	Received	Consumed	Cum On Loc
Diesel Fuel	gal us		2,550	6,750

Mud Additive Amounts

Des	Consumed	Cum Cons
BULK TANK	2	190

Safety Summary

BOP Test Date	Last BOP Test	BOP Func Due	HSE Incident	HSE Inc Remark
29/Dec/2010	29/Nov/2010	12/Dec/2010		None

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 12/16/2010
REPORT: 112
DOL: 111
DFS: 85

Rig Name: NABORS DRILLING 169

Depth Progress: 65.00

Daily Summary

Bottom Hole Assembly

BHA Since Insp (hr)	BHA Wt BelowJar (1000lbf)	Hrs on Jars (hr)
Total Hrs on BHA in Hole 142 (67.7 Slide, 74.3 Rotate)	51,720	

BHA #30 , Slick

Bit Run	Drill Bit	Bit Type	Make
17	8 1/2in, M4378PDH, AL5059	Insert	Reed

Nozzles (1/32")	IADC Codes	IADC Bit Dull
28/28/28	627	-------

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)
1.80	15.66	65.00

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)
15.66	65.00	4.2	8,698.0	8,763.0

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
243	Drill Pipe	5	4.276	7,683.71	8,760.99
3	HWDP	5	3.000	92.04	1,077.28
1	Drilling Jars	6 1/4	2.750	32.63	985.24
21	HWDP	5	3.000	644.22	952.61
1	XO Sub	6 3/8	2.812	3.57	308.39
8	Drill Collar	6 1/2	2.813	246.00	304.82
1	Reamer	6 5/8	2.250	5.90	58.82
1	Drill Collar	6 1/2	2.813	30.75	52.92
1	Reamer	6 5/8	2.250	6.47	22.17
1	Drill Collar	6 7/16	2.875	7.85	15.70
1	Roller Reamer - Near Bit	6 5/8	2.250	6.85	7.85

Drilling Parameters

8,698.0 - 8,763.0 ftKB

Start (ftKB)	End Depth...	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note
8,698.0	8,763.0	4.2	42	95		663	2,560.0	

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100...	SO Str Wt (100...	Drill Str Wt (100...	Torque Units	Drilling Torque	Off Btm Tq
15.66	1.75	217	217	175		3,800.0	2,300.0

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/...	Max Open Hole AV (ft...

Casing Strings

Prop Run?	Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
No	Conductor	105.0	105.0	30	ERW	118.00		
No	Surface	4,345.0	4,344.6	13 3/8	K-55	68.00		
No	Intermediate	8,247.0	8,243.4	9 7/8	P-110	62.80	BTC	

Plug Back Total Depths

Date	Depth (ftKB)	Type	Method

Deviation Surveys

Tru-Trak, Proposed? No

Date	Description	Job
9/23/2010	Tru-Trak	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
11/20/2010	7,668.00	4.04						
11/20/2010	7,763.00	3.25						
11/20/2010	7,925.00	4.59						
11/20/2010	8,227.00	2.72						
11/20/2010	8,237.00	2.29						

Dipmeter, Proposed? No

Date	Description	Job
12/7/2010	Dipmeter	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
12/7/2010	8,220.00	4.37	314.17	8,216.43	93.79	-11.99	-93.02	2.38
12/13/2010	8,462.00	1.13		8,458.30				
12/13/2010	8,566.00	1.75		8,562.30				
12/14/2010	8,652.00	2.48		8,648.29				
12/16/2010	8,755.00	2.76		8,751.29				

Mud Additive Amounts

Des	Consumed	Cum Cons
BULK TANK BLOWERS	2	168
Lime	12	972
MUD ENGINEER	1	95
MUD LAB	1	87
OptiDrill OBM (1 bbl/bulk)	55	4,339
Opti-Plus	4	60
Tax	646	67,073

Formations

Formation Name	Final Top MD (ftKB)
Quaternary	80.0
Tertiary Volcanic	1,300.0
Tertiary Undivided	1,830.0
North Horn	3,810.0
UNCONFORMITY	4,345.0
Arapien	4,345.0
FAULT	
Arapien	
Twin Creek	
Gypsum Sprgs Mbr	
Navajo	
Chinle	
TD	

Safety Summary

12/16/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 12/17/2010
REPORT: 113
DOL: 112
DFS: 86

Rig Name: NABORS DRILLING 169

Depth Progress: 96.00

Daily Summary

Property Sub	Field Name	API/UWI	Spud Date
327560-001	WILDCAT	43-023-30021-0000	9/22/2010

KB-Ground Distance (ft)	Original KB Elevation (ft)	KB-Mud Line Distance (ft)
25.00	5,264.00	

Daily Operations

Target Depth (ftKB)	Target Depth (TVD) (ftKB)	End Depth (ftKB)	End Depth (TVD) (ftKB)
9,040.0		8,859.0	

Footage/Meterage (ft)	24 HR ROP (ft/hr)	Drilling Hours (hr)
96.00	4.9	19.71

Avg Connection Gas	Avg Trip Gas	Avg Background Gas	Max Connection Gas	Max Trip Gas	Max Drill Gas
		15.00	20.00		

Operations at Report Time
Drlg at 8859'

Operations Summary
Drill from 8763'- 8813', Rig Service on Mud pump #1, Drill from 8813' to 8856', L/D Thruster and Tru-Track, Wireline survey - 2.98 deg, 220 temp @ 8852', Drilll from 8856' to 8859'

Remarks
BHA Rotating hrs, since last Inspection: 94.86
BHA Slide/drlg hrs, since last Inspection: 67.7

Total OBM lost to date: 4,551 bbls.
OBM lost last hole past 24 hrs: 0 bbls.

Received via Badlanderz:
Weatherford, Vernal --
1) (1) 6-1/2" Drlg Jars
Drilco, Vernal --
1) 12 jts, 5", HWDP (re-conditioned)

28 jts (16 jts on rig pipe racks + 12 jts delivered), 5", HWDP "USEABLE" on location (does NOT include, 24 jts, in hole) -- HWDP belongs to Nabors
TOTAL: 52 jts, 5", HWDP

Operations Next Report Period
Drill 8.5 ", with packed hole assembly

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com	Start Depth (ftKB)	End Depth (ftKB)
06:00	16:45	10.75	ROTD RLG	PP	Rotate drill from 8763-8813', pumps 95X95 spm, 663 gpm, 2630 psi, TDS 90-100 rpm, WOB 41-47K, Torque 4270K ft/lbs. Drilled 50', 10.4 hrs, avg ROP 4.8'/hr Lithology: 8760', 90% Sd, 5% Sh, Trace Dolo, 5% Anhy 8770', 90% Sd, 5% Sh, 5% Anhy 8780', 85 Sd, 5% Sh, 5% Dolo, 5% Gyp 8790', 90% Sd, 5% Sh, 5% Anhy	8,763.0	8,814.0
16:45	17:15	0.50	RIGSER	PP	Rig Service -- tighten pony rod clamp, #1 pump, #2 bay	8,814.0	8,814.0
17:15	02:00	8.75	ROTD RLG	PP	Rotate drill from 8813-8856', pumps 95X95 spm, 663 gpm, 2630 psi, TDS 90-100 rpm, WOB 38-42K, Torque 4270K ft/lbs. Drilled 43', 8.05 hrs, avg ROP 5.3'/hr Lithology: 8800', 90% Sd, 5% Sh, Trace Dolo, 5% Anhy 8810', 90% Sd, 10% gyp, Trace Dolo 8820', 90% Sd, 10% Anhy, Trace Dolo and Shale 8830', 85% Sd, 10% Anhy, 5% Shale 8840', 75% Sd, 15% Gyp, 5% Shale, 5% Dolo	8,814.0	8,856.0
02:00	03:00	1.00	BHA	PP	Back ream off btm and Rack back 1 stand of DP, Break out Thruster and Tru-Track in mouse hole and L/D same.	8,856.0	8,856.0
03:00	04:30	1.50	DEVSUR	PP	RIH w/ Survey tool, Tool failed first run had to make a 2nd run. 2.98 degrees, 220 temp. @ 8852'	8,856.0	8,856.0
04:30	06:00	1.50	ROTD RLG	PP	Rotate drill from 8856-8859', pumps 95X95 spm, 663 gpm, 2630 psi, TDS 90-100 rpm, WOB 38-42K, Torque 4270K ft/lbs. Drilled 3', 1 hr, avg ROP 3'/hr Lithology: 8850', 80% Sd, 10% Gyp, 5% Shale	8,856.0	8,859.0

Mud Properties

Daily Cost: 5,576.76 Cost Cum Cost: 1,376,748.68 Cost

Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	T Flowline (°F)
03:30	Oil Base	8,856.0	9.00	53	

PV (cp)	YP (lbf/100ft²)	Filtrate (mL/30min)	HTHP Filtrate (mL/30...	HTHP Pressure (psi)	HTHP Temperature (°F)
16.0	12.000		2.0		250.0

Solids (%)	Sand (%)	MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)
10.0					

Chlorides (ppm)	Calcium (ppm)	Oil Water Ratio	Electric Stab (V)	Lime (lb/bbl)	Low Gravity Solids (%)
		81.1/18.9	1151.0	5.4	6.9

Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Comment
11.000	13.000	

Bottom Hole Assembly

BHA Since Insp (hr)	BHA Wt BelowJar (1000lbf)	Hrs on Jars (hr)
Total Hrs on BHA in Hole 142 (67.7 Slide, 94.86 Rotate)	51,720	

Total AFE + Sup (Cost)
14,234,000.00

AFE Job Cost Summary

Cost Type	AFE Amt (Cost)
DHC	12,770,000.00
CWC	1,464,000.00

Field Estimate Job Cost Summary

Cost Typ	Field Est (Cost)
DHC	11,335,998.45

Daily Summary

Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
86,904.76	11,356,498.18
Daily Mud Field Est (Cost)	**Cum Mud Field Est (Cost)**
5,576.76	1,376,748.68

POL (Personnel on Location)
27.0

Daily Contacts

Job Contact	Title
Mike Reel	Drilling Supt
Eric Burnett	Drilling Engineer
Derrick Berry	Drlg. Foreman
Dean Baker	Sr. Drlg. Foreman

Personnel Log

Company	Count
PIONEER NATURAL RESOURCES	2
NABORS DRILLING INC	2
NABORS DRILLING INC	12
ZECO	2
SELMA	2
NEWPARK	1
BADLANDZER	2
BAKER HUGHES	3
PIONEER NATURAL RESOURCES	1

Weather

Precipitation Amount (in)	Precipitation Type
Temperature - High (°F)	**Temperature - Low (°F)**

Comment

NABORS DRILLING, 169

Rig Type
Drilling - Triple

Rig Start Date	Rig Release Date
11/9/2010	

1, National Supply, 10-P-130

Pump Number
1

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)
3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

2, National Supply, 10-P-130

Pump Number
2

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)
3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

3, Continental Emsco, F-1000

Pump Number
3

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)
3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

Job Supply Amounts

Supply Item Des	Unit Label	Received	Consumed	Cum On Loc

Mud Additive Amounts

Des	Consumed	Cum Cons
BULK TANK	2	192
BULK TANK BLOWERS	2	170

Safety Summary

BOP Test Date	Last BOP Test	BOP Func Due	HSE Incident	HSE Inc Remark
29/Dec/2010	29/Nov/2010	12/Dec/2010		None

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 12/17/2010
REPORT: 113
DOL: 112
DFS: 86

Rig Name: NABORS DRILLING 169

Depth Progress: 96.00

Daily Summary

BHA #30 , Slick

Bit Run	Drill Bit	Bit Type	Make
17	8 1/2in, M4378PDH, AL5059	Insert	Reed

Nozzles (1/32")	IADC Codes	IADC Bit Dull
28/28/28	627	-------

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)
1.80	35.37	161.00

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)
35.37	161.00	4.6	8,698.0	8,859.0

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
247	Drill Pipe	5	4.276	7,810.99	8,888.27
3	HWDP	5	3.000	92.04	1,077.28
1	Drilling Jars	6 1/4	2.750	32.63	985.24
21	HWDP	5	3.000	644.22	952.61
1	XO Sub	6 3/8	2.812	3.57	308.39
8	Drill Collar	6 1/2	2.813	246.00	304.82
1	Reamer	6 5/8	2.250	5.90	58.82
1	Drill Collar	6 1/2	2.813	30.75	52.92
1	Reamer	6 5/8	2.250	6.47	22.17
1	Drill Collar	6 7/16	2.875	7.85	15.70
1	Roller Reamer - Near Bit	6 5/8	2.250	6.85	7.85

Drilling Parameters

8,763.0 - 8,859.0 ftKB

Start (ftKB)	End Depth...	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note
8,763.0	8,859.0	4.9	38	95		663	2,560.0	

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100...	SO Str Wt (100...	Drill Str Wt (100...	Torque Units	Drilling Torque	Off Btm Tq
19.71	0.50	220	220	185		4,400.0	2,300.0

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/...	Max Open Hole AV (ft...

Casing Strings

Prop Run?	Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
No	Conductor	105.0	105.0	30	ERW	118.00		
No	Surface	4,345.0	4,344.6	13 3/8	K-55	68.00		
No	Intermediate	8,247.0	8,243.4	9 7/8	P-110	62.80	BTC	

Plug Back Total Depths

Date	Depth (ftKB)	Type	Method

Deviation Surveys

Tru-Trak, Proposed? No

Date	Description	Job
9/23/2010	Tru-Trak	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
11/20/2010	7,668.00	4.04						
11/20/2010	7,763.00	3.25						
11/20/2010	7,925.00	4.59						
11/20/2010	8,227.00	2.72						
11/20/2010	8,237.00	2.29						

Dipmeter, Proposed? No

Date	Description	Job
12/7/2010	Dipmeter	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
12/13/2010	8,462.00	1.13		8,458.30				
12/13/2010	8,566.00	1.75		8,562.30				
12/14/2010	8,652.00	2.48		8,648.29				
12/16/2010	8,755.00	2.76		8,751.29				
12/17/2010	8,852.00	2.98		8,848.29				

Mud Additive Amounts

Des	Consumed	Cum Cons
Lime	24	996
MUD ENGINEER	1	96
MUD LAB	1	88
Opti-Clean	2	11
Opti-Plus	3	63
Opti-Thin	2	15
OptiVis RM	7	100
Tax	287	67,361

Formations

Formation Name	Final Top MD (ftKB)
Quaternary	80.0
Tertiary Volcanic	1,300.0
Tertiary Undivided	1,830.0
North Horn	3,810.0
UNCONFORMITY	4,345.0
Arapien	4,345.0
FAULT	
Arapien	
Twin Creek	
Gypsum Sprgs Mbr	
Navajo	
Chinle	
TD	

Safety Summary

12/17/2010

PIONEER NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 12/18/2010
REPORT: 114
DOL: 113
DFS: 87

Rig Name: NABORS DRILLING 169

Depth Progress: 28.00

Daily Summary

Property Sub	Field Name	API/UWI	Spud Date
327560-001	WILDCAT	43-023-30021-0000	9/22/2010

KB-Ground Distance (ft)	Original KB Elevation (ft)	KB-Mud Line Distance (ft)
25.00	5,264.00	

Daily Operations

Target Depth (ftKB)	Target Depth (TVD) (ftKB)	End Depth (ftKB)	End Depth (TVD) (ftKB)
9,040.0		8,887.0	

Footage/Meterage (ft)	24 HR ROP (ft/hr)	Drilling Hours (hr)
28.00	3.2	8.70

Avg Connection Gas	Avg Trip Gas	Avg Background Gas	Max Connection Gas	Max Trip Gas	Max Drill Gas
27.00		10.00	27.00		

Operations at Report Time
Waiting on fishing tools

Operations Summary
Drill from 8859'-8887', ROP decreased, pump press inc, Pump Slug, TOOH, Bit to surface without all 3 cones, Roller Reamers 1/4" out of guage, Wait on hot shot from Vernal with tools from Slaugh Fishing Tools.

Remarks
BHA Rotating hrs, since last Inspection: 103.55
BHA Slide/drlg hrs, since last Inspection: 67.7

Total OBM lost to date: 4,551 bbls.
OBM lost last hole past 24 hrs: 0 bbls.

Received from Smith/Drilco, Vernal --
1) (2) 6-1/4" DC's (reconditioned)
2) (2) 8", DC's (re-conditioned)

Transfer to Wood Group from Franks Westates --
(1) 9-7/8", 62.8 ppf, P-110, BTC, 33' Landing jt, w/ Wood Group Running Tool

Backload via Denton Oil Co:
(2) 6-1/2" Thrusters, to Couger Tools, Oklahoma City, OK

Operations Next Report Period
Fishing for Cones left in Hole

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com	Start Depth (ftKB)	End Depth (ftKB)
06:00	07:30	1.50	ROTD RLG	PP	Rotate drill from 8859-8866', pumps 95X95 spm, 663 gpm, 2660 psi, TDS 90-100 rpm, WOB 38-42K, Torque 4780K ft/lbs. Drilled 7', 1.5 hr, avg ROP 4.7'/hr Lithology: 8860', 75% Sd, 15% Gyp, 5% Sh, 5% Dolo	8,859.0	8,866.0
07:30	08:00	0.50	RIGSE R	PP	Remove BHI Transducer from Mud line.	8,866.0	8,866.0
08:00	09:00	1.00	ROTD RLG	PP	Rotate drill from 8866-8870', pumps 95X95 spm, 663 gpm, 2720-3140 psi, TDS 90-100 rpm, WOB 38-42K, Torque 4380-4860K ft/lbs. Drilled 4', 1 hr, avg ROP 4'/hr Drill from 8885'-8887', ROP avg decreased to 1.5+/-'/hr, torque inc, pump press inc Pump press, 2 pumps inc from 2720+/--3140 psi. 1 pump, press inc 850-1450 psi. Nabors was working on #1 & #2 pumps. Pump press, increase, Rotary torque, inc from 4500+/--7950 ft/lbs, spiking to 14,700 ft/lbs Lithology: 8870', 85% Sd, 5% Gyp, 5% Sh, 5% Dolo	8,866.0	8,870.0
09:00	09:30	0.50	RIGSE R	PP	Rig Service - #1 pump, R&R #1 intake valve, Work on #2 pump, middle bay swab (swab 90% missing)	8,870.0	8,870.0
09:30	14:00	4.50	ROTD RLG	PP	Rotate drill from 8870-8879', pumps 95X95 spm, 663 gpm, 2720-3140 psi, TDS 90-100 rpm, WOB 38-42K, Torque 4380-4860K ft/lbs. Drilled 9', 3.7 hr, avg ROP 2.5'/hr Lithology: 8870', 85% Sd, 5% Gyp, 5% Sh, 5% Dolo	8,870.0	8,879.0
14:00	14:30	0.50	RIGSE R	PP	Cap gaskets leaking on pump #1 & #2, tighten both caps	8,879.0	8,879.0
14:30	17:30	3.00	ROTD RLG	PP	Rotate drill from 8879-8887', pumps 95X95 spm, 663 gpm, 2720-3140 psi, TDS 90-100 rpm, WOB 38-42K, Torque 4380-4860K ft/lbs. Drilled 8', 2.5 hr, avg ROP 3.2'/hr Drill from 8885'-8887', ROP avg decreased to 1.5+/-'/hr, torque inc, pump press inc Pump press, 2 pumps inc from 2720+/--3140 psi. 1 pump, press inc 850-1450 psi. Nabors was working on #1 & #2 pumps. Pump press, increase, Rotary torque, inc from 4500+/--7950 ft/lbs, spiking to 14,700 ft/lbs Lithology: 8880', 75% Sd, 15% Gyp, 5% Sh, 5% Dolo	8,879.0	8,887.0

Total AFE + Sup (Cost)
14,234,000.00

AFE Job Cost Summary

Cost Type	AFE Amt (Cost)
DHC	12,770,000.00
CWC	1,464,000.00

Field Estimate Job Cost Summary

Cost Typ	Field Est (Cost)
DHC	11,428,744.96

Daily Summary

Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
92,746.51	11,449,244.69
Daily Mud Field Est (Cost)	**Cum Mud Field Est (Cost)**
5,716.31	1,382,464.99

POL (Personnel on Location)
27.0

Daily Contacts

Job Contact	Title
Mike Reel	Drilling Supt
Eric Burnett	Drilling Engineer
Derrick Berry	Drlg. Foreman
Dean Baker	Sr. Drlg. Foreman

Personnel Log

Company	Count
PIONEER NATURAL RESOURCES	2
NABORS DRILLING INC	2
NABORS DRILLING INC	12
ZECO	2
SELMA	2
NEWPARK	1
BADLANDZER	2
BAKER HUGHES	3
PIONEER NATURAL RESOURCES	1

Weather

Precipitation Amount (in)	Precipitation Type
3.000	Snow
Temperature - High (°F)	**Temperature - Low (°F)**
28.0	28.0

Comment

NABORS DRILLING, 169

Rig Type
Drilling - Triple

Rig Start Date	Rig Release Date
11/9/2010	

1, National Supply, 10-P-130

Pump Number
1

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)
3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

2, National Supply, 10-P-130

Pump Number
2

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)
3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

3, Continental Emsco, F-1000

Pump Number
3

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)
3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

Job Supply Amounts

Supply Item Des	Unit Label	Received	Consumed	Cum On Loc
Diesel Fuel	gal us		1,725	9,450

Mud Additive Amounts

Des	Consumed	Cum Cons
BULK TANK	2	194

Safety Summary

BOP Test Date	Last BOP Test	BOP Func Due	HSE Incident	HSE Inc Remark
29/Dec/2010	29/Nov/2010	12/Dec/2010	No	None

PIONEER NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 12/18/2010
REPORT: 114
DOL: 113
DFS: 87

Rig Name: NABORS DRILLING 169

Depth Progress: 28.00

Daily Summary

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com	Start Depth (ftKB)	End Depth (ftKB)
17:30	18:45	1.25	CIRSM P	PP	Circ btms up 8887', 85% Sd, 10 Anhy, 5% Sh, slight fluorscense, lots of metal Back ground gas inc from 21-110 units (equates to drill depth of 8885'), dropped to 21u Ready to TOOH after btms up & gas stabilized @ 19u	8,887.0	8,887.0
18:45	19:30	0.75	U_WT	PN	Circ @ 8887' -- Nabors Conducted drug test on employees	8,887.0	8,887.0
19:30	22:45	3.25	TRIP	PP	POOH from 8887'-1077', Pump slug, TOOH BGG 16 units, MWT in/out 8.9 ppg	8,887.0	8,887.0
22:45	23:00	0.25	TRIP	PP	Remove Rotating Rubber and install Trip Nipple	8,887.0	8,887.0
23:00	00:00	1.00	BHA	PP	POOH w/ BHA. All 3 cones from bit left in hole, Roller Reamers 1/4" out of guage, Breakout and LD top rolller reamer.	8,887.0	8,887.0
00:00	06:00	6.00	U_FSH	PN	Called Slaugh fishing tools for Globe junk basket, reverse circulating tool, and Magnet, Waiting on Tools Breakout and L/D middle and Near bit Roller Reamers, as were 1/4" under guage.	8,887.0	8,887.0

Mud Properties

Daily Cost: 5,716.31 Cost Cum Cost: 1,382,464.99 Cost

Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	T Flowline (°F)
03:30	Oil Base	8,887.0	9.00	57	

PV (cp)	YP (lbf/100ft²)	Filtrate (mL/30min)	HTHP Filtrate (mL/30...	HTHP Pressure (psi)	HTHP Temperature (°F)
16.0	12.000		2.0		250.0

Solids (%)	Sand (%)	MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)
10.0					

Chlorides (ppm)	Calcium (ppm)	Oil Water Ratio	Electric Stab (V)	Lime (lb/bbl)	Low Gravity Solids (%)
		81.1/18.9	1114.0	5.4	6.9

Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Comment
11.000	12.000	

Bottom Hole Assembly

BHA Since Insp (hr)	BHA Wt BelowJar (1000lbf)	Hrs on Jars (hr)
Total Hrs on BHA in Hole 142 (67.7 Slide, 103.55 Rotate)	51,720	

BHA #30 , Slick

Bit Run	Drill Bit	Bit Type	Make
17	8 1/2in, M4378PDH, AL5059	Insert	Reed

Nozzles (1/32")	IADC Codes	IADC Bit Dull
28/28/28	627	-------

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)
1.80	44.07	189.00

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)
44.07	189.00	4.3	8,698.0	8,887.0

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
247	Drill Pipe	5	4.276	7,810.99	8,888.27
3	HWDP	5	3.000	92.04	1,077.28
1	Drilling Jars	6 1/4	2.750	32.63	985.24
21	HWDP	5	3.000	644.22	952.61
1	XO Sub	6 3/8	2.812	3.57	308.39
8	Drill Collar	6 1/2	2.813	246.00	304.82
1	Reamer	6 5/8	2.250	5.90	58.82
1	Drill Collar	6 1/2	2.813	30.75	52.92
1	Reamer	6 5/8	2.250	6.47	22.17
1	Drill Collar	6 7/16	2.875	7.85	15.70
1	Roller Reamer - Near Bit	6 5/8	2.250	6.85	7.85

Drilling Parameters

8,859.0 - 8,887.0 ftKB

Start (ftKB)	End Depth...	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note
8,859.0	8,887.0	3.2	48	95		663	2,975.0	

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100...	SO Str Wt (100...	Drill Str Wt (100...	Torque Units	Drilling Torque	Off Btm Tq
8.70	4.00	220	220	185		8,500.0	4,500.0

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/...	Max Open Hole AV (ft...

Casing Strings

Prop Run?	Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
No	Conductor	105.0	105.0	30	ERW	118.00		
No	Surface	4,345.0	4,344.6	13 3/8	K-55	68.00		
No	Intermediate	8,247.0	8,243.4	9 7/8	P-110	62.80	BTC	

Plug Back Total Depths

Date	Depth (ftKB)	Type	Method

Deviation Surveys

Tru-Trak, Proposed? No

Date	Description	Job
9/23/2010	Tru-Trak	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
11/20/2010	7,668.00	4.04						

Mud Additive Amounts

Des	Consumed	Cum Cons
BULK TANK BLOWERS	2	172
Calcium Chloride	30	42
Lime	18	1,014
MUD ENGINEER	1	97
MUD LAB	1	89
Opti-Plus	4	67
Opti-Thin	3	18
Tax	295	67,656

Formations

Formation Name	Final Top MD (ftKB)
Quaternary	80.0
Tertiary Volcanic	1,300.0
Tertiary Undivided	1,830.0
North Horn	3,810.0
UNCONFORMITY	4,345.0
Arapien	4,345.0
FAULT	
Arapien	
Twin Creek	
Gypsum Sprgs Mbr	
Navajo	
Chinle	
TD	

Safety Summary

12/18/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 12/18/2010
REPORT: 114
DOL: 113
DFS: 87

Rig Name: NABORS DRILLING 169

Depth Progress: 28.00

Daily Summary

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
11/20/2010	7,763.00	3.25						
11/20/2010	7,925.00	4.59						
11/20/2010	8,227.00	2.72						
11/20/2010	8,237.00	2.29						

Dipmeter, Proposed? No

Date	Description	Job
12/7/2010	Dipmeter	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
12/13/2010	8,462.00	1.13		8,458.30				
12/13/2010	8,566.00	1.75		8,562.30				
12/14/2010	8,652.00	2.48		8,648.29				
12/16/2010	8,755.00	2.76		8,751.29				
12/17/2010	8,852.00	2.98		8,848.29				

Safety Summary

12/18/2010

PIONEER NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 12/19/2010
REPORT: 115
DOL: 114
DFS: 88

Rig Name: NABORS DRILLING 169

Depth Progress: 0.00

Daily Summary

Property Sub	Field Name	API/UWI	Spud Date
327560-001	WILDCAT	43-023-30021-0000	9/22/2010

KB-Ground Distance (ft)	Original KB Elevation (ft)	KB-Mud Line Distance (ft)
25.00	5,264.00	

Daily Operations

Target Depth (ftKB)	Target Depth (TVD) (ftKB)	End Depth (ftKB)	End Depth (TVD) (ftKB)
9,040.0		8,887.0	

Footage/Meterage (ft)	24 HR ROP (ft/hr)	Drilling Hours (hr)
0.00		

Avg Connection Gas	Avg Trip Gas	Avg Background Gas	Max Connection Gas	Max Trip Gas	Max Drill Gas
10.00		10.00	10.00		

Operations at Report Time
TOOH w/ Junk Basket (2nd run)

Operations Summary
Wait on Fishing Tools, RIH w/ Reverse Circulating junk basket, Circulate and Rotate on btm, TOOH, Retreived 2 Cones and Large amount of metal, Run same back in Hole for (2nd run), Circulate and Rotate on Btm, TOOH 7500' @ repot time.

Remarks
BHA Rotating hrs, since last Inspection: 103.55
BHA Slide/drlg hrs, since last Inspection: 67.7

Total OBM lost to date: 4,551 bbls.
OBM lost last hole past 24 hrs: 0 bbls.

Backload 925 bbls, Base Oil, via, RNI Trucking:
705 bbls Base Oil, from Denton Oil Bulk Plant, to, Newpark, Sandraw
220 bbls, Base Oil from South Hills Federal wellsite, to, Newpark, Sandraw

Operations Next Report Period
Fishing for Cones left in Hole

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com	Start Depth (ftKB)	End Depth (ftKB)
06:00	08:45	2.75	U_WT	PN	Waiting on Fishing Tools	8,887.0	8,887.0
08:45	10:00	1.25	U_FSH	PN	Offload, Measure/Caliper, M/U: 7-3/4" OD, Reverse circ junk catcher	8,887.0	8,887.0
10:00	15:15	5.25	U_FSH	PN	TIH to 8846', Install Rotating Head Assm at 7016' (.5 hr)	8,887.0	8,887.0
15:15	17:00	1.75	U_FSH	PN	Engage TDS, break circ & circ, 95X95 spm, 663 gpm, 2760 psi. Drop 1-11/16' steel ball, allow to free fall 5 min, pump ball down at 42 spm, 146 gpm, 220 psi, pump ball into seat, press inc to 290 psi, inc pump to 60 spm, press 530 psi, inc pump, 95 spm, 332 gpm, 1085 psi, rotate string 30 rpm, slack-off, tag btm. Put 2 pumps on, 60X60 spm, 419 gpm, 1110 psi, TDS 50 rpm, slack-off, tag btm, set down 0-4K wt. P/U, inc pumps to 85X85 spm, 593 gpm, 2050 psi, rotate down, 50 rpm, set down 0-4K wt. P/U, inc pumps to 95X95 spm, 663 gpm, 2480 psi, TDS 50 rpm, set down 4K wt, rotate & circ for approx 5 min. P/U shut down pumps. No indication of cones going in catcher. Formation to hard to cut core.	8,887.0	8,887.0
17:00	22:30	5.50	U_FSH	PN	POOH from 8887'-Junk Catcher, Pulled wet, Pump slug at 6533', Install Trip nipple @ 1255'.	8,887.0	8,887.0
22:30	23:30	1.00	U_FSH	PN	Break Mill Shoe off of Basket, Retreived 2 Cones from bit, and also large pieces of Unkown metal largest piece - (aprox. 1ft long, Curviture- round with markings of being run on roller reamers).	8,887.0	8,887.0
23:30	00:15	0.75	U_FSH	PN	MU Mill shoe, Break top of Reverse circulating basket to retreive Ball.	8,887.0	8,887.0
00:15	04:00	3.75	U_FSH	PN	RIH with Reverse Circulating Junk basket (2nd run) to 8850'.	8,887.0	8,887.0
04:00	04:45	0.75	U_FSH	PN	Engage TDS, break circ & circ, 95X95 spm, 663 gpm, 2760 psi. Drop 1-11/16' steel ball, allow to free fall 5 min, pump ball down at 42 spm, 146 gpm, 220 psi, pump ball into seat, press inc to 270 psi, inc pumps to 180 spm, 628gpm, 2000psi, rotate string 30 rpm, slack-off, tag btm, set down 0-4K wt. P/U, pumps to 90X90 spm, 628 gpm, 2250 psi, TDS 300 rpm, set down 6K wt, rotate & circ for approx 10 min. P/U shut down pumps. No indication of cone going in catcher.	8,887.0	8,887.0
04:45	06:00	1.25	U_FSH	PN	POOH w/ DP from 8887' to 7500'.	8,887.0	8,887.0

Mud Properties

Daily Cost: 738.50 Cost Cum Cost: 1,383,203.49 Cost

Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	T Flowline (°F)
03:30	Oil Base	8,887.0	9.00	57	

PV (cp)	YP (lbf/100ft²)	Filtrate (mL/30min)	HTHP Filtrate (mL/30...	HTHP Pressure (psi)	HTHP Temperature (°F)
16.0	12.000		2.0		250.0

Solids (%)	Sand (%)	MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)
10.0					

Chlorides (ppm)	Calcium (ppm)	Oil Water Ratio	Electric Stab (V)	Lime (lb/bbl)	Low Gravity Solids (%)
		81.1/18.9	1110.0	5.4	6.9

Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Comment
11.000	12.000	

Total AFE + Sup (Cost): 14,234,000.00

AFE Job Cost Summary

Cost Type	AFE Amt (Cost)
DHC	12,770,000.00
CWC	1,464,000.00

Field Estimate Job Cost Summary

Cost Typ	Field Est (Cost)
DHC	11,432,523.46

Daily Summary

Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
3,778.50	11,453,023.19
Daily Mud Field Est (Cost)	**Cum Mud Field Est (Cost)**
738.50	1,383,203.49

POL (Personnel on Location): 23.0

Daily Contacts

Job Contact	Title
Mike Reel	Drilling Supt
Eric Burnett	Drilling Engineer
Derrick Berry	Drlg. Foreman
Dean Baker	Sr. Drlg. Foreman

Personnel Log

Company	Count
PIONEER NATURAL RESOURCES	2
NABORS DRILLING INC	2
NABORS DRILLING INC	12
ZECO	2
SELMA	2
NEWPARK	1
BADLANDZER	2

Weather

Precipitation Amount (in)	Precipitation Type
Temperature - High (°F)	**Temperature - Low (°F)**

Comment

NABORS DRILLING, 169

Rig Type: Drilling - Triple

Rig Start Date	Rig Release Date
11/9/2010	

1, National Supply, 10-P-130

Pump Number: 1

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi): 3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

2, National Supply, 10-P-130

Pump Number: 2

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi): 3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

3, Continental Emsco, F-1000

Pump Number: 3

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi): 3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

Job Supply Amounts

Supply Item Des	Unit Label	Received	Consumed	Cum On Loc

Mud Additive Amounts

Des	Consumed	Cum Cons
BULK TANK	2	196
BULK TANK BLOWERS	2	174
MUD ENGINEER	1	98
MUD LAB	1	90

Safety Summary

BOP Test Date	Last BOP Test	BOP Func Due	HSE Incident	HSE Inc Remark
29/Dec/2010	29/Nov/2010	12/Dec/2010		None

12/19/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Daily Drilling Report

Well Name: South Hills 6-1

Rig Name: NABORS DRILLING 169

Depth Progress: 0.00

REPORT DATE: 12/19/2010
REPORT: 115
DOL: 114
DFS: 88

Daily Summary

Bottom Hole Assembly

BHA Since Insp (hr)	BHA Wt BelowJar (1000lbf)	Hrs on Jars (hr)
Total Hrs on BHA in Hole 142 (67.7 Slide, 103.55 Rotate)	51,270	

BHA #31 , Fishing Assm

Bit Run	Drill Bit	Bit Type	Make
	<szoddrill>in, <model>, <sn>		

Nozzles (1/32")	IADC Codes	IADC Bit Dull
	___	-------

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)
			8,887.0	8,887.0

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
247	Drill Pipe	5	4.276	7,810.99	8,873.92
3	HWDP	5	3.000	92.04	1,062.93
1	Drilling Jars	6 1/4	2.750	32.63	970.89
21	HWDP	5	3.000	644.22	938.26
1	XO Sub	6 3/8	2.812	3.57	294.04
8	Drill Collar	6 1/2	2.813	246.00	290.47
1	Drill Collar	6 1/2	2.813	30.75	44.47
1	Drill Collar	6 7/16	2.875	7.85	13.72
1	X/O	7 3/4	5.875	2.58	5.87
1	Reverse Circ Junk Catcher	7 3/4	6.625	3.29	3.29

Drilling Parameters

8,887.0 - 8,887.0 ftKB

Start (ftKB)	End Depth...	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note
8,887.0	8,887.0							

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100...	SO Str Wt (100...	Drill Str Wt (100...	Torque Units	Drilling Torque	Off Btm Tq

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/...	Max Open Hole AV (ft...

Casing Strings

Prop Run?	Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
No	Conductor	105.0	105.0	30	ERW	118.00		
No	Surface	4,345.0	4,344.6	13 3/8	K-55	68.00		
No	Intermediate	8,247.0	8,243.4	9 7/8	P-110	62.80	BTC	

Plug Back Total Depths

Date	Depth (ftKB)	Type	Method

Deviation Surveys

Tru-Trak, Proposed? No

Date	Description	Job
9/23/2010	Tru-Trak	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
11/20/2010	7,668.00	4.04						
11/20/2010	7,763.00	3.25						
11/20/2010	7,925.00	4.59						
11/20/2010	8,227.00	2.72						
11/20/2010	8,237.00	2.29						

Dipmeter, Proposed? No

Date	Description	Job
12/7/2010	Dipmeter	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
12/13/2010	8,462.00	1.13		8,458.30				
12/13/2010	8,566.00	1.75		8,562.30				
12/14/2010	8,652.00	2.48		8,648.29				
12/16/2010	8,755.00	2.76		8,751.29				
12/17/2010	8,852.00	2.98		8,848.29				

Mud Additive Amounts

Des	Consumed	Cum Cons
Tax	14	67,670

Formations

Formation Name	Final Top MD (ftKB)
Quaternary	80.0
Tertiary Volcanic	1,300.0
Tertiary Undivided	1,830.0
North Horn	3,810.0
UNCONFORMITY	4,345.0
Arapien	4,345.0
FAULT	
Arapien	
Twin Creek	
Gypsum Sprgs Mbr	
Navajo	
Chinle	
TD	

Safety Summary

12/19/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 12/20/2010
REPORT: 116
DOL: 115
DFS: 89

Rig Name: NABORS DRILLING 169

Depth Progress: 4.00

Daily Summary

Property Sub	Field Name	API/UWI	Spud Date
327560-001	WILDCAT	43-023-30021-0000	9/22/2010

KB-Ground Distance (ft)	Original KB Elevation (ft)	KB-Mud Line Distance (ft)
25.00	5,264.00	

Daily Operations

Target Depth (ftKB)	Target Depth (TVD) (ftKB)	End Depth (ftKB)	End Depth (TVD) (ftKB)
9,040.0		8,891.0	

Footage/Meterage (ft)	24 HR ROP (ft/hr)	Drilling Hours (hr)
4.00	2.0	2.00

Avg Connection Gas	Avg Trip Gas	Avg Background Gas	Max Connection Gas	Max Trip Gas	Max Drill Gas
20.00		20.00	20.00		

Operations at Report Time
TOOH w/ Junk Basket (2nd run)

Operations Summary
POOH from 7500'-junk catcher, recovered - metal & Sandstone, L/D fishing tools, M/U Insert bit, boot baskets, roller reamers, TIH to 8867' Washed and Reamed from 8867' to btm @ 8887', worked junk on bottom into boot baskets (circulating and reaming), Rotate drill from 8887' to 8891', end day drilling ahead.

Remarks
BHA Rotating hrs, since last Inspection: 103.55
BHA Slide/drlg hrs, since last Inspection: 67.7

Total OBM lost to date: 4,551 bbls.
OBM lost last hole past 24 hrs: 0 bbls.

Backload total of 880 bbls (made 25bbls correction due to tank strap on location), Base Oil, via, RNI Trucking:
705 bbls Base Oil, from Denton Oil Bulk Plant, to, Newpark, Sandraw
175 bbls, Base Oil from South Hills Federal wellsite, to, Newpark, Sandraw

Operations Next Report Period
Fishing for Cones left in Hole

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com	Start Depth (ftKB)	End Depth (ftKB)
06:00	11:15	5.25	U_FSH	PN	Finish POOH from 7500' - junk catcher, Pull rotating head assm, install trip nipple @ 4021' (30 min)	8,887.0	8,887.0
11:15	12:15	1.00	U_FSH	PN	Break off bottom of reverse circ junk catcher. Recovered: approx 85% sandstone & 15% metal (1 piece of concave/elipitical - folded over, piece of metal - resembles thick sheet metal, several pieces metal shards & sandstone. Sandstone pieces are 1"X3" to 5"X3" wide.	8,887.0	8,887.0
12:15	12:45	0.50	U_FSH	PN	Wait on Orders per drilling ahead	8,887.0	
12:45	14:15	1.50	U_FSH	PN	Break out & L/D, reverse circ junk catcher & subs Move fishing tools off rig floor to cargo basket, Move (2) junk baskets & (3) Roller reamers to catwalk	8,887.0	8,887.0
14:15	15:00	0.75	RIGSER	PP	Service ST-80 pipe handler		
15:00	15:30	0.50	U_FSH	PN	Clean & dress rig floor -- OBM, misc tools	8,887.0	8,887.0
15:30	16:15	0.75	U_FSH	PN	Could not insert float in NB roller reamer, bore was 7-1/16", float OD 7-1/16". Break out & L/D. Move off floor. Move backup NB roller reamer from yard to rig floor.		
16:15	19:15	3.00	U_FSH	PN	M/U: Bit #18 - STC, FHi90YODR, (2) junk baskets, NB Roller reamer (w/ float), pony DC, string roller reamer, 6-1/2" DC, string roller reamer, RIH w/ 6-1/2" DC's to 341'	8,887.0	8,887.0
19:15	00:00	4.75	U_FSH	PN	TIH from 341'-8767', Pull trip nipple, Install rotating head assm and change out rotating rubber at 5042' (.75hrs)	8,887.0	8,887.0
00:00	02:00	2.00	U_FSH	PN	Wash & Ream from 8767'-8870'. M/U TDS, break circ, pumps 65X65 spm, increase to 95X95 spm, 663 gpm, 2200 psi, TDS 25 rpm, TDS torque 2100 ft/lbs (prior to washing). Wash from 8767' to 8870' Lite Ream from 8870'-8884', weight 3-5 lbs, torque 2100 - 2500 ft/lbs Hole out of guage, Ream from 8884-8887', weight 6-8, torque 2300- 2700ft/lbs	8,887.0	8,887.0
02:00	03:45	1.75	U_FSH	PN	Pull off bottom stalled TDS (1400ft/lbs), pulled 15K over, worked back down, broke free. Work junk on bottom at 8887', pumps 95X95 spm, 663 gpm, 2100 psi, TDS 25 rpm, WOB 0-4K, torque 2200-2600 ft/lbs, 5 minutes, P/U 2', shut pumps down. Circ 95X95 spm, 2150 psi, TDS 30 rpm, WOB 0-6K, torque 2100-2600ft/lbs, 5 min, P/U 2', shut pumps down. Circ 95X95 spm, 2150 psi, TDS 30 rpm, WOB 0-6K, torque 2500-4800 ft/lbs, 5 min, P/U 2', shut pumps down. Circ 95X95 spm, 2000 psi, TDS 25 rpm, WOB 0-8K, torque 2900-3300 ft/lbs, 5 min, P/U 2', shut pumps down. Torque smoothed out No indication of junk.	8,887.0	8,887.0

Total AFE + Sup (Cost)
14,234,000.00

AFE Job Cost Summary

Cost Type	AFE Amt (Cost)
DHC	12,770,000.00
CWC	1,464,000.00

Field Estimate Job Cost Summary

Cost Typ	Field Est (Cost)
DHC	11,491,047.96

Daily Summary

Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
58,524.50	11,511,547.69
Daily Mud Field Est (Cost)	**Cum Mud Field Est (Cost)**
738.50	1,383,941.99

POL (Personnel on Location)
24.0

Daily Contacts

Job Contact	Title
Mike Reel	Drilling Supt
Eric Burnett	Drilling Engineer
Derrick Berry	Drlg. Foreman
Dean Baker	Sr. Drlg. Foreman

Personnel Log

Company	Count
PIONEER NATURAL RESOURCES	2
NABORS DRILLING INC	2
NABORS DRILLING INC	12
ZECO	2
SELMA	2
NEWPARK	1
BADLANDZER	2
SLAUGH FISHING SRVCS	1

Weather

Precipitation Amount (in)	Precipitation Type
Temperature - High (°F)	Temperature - Low (°F)

Comment

NABORS DRILLING, 169

Rig Type
Drilling - Triple

Rig Start Date	Rig Release Date
11/9/2010	

1, National Supply, 10-P-130

Pump Number
1

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)
3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

2, National Supply, 10-P-130

Pump Number
2

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)
3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

3, Continental Emsco, F-1000

Pump Number
3

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)
3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

Job Supply Amounts

Supply Item Des	Unit Label	Received	Consumed	Cum On Loc
Diesel Fuel	gal us		1,650	6,350

Mud Additive Amounts

Des	Consumed	Cum Cons
BULK TANK	2	198
BULK TANK BLOWERS	2	176

Safety Summary

BOP Test Date	Last BOP Test	BOP Func Due	HSE Incident	HSE Inc Remark
29/Dec/2010	29/Nov/2010	19/Dec/2010		None

12/20/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 12/20/2010
REPORT: 116
DOL: 115
DFS: 89

Rig Name: NABORS DRILLING 169

Depth Progress: 4.00

Daily Summary

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com	Start Depth (ftKB)	End Depth (ftKB)
03:45	06:00	2.25	ROTD RLG	PP	Rotate drill from 8887-8891', pumps 95X95 spm, 663 gpm, 2050psi, TDS 60 rpm, WOB 20-40K, Torque 2600 ft/lbs. Drilled 4', 2.2 hr, avg ROP 1.8'/hr	8,887.0	8,891.0

Mud Properties

Daily Cost: 738.50 Cost Cum Cost: 1,383,941.99 Cost

Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	T Flowline (°F)
03:30	Oil Base	8,887.0	9.00	60	

PV (cp)	YP (lbf/100ft²)	Filtrate (mL/30min)	HTHP Filtrate (mL/30...	HTHP Pressure (psi)	HTHP Temperature (°F)
16.0	12.000		2.0		250.0

Solids (%)	Sand (%)	MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)
10.0					

Chlorides (ppm)	Calcium (ppm)	Oil Water Ratio	Electric Stab (V)	Lime (lb/bbl)	Low Gravity Solids (%)
		83.3/16.7	1126.0	5.6	6.6

Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Comment
10.000	12.000	

Bottom Hole Assembly

BHA Since Insp (hr)	BHA Wt BelowJar (1000lbf)	Hrs on Jars (hr)
Total Hrs on BHA in Hole 142 (67.7 Slide, 105.71 Rotate)	51,270	

BHA #32 , <Drill String Name?>

Bit Run	Drill Bit	Bit Type	Make
	<szoddrill>in, FHi900YODR, PP9054	Insert	Smith

Nozzles (1/32")	IADC Codes	IADC Bit Dull
28/28/28	837Y	-------

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)
1.80	2.00	4.00

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)
2.00	4.00	2.0	8,887.0	8,891.0

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
247	Drill Pipe	5	4.276	7,810.99	8,893.63
3	HWDP	5	3.000	92.04	1,082.64
1	Drilling Jars	6 1/4	2.750	32.63	990.60
21	HWDP	5	3.000	644.22	957.97
1	XO Sub	6 3/8	2.812	3.57	313.75
8	Drill Collar	6 1/2	2.813	246.00	310.18
1	Reamer	6 5/8	2.250	5.87	64.18
1	Drill Collar	6 1/2	2.813	30.75	58.31
1	Reamer	6 5/8	2.250	5.82	27.56
1	Pony Drill Collar	6 7/16	2.875	7.85	21.74
1	Junk Sub	6 9/16	2.375	3.50	13.89
1	Junk Sub	7	2.375	3.52	10.39
1	Roller Reamer - Near Bit	6 5/8	2.250	6.87	6.87

Drilling Parameters

8,887.0 - 8,891.0 ftKB

Start (ftKB)	End Depth...	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note
8,887.0	8,891.0	2.0	40	60		663	2,000.0	

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100...	SO Str Wt (100...	Drill Str Wt (100...	Torque Units	Drilling Torque	Off Btm Tq
2.00	4.00	222	222	192		2,500.0	

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/...	Max Open Hole AV (ft...

Casing Strings

Prop Run?	Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
No	Conductor	105.0	105.0	30	ERW	118.00		
No	Surface	4,345.0	4,344.6	13 3/8	K-55	68.00		
No	Intermediate	8,247.0	8,243.4	9 7/8	P-110	62.80	BTC	

Plug Back Total Depths

Date	Depth (ftKB)	Type	Method

Deviation Surveys

Tru-Trak, Proposed? No

Date	Description	Job
9/23/2010	Tru-Trak	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
11/20/2010	7,668.00	4.04						
11/20/2010	7,763.00	3.25						
11/20/2010	7,925.00	4.59						
11/20/2010	8,227.00	2.72						
11/20/2010	8,237.00	2.29						

Dipmeter, Proposed? No

Date	Description	Job
12/7/2010	Dipmeter	EXD, 9/22/2010 09:00

Mud Additive Amounts

Des	Consumed	Cum Cons
MUD ENGINEER	1	99
MUD LAB	1	91
Tax	14	67,683

Formations

Formation Name	Final Top MD (ftKB)
Quaternary	80.0
Tertiary Volcanic	1,300.0
Tertiary Undivided	1,830.0
North Horn	3,810.0
UNCONFORMITY	4,345.0
Arapien	4,345.0
FAULT	
Arapien	
Twin Creek	
Gypsum Sprgs Mbr	
Navajo	
Chinle	
TD	

Safety Summary

12/20/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 12/20/2010
REPORT: 116
DOL: 115
DFS: 89

Rig Name: NABORS DRILLING 169

Depth Progress: 4.00

Daily Summary

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
12/13/2010	8,462.00	1.13		8,458.30				
12/13/2010	8,566.00	1.75		8,562.30				
12/14/2010	8,652.00	2.48		8,648.29				
12/16/2010	8,755.00	2.76		8,751.29				
12/17/2010	8,852.00	2.98		8,848.29				

Safety Summary

12/20/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 12/21/2010
REPORT: 117
DOL: 116
DFS: 90

Rig Name: NABORS DRILLING 169

Depth Progress: 67.00

Daily Summary

Property Sub	Field Name	API/UWI	Spud Date
327560-001	WILDCAT	43-023-30021-0000	9/22/2010

KB-Ground Distance (ft)	Original KB Elevation (ft)	KB-Mud Line Distance (ft)
25.00	5,264.00	

Daily Operations

Target Depth (ftKB)	Target Depth (TVD) (ftKB)	End Depth (ftKB)	End Depth (TVD) (ftKB)
9,040.0		8,958.0	

Footage/Meterage (ft)	24 HR ROP (ft/hr)	Drilling Hours (hr)
67.00	3.1	21.65

Avg Connection Gas	Avg Trip Gas	Avg Background Gas	Max Connection Gas	Max Trip Gas	Max Drill Gas
24.00		24.00	24.00		

Operations at Report Time
Drilling @ 8958'

Operations Summary
Drill from 8891'- 8958', Wireline Survey- 4.15degrees, 202 temp, Rig Service on TDS, will resume drilling.

Remarks
BHA Rotating hrs, since last Inspection: 125.2
BHA Slide/drlg hrs, since last Inspection: 67.7

Total OBM lost to date: 4,551 bbls.
OBM lost last hole past 24 hrs: 0 bbls.

Backload 115 bbls Base Oil, via, RNI Trucking, from South Hills wellsite, to, Newpark, Sandraw

Operations Next Report Period
Drill ahead

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com	Start Depth (ftKB)	End Depth (ftKB)
06:00	04:45	22.75	ROTD RLG	PP	Rotate drill from 8891-8958', pumps 90X90 spm, 628 gpm, 2350psi, TDS 62 rpm, WOB 20-40K, Torque 2600 ft/lbs. Drilled 67', 21.65 hr, avg ROP 3'/hr Lithology: 8895', 90% Sd, 10% Gyp, no fluorescence, small amount of metal. 8900', 90% Sd, 10% Gyp, no fluorescence, small amount of metal. 8910', 75% Sd, 25% Gyp, no fluorescence, no metal 8920', 80% Sd, 20% Gyp, no fluor 8930', 85% Sd, 15% Gyp, no fluor 8940', 85% Sd, 15% Gyp, no fluor 8950', 90% Sd, 10% Gyp, no flour	8,891.0	8,958.0
04:45	05:30	0.75	DEVS UR	PP	Wireline Survey- @ 8955' 4.15 degrees, 202 Temp,	8,958.0	8,958.0
05:30	06:00	0.50	RIGSE R	PP	Rig Service on TDS	8,958.0	8,958.0

Mud Properties

Daily Cost: 2,787.06 Cost Cum Cost: 1,386,729.05 Cost

Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	T Flowline (°F)
03:30	Oil Base	8,955.0	9.00	58	

PV (cp)	YP (lbf/100ft²)	Filtrate (mL/30min)	HTHP Filtrate (mL/30...	HTHP Pressure (psi)	HTHP Temperature (°F)
16.0	14.000		2.0		250.0

Solids (%)	Sand (%)	MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)
10.0					

Chlorides (ppm)	Calcium (ppm)	Oil Water Ratio	Electric Stab (V)	Lime (lb/bbl)	Low Gravity Solids (%)
		84.4/15.6	1164.0	5.7	6.4

Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Comment
9.000	10.000	

Bottom Hole Assembly

BHA Since Insp (hr)	BHA Wt BelowJar (1000lbf)	Hrs on Jars (hr)
Total Hrs on BHA in Hole 142 (67.7 Slide, 125.2 Rotate)	51,270	

BHA #32 , Slick

Bit Run	Drill Bit	Bit Type	Make
	<szoddrill>in, FHi900YODR, PP9054	Insert	Smith

Nozzles (1/32")	IADC Codes	IADC Bit Dull
28/28/28	837Y	-------

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)
1.80	23.65	71.00

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)
23.65	71.00	3.0	8,887.0	8,958.0

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
249	Drill Pipe	5	4.276	7,874.62	8,957.26
3	HWDP	5	3.000	92.04	1,082.64
1	Drilling Jars	6 1/4	2.750	32.63	990.60
21	HWDP	5	3.000	644.22	957.97
1	XO Sub	6 3/8	2.812	3.57	313.75
8	Drill Collar	6 1/2	2.813	246.00	310.18
1	Reamer	6 5/8	2.250	5.87	64.18
1	Drill Collar	6 1/2	2.813	30.75	58.31
1	Reamer	6 5/8	2.250	5.82	27.56
1	Pony Drill Collar	6 7/16	2.875	7.85	21.74
1	Roller Reamer - Near Bit	6 5/8	2.250	6.87	13.89
1	Junk Sub	6 9/16	2.375	3.50	7.02
1	Junk Sub	7	2.375	3.52	3.52

Total AFE + Sup (Cost)
14,234,000.00

AFE Job Cost Summary

Cost Type	AFE Amt (Cost)
DHC	12,770,000.00
CWC	1,464,000.00

Field Estimate Job Cost Summary

Cost Typ	Field Est (Cost)
DHC	11,556,349.02

Daily Summary

Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
65,301.06	11,576,848.75
Daily Mud Field Est (Cost)	**Cum Mud Field Est (Cost)**
2,787.06	1,386,729.05

POL (Personnel on Location)
23.0

Daily Contacts

Job Contact	Title
Mike Reel	Drilling Supt
Eric Burnett	Drilling Engineer
Derrick Berry	Drlg. Foreman
Dean Baker	Sr. Drlg. Foreman

Personnel Log

Company	Count
PIONEER NATURAL RESOURCES	2
NABORS DRILLING INC	2
NABORS DRILLING INC	12
ZECO	2
SELMA	2
NEWPARK	1
BADLANDZER	2

Weather

Precipitation Amount (in)	Precipitation Type
Temperature - High (°F)	**Temperature - Low (°F)**

Comment

NABORS DRILLING, 169

Rig Type
Drilling - Triple

Rig Start Date	Rig Release Date
11/9/2010	

1, National Supply, 10-P-130

Pump Number
1

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)
3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

2, National Supply, 10-P-130

Pump Number
2

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)
3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

3, Continental Emsco, F-1000

Pump Number
3

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)
3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

Job Supply Amounts

Supply Item Des	Unit Label	Received	Consumed	Cum On Loc
Diesel Fuel	gal us	4,775	2,125	9,000

Mud Additive Amounts

Des	Consumed	Cum Cons
BULK TANK	2	200
BULK TANK BLOWERS	2	178
GSX-509	3	76

Safety Summary

BOP Test Date	Last BOP Test	BOP Func Due	HSE Incident	HSE Inc Remark
29/Dec/2010	29/Dec/2010	19/Dec/2010		None

12/21/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 12/21/2010
REPORT: 117
DOL: 116
DFS: 90

Rig Name: NABORS DRILLING 169

Depth Progress: 67.00

Daily Summary

Drilling Parameters

8,891.0 - 8,958.0 ftKB

Start (ftKB)	End Depth…	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note
8,891.0	8,958.0	3.1	35	60		628	2,300.0	

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100…	SO Str Wt (100…	Drill Str Wt (100…	Torque Units	Drilling Torque	Off Btm Tq
21.65	0.50	225	225	192		2,500.0	

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/…	Max Open Hole AV (ft…

Casing Strings

Prop Run?	Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
No	Conductor	105.0	105.0	30	ERW	118.00		
No	Surface	4,345.0	4,344.6	13 3/8	K-55	68.00		
No	Intermediate	8,247.0	8,243.4	9 7/8	P-110	62.80	BTC	

Plug Back Total Depths

Date	Depth (ftKB)	Type	Method

Deviation Surveys

Tru-Trak, Proposed? No

Date	Description	Job
9/23/2010	Tru-Trak	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
11/20/2010	7,668.00	4.04						
11/20/2010	7,763.00	3.25						
11/20/2010	7,925.00	4.59						
11/20/2010	8,227.00	2.72						
11/20/2010	8,237.00	2.29						

Dipmeter, Proposed? No

Date	Description	Job
12/7/2010	Dipmeter	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
12/13/2010	8,566.00	1.75		8,562.30				
12/14/2010	8,652.00	2.48		8,648.29				
12/16/2010	8,755.00	2.76		8,751.29				
12/17/2010	8,852.00	2.98		8,848.29				
12/21/2010	8,955.00	4.15		8,951.29				

Mud Additive Amounts

Des	Consumed	Cum Cons
Lime	12	1,026
MUD ENGINEER	1	100
MUD LAB	1	92
Opti-Plus	2	69
Tax	129	67,813

Formations

Formation Name	Final Top MD (ftKB)
Quaternary	80.0
Tertiary Volcanic	1,300.0
Tertiary Undivided	1,830.0
North Horn	3,810.0
UNCONFORMITY	4,345.0
Arapien	4,345.0
FAULT	
Arapien	
Twin Creek	
Gypsum Sprgs Mbr	
Navajo	
Chinle	
TD	

Safety Summary

12/21/2010

PIONEER NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 12/22/2010
REPORT: 118
DOL: 117
DFS: 91

Rig Name: NABORS DRILLING 169

Depth Progress: 15.00

Daily Summary

Property Sub	Field Name	API/UWI	Spud Date
327560-001	WILDCAT	43-023-30021-0000	9/22/2010

KB-Ground Distance (ft)	Original KB Elevation (ft)	KB-Mud Line Distance (ft)
25.00	5,264.00	

Daily Operations

Target Depth (ftKB)	Target Depth (TVD) (ftKB)	End Depth (ftKB)	End Depth (TVD) (ftKB)
9,040.0		8,973.0	

Footage/Meterage (ft)	24 HR ROP (ft/hr)	Drilling Hours (hr)
15.00	2.0	7.35

Avg Connection Gas	Avg Trip Gas	Avg Background Gas	Max Connection Gas	Max Trip Gas	Max Drill Gas
17.00		17.00	17.00		

Operations at Report Time
TIH @ 8909'

Operations Summary
Drill from 8958' - 8973', POOH to 7583', Slip and Cut 200' of drill line, TOOH, L/D 1-boot basket and replace 2-Roller Reamers, M/U new bit (Smith insert 647), TIH to 8910'

Remarks
BHA Rotating hrs, since last Inspection: 125.2
BHA Slide/drlg hrs, since last Inspection: 67.7

Total OBM lost to date: 4,551 bbls.
OBM lost last hole past 24 hrs: 0 bbls.

Operations Next Report Period
Drill ahead

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com	Start Depth (ftKB)	End Depth (ftKB)
06:00	11:45	5.75	ROTD RLG	PP	Rotate drill from 8958-8973', pumps 90X90-80x80 spm, 628-558 gpm, 2350-1995psi, TDS 62 rpm, WOB 32-40K, Torque 2600-3050 ft/lbs. Drilled 15', 7.35 hrs, avg ROP 2 '/hr Lithology: 8960', 80% Sd, 20% Gyp, no fluorescence 8970', 80% Sd, 20% Gyp, no fluorescence	8,958.0	8,973.0
11:45	12:45	1.00	CIRSM P	PP	Circ btms up, 95X95 spm, 2680 psi, 663 gpm, BGG 29 units, MWT 9.0 ppg, in/out	8,973.0	8,973.0
12:45	13:15	0.50	U_OTR	PN	Clean ice & heavy snow out of derrick	8,973.0	8,973.0
13:15	14:00	0.75	TRIP	PP	POOH from 8973'-8505', no hole issues, ice falling out of derrick	8,973.0	8,973.0
14:00	14:30	0.50	U_OTR	PN	Remove ice & heavy snow off derrick, safety hazzard, due to falling on personel	8,973.0	8,973.0
14:30	15:15	0.75	TRIP	PP	TOOH from 8505'-7583'	8,973.0	8,973.0
15:15	19:30	4.25	RIGSE R	PP	Slip & cut 200' drill line (line was pinched), service TDS, dropped objects inspection	8,973.0	8,973.0
19:30	23:30	4.00	TRIP	PP	POOH from 7583'-Bit, Remove rotating head @ 1145' (15mins)	8,973.0	8,973.0
23:30	01:45	2.25	BHA	PP	LD/ 1-boot basket and replace Near bit Reamer and middle Reamer (1/8" out of guage), Bit Grade 2 -1 missing 4 buttons and some broken, still in guage, M/U: Bit #19 - STC, F67YD, (1) junk baskets, NB Roller reamer (w/ float), pony DC, string roller reamer, 6-1/2" DC, string roller reamer, RIH w/ 6-1/2" DC's to 341'	8,973.0	8,973.0
01:45	05:45	4.00	TRIP	PP	TIH from 341' to 4780' (fill pipe), TIH to 8909',	8,973.0	8,973.0
05:45	06:00	0.25	RMWA SH	PP	Engage TDS, Fill Pipe, Break Circulation, pumps 65X65 inc to 95X95 @ report time, will wash and ream to bottom @ 8973'.	8,973.0	8,973.0

Mud Properties

Daily Cost: 8,354.56 Cost Cum Cost: 1,395,083.61 Cost

Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	T Flowline (°F)
03:30	Oil Base	8,973.0	9.00	58	

PV (cp)	YP (lbf/100ft²)	Filtrate (mL/30min)	HTHP Filtrate (mL/30...	HTHP Pressure (psi)	HTHP Temperature (°F)
15.0	14.000		2.0		250.0

Solids (%)	Sand (%)	MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)
10.0					

Chlorides (ppm)	Calcium (ppm)	Oil Water Ratio	Electric Stab (V)	Lime (lb/bbl)	Low Gravity Solids (%)
		85.6/14.4	1164.0	5.7	6.2

Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Comment
9.000	10.000	

Bottom Hole Assembly

BHA Since Insp (hr)	BHA Wt BelowJar (1000lbf)	Hrs on Jars (hr)
Total Hrs on BHA in Hole 142 (67.7 Slide, 125.2 Rotate)	51,270	

BHA #32 , Slick

Bit Run	Drill Bit	Bit Type	Make
18	8 1/2in, FHi900YODR, PP9054	Insert	Smith

Nozzles (1/32")	IADC Codes	IADC Bit Dull
28/28/28	837Y	-------

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)
1.80	31.00	86.00

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)
31.00	86.00	2.8	8,887.0	8,973.0

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
249	Drill Pipe	5	4.276	7,874.62	8,957.83
3	HWDP	5	3.000	92.04	1,083.21
1	Drilling Jars	6 1/4	2.750	32.63	991.17

Total AFE + Sup (Cost)
14,234,000.00

AFE Job Cost Summary

Cost Type	AFE Amt (Cost)
DHC	12,770,000.00
CWC	1,464,000.00

Field Estimate Job Cost Summary

Cost Typ	Field Est (Cost)
DHC	11,726,278.58

Daily Summary

Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
169,929.56	11,746,778.31
Daily Mud Field Est (Cost)	**Cum Mud Field Est (Cost)**
8,354.56	1,395,083.61

POL (Personnel on Location)
23.0

Daily Contacts

Job Contact	Title
Mike Reel	Drilling Supt
Eric Burnett	Drilling Engineer
Derrick Berry	Drlg. Foreman
Dean Baker	Sr. Drlg. Foreman

Personnel Log

Company	Count
PIONEER NATURAL RESOURCES	2
NABORS DRILLING INC	2
NABORS DRILLING INC	12
ZECO	2
SELMA	2
NEWPARK	1
BADLANDZER	2

Weather

Precipitation Amount (in)	Precipitation Type
Temperature - High (°F)	**Temperature - Low (°F)**

Comment

NABORS DRILLING, 169

Rig Type
Drilling - Triple

Rig Start Date	Rig Release Date
11/9/2010	

1, National Supply, 10-P-130

Pump Number
1

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)
3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

2, National Supply, 10-P-130

Pump Number
2

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)
3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

3, Continental Emsco, F-1000

Pump Number
3

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)
3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

Job Supply Amounts

Supply Item Des	Unit Label	Received	Consumed	Cum On Loc
Diesel Fuel	gal us		1,950	7,050

Mud Additive Amounts

Des	Consumed	Cum Cons
BULK TANK	2	202
BULK TANK BLOWERS	2	180
GSX-509	5	81

Safety Summary

BOP Test Date	Last BOP Test	BOP Func Due	HSE Incident	HSE Inc Remark
29/Dec/2010	29/Dec/2010	19/Dec/2010		None

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 12/22/2010
REPORT: 118
DOL: 117
DFS: 91

Rig Name: NABORS DRILLING 169

Depth Progress: 15.00

Daily Summary

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
21	HWDP	5	3.000	644.22	958.54
1	XO Sub	6 3/8	2.812	3.57	314.32
8	Drill Collar	6 1/2	2.813	246.00	310.75
1	Reamer	6 5/8	2.250	5.87	64.75
1	Drill Collar	6 1/2	2.813	30.75	58.88
1	Reamer	6 5/8	2.250	6.42	28.13
1	Pony Drill Collar	6 7/16	2.875	7.85	21.71
1	Roller Reamer - Near Bit	6 5/8	2.250	6.84	13.86
1	Junk Sub	6 9/16	2.375	3.50	7.02
1	Junk Sub	6 9/16	2.374	3.52	3.52

Drilling Parameters

8,958.0 - 8,973.0 ftKB

Start (ftKB)	End Depth...	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note
8,958.0	8,973.0	2.0	35	60		628	2,300.0	

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100...	SO Str Wt (100...	Drill Str Wt (100...	Torque Units	Drilling Torque	Off Btm Tq
7.35	1.50	225	225	192		2,500.0	

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/...	Max Open Hole AV (ft...

BHA #33 , Slick

Bit Run	Drill Bit	Bit Type	Make
19	8 1/2in, F67YD, PL0877	Insert	Smith

Nozzles (1/32")	IADC Codes	IADC Bit Dull
28/28/28	647Y	-------

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)
1.80		

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)
			8,973.0	8,973.0

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
249	Drill Pipe	5	4.276	7,874.62	8,955.31
3	HWDP	5	3.000	92.04	1,080.69
1	Drilling Jars	6 1/4	2.750	32.63	988.65
21	HWDP	5	3.000	644.22	956.02
1	XO Sub	6 3/8	2.812	3.57	311.80
8	Drill Collar	6 1/2	2.813	246.00	308.23
1	Reamer	6 5/8	2.250	5.87	62.23
1	Drill Collar	6 1/2	2.813	30.75	56.36
1	Reamer	6 5/8	2.250	6.42	25.61
1	Pony Drill Collar	6 7/16	2.875	7.85	19.19
1	Roller Reamer - Near Bit	6 5/8	2.250	6.84	11.34
1	Junk Sub	6 9/16	2.375	3.50	4.50

Drilling Parameters

8,973.0 - 8,973.0 ftKB

Start (ftKB)	End Depth...	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note
8,973.0	8,973.0							

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100...	SO Str Wt (100...	Drill Str Wt (100...	Torque Units	Drilling Torque	Off Btm Tq

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/...	Max Open Hole AV (ft...

Casing Strings

Prop Run?	Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
No	Conductor	105.0	105.0	30	ERW	118.00		
No	Surface	4,345.0	4,344.6	13 3/8	K-55	68.00		
No	Intermediate	8,247.0	8,243.4	9 7/8	P-110	62.80	BTC	

Plug Back Total Depths

Date	Depth (ftKB)	Type	Method

Deviation Surveys

Tru-Trak, Proposed? No

Date	Description	Job
9/23/2010	Tru-Trak	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
11/20/2010	7,668.00	4.04						
11/20/2010	7,763.00	3.25						
11/20/2010	7,925.00	4.59						
11/20/2010	8,227.00	2.72						
11/20/2010	8,237.00	2.29						

Dipmeter, Proposed? No

Date	Description	Job
12/7/2010	Dipmeter	EXD, 9/22/2010 09:00

Mud Additive Amounts

Des	Consumed	Cum Cons
Lime	18	1,044
MUD ENGINEER	1	101
MUD LAB	1	93
OptiDrill OBM (1 bbl/bulk)		4,339
Opti-Plus	4	73
Opti-Thin	6	24
Pallets		171
Tax	331	68,143
Trucking	2,010	141,340

Formations

Formation Name	Final Top MD (ftKB)
Quaternary	80.0
Tertiary Volcanic	1,300.0
Tertiary Undivided	1,830.0
North Horn	3,810.0
UNCONFORMITY	4,345.0
Arapien	4,345.0
FAULT	
Arapien	
Twin Creek	
Gypsum Sprgs Mbr	
Navajo	
Chinle	
TD	

Safety Summary

12/22/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Daily Drilling Report

Well Name: South Hills 6-1

Rig Name: NABORS DRILLING 169

Depth Progress: 15.00

REPORT DATE: 12/22/2010
REPORT: 118
DOL: 117
DFS: 91

Daily Summary

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
12/13/2010	8,566.00	1.75		8,562.30				
12/14/2010	8,652.00	2.48		8,648.29				
12/16/2010	8,755.00	2.76		8,751.29				
12/17/2010	8,852.00	2.98		8,848.29				
12/21/2010	8,955.00	4.15		8,951.29				

Safety Summary

12/22/2010

PIONEER NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 12/23/2010
REPORT: 120
DOL: 119
DFS: 92

Rig Name: NABORS DRILLING 169

Depth Progress: 57.00

Daily Summary

Property Sub	Field Name	API/UWI	Spud Date
327560-001	WILDCAT	43-023-30021-0000	9/22/2010

KB-Ground Distance (ft)	Original KB Elevation (ft)	KB-Mud Line Distance (ft)
25.00	5,264.00	

Daily Operations

Target Depth (ftKB)	Target Depth (TVD) (ftKB)	End Depth (ftKB)	End Depth (TVD) (ftKB)
9,040.0		9,030.0	

Footage/Meterage (ft)	24 HR ROP (ft/hr)	Drilling Hours (hr)
57.00	3.0	19.20

Avg Connection Gas	Avg Trip Gas	Avg Background Gas	Max Connection Gas	Max Trip Gas	Max Drill Gas
21.00		21.00	21.00		

Operations at Report Time
TOOH @ 5000' bit depth

Operations Summary
Wash to Bottom from 8920' to 8973', Break in bit, Rotate Drill from 8973' to 9030', Circ btms up, POOH from 9030' to 5000'

Remarks
BHA Rotating hrs, since last Inspection: 144.43
BHA Slide/drlg hrs, since last Inspection: 67.7

Total OBM lost to date: 4,551 bbls.
OBM lost last hole past 24 hrs: 0 bbls.

Operations Next Report Period
Logging Operations

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com	Start Depth (ftKB)	End Depth (ftKB)
06:00	07:00	1.00	RMWASH	PP	Washed to bottom for safety from 8,920', to 8,973', no problems, no torque, no indication of junk on bottom, no fill.	8,973.0	8,973.0
07:00	08:30	1.50	ROTDRLG	PP	Break in bit slowly @ 8,973', adding weight, and adjusting top drive rpm's for Max. rop. Pumps : 75/ 75, pump pressure : 1,857 psi, top drive rpm's : 50 - 69 , top drive torque : 2,500 ft/lbs. Rotate Drilled from : 8,973', to 8,975' , average rop : 1.5 ft/hr.	8,973.0	8,975.0
08:30	09:00	0.50	RIGSER	PP	Pumps down, repaired # 1 mud pump, suction problem. Started # 3 stand by pump, and put same on line.	8,975.0	8,975.0
09:00	02:45	17.75	ROTDRLG	PP	Rotate Drilled from : 8,973' , to 9030', average rop : 3 ft/hr. Pumps : 75/ 75, pump pressure : 1,857 psi, top drive rpm's : 50 - 69 , top drive torque : 2,500 ft/lbs. Changed drilling parameters , adding weight, and adjusting top drive rpm's for max. rop, failed . Formation per Loggers : 8980'- 85% Sd, 5 Dolo, 10 Gyp 8990'- 90% Sd, 10% Gyp 9000'- 85% Sd, 15% Gyp 9010'- 90% Sd, 10% Gyp 9020'- 90% Sd, 10% Gyp 9030'- 90% Sd, 10% Gyp	8,975.0	9,030.0
02:45	04:00	1.25	CIRC	PP	Circulate - Clean and Condition Hole for Wireline Logs and pump Slug.	9,030.0	9,030.0
04:00	06:00	2.00	TRIP	PP	TOOH from 9030' to 5000'.	9,030.0	

Mud Properties

Daily Cost: 4,902.13 Cost Cum Cost: 1,399,985.74 Cost

Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	T Flowline (°F)
03:30	Oil Base	9,030.0	9.00	55	

PV (cp)	YP (lbf/100ft²)	Filtrate (mL/30min)	HTHP Filtrate (mL/30...	HTHP Pressure (psi)	HTHP Temperature (°F)
16.0	13.000		2.0		250.0

Solids (%)	Sand (%)	MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)
10.0					

Chlorides (ppm)	Calcium (ppm)	Oil Water Ratio	Electric Stab (V)	Lime (lb/bbl)	Low Gravity Solids (%)
		85.6/14.4	1160.0	5.8	6.2

Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Comment
8.000	10.000	

Bottom Hole Assembly

BHA Since Insp (hr)	BHA Wt BelowJar (1000lbf)	Hrs on Jars (hr)
Total Hrs on BHA in Hole 142 (67.7 Slide, 144.43 Rotate)		

BHA #33 , Slick

Bit Run	Drill Bit	Bit Type	Make
19	8 1/2in, F67YD, PL0877	Insert	Smith

Nozzles (1/32")	IADC Codes	IADC Bit Dull
28/28/28	647Y	-------

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)
1.80	19.20	57.00

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)
19.20	57.00	3.0	8,973.0	9,030.0

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
252	Drill Pipe	5	4.276	7,970.17	9,050.86
3	HWDP	5	3.000	92.04	1,080.69
1	Drilling Jars	6 1/4	2.750	32.63	988.65
21	HWDP	5	3.000	644.22	956.02
1	XO Sub	6 3/8	2.812	3.57	311.80
8	Drill Collar	6 1/2	2.813	246.00	308.23

Total AFE + Sup (Cost): 14,234,000.00

AFE Job Cost Summary

Cost Type	AFE Amt (Cost)
DHC	12,770,000.00
CWC	1,464,000.00

Field Estimate Job Cost Summary

Cost Typ	Field Est (Cost)
DHC	12,121,580.40

Daily Summary

Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
225,372.26	12,142,080.13
Daily Mud Field Est (Cost)	**Cum Mud Field Est (Cost)**
4,902.13	1,399,985.74

POL (Personnel on Location): 23.0

Daily Contacts

Job Contact	Title
Mike Reel	Drilling Supt
Eric Burnett	Drilling Engineer
Derrick Berry	Drlg. Foreman
Noah Dupuis	Drlg. Foreman

Personnel Log

Company	Count
PIONEER NATURAL RESOURCES	2
NABORS DRILLING INC	2
NABORS DRILLING INC	12
ZECO	2
SELMA	2
NEWPARK	1
BADLANDZER	2

Weather

Precipitation Amount (in)	Precipitation Type
Temperature - High (°F)	**Temperature - Low (°F)**

Comment

NABORS DRILLING, 169

Rig Type: Drilling - Triple

Rig Start Date	Rig Release Date
11/9/2010	

1, National Supply, 10-P-130

Pump Number: 1

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi): 3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

2, National Supply, 10-P-130

Pump Number: 2

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi): 3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

3, Continental Emsco, F-1000

Pump Number: 3

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi): 3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

Job Supply Amounts

Supply Item Des	Unit Label	Received	Consumed	Cum On Loc
Diesel Fuel	gal us	6,750	2,025	11,775

Mud Additive Amounts

Des	Consumed	Cum Cons
BULK TANK	2	204
BULK TANK BLOWERS	2	182
GSX-509	4	85

Safety Summary

BOP Test Date	Last BOP Test	BOP Func Due	HSE Incident	HSE Inc Remark
29/Dec/2010	29/Nov/2010	29/Dec/2010		

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 12/23/2010
REPORT: 120
DOL: 119
DFS: 92

Rig Name: NABORS DRILLING 169

Depth Progress: 57.00

Daily Summary

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
1	Reamer	6 5/8	2.250	5.87	62.23
1	Drill Collar	6 1/2	2.813	30.75	56.36
1	Reamer	6 5/8	2.250	6.42	25.61
1	Pony Drill Collar	6 7/16	2.875	7.85	19.19
1	Roller Reamer - Near Bit	6 5/8	2.250	6.84	11.34
1	Junk Sub	6 9/16	2.375	3.50	4.50

Drilling Parameters

8,973.0 - 9,030.0 ftKB

Start (ftKB)	End Depth...	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note
8,973.0	9,030.0	3.0	32	60		523	1,850.0	

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100...	SO Str Wt (100...	Drill Str Wt (100...	Torque Units	Drilling Torque	Off Btm Tq
19.20	2.50	230	230	197		230.0	2,500.0

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/...	Max Open Hole AV (ft...

Casing Strings

Prop Run?	Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
No	Conductor	105.0	105.0	30	ERW	118.00		
No	Surface	4,345.0	4,344.6	13 3/8	K-55	68.00		
No	Intermediate	8,247.0	8,243.4	9 7/8	P-110	62.80	BTC	

Plug Back Total Depths

Date	Depth (ftKB)	Type	Method

Deviation Surveys

Tru-Trak, Proposed? No

Date	Description	Job
9/23/2010	Tru-Trak	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
11/20/2010	7,668.00	4.04						
11/20/2010	7,763.00	3.25						
11/20/2010	7,925.00	4.59						
11/20/2010	8,227.00	2.72						
11/20/2010	8,237.00	2.29						

Dipmeter, Proposed? No

Date	Description	Job
12/7/2010	Dipmeter	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
12/13/2010	8,566.00	1.75		8,562.30				
12/14/2010	8,652.00	2.48		8,648.29				
12/16/2010	8,755.00	2.76		8,751.29				
12/17/2010	8,852.00	2.98		8,848.29				
12/21/2010	8,955.00	4.15		8,951.29				

Mud Additive Amounts

Des	Consumed	Cum Cons
Lime	18	1,062
MUD ENGINEER	1	102
MUD LAB	1	94
Opti-Plus	4	77
Opti-Thin	1	25
Tax	249	68,393

Formations

Formation Name	Final Top MD (ftKB)
Quaternary	80.0
Tertiary Volcanic	1,300.0
Tertiary Undivided	1,830.0
North Horn	3,810.0
UNCONFORMITY	4,345.0
Arapien	4,345.0
FAULT	
Arapien	
Twin Creek	
Gypsum Sprgs Mbr	
Navajo	
Chinle	
TD	

Safety Summary

12/23/2010

PIONEER NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 12/24/2010
REPORT: 121
DOL: 120
DFS: 93

Rig Name: NABORS DRILLING 169

Depth Progress: 0.00

Daily Summary

Property Sub	Field Name	API/UWI	Spud Date
327560-001	WILDCAT	43-023-30021-0000	9/22/2010

KB-Ground Distance (ft)	Original KB Elevation (ft)	KB-Mud Line Distance (ft)
25.00	5,264.00	

Daily Operations

Target Depth (ftKB)	Target Depth (TVD) (ftKB)	End Depth (ftKB)	End Depth (TVD) (ftKB)
9,040.0		9,030.0	

Footage/Meterage (ft)	24 HR ROP (ft/hr)	Drilling Hours (hr)
0.00		

Avg Connection Gas	Avg Trip Gas	Avg Background Gas	Max Connection Gas	Max Trip Gas	Max Drill Gas

Operations at Report Time
TIH w/ stinger and DP

Operations Summary
Finihed TOH, to log. Logged with Halliburton wire line " Quad Combo & Dip meter', L/D BHA , RU and RIH w/ 2 7/8" tbg and DP to 8200'.

Remarks
09: 24 hrs., Dec . 23, 2010
Obtained verbal approval to " P & A", per " Mr. Randy Knight" with BLM.
He stated he was aware of approval ,from Eric Jones', no problem .
He will not witness, send reports as dictated in rules & regulations.

09:35 hrs., Dec. 23, 2010
Obtained verbal approval to " P & A", per " Mr. Dustin Doucet" with "UDOGM".
He stated if " BLM" approved , no problem, proceed ahead, send reports.

Nabor's stated , rig to be transported to Casper yard, upon release...

BHA Rotating hrs, since last Inspection: 144.43
BHA Slide/drlg hrs, since last Inspection: 67.7

Total OBM lost to date: 4,551 bbls.
OBM lost last hole past 24 hrs: 0 bbls.

Operations Next Report Period
Cement Plugs

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com	Start Depth (ftKB)	End Depth (ftKB)
06:00	09:00	3.00	TRIP	PP	Finish TOH, to BHA, (TOH to log with Haliiburton wire line).	9,030.0	9,030.0
09:00	09:30	0.50	BOPS	PP	Installed trip nipple.	9,030.0	9,030.0
09:30	11:00	1.50	BHA	PP	Finish TOH, with BHA.	9,030.0	9,030.0
11:00	16:30	5.50	LOG	PP	Held Safety & Operational meeting with Nabor's drill crew,and Halliburton wire line crew. Rigged up Halliburton wire line. 1 st. run : Quad Combo (GR/ Neutron Density/ Sonic/Resistivity/Caliper), from 9,030' to 8,247' . 2 nd. run : dip meter, from 9,030' - 8,247'. Rigged down Halliburton wire line, and load out tools.	9,030.0	9,030.0
16:30	17:00	0.50	SFTY	PP	Held Safety,and Operational meeting on L/D BHA.	9,030.0	9,030.0
17:00	23:00	6.00	BHA	PP	TIH with BHA, and TOH, L/D same, and Clean Rig floor.	9,030.0	9,030.0
23:00	02:30	3.50	PLUGA	PP	RU Tongs, Bails, elevators, and slips for 2 7/8" tubing, RIH w/ 41 jnts of 2 7/8", 6.50 lb/ft, 8 round EUE, a total of 1253.50'.	9,030.0	9,030.0
02:30	03:00	0.50	PLUGA	PP	RD 2 7/8" tbg tongs, elevators and Bails	9,030.0	9,030.0
03:00	06:00	3.00	PLUGA	PP	RIH w/ DP and Stinger to 8200'	9,030.0	9,030.0

Mud Properties

Daily Cost: 738.50 Cost Cum Cost: 1,400,724.24 Cost

Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	T Flowline (°F)
03:30	Oil Base	9,030.0	9.00	61	

PV (cp)	YP (lbf/100ft²)	Filtrate (mL/30min)	HTHP Filtrate (mL/30...	HTHP Pressure (psi)	HTHP Temperature (°F)
18.0	14.000		2.0		250.0

Solids (%)	Sand (%)	MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)
10.0					

Chlorides (ppm)	Calcium (ppm)	Oil Water Ratio	Electric Stab (V)	Lime (lb/bbl)	Low Gravity Solids (%)
		85.6/14.4	1105.0	5.8	6.2

Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Comment
9.000	12.000	

Bottom Hole Assembly

BHA Since Insp (hr)	BHA Wt BelowJar (1000lbf)	Hrs on Jars (hr)

BHA #34 , Slick

Bit Run	Drill Bit	Bit Type	Make

Nozzles (1/32")	IADC Codes	IADC Bit Dull

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
82	Drill Pipe	5	4.276	7,779.18	9,035.09
	XO Sub	5		1.39	1,255.91

Total AFE + Sup (Cost)
14,234,000.00

AFE Job Cost Summary

Cost Type	AFE Amt (Cost)
DHC	12,770,000.00
CWC	1,464,000.00

Field Estimate Job Cost Summary

Cost Typ	Field Est (Cost)
DHC	11,946,789.37

Daily Summary

Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
66,213.97	11,972,706.10
Daily Mud Field Est (Cost)	**Cum Mud Field Est (Cost)**
738.50	1,400,724.24

POL (Personnel on Location)
23.0

Daily Contacts

Job Contact	Title
Mike Reel	Drilling Supt
Eric Burnett	Drilling Engineer
Derrick Berry	Drlg. Foreman
Noah Dupuis	Drlg. Foreman

Personnel Log

Company	Count
PIONEER NATURAL RESOURCES	2
NABORS DRILLING INC	2
NABORS DRILLING INC	12
ZECO	2
SELMA	2
NEWPARK	1
BADLANDZER	2

Weather

Precipitation Amount (in)	Precipitation Type
Temperature - High (°F)	**Temperature - Low (°F)**

Comment

NABORS DRILLING, 169

Rig Type
Drilling - Triple

Rig Start Date	Rig Release Date
11/9/2010	

1, National Supply, 10-P-130

Pump Number
1

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)
3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

2, National Supply, 10-P-130

Pump Number
2

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)
3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

3, Continental Emsco, F-1000

Pump Number
3

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)
3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

Job Supply Amounts

Supply Item Des	Unit Label	Received	Consumed	Cum On Loc
Diesel Fuel	gal us		2,025	9,750

Mud Additive Amounts

Des	Consumed	Cum Cons
BULK TANK	2	206
BULK TANK BLOWERS	2	184
MUD ENGINEER	1	103

Safety Summary

BOP Test Date	Last BOP Test	BOP Func Due	HSE Incident	HSE Inc Remark

12/24/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 12/24/2010
REPORT: 121
DOL: 120
DFS: 93

Rig Name: NABORS DRILLING 169

Depth Progress: 0.00

Daily Summary

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
	XO Sub	5		1.02	1,254.52
40	Tubing	5	2.441	1,253.50	1,253.50

Drilling Parameters

<depthstart> - <depthend> ftKB

Start (ftKB)	End Depth...	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100...	SO Str Wt (100...	Drill Str Wt (100...	Torque Units	Drilling Torque	Off Btm Tq

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/...	Max Open Hole AV (ft...

Casing Strings

Prop Run?	Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
No	Conductor	105.0	105.0	30	ERW	118.00		
No	Surface	4,345.0	4,344.6	13 3/8	K-55	68.00		
No	Intermediate	8,247.0	8,243.4	9 7/8	P-110	62.80	BTC	

Plug Back Total Depths

Date	Depth (ftKB)	Type	Method

Deviation Surveys

Tru-Trak, Proposed? No

Date	Description	Job
9/23/2010	Tru-Trak	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
11/20/2010	7,668.00	4.04						
11/20/2010	7,763.00	3.25						
11/20/2010	7,925.00	4.59						
11/20/2010	8,227.00	2.72						
11/20/2010	8,237.00	2.29						

Dipmeter, Proposed? No

Date	Description	Job
12/7/2010	Dipmeter	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
12/13/2010	8,566.00	1.75		8,562.30				
12/14/2010	8,652.00	2.48		8,648.29				
12/16/2010	8,755.00	2.76		8,751.29				
12/17/2010	8,852.00	2.98		8,848.29				
12/21/2010	8,955.00	4.15		8,951.29				

Mud Additive Amounts

Des	Consumed	Cum Cons
MUD LAB	1	95
Tax	14	68,406

Formations

Formation Name	Final Top MD (ftKB)
Quaternary	80.0
Tertiary Volcanic	1,300.0
Tertiary Undivided	1,830.0
North Horn	3,810.0
UNCONFORMITY	4,345.0
Arapien	4,345.0
FAULT	
Arapien	
Twin Creek	
Gypsum Sprgs Mbr	
Navajo	
Chinle	
TD	

Safety Summary

12/24/2010

PIONEER NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 12/24/2010
REPORT: 121
DOL: 120
DFS: 93

Rig Name: NABORS DRILLING 169

Depth Progress: 0.00

Daily Summary

Property Sub	Field Name	API/UWI	Spud Date
327560-001	WILDCAT	43-023-30021-0000	9/22/2010

KB-Ground Distance (ft)	Original KB Elevation (ft)	KB-Mud Line Distance (ft)
25.00	5,264.00	

Daily Operations

Target Depth (ftKB)	Target Depth (TVD) (ftKB)	End Depth (ftKB)	End Depth (TVD) (ftKB)
9,040.0		9,030.0	

Footage/Meterage (ft)	24 HR ROP (ft/hr)	Drilling Hours (hr)
0.00		

Avg Connection Gas	Avg Trip Gas	Avg Background Gas	Max Connection Gas	Max Trip Gas	Max Drill Gas

Operations at Report Time
TIH w/ stinger and DP

Operations Summary
Finihed TOH, to log. Logged with Halliburton wire line " Quad Combo & Dip meter', L/D BHA , RU and RIH w/ 2 7/8" tbg and DP to 8200'.

Remarks
09: 24 hrs., Dec . 23, 2010
Obtained verbal approval to " P & A", per " Mr. Randy Knight" with BLM.
He stated he was aware of approval ,from Eric Jones', no problem .
He will not witness, send reports as dictated in rules & regulations.

09:35 hrs., Dec. 23, 2010
Obtained verbal approval to " P & A", per " Mr. Dustin Doucet" with "UDOGM".
He stated if " BLM" approved , no problem, proceed ahead, send reports.

Nabor's stated , rig to be transported to Casper yard, upon release...

BHA Rotating hrs, since last Inspection: 144.43
BHA Slide/drlg hrs, since last Inspection: 67.7

Total OBM lost to date: 4,551 bbls.
OBM lost last hole past 24 hrs: 0 bbls.

Operations Next Report Period
Cement Plugs

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com	Start Depth (ftKB)	End Depth (ftKB)
06:00	09:00	3.00	TRIP	PP	Finish TOH, to BHA, (TOH to log with Haliiburton wire line).	9,030.0	9,030.0
09:00	09:30	0.50	BOPS	PP	Installed trip nipple.	9,030.0	9,030.0
09:30	11:00	1.50	BHA	PP	Finish TOH, with BHA.	9,030.0	9,030.0
11:00	16:30	5.50	LOG	PP	Held Safety & Operational meeting with Nabor's drill crew,and Halliburton wire line crew. Rigged up Halliburton wire line. 1 st. run : Quad Combo (GR/ Neutron Density/ Sonic/Resistivity/Caliper), from 9,030' to 8,247' . 2 nd. run : dip meter, from 9,030' - 8,247'. Rigged down Halliburton wire line, and load out tools.	9,030.0	9,030.0
16:30	17:00	0.50	SFTY	PP	Held Safety,and Operational meeting on L/D BHA.	9,030.0	9,030.0
17:00	23:00	6.00	BHA	PP	TIH with BHA, and TOH, L/D same, and Clean Rig floor.	9,030.0	9,030.0
23:00	02:30	3.50	PLUGA	PP	RU Tongs, Bails, elevators, and slips for 2 7/8" tubing, RIH w/ 41 jnts of 2 7/8", 6.50 lb/ft, 8 round EUE, a total of 1253.50'.	9,030.0	9,030.0
02:30	03:00	0.50	PLUGA	PP	RD 2 7/8" tbg tongs, elevators and Bails	9,030.0	9,030.0
03:00	06:00	3.00	PLUGA	PP	RIH w/ DP and Stinger to 8200'	9,030.0	9,030.0

Mud Properties

Daily Cost: 738.50 Cost Cum Cost: 1,400,724.24 Cost

Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	T Flowline (°F)
03:30	Oil Base	9,030.0	9.00	61	

PV (cp)	YP (lbf/100ft²)	Filtrate (mL/30min)	HTHP Filtrate (mL/30...	HTHP Pressure (psi)	HTHP Temperature (°F)
18.0	14.000		2.0		250.0

Solids (%)	Sand (%)	MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)
10.0					

Chlorides (ppm)	Calcium (ppm)	Oil Water Ratio	Electric Stab (V)	Lime (lb/bbl)	Low Gravity Solids (%)
		85.6/14.4	1105.0	5.8	6.2

Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Comment
9.000	12.000	

Bottom Hole Assembly

BHA Since Insp (hr)	BHA Wt BelowJar (1000lbf)	Hrs on Jars (hr)

BHA #34 , Slick

Bit Run	Drill Bit	Bit Type	Make

Nozzles (1/32")	IADC Codes	IADC Bit Dull

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
82	Drill Pipe	5	4.276	7,779.18	9,035.09
	XO Sub	5		1.39	1,255.91

Total AFE + Sup (Cost)
14,234,000.00

AFE Job Cost Summary

Cost Type	AFE Amt (Cost)
DHC	12,770,000.00
CWC	1,464,000.00

Field Estimate Job Cost Summary

Cost Typ	Field Est (Cost)
DHC	11,946,789.37

Daily Summary

Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
66,213.97	11,972,706.10
Daily Mud Field Est (Cost)	**Cum Mud Field Est (Cost)**
738.50	1,400,724.24

POL (Personnel on Location)
23.0

Daily Contacts

Job Contact	Title
Mike Reel	Drilling Supt
Eric Burnett	Drilling Engineer
Derrick Berry	Drlg. Foreman
Noah Dupuis	Drlg. Foreman

Personnel Log

Company	Count
PIONEER NATURAL RESOURCES	2
NABORS DRILLING INC	2
NABORS DRILLING INC	12
ZECO	2
SELMA	2
NEWPARK	1
BADLANDZER	2

Weather

Precipitation Amount (in)	Precipitation Type
Temperature - High (°F)	**Temperature - Low (°F)**

Comment

NABORS DRILLING, 169

Rig Type
Drilling - Triple

Rig Start Date	Rig Release Date
11/9/2010	

1, National Supply, 10-P-130

Pump Number
1

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)
3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

2, National Supply, 10-P-130

Pump Number
2

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)
3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

3, Continental Emsco, F-1000

Pump Number
3

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)
3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

Job Supply Amounts

Supply Item Des	Unit Label	Received	Consumed	Cum On Loc
Diesel Fuel	gal us		2,025	9,750

Mud Additive Amounts

Des	Consumed	Cum Cons
BULK TANK	2	206
BULK TANK BLOWERS	2	184
MUD ENGINEER	1	103

Safety Summary

BOP Test Date	Last BOP Test	BOP Func Due	HSE Incident	HSE Inc Remark

12/24/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 12/24/2010
REPORT: 121
DOL: 120
DFS: 93

Rig Name: NABORS DRILLING 169

Depth Progress: 0.00

Daily Summary

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
	XO Sub	5		1.02	1,254.52
40	Tubing	5	2.441	1,253.50	1,253.50

Drilling Parameters

<depthstart> - <depthend> ftKB

Start (ftKB)	End Depth...	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100...	SO Str Wt (100...	Drill Str Wt (100...	Torque Units	Drilling Torque	Off Btm Tq

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/...	Max Open Hole AV (ft...

Casing Strings

Prop Run?	Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
No	Conductor	105.0	105.0	30	ERW	118.00		
No	Surface	4,345.0	4,344.6	13 3/8	K-55	68.00		
No	Intermediate	8,247.0	8,243.4	9 7/8	P-110	62.80	BTC	

Plug Back Total Depths

Date	Depth (ftKB)	Type	Method

Deviation Surveys

Tru-Trak, Proposed? No

Date	Description	Job
9/23/2010	Tru-Trak	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
11/20/2010	7,668.00	4.04						
11/20/2010	7,763.00	3.25						
11/20/2010	7,925.00	4.59						
11/20/2010	8,227.00	2.72						
11/20/2010	8,237.00	2.29						

Dipmeter, Proposed? No

Date	Description	Job
12/7/2010	Dipmeter	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
12/13/2010	8,566.00	1.75		8,562.30				
12/14/2010	8,652.00	2.48		8,648.29				
12/16/2010	8,755.00	2.76		8,751.29				
12/17/2010	8,852.00	2.98		8,848.29				
12/21/2010	8,955.00	4.15		8,951.29				

Mud Additive Amounts

Des	Consumed	Cum Cons
MUD LAB	1	95
Tax	14	68,406

Formations

Formation Name	Final Top MD (ftKB)
Quaternary	80.0
Tertiary Volcanic	1,300.0
Tertiary Undivided	1,830.0
North Horn	3,810.0
UNCONFORMITY	4,345.0
Arapien	4,345.0
FAULT	
Arapien	
Twin Creek	
Gypsum Sprgs Mbr	
Navajo	
Chinle	
TD	

Safety Summary

12/24/2010

PIONEER NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 12/25/2010
REPORT: 122
DOL: 121
DFS: 94

Rig Name: NABORS DRILLING 169

Depth Progress:

Daily Summary

Property Sub	Field Name	API/UWI	Spud Date
327560-001	WILDCAT	43-023-30021-0000	9/22/2010

KB-Ground Distance (ft)	Original KB Elevation (ft)	KB-Mud Line Distance (ft)
25.00	5,264.00	

Daily Operations

Target Depth (ftKB)	Target Depth (TVD) (ftKB)	End Depth (ftKB)	End Depth (TVD) (ftKB)
9,040.0		9,030.0	0.0

Footage/Meterage (ft)	24 HR ROP (ft/hr)	Drilling Hours (hr)

Avg Connection Gas	Avg Trip Gas	Avg Background Gas	Max Connection Gas	Max Trip Gas	Max Drill Gas

Operations at Report Time
Circulating Hole @ 9030'

Operations Summary
Finish TIH to 9030' w/ 2 7/8" tbg and DP, Circ. Hole, Waiting on Halliburton. ETA on Halliburton truck - 08:30am.

Remarks
09: 24 hrs., Dec . 23, 2010
Obtained verbal approval to " P & A", per " Mr. Randy Knight" with BLM.
He stated he was aware of approval ,from Eric Jones', no problem .
He will not witness, send reports as dictated in rules & regulations.

09:35 hrs., Dec. 23, 2010
Obtained verbal approval to " P & A", per " Mr. Dustin Doucet" with "UDOGM".
He stated if " BLM" approved , no problem, proceed ahead, send reports.

Nabor's stated , rig to be transported to Casper yard, upon release...

BHA Rotating hrs, since last Inspection: 144.43
BHA Slide/drlg hrs, since last Inspection: 67.7

Total OBM lost to date: 4,551 bbls.
OBM lost last hole past 24 hrs: 0 bbls.

Note : RNI trucking picker up 390 bbls. of 9.3 ppg, oil base mud,and hauled to Newpark/ Sanddraw .
Halliburton /Security picked up all bits & breakers, 12/24/201 @ 12:54 hrs.

Note : Selman mud loggers released & off location @ 09:00 hrs., December 24, 2010....

Operations Next Report Period
Cement Plugs

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com	Start Depth (ftKB)	End Depth (ftKB)
06:00	08:00	2.00	TRIP	PP	Finished TIh with 2 7/8" stinger to 8,940', washed to bottom for Safety, no fill @ 9,030'.	9,030.0	9,030.0
08:00	10:30	2.50	CIRC	PP	Circ. and condition mud @ 9,030', for setting P & A plug, pumps : 7070 , 2,124 psi.	9,030.0	9,030.0
10:30	11:30	1.00	TRIP	PP	Check flow, well static, slug drill pipe, TOH to casing @ 8,247'.	9,030.0	9,030.0
11:30	06:00	18.50	U_OTR	PN	Wait on final approval, for P & A,also waiting on Halliburton to arrive location. Monitored well on trip tank, well static. TIH to 9030' Pumps @ 60X60, 418gpm, Circ on Btm. Hallibuton arrived on location 00:30 hrs, did not load Spacer as per proposal. Wait for truck from Vernal while Circ. Hole. Put one pump on hole 50 spm, 174 gpm.	9,030.0	9,030.0

Mud Properties

Daily Cost: 738.50 Cost Cum Cost: 1,401,462.74 Cost

Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	T Flowline (°F)
06:00					
PV (cp)	YP (lbf/100ft²)	Filtrate (mL/30min)	HTHP Filtrate (mL/30...	HTHP Pressure (psi)	HTHP Temperature (°F)
Solids (%)	Sand (%)	MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)
Chlorides (ppm)	Calcium (ppm)	Oil Water Ratio	Electric Stab (V)	Lime (lb/bbl)	Low Gravity Solids (%)
Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Comment			

Bottom Hole Assembly

BHA Since Insp (hr)	BHA Wt BelowJar (1000lbf)	Hrs on Jars (hr)

BHA #<BHA #?>, <Drill String Name?>

Bit Run	Drill Bit	Bit Type	Make

Nozzles (1/32")	IADC Codes	IADC Bit Dull

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)

Total AFE + Sup (Cost): 14,234,000.00

AFE Job Cost Summary

Cost Type	AFE Amt (Cost)
DHC	12,770,000.00
CWC	1,464,000.00

Field Estimate Job Cost Summary

Cost Typ	Field Est (Cost)
DHC	11,990,458.87

Daily Summary

Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
43,669.50	12,016,375.60
Daily Mud Field Est (Cost)	**Cum Mud Field Est (Cost)**
738.50	1,401,462.74

POL (Personnel on Location): 23.0

Daily Contacts

Job Contact	Title
Mike Reel	Drilling Supt
Eric Burnett	Drilling Engineer
Derrick Berry	Drlg. Foreman
Noah Dupuis	Drlg. Foreman

Personnel Log

Company	Count
PIONEER NATURAL RESOURCES	2
NABORS DRILLING INC	2
NABORS DRILLING INC	12
ZECO	2
SELMA	2
NEWPARK	1
BADLANDZER	2

Weather

Precipitation Amount (in)	Precipitation Type
Temperature - High (°F)	**Temperature - Low (°F)**

Comment

NABORS DRILLING, 169

Rig Type: Drilling - Triple

Rig Start Date	Rig Release Date
11/9/2010	

1, National Supply, 10-P-130

Pump Number: 1

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi): 3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

2, National Supply, 10-P-130

Pump Number: 2

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi): 3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

3, Continental Emsco, F-1000

Pump Number: 3

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi): 3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

Job Supply Amounts

Supply Item Des	Unit Label	Received	Consumed	Cum On Loc
Diesel Fuel	gal us	2,675	1,175	11,250

Mud Additive Amounts

Des	Consumed	Cum Cons
BULK TANK	2	208
BULK TANK BLOWERS	2	186
MUD ENGINEER	1	104

Safety Summary

BOP Test Date	Last BOP Test	BOP Func Due	HSE Incident	HSE Inc Remark

12/25/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 12/25/2010
REPORT: 122
DOL: 121
DFS: 94

Rig Name: NABORS DRILLING 169

Depth Progress:

Daily Summary

Drilling Parameters

<depthstart> - <depthend> ftKB

Start (ftKB)	End Depth…	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100…	SO Str Wt (100…	Drill Str Wt (100…	Torque Units	Drilling Torque	Off Btm Tq

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/…	Max Open Hole AV (ft…

Casing Strings

Prop Run?	Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
No	Conductor	105.0	105.0	30	ERW	118.00		
No	Surface	4,345.0	4,344.6	13 3/8	K-55	68.00		
No	Intermediate	8,247.0	8,243.4	9 7/8	P-110	62.80	BTC	

Plug Back Total Depths

Date	Depth (ftKB)	Type	Method

Deviation Surveys

Tru-Trak, Proposed? No

Date	Description	Job
9/23/2010	Tru-Trak	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
11/20/2010	7,668.00	4.04						
11/20/2010	7,763.00	3.25						
11/20/2010	7,925.00	4.59						
11/20/2010	8,227.00	2.72						
11/20/2010	8,237.00	2.29						

Dipmeter, Proposed? No

Date	Description	Job
12/7/2010	Dipmeter	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
12/13/2010	8,566.00	1.75		8,562.30				
12/14/2010	8,652.00	2.48		8,648.29				
12/16/2010	8,755.00	2.76		8,751.29				
12/17/2010	8,852.00	2.98		8,848.29				
12/21/2010	8,955.00	4.15		8,951.29				

Mud Additive Amounts

Des	Consumed	Cum Cons
MUD LAB	1	96
Tax	14	68,420

Formations

Formation Name	Final Top MD (ftKB)
Quaternary	80.0
Tertiary Volcanic	1,300.0
Tertiary Undivided	1,830.0
North Horn	3,810.0
UNCONFORMITY	4,345.0
Arapien	4,345.0
FAULT	
Arapien	
Twin Creek	
Gypsum Sprgs Mbr	
Navajo	
Chinle	
TD	

Safety Summary

12/25/2010

PIONEER NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 12/26/2010
REPORT: 123
DOL: 122
DFS: 95

Rig Name: NABORS DRILLING 169

Depth Progress:

Daily Summary

Property Sub	Field Name	API/UWI	Spud Date
327560-001	WILDCAT	43-023-30021-0000	9/22/2010

KB-Ground Distance (ft)	Original KB Elevation (ft)	KB-Mud Line Distance (ft)
25.00	5,264.00	

Daily Operations

Target Depth (ftKB)	Target Depth (TVD) (ftKB)	End Depth (ftKB)	End Depth (TVD) (ftKB)
9,040.0		9,030.0	0.0

Footage/Meterage (ft)	24 HR ROP (ft/hr)	Drilling Hours (hr)

Avg Connection Gas	Avg Trip Gas	Avg Background Gas	Max Connection Gas	Max Trip Gas	Max Drill Gas

Operations at Report Time
Circulating Hole @ 9030'

Operations Summary
Wait on Halliburton Truck from Vernal, Safety meeting, Set 500' plug from 9030' to 8530', TOH Circ. clean, Set 400' plug from 8530' to 8130' TOH to 7693', Circ. Clean, Cic. hole 50spm while WOC.

Remarks
09: 24 hrs., Dec . 23, 2010
Obtained verbal approval to " P & A", per " Mr. Randy Knight" with BLM.
He stated he was aware of approval ,from Eric Jones', no problem .
He will not witness, send reports as dictated in rules & regulations.

09:35 hrs., Dec. 23, 2010
Obtained verbal approval to " P & A", per " Mr. Dustin Doucet" with "UDOGM".
He stated if " BLM" approved , no problem, proceed ahead, send reports.

Total OBM lost to date: 4,551 bbls.
OBM lost last hole past 24 hrs: 0 bbls.
Note : RNI trucking picker up 390 bbls. of 9.3 ppg, oil base mud,and hauled to Newpark/ Sanddraw .
Halliburton /Security picked up all bits & breakers, 12/24/201 @ 12:54 hrs.
Note : Selman mud loggers released & off location @ 09:00 hrs., December 24, 2010....

Note : on Halliburton invoice , all equipment to perform job, arrived at 10:00 hrs., Christmas day, 12/25/2010, billing should start at that time.
They also owe rig time from 02:00 hrs. – 10:00 hrs. (8 hrs. of down time associated with spacer)….

Operations Next Report Period
Cement Plugs

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com	Start Depth (ftKB)	End Depth (ftKB)
06:00	10:00	4.00	U_OTR	PN	Waited on Halliburton to arrive with spacer. Halliburton not originally loaded spacer , as per Halliburton program.	9,030.0	9,030.0
10:00	13:00	3.00	PLUGA	PP	Held Safety ,and Operational meeting with Halliburton,and Nabor's crew. Set first 500', " P & A" plug from 9,030' - 8,530' , per " BLM" requiremnts . Note : Silicia flour in blend for staic temp of + 230 deg. Note : + 10% over calculated volume, was utilized in calculations. Cementing company : Halliburton , plug as below: R/U ,and tested lines to 4,000 psi, tested positive. Pumped : 32.45 bbls of 13.0 ppg., Tuned spacer III ahead, followed with 143 sks. of Class H + .4% HR-5, 35% SSA-1 Yield : 1.52 gal/sk., water : 6.22 gal/sk., slurry wt. : 15.8 ppg., slurry volume : 38.6 bbls. Pumped : 2.5 bbls of 13.0 ppg.,Tuned Spacer III behind. Displaced with 130 bbls of 9.0 ppg. oil base mud . Plug in place @ 12:51 hrs., 12/25/2010, from 9,030' - 8,530' .	9,030.0	9,030.0
13:00	14:00	1.00	PLUGA	PP	TOH slowly, nine stands to 8,193' .	9,030.0	9,030.0
14:00	15:00	1.00	PLUGA	PP	Dropped two nerf balls,and circ. 9,000 stks., on B/U, no trace of nerf balls, visual of spacer, no cement. Pumps : 80/80 = 558 gpm.	9,030.0	9,030.0
15:00	15:30	0.50	PLUGA	PP	TIH with 2 7/8" stinger to 8,530'....	9,030.0	9,030.0

Total AFE + Sup (Cost)
14,234,000.00

AFE Job Cost Summary

Cost Type	AFE Amt (Cost)
DHC	12,770,000.00
CWC	1,464,000.00

Field Estimate Job Cost Summary

Cost Typ	Field Est (Cost)
DHC	12,031,970.99

Daily Summary

Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
41,512.12	12,057,887.72
Daily Mud Field Est (Cost)	**Cum Mud Field Est (Cost)**
1,931.12	1,403,393.86

POL (Personnel on Location)
23.0

Daily Contacts

Job Contact	Title
Mike Reel	Drilling Supt
Eric Burnett	Drilling Engineer
Derrick Berry	Drlg. Foreman
Noah Dupuis	Drlg. Foreman

Personnel Log

Company	Count
PIONEER NATURAL RESOURCES	2
NABORS DRILLING INC	2
NABORS DRILLING INC	12
ZECO	2
SELMA	2
NEWPARK	1
BADLANDZER	2

Weather

Precipitation Amount (in)	Precipitation Type
Temperature - High (°F)	**Temperature - Low (°F)**

Comment

NABORS DRILLING, 169

Rig Type
Drilling - Triple

Rig Start Date	Rig Release Date
11/9/2010	

1, National Supply, 10-P-130

Pump Number
1

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)
3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

2, National Supply, 10-P-130

Pump Number
2

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)
3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

3, Continental Emsco, F-1000

Pump Number
3

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)
3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

Job Supply Amounts

Supply Item Des	Unit Label	Received	Consumed	Cum On Loc

Mud Additive Amounts

Des	Consumed	Cum Cons
BULK TANK	2	210
BULK TANK BLOWERS	2	188
MUD ENGINEER	1	105
MUD LAB	1	97

Safety Summary

BOP Test Date	Last BOP Test	BOP Func Due	HSE Incident	HSE Inc Remark
29/Dec/2010	29/Nov/2010	29/Dec/2010		

12/26/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 12/26/2010
REPORT: 123
DOL: 122
DFS: 95

Rig Name: NABORS DRILLING 169

Depth Progress:

Daily Summary

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com	Start Depth (ftKB)	End Depth (ftKB)
15:30	16:30	1.00	PLUGA	PP	Held Safety ,and Operational meeting with Halliburton,and Nabor's crew. Set second 400', " P & A" plug from 8,530' - 8,130' , per " BLM" requiremnts . Note : Silicia flour in blend for staic temp of + 230 deg. Note : + 10% over calculated volume, was utilized in calculations. Cementing company : Halliburton , plug as below: R/U ,and tested lines to 4,000 psi, tested positive. Pumped : 35 bbls of 13.0 ppg., Tuned spacer III ahead, followed with 113 sks. of Class H + .4% HR-5, 35% SSA-1 Yield : 1.52 gal/sk., water : 6.22 gal/sk., slurry wt. : 15.8 ppg., slurry volume : 30.6 bbls. Pumped : 7.87 bbls of 13.0 ppg.,Tuned Spacer III behind. Displaced with 123 bbls of 9.0 ppg. oil base mud . Plug in place @ 17:30 hrs., 12/25/2010, from 8,530' - 8,130' . Total of first two plugs : 900' plug, set from : 9,030' - 8,130'....	9,030.0	9,030.0
16:30	17:00	0.50	PLUGA	PP	TOH slowly nine stands, to 7,693'....	9,030.0	9,030.0
17:00	19:00	2.00	PLUGA	PP	Dropped a single nerf ball, and circ. B/U , visual of spacer, no cement, shut down dropped second nerf ball, and circulated a second circulation. Pumps : 65/65 = 453 gpm.	9,030.0	9,030.0
19:00	06:00	11.00	PLUGA	PP	WOC, Circ. Hole with one pump 50 spm, 330psi	9,030.0	9,030.0

Mud Properties

Daily Cost: 1,931.12 Cost Cum Cost: 1,403,393.86 Cost

Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	T Flowline (°F)
21:00	Oil Base	9,030.0	9.00	65	
PV (cp)	**YP (lbf/100ft²)**	**Filtrate (mL/30min)**	**HTHP Filtrate (mL/30...**	**HTHP Pressure (psi)**	**HTHP Temperature (°F)**
20.0	15.000		2.0		250.0
Solids (%)	**Sand (%)**	**MBT (lb/bbl)**	**pH**	**Pm (mL/mL)**	**Pf (mL/mL)**
10.0					
Chlorides (ppm)	**Calcium (ppm)**	**Oil Water Ratio**	**Electric Stab (V)**	**Lime (lb/bbl)**	**Low Gravity Solids (%)**
		85.6/14.4	875.0	5.6	6.3
Gel 10 sec (lbf/100ft²)	**Gel 10 min (lbf/100ft²)**	**Comment**			
8.000	11.000				

Bottom Hole Assembly

BHA Since Insp (hr)	BHA Wt BelowJar (1000lbf)	Hrs on Jars (hr)

BHA #<BHA #?>, <Drill String Name?>

Bit Run	Drill Bit	Bit Type	Make

Nozzles (1/32")	IADC Codes	IADC Bit Dull

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)

Drilling Parameters

<depthstart> - <depthend> ftKB

Start (ftKB)	End Depth...	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100...	SO Str Wt (100...	Drill Str Wt (100...	Torque Units	Drilling Torque	Off Btm Tq

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/...	Max Open Hole AV (ft...

Casing Strings

Prop Run?	Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
No	Conductor	105.0	105.0	30	ERW	118.00		
No	Surface	4,345.0	4,344.6	13 3/8	K-55	68.00		
No	Intermediate	8,247.0	8,243.4	9 7/8	P-110	62.80	BTC	

Plug Back Total Depths

Date	Depth (ftKB)	Type	Method

Deviation Surveys

Tru-Trak, Proposed? No

Date	Description	Job
9/23/2010	Tru-Trak	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
11/20/2010	7,668.00	4.04						

Mud Additive Amounts

Des	Consumed	Cum Cons
Salt Water Gel	100	100
Tax	81	68,501

Formations

Formation Name	Final Top MD (ftKB)
Quaternary	80.0
Tertiary Volcanic	1,300.0
Tertiary Undivided	1,830.0
North Horn	3,810.0
UNCONFORMITY	4,345.0
Arapien	4,345.0
FAULT	
Arapien	
Twin Creek	
Gypsum Sprgs Mbr	
Navajo	
Chinle	
TD	

Safety Summary

12/26/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Daily Drilling Report

Well Name: South Hills 6-1

Rig Name: NABORS DRILLING 169

Depth Progress:

REPORT DATE: 12/26/2010
REPORT: 123
DOL: 122
DFS: 95

Daily Summary

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
11/20/2010	7,763.00	3.25						
11/20/2010	7,925.00	4.59						
11/20/2010	8,227.00	2.72						
11/20/2010	8,237.00	2.29						

Dipmeter, Proposed? No

Date	Description	Job
12/7/2010	Dipmeter	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
12/13/2010	8,566.00	1.75		8,562.30				
12/14/2010	8,652.00	2.48		8,648.29				
12/16/2010	8,755.00	2.76		8,751.29				
12/17/2010	8,852.00	2.98		8,848.29				
12/21/2010	8,955.00	4.15		8,951.29				

Safety Summary

12/26/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 12/27/2010
REPORT: 124
DOL: 123
DFS: 96

Rig Name: NABORS DRILLING 169

Depth Progress: 0.00

Daily Summary

Property Sub	Field Name	API/UWI	Spud Date
327560-001	WILDCAT	43-023-30021-0000	9/22/2010

KB-Ground Distance (ft)	Original KB Elevation (ft)	KB-Mud Line Distance (ft)
25.00	5,264.00	

Daily Operations

Target Depth (ftKB)	Target Depth (TVD) (ftKB)	End Depth (ftKB)	End Depth (TVD) (ftKB)
9,040.0		8,326.0	8,322.4

Footage/Meterage (ft)	24 HR ROP (ft/hr)	Drilling Hours (hr)
0.00		

Avg Connection Gas	Avg Trip Gas	Avg Background Gas	Max Connection Gas	Max Trip Gas	Max Drill Gas

Operations at Report Time
Safety Meeting with Halliburton

Operations Summary
WOC, TIH tagged firm Cmt @ 8326', Displaced OBM with 9.9ppg Brine @ 8326', TOH to 8172', Wait on Halliburton Cement Trucks, (arrived @04:30), RU Halliburton and Held Safety Meeting.

Remarks
09: 24 hrs., Dec . 23, 2010
Obtained verbal approval to " P & A", per " Mr. Randy Knight" with BLM.
He stated he was aware of approval ,from Eric Jones', no problem .
He will not witness, send reports as dictated in rules & regulations.

Note : 12/26/2010 at 17:12 hours, Obtained verbal approval per "Mr. Randy Knight ", to set another plug on top of second P & A plug, to obtain, correct amount of cement plug to meet and or exceed BLM requirements.

09:35 hrs., Dec. 23, 2010
Obtained verbal approval to " P & A", per " Mr. Dustin Doucet" with "UDOGM".
He stated if " BLM" approved , no problem, proceed ahead, send reports.

Total OBM lost to date: 4,551 bbls.
OBM lost last hole past 24 hrs: 0 bbls.
Note : RNI trucking picker up 390 bbls. of 9.3 ppg, oil base mud,and hauled to Newpark/ Sanddraw .
Halliburton /Security picked up all bits & breakers, 12/24/201 @ 12:54 hrs.
Note : Selman mud loggers released & off location @ 09:00 hrs., December 24, 2010....

Note : on Halliburton invoice , all equipment to perform job, arrived at 10:00 hrs., Christmas day, 12/25/2010, billing should start at that time.
They also owe rig time from 02:00 hrs. – 10:00 hrs. (8 hrs. of down time associated with spacer)....

Note : 375 bbls. of 9.0 ppg. oil base was shipped from rig to Denton Oil Company, for credit from Newpark, to Pioneer.

Operations Next Report Period
Tag cement on second plug, displace, L/D drill string, set third " P & A" plug.

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com	Start Depth (ftKB)	End Depth (ftKB)
06:00	11:30	5.50	PLUGA	PP	"WOC", on second " P & A plug (8,530' - 8,130'). Total of 18 hours "WOC".	9,030.0	9,030.0
11:30	13:30	2.00	PLUGA	PP	TIH slowly tagged top of cement @ 8,179', with 2,000 lbs. of down weight, with 2 7/8" stinger. Continued TIH slowly to 8,326', good firm cement, supported 5,000 lbs. of string weight. Note : 8,326' = 79' below the shoe of the 9 7/8" intermediate casing,and 223' below the calculated top of the cement plug .(8,130 - 8,530'). Circ. B/U @ 8,326', on B/U, large amount of small cement balls was visually noted.	9,030.0	9,030.0
13:30	14:00	0.50	PLUGA	PP	Held Safety ,and Operational meeting on displacing oil base, with 9.9 ppg. brine, with 1 sack of gel/ 5 barrels of brine , also added Oxygen Scavnger, and biocide.	9,030.0	9,030.0
14:00	17:00	3.00	PLUGA	PP	Displaced 9.0 ppg. oil base @ 8,326', with 9.9 ppg. brine water with 1 sk/gel per 5 bbls., and biocide. Transferred all mud to frac tanks,and prep to clean mud tanks. reduced to one pit system for setting remainder of P & A plugs,and for cutting 9 7/8" casing.	9,030.0	9,030.0
17:00	17:30	0.50	PLUGA	PP	Check flow, well static,TOH from 8,326', to 8,172', for Safety, in case any sediment,after displacing procedure.	9,030.0	9,030.0
17:30	04:00	10.50	PLUGA	PP	Continued transferring mud to frac tanks, and prep for mud tank cleaning. Waiting on cement to arrive from Halliburton, arrived at 04:30 hours, Monday, 12/27/2010.	9,030.0	9,030.0
04:00	06:00	2.00	PLUGA	PP	Rig up Halliburton trucks, Held Safety meeting with Nabors and Halliburton on Setting plug #3.	9,030.0	9,030.0

Mud Properties

Daily Cost: 2,314.11 Cost Cum Cost: 1,405,707.97 Cost

Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	T Flowline (°F)
20:00	Oil Base	8,172.0	9.00	57	

PV (cp)	YP (lbf/100ft²)	Filtrate (mL/30min)	HTHP Filtrate (mL/30...	HTHP Pressure (psi)	HTHP Temperature (°F)
19.0	15.000		2.0		250.0

Solids (%)	Sand (%)	MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)
10.0					

Chlorides (ppm)	Calcium (ppm)	Oil Water Ratio	Electric Stab (V)	Lime (lb/bbl)	Low Gravity Solids (%)
		84.4/15.6	835.0	5.6	6.3

Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Comment
7.000	10.000	

Total AFE + Sup (Cost): 14,234,000.00

AFE Job Cost Summary

Cost Type	AFE Amt (Cost)
DHC	12,770,000.00
CWC	1,464,000.00

Field Estimate Job Cost Summary

Cost Typ	Field Est (Cost)
DHC	12,075,716.50

Daily Summary

Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
43,745.51	12,101,633.23
Daily Mud Field Est (Cost)	**Cum Mud Field Est (Cost)**
2,314.11	1,405,707.97

POL (Personnel on Location): 23.0

Daily Contacts

Job Contact	Title
Mike Reel	Drilling Supt
Eric Burnett	Drilling Engineer
Derrick Berry	Drlg. Foreman
Noah Dupuis	Drlg. Foreman

Personnel Log

Company	Count
PIONEER NATURAL RESOURCES	2
NABORS DRILLING INC	2
NABORS DRILLING INC	12
ZECO	2
SELMA	2
NEWPARK	1
BADLANDZER	2

Weather

Precipitation Amount (in)	Precipitation Type
Temperature - High (°F)	**Temperature - Low (°F)**

Comment

NABORS DRILLING, 169

Rig Type: Drilling - Triple

Rig Start Date	Rig Release Date
11/9/2010	

1, National Supply, 10-P-130

Pump Number: 1

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi): 3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

2, National Supply, 10-P-130

Pump Number: 2

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi): 3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

3, Continental Emsco, F-1000

Pump Number: 3

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi): 3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

Job Supply Amounts

Supply Item Des	Unit Label	Received	Consumed	Cum On Loc

Mud Additive Amounts

Des	Consumed	Cum Cons
BULK TANK	2	212
BULK TANK BLOWERS	2	190
Busan	1	1
MC-122	1	1

Safety Summary

BOP Test Date	Last BOP Test	BOP Func Due	HSE Incident	HSE Inc Remark
29/Dec/2010	29/Nov/2010	29/Dec/2010		

12/27/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Daily Drilling Report

Well Name: South Hills 6-1

Rig Name: NABORS DRILLING 169

Depth Progress: 0.00

REPORT DATE: 12/27/2010
REPORT: 124
DOL: 123
DFS: 96

Daily Summary

Bottom Hole Assembly

BHA Since Insp (hr)	BHA Wt BelowJar (1000lbf)	Hrs on Jars (hr)

BHA #34 , Slick

Bit Run	Drill Bit	Bit Type	Make

Nozzles (1/32")	IADC Codes	IADC Bit Dull

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)
			8,326.0	8,326.0

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
82	Drill Pipe	5	4.276	7,779.18	9,035.09
	XO Sub	5		1.39	1,255.91
	XO Sub	5		1.02	1,254.52
40	Tubing	5	2.441	1,253.50	1,253.50

Drilling Parameters

8,326.0 - 8,326.0 ftKB

Start (ftKB)	End Depth...	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note
8,326.0	8,326.0							

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100...	SO Str Wt (100...	Drill Str Wt (100...	Torque Units	Drilling Torque	Off Btm Tq

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/...	Max Open Hole AV (ft...

Casing Strings

Prop Run?	Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
No	Conductor	105.0	105.0	30	ERW	118.00		
No	Surface	4,345.0	4,344.6	13 3/8	K-55	68.00		
No	Intermediate	8,247.0	8,243.4	9 7/8	P-110	62.80	BTC	

Plug Back Total Depths

Date	Depth (ftKB)	Type	Method

Deviation Surveys

Tru-Trak, Proposed? No

Date	Description	Job
9/23/2010	Tru-Trak	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
11/20/2010	7,668.00	4.04						
11/20/2010	7,763.00	3.25						
11/20/2010	7,925.00	4.59						
11/20/2010	8,227.00	2.72						
11/20/2010	8,237.00	2.29						

Dipmeter, Proposed? No

Date	Description	Job
12/7/2010	Dipmeter	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
12/13/2010	8,566.00	1.75		8,562.30				
12/14/2010	8,652.00	2.48		8,648.29				
12/16/2010	8,755.00	2.76		8,751.29				
12/17/2010	8,852.00	2.98		8,848.29				
12/21/2010	8,955.00	4.15		8,951.29				

Mud Additive Amounts

Des	Consumed	Cum Cons
MUD ENGINEER	1	106
MUD LAB	1	98
Salt Water Gel	20	120
Tax	103	68,603

Formations

Formation Name	Final Top MD (ftKB)
Quaternary	80.0
Tertiary Volcanic	1,300.0
Tertiary Undivided	1,830.0
North Horn	3,810.0
UNCONFORMITY	4,345.0
Arapien	4,345.0
FAULT	
Arapien	
Twin Creek	
Gypsum Sprgs Mbr	
Navajo	
Chinle	
TD	

Safety Summary

12/27/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 12/28/2010
REPORT: 125
DOL: 124
DFS: 97

Rig Name: NABORS DRILLING 169

Depth Progress: 0.00

Daily Summary

Property Sub	Field Name	API/UWI	Spud Date
327560-001	WILDCAT	43-023-30021-0000	9/22/2010

KB-Ground Distance (ft)	Original KB Elevation (ft)	KB-Mud Line Distance (ft)
25.00	5,264.00	

Daily Operations

Target Depth (ftKB)	Target Depth (TVD) (ftKB)	End Depth (ftKB)	End Depth (TVD) (ftKB)
9,040.0		8,326.0	8,322.4

Footage/Meterage (ft)	24 HR ROP (ft/hr)	Drilling Hours (hr)
0.00		

Avg Connection Gas	Avg Trip Gas	Avg Background Gas	Max Connection Gas	Max Trip Gas	Max Drill Gas

Operations at Report Time
Circ, Hole, WOC on plug #4

Operations Summary
Pump plug #3, 8326' to 7926' (400'), TOH to 7489', Circ. Clean, WOC 8 Hours, TIH Tag Plug @ 7938', TOH LD DP, Held Safety Meeting, Pump plug #4 from 4415' to 4139' (276'), TOH 9jnts to 3549', Drop Nerf ball and Circ. Clean.

Remarks
09: 24 hrs., Dec . 23, 2010
Obtained verbal approval to " P & A", per " Mr. Randy Knight" with BLM.
He stated he was aware of approval ,from Eric Jones', no problem .
He will not witness, send reports as dictated in rules & regulations.

Note : 12/26/2010 at 17:12 hours, Obtained verbal approval per "Mr. Randy Knight ", to set another plug on top of second P & A plug, to obtain, correct amount of cement plug to meet and or exceed BLM requirements.

09:35 hrs., Dec. 23, 2010
Obtained verbal approval to " P & A", per " Mr. Dustin Doucet" with "UDOGM".
He stated if " BLM" approved , no problem, proceed ahead, send reports.

Total OBM lost to date: 4,551 bbls.

Note : on Halliburton invoice , all equipment to perform job, arrived at 10:00 hrs., Christmas day, 12/25/2010, billing should start at that time.
They also owe rig time from 02:00 hrs. – 10:00 hrs. (8 hrs. of down time associated with spacer)….

Note : 995 bbls (total). of 9.0 ppg. oil base was shipped from rig to Denton Oil Company, for credit from Newpark, to Pioneer.
Note : Per agreement with New Park & Denton Oil, Pioneer assumes 0 % liabilty for storage ....
Note : Last full day of chrages for " Zeco (december 24 ,2010), only vacuum @ $ 100 per day + personell charges, from December 24 th., forward,until released..

**** The Following companies have been contacted to obtain rig moving quotes : Black Hills Trucking, Dawn trucking, Hagman Trucking, Hemphill Trucking, and West Roe Trucking ....
**** Weather very cold, froze ,electric line from generator,to potable water pump @ 06:30 hrs., 12/27/2010.
Note : Returned all possible rental equipment : (all roller reamers to "Spidel", boot baskets/ mills to "Knight", 2 pony dc's to " Quail", 2 jars to "Weatherford',

Operations Next Report Period
Plug #5

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com	Start Depth (ftKB)	End Depth (ftKB)
06:00	08:30	2.50	PLUGA	PP	Held Safety ,and Operational meeting with Halliburton,and Nabor's crew. Set third 400', " P & A" plug from 8,326' - 7,926 , to exceed " BLM" requirements . Cementing company : Halliburton , plug as below: R/U ,and tested lines to 4,000 psi, tested positive. Pumped : 67 bbls of " FW" ahead, followed with 115 sks. of Class H + .4% HR- 5, 35% SSA-1 Yield : 1.52 gal/sk., water : 6.22 gal/sk., slurry wt. : 15.8 ppg., slurry volume : 31 bbls. Pumped : 10 bbls. of "FW' behind behind. Displaced with 115 bbls of 9.9 ppg. brine water, with gel & biocide . Plug in place @ 08:30 hrs., 12/27/2010, from 8,326' - 7,926' (400'). Note : On third plug, Halliburton computer , was operable	9,030.0	9,030.0
08:30	09:00	0.50	PLUGA	PP	TOH slowly to 7,489'.	9,030.0	9,030.0
09:00	10:30	1.50	PLUGA	PP	Dropped nerf ball,and circ. out, B/U @ 7,512' , no trace of cement.	9,030.0	9,030.0
10:30	16:30	6.00	PLUGA	PP	WOC, eight hours, checking surface sample in office,and sample cooking in lab, at 200 degrees.	9,030.0	9,030.0
16:30	18:30	2.00	PLUGA	PP	TIH slowly, tagged top of cement @ 7938', with 5,000 lbs. of string wt., per BLM requirements. Tagged 12' below calcualted top @ 7,926', 309' above the 9 7/8" intermediate shoe .... Circulated B/U @ 7,900', and prep to L/D five inch drill string....	9,030.0	9,030.0
18:30	02:00	7.50	PLUGA	PP	TOH, L/D drill pipe, to 4,395', double count drill pipe on rack, to make sure depth correct.	9,030.0	9,030.0

Total AFE + Sup (Cost): 14,234,000.00

AFE Job Cost Summary

Cost Type	AFE Amt (Cost)
DHC	12,770,000.00
CWC	1,464,000.00

Field Estimate Job Cost Summary

Cost Typ	Field Est (Cost)
DHC	12,122,632.84

Daily Summary

Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
46,916.34	12,148,549.57
Daily Mud Field Est (Cost)	**Cum Mud Field Est (Cost)**
3,779.72	1,409,487.69

POL (Personnel on Location): 23.0

Daily Contacts

Job Contact	Title
Mike Reel	Drilling Supt
Eric Burnett	Drilling Engineer
Derrick Berry	Drlg. Foreman
Noah Dupuis	Drlg. Foreman

Personnel Log

Company	Count
PIONEER NATURAL RESOURCES	2
NABORS DRILLING INC	2
NABORS DRILLING INC	12
ZECO	2
SELMA	2
NEWPARK	1
BADLANDZER	2

Weather

Precipitation Amount (in)	Precipitation Type
Temperature - High (°F)	**Temperature - Low (°F)**

Comment

NABORS DRILLING, 169

Rig Type: Drilling - Triple

Rig Start Date	Rig Release Date
11/9/2010	

1, National Supply, 10-P-130

Pump Number: 1

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi): 3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

2, National Supply, 10-P-130

Pump Number: 2

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi): 3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

3, Continental Emsco, F-1000

Pump Number: 3

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi): 3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

Job Supply Amounts

Supply Item Des	Unit Label	Received	Consumed	Cum On Loc
Diesel Fuel	gal us		1,500	6,150

Mud Additive Amounts

Des	Consumed	Cum Cons
BULK TANK	2	214
BULK TANK BLOWERS	2	192
MUD ENGINEER	1	107

Safety Summary

BOP Test Date	Last BOP Test	BOP Func Due	HSE Incident	HSE Inc Remark
29/Dec/2010	29/Nov/2010	29/Dec/2010		

12/28/2010

PIONEER NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 12/28/2010
REPORT: 125
DOL: 124
DFS: 97

Rig Name: NABORS DRILLING 169

Depth Progress: 0.00

Daily Summary

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com	Start Depth (ftKB)	End Depth (ftKB)
02:00	04:00	2.00	PLUGA	PP	Held Safety ,and Operational meeting with Halliburton,and Nabor's crew. Note : air lines on Halliburton truck frozen, (current : 10 degreees), defrost same, prior to pumping job. Set fourth P & A plug : 276', " P & A" plug from 4,415' - 4,139' , to exceed " BLM" requirements . Cementing company : Halliburton , plug as below: R/U ,and tested lines to 4,000 psi, tested positive. Pumped : 74 bbls of " FW" ahead, followed with 100 sks. of Class H Neat. Yield : 1.15 gal/sk., water : 4.99 gal/sk., slurry wt. : 15.8 ppg., slurry volume : 20.4 bbls. Pumped : 10 bbls. of "FW' behind behind. Displaced with 47 bbls of 9.9 ppg. brine water, with gel & biocide . Plug in place @ 03:50 hrs., 12/28/2010, from 4,415' - 4,139' (276'). Note : On fourth plug, Halliburton computer , was operable	9,030.0	9,030.0
04:00	04:45	0.75	PLUGA	PP	Disconnect Cmt line from Workstring, TOH 9 stands to 3549'	9,030.0	9,030.0
04:45	06:00	1.25	PLUGA	PP	Dropped nerf ball,and circ. out, B/U @ 3549' , no trace of cement.	9,030.0	9,030.0

Mud Properties

Daily Cost: 3,779.72 Cost Cum Cost: 1,409,487.69 Cost

Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	T Flowline (°F)
20:00	Oil Base	8,172.0	9.00	57	

PV (cp)	YP (lbf/100ft²)	Filtrate (mL/30min)	HTHP Filtrate (mL/30…	HTHP Pressure (psi)	HTHP Temperature (°F)
19.0	15.000		2.0		250.0

Solids (%)	Sand (%)	MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)
10.0					

Chlorides (ppm)	Calcium (ppm)	Oil Water Ratio	Electric Stab (V)	Lime (lb/bbl)	Low Gravity Solids (%)
		84.4/15.6	835.0	5.6	6.3

Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Comment
7.000	10.000	

Bottom Hole Assembly

BHA Since Insp (hr)	BHA Wt BelowJar (1000lbf)	Hrs on Jars (hr)

BHA #<BHA #?>, <Drill String Name?>

Bit Run	Drill Bit	Bit Type	Make

Nozzles (1/32")	IADC Codes	IADC Bit Dull

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)

Drilling Parameters

<depthstart> - <depthend> ftKB

Start (ftKB)	End Depth…	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100…	SO Str Wt (100…	Drill Str Wt (100…	Torque Units	Drilling Torque	Off Btm Tq

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/…	Max Open Hole AV (ft…

Casing Strings

Prop Run?	Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
No	Conductor	105.0	105.0	30	ERW	118.00		
No	Surface	4,345.0	4,344.6	13 3/8	K-55	68.00		
No	Intermediate	8,247.0	8,243.4	9 7/8	P-110	62.80	BTC	

Plug Back Total Depths

Date	Depth (ftKB)	Type	Method

Deviation Surveys

Tru-Trak, Proposed? No

Date	Description	Job
9/23/2010	Tru-Trak	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
11/20/2010	7,668.00	4.04						
11/20/2010	7,763.00	3.25						
11/20/2010	7,925.00	4.59						
11/20/2010	8,227.00	2.72						
11/20/2010	8,237.00	2.29						

Mud Additive Amounts

Des	Consumed	Cum Cons
MUD LAB	1	99
Salt Water Gel	30	150
Tax	34	68,637
Trucking	2,683	144,024

Formations

Formation Name	Final Top MD (ftKB)
Quaternary	80.0
Tertiary Volcanic	1,300.0
Tertiary Undivided	1,830.0
North Horn	3,810.0
UNCONFORMITY	4,345.0
Arapien	4,345.0
FAULT	
Arapien	
Twin Creek	
Gypsum Sprgs Mbr	
Navajo	
Chinle	
TD	

Safety Summary

12/28/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 12/28/2010
REPORT: 125
DOL: 124
DFS: 97

Rig Name: NABORS DRILLING 169

Depth Progress: 0.00

Daily Summary

Deviation Surveys

Dipmeter, Proposed? No

Date	Description	Job
12/7/2010	Dipmeter	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
12/13/2010	8,566.00	1.75		8,562.30				
12/14/2010	8,652.00	2.48		8,648.29				
12/16/2010	8,755.00	2.76		8,751.29				
12/17/2010	8,852.00	2.98		8,848.29				
12/21/2010	8,955.00	4.15		8,951.29				

Safety Summary

12/28/2010

PIONEER NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 12/29/2010
REPORT: 126
DOL: 125
DFS: 98

Rig Name: NABORS DRILLING 169

Depth Progress: 0.00

Daily Summary

Property Sub	Field Name	API/UWI	Spud Date
327560-001	WILDCAT	43-023-30021-0000	9/22/2010

KB-Ground Distance (ft)	Original KB Elevation (ft)	KB-Mud Line Distance (ft)
25.00	5,264.00	

Daily Operations

Target Depth (ftKB)	Target Depth (TVD) (ftKB)	End Depth (ftKB)	End Depth (TVD) (ftKB)
9,040.0		8,326.0	8,322.4

Footage/Meterage (ft)	24 HR ROP (ft/hr)	Drilling Hours (hr)
0.00		

Avg Connection Gas	Avg Trip Gas	Avg Background Gas	Max Connection Gas	Max Trip Gas	Max Drill Gas

Operations at Report Time
N/D BOP's.

Operations Summary
Circulate Clean, WOC, TIH tagged TOC @ 4149', TOH L/D DP and 2 7/8" tbg, RIH with Csg cutter and cut 9 7/8" @ 80' KB, L/D Csg Cutter, M/U Wood Group Runing tool, unable to pull selas, started N/D bop's to inspect seals.

Remarks
Note : 1,305 bbls. of New Park oil base , left on location, in frac tanks.
If RNI trucks are available, all mud will be loaded out on Wednesday.
Note : Last full day of charges for " Zeco (december 24 ,2010), only vacuum @ $ 100 per day + personell charges, from December 24 th., forward,until released..

Note : Discussed with "Rod" , Nabors tool pusher, on lining up string down crew, he stated he would handle same., 18;30 hrs., 12/28/2010

Note : outpost rigged down, mud loggers & directional housing,and VIp housing & hauled out VIP housing, no truck available to haul others today.

Operations Next Report Period
N/D bop's, remove casing stump cut , set surface Plug #5

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com	Start Depth (ftKB)	End Depth (ftKB)
06:00	06:30	0.50	PLUGA	PP	Finished circ. @ 3549' , adding gel @ 1 sk, per 5 bbls of 9.9 ppg. brine water, with oxygen scavenger,and biocide.	9,030.0	9,030.0
06:30	12:00	5.50	PLUGA		"WOC" a total of eight hours, while flushing all lines & BOP's with fresh water, and soap. Prep for rigging down Nabors # 169. Note : cement sample was lab tetsed at rig @ 100 degrees for eight hours, sample hard , after 8 hours.	9,030.0	9,030.0
12:00	13:00	1.00	PLUGA		TIH with 2 7/8" stinger, located top of cement @ 4,149', tagged with 5,000 lbs. , of string weight, solid.	9,030.0	9,030.0
13:00	21:00	8.00	PLUGA		TOH, L/D five inch drill string, and 2 7/8" stinger.	9,030.0	9,030.0
21:00	22:30	1.50	PLUGA	PP	RD Franks tubing tongs, elevators and slips	9,030.0	9,030.0
22:30	00:30	2.00	PLUGA		PU Weatherford mechanical Csg cutter, stabilizer and XO's, MU same, RIH to 80' KB, (55' below ground level. Cut casing @ 20 rpm in 8 minutes.	9,030.0	9,030.0
00:30	04:00	3.50	PLUGA	PP	Break out Csg Cutter, M/U Wood Group's running tool, Could not get lock down pins backed out to pull seals on 9 7/8" profile. Decision made to N/D bop's, and inspect seals, and pins.	9,030.0	9,030.0
04:00	06:00	2.00	PLUGA		Start N/D BOP's per "Nabors specs", removing all rams from cavity's, grease same, and close bonnets .	9,030.0	9,030.0

Mud Properties

Daily Cost: <Daily Mud Field Est?> Cum Cost: <Mud Additive

Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	T Flowline (°F)
PV (cp)	YP (lbf/100ft²)	Filtrate (mL/30min)	HTHP Filtrate (mL/30...	HTHP Pressure (psi)	HTHP Temperature (°F)
Solids (%)	Sand (%)	MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)
Chlorides (ppm)	Calcium (ppm)	Oil Water Ratio	Electric Stab (V)	Lime (lb/bbl)	Low Gravity Solids (%)
Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Comment			

Bottom Hole Assembly

BHA Since Insp (hr)	BHA Wt BelowJar (1000lbf)	Hrs on Jars (hr)

BHA #<BHA #?>, <Drill String Name?>

Bit Run	Drill Bit	Bit Type	Make

Nozzles (1/32")	IADC Codes	IADC Bit Dull

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)

Total AFE + Sup (Cost)
14,234,000.00

AFE Job Cost Summary

Cost Type	AFE Amt (Cost)
DHC	12,770,000.00
CWC	1,464,000.00

Field Estimate Job Cost Summary

Cost Typ	Field Est (Cost)
DHC	12,172,487.79
CWC	21,043.00

Daily Summary

Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
70,897.95	12,219,447.52
Daily Mud Field Est (Cost)	**Cum Mud Field Est (Cost)**
738.50	1,410,226.19

POL (Personnel on Location)
23.0

Daily Contacts

Job Contact	Title
Mike Reel	Drilling Supt
Eric Burnett	Drilling Engineer
Derrick Berry	Drlg. Foreman
Noah Dupuis	Drlg. Foreman

Personnel Log

Company	Count
PIONEER NATURAL RESOURCES	2
NABORS DRILLING INC	2
NABORS DRILLING INC	12
ZECO	2
SELMA	2
NEWPARK	1
BADLANDZER	2

Weather

Precipitation Amount (in)	Precipitation Type
Temperature - High (°F)	**Temperature - Low (°F)**

Comment

NABORS DRILLING, 169

Rig Type
Drilling - Triple

Rig Start Date	Rig Release Date
11/9/2010	

1, National Supply, 10-P-130

Pump Number
1

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)
3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

2, National Supply, 10-P-130

Pump Number
2

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)
3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

3, Continental Emsco, F-1000

Pump Number
3

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)
3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

Job Supply Amounts

Supply Item Des	Unit Label	Received	Consumed	Cum On Loc

Mud Additive Amounts

Des	Consumed	Cum Cons
BULK TANK	2	216
BULK TANK BLOWERS	2	194
MUD ENGINEER	1	108

Safety Summary

BOP Test Date	Last BOP Test	BOP Func Due	HSE Incident	HSE Inc Remark

12/29/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 12/29/2010
REPORT: 126
DOL: 125
DFS: 98

Rig Name: NABORS DRILLING 169

Depth Progress: 0.00

Daily Summary

Drilling Parameters

<depthstart> - <depthend> ftKB

Start (ftKB)	End Depth…	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100…	SO Str Wt (100…	Drill Str Wt (100…	Torque Units	Drilling Torque	Off Btm Tq

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/…	Max Open Hole AV (ft…

Casing Strings

Prop Run?	Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
No	Conductor	105.0	105.0	30	ERW	118.00		
No	Surface	4,345.0	4,344.6	13 3/8	K-55	68.00		
No	Intermediate	8,247.0	8,243.4	9 7/8	P-110	62.80	BTC	

Plug Back Total Depths

Date	Depth (ftKB)	Type	Method

Deviation Surveys

Tru-Trak, Proposed? No

Date	Description	Job
9/23/2010	Tru-Trak	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
11/20/2010	7,668.00	4.04						
11/20/2010	7,763.00	3.25						
11/20/2010	7,925.00	4.59						
11/20/2010	8,227.00	2.72						
11/20/2010	8,237.00	2.29						

Dipmeter, Proposed? No

Date	Description	Job
12/7/2010	Dipmeter	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
12/13/2010	8,566.00	1.75		8,562.30				
12/14/2010	8,652.00	2.48		8,648.29				
12/16/2010	8,755.00	2.76		8,751.29				
12/17/2010	8,852.00	2.98		8,848.29				
12/21/2010	8,955.00	4.15		8,951.29				

Mud Additive Amounts

Des	Consumed	Cum Cons
MUD LAB	1	100
Tax	14	68,651

Formations

Formation Name	Final Top MD (ftKB)
Quaternary	80.0
Tertiary Volcanic	1,300.0
Tertiary Undivided	1,830.0
North Horn	3,810.0
UNCONFORMITY	4,345.0
Arapien	4,345.0
FAULT	
Arapien	
Twin Creek	
Gypsum Sprgs Mbr	
Navajo	
Chinle	
TD	

Safety Summary

12/29/2010

PIONEER NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 12/30/2010
REPORT: 127
DOL: 126
DFS: 99

Rig Name: NABORS DRILLING 169

Depth Progress: 0.00

Daily Summary

Property Sub	Field Name	API/UWI	Spud Date
327560-001	WILDCAT	43-023-30021-0000	9/22/2010

KB-Ground Distance (ft)	Original KB Elevation (ft)	KB-Mud Line Distance (ft)
25.00	5,264.00	

Daily Operations

Target Depth (ftKB)	Target Depth (TVD) (ftKB)	End Depth (ftKB)	End Depth (TVD) (ftKB)
9,040.0		8,326.0	8,322.4

Footage/Meterage (ft)	24 HR ROP (ft/hr)	Drilling Hours (hr)
0.00		

Avg Connection Gas	Avg Trip Gas	Avg Background Gas	Max Connection Gas	Max Trip Gas	Max Drill Gas

Operations at Report Time
L/D 2 7/8" stinger, after setting final surface plug for P & A.

Operations Summary
N/D BOP's, L/D 55' of 9 7/8" casing .
Cut Woodgroup slip on head from 13 3/8" & 30", remove same.
Set surface plug per BLM requirements from 105' below surface to 5", from surface.
Start rigging down & cleaning Nabors # 169.

Remarks
Note : 1,305 bbls. of New Park oil base , left on location, in frac tanks.
If RNI trucks are available, all mud will be loaded out on Wednesday.
Note : Last full day of charges for " Zeco (december 24 ,2010), only vacuum @ $ 100 per day + personell charges, from December 24 th., forward,until released..

Note : Discussed with "Rod" , Nabors tool pusher, on lining up string down crew, he stated he would handle same., 18;30 hrs., 12/28/2010

Note : released : 1 frac tank to " Rain for rent, 12/28/2010 @ 16:00 hrs., returned same.
Note : Released Weatherford rotating head : 12/29/2010, returned same ....
Note : Last day rental : 12/28/2010, on Nabors (stdby pump, catwalk, and Rig watch system,they were instructed to r/d rigwatch on 12/27/2010. (Notes on cost sheet & IADC).
Note : Nabor's night tool pusher released : 12/29/2010 @ 10:30 hrs., (Notes on cost sheet & IADC).

Newpark hauled off : 620 bbls. of mud on 12/29/2010.
Left on location : 685 bbls. of oil base mud.
Badlandzer started cleaning mud pits on 12/28/2010 @ 13:00 hrs.
12/30/2010 : Released Zeco vacuum & personell.

Note : Derrick should be L/D & unstrung on December 31, 2010 ....

Operations Next Report Period
Clean rig prepare for rig move. Rig down floor, and top drive system, prep for impending move.

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com	Start Depth (ftKB)	End Depth (ftKB)
06:00	19:00	13.00	PLUGA	PP	N/D BOp's, removed all rams, from cavity's, per Nabor's requirements. Note : B & C quick test finished breaking all bolts @ 15:30 hours. Nabor's un stacked BOP's, from 15:30 hrs. , to 19:00 hours.	9,030.0	9,030.0
19:00	20:00	1.00	PLUGA	PP	Attempted to Back out Woodgroup lock down pins, after heating with torch, with no success..	9,030.0	9,030.0
20:00	03:00	7.00	PLUGA	PP	Cut Woodgroup head off, from 30", 13 3/8", and L/D same. L/D 9 7/8" casing a total of 55'. TIH with 2/7/8' stinger to 130' rkb (100' below ground level). Note: Good cement between 13 3/8" surface casing and 30" conductor, had to be chipped out of windows cut in conductor, in order to make cut on 13 3/8" casing.	9,030.0	9,030.0
03:00	05:30	2.50	PLUGA	PP	Held Safety , and Operational meeting with Halliburton,and Nabor's crew. Set fifth P & A plug : 105', " P & A" plug from 105' - 5' , below the ground level,to exceed " BLM" requirements . Cementing company : Halliburton , plug as below: R/U ,and tested lines to 2,000 psi, tested positive. Pumped : 2 bbls of " FW" ahead, followed with 64 sks. of Class H Neat. Yield : 1.15 gal/sk., water : 4.99 gal/sk., slurry wt. : 15.8 ppg., slurry volume : 13 - bbls. Pumped : 1 bbls. of "FW' behind behind. Plug in place @ 05:30 hrs., 12/30/2010, from 105' to 5' below ground level.(105'). Final surface plug. Calculated + 10 % excess for BLM, requirements.	9,030.0	9,030.0
05:30	06:00	0.50			Clean cement out of cellar for welding of plug plate, and clean cellar pump. Continue clean equipment for rig move.	9,030.0	9,030.0

Total AFE + Sup (Cost): 14,234,000.00

AFE Job Cost Summary

Cost Type	AFE Amt (Cost)
DHC	12,770,000.00
CWC	1,464,000.00

Field Estimate Job Cost Summary

Cost Typ	Field Est (Cost)
DHC	12,208,493.29
CWC	21,043.00

Daily Summary

Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
60,195.81	12,279,643.33
Daily Mud Field Est (Cost)	**Cum Mud Field Est (Cost)**
	1,410,226.19

POL (Personnel on Location): 27.0

Daily Contacts

Job Contact	Title
Mike Reel	Drilling Supt
Eric Burnett	Drilling Engineer
Noah Dupuis	Drlg. Foreman
Bill Vigil	Drilling Foreman

Personnel Log

Company	Count
PIONEER NATURAL RESOURCES	2
NABORS DRILLING INC	2
NABORS DRILLING INC	12
ZECO	1
NEWPARK	1
BADLANDZER	2
BADLANDZER	7

Weather

Precipitation Amount (in)	Precipitation Type
Temperature - High (°F)	**Temperature - Low (°F)**

Comment

NABORS DRILLING, 169

Rig Type: Drilling - Triple

Rig Start Date	Rig Release Date
11/9/2010	

1, National Supply, 10-P-130

Pump Number: 1

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi): 3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

2, National Supply, 10-P-130

Pump Number: 2

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi): 3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

3, Continental Emsco, F-1000

Pump Number: 3

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi): 3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

Job Supply Amounts

Supply Item Des	Unit Label	Received	Consumed	Cum On Loc

Mud Additive Amounts

Des	Consumed	Cum Cons

Safety Summary

BOP Test Date	Last BOP Test	BOP Func Due	HSE Incident	HSE Inc Remark
			No	None

12/30/2010

PIONEER NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 12/30/2010
REPORT: 127
DOL: 126
DFS: 99

Rig Name: NABORS DRILLING 169

Depth Progress: 0.00

Daily Summary

Mud Properties **Daily Cost: <Daily Mud Field Est?> Cum Cost: <Mud Additive**

Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	T Flowline (°F)

PV (cp)	YP (lbf/100ft²)	Filtrate (mL/30min)	HTHP Filtrate (mL/30…	HTHP Pressure (psi)	HTHP Temperature (°F)

Solids (%)	Sand (%)	MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)

Chlorides (ppm)	Calcium (ppm)	Oil Water Ratio	Electric Stab (V)	Lime (lb/bbl)	Low Gravity Solids (%)

Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Comment

Bottom Hole Assembly

BHA Since Insp (hr)	BHA Wt BelowJar (1000lbf)	Hrs on Jars (hr)

BHA #<BHA #?>, <Drill String Name?>

Bit Run	Drill Bit	Bit Type	Make

Nozzles (1/32")	IADC Codes	IADC Bit Dull

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)

Drilling Parameters

<depthstart> - <depthend> ftKB

Start (ftKB)	End Depth…	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100…	SO Str Wt (100…	Drill Str Wt (100…	Torque Units	Drilling Torque	Off Btm Tq

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/…	Max Open Hole AV (ft…

Casing Strings

Prop Run?	Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
No	Conductor	105.0	105.0	30	ERW	118.00		
No	Surface	4,345.0	4,344.6	13 3/8	K-55	68.00		
No	Intermediate	8,247.0	8,243.4	9 7/8	P-110	62.80	BTC	

Plug Back Total Depths

Date	Depth (ftKB)	Type	Method

Deviation Surveys

Tru-Trak, Proposed? No

Date	Description	Job
9/23/2010	Tru-Trak	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
11/20/2010	7,668.00	4.04						
11/20/2010	7,763.00	3.25						
11/20/2010	7,925.00	4.59						
11/20/2010	8,227.00	2.72						
11/20/2010	8,237.00	2.29						

Dipmeter, Proposed? No

Date	Description	Job
12/7/2010	Dipmeter	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
12/13/2010	8,566.00	1.75		8,562.30				
12/14/2010	8,652.00	2.48		8,648.29				
12/16/2010	8,755.00	2.76		8,751.29				
12/17/2010	8,852.00	2.98		8,848.29				
12/21/2010	8,955.00	4.15		8,951.29				

Formations

Formation Name	Final Top MD (ftKB)
Quaternary	80.0
Tertiary Volcanic	1,300.0
Tertiary Undivided	1,830.0
North Horn	3,810.0
UNCONFORMITY	4,345.0
Arapien	4,345.0
FAULT	
Arapien	
Twin Creek	
Gypsum Sprgs Mbr	
Navajo	
Chinle	
TD	

Safety Summary

12/30/2010

PIONEER NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 12/31/2010
REPORT: 128
DOL: 127
DFS: 100

Rig Name: NABORS DRILLING 169

Depth Progress: 0.00

Daily Summary

Property Sub	Field Name	API/UWI	Spud Date
327560-001	WILDCAT	43-023-30021-0000	9/22/2010

KB-Ground Distance (ft)	Original KB Elevation (ft)	KB-Mud Line Distance (ft)
25.00	5,264.00	

Daily Operations

Target Depth (ftKB)	Target Depth (TVD) (ftKB)	End Depth (ftKB)	End Depth (TVD) (ftKB)
9,040.0		8,326.0	8,322.4

Footage/Meterage (ft)	24 HR ROP (ft/hr)	Drilling Hours (hr)
0.00		

Avg Connection Gas	Avg Trip Gas	Avg Background Gas	Max Connection Gas	Max Trip Gas	Max Drill Gas

Operations at Report Time
R/D Nabor's # 169, and prep for impending move....

Operations Summary
Cleaned and back loaded rental equip., for return. Started Rigging down Nabor's # 169, for impending mobilization.

Remarks
NOTE: Rig was released @ 9:00hrs 12/30/2010, and put on De-Mob cost. (De-Mob cost 24hrs - $16575.00)

Left on location : 685 bbls. of oil base mud. (Possibly have trucks on 12/31/2010).
Note : Due to severe road conditions, vacuum trucks, unable to haul any mud from location....
Note : Released Weatherford rotating head : 12/29/2010, returned same ....
Note : Last day rental : 12/28/2010, on Nabors (stdby pump, catwalk, and Rig watch system,they were instructed to r/d rigwatch on 12/27/2010. (Notes on cost sheet & IADC).
Note : Nabor's night tool pusher released : 12/29/2010 @ 10:30 hrs., (Notes on cost sheet & IADC).
Badlandzer started cleaning mud pits on 12/28/2010 @ 13:00 hrs.
Note : 12/30/2010 : Released Zeco vacuum & person ell.
Note : Derrick should be L/D & unstrung on January 1, 2011 , if able to obtain 40' flat bed truck to assist in L/D of top drive, all trucking companies, backed up , due to weather conditions.

Note : Rig move was awarded to Black Hills trucking at 10: 43 hrs., 12/30/2010, calculated ETA of rig moving trucks : 01/03/2010 , may be delayed due to weather conditions.
**** Daily calls have been , and will continue to be made to " Black Hills",
checking on progress of current rig move, in Craig, Colorado, they are currently dedicated to.

Operations Next Report Period
Clean rig ,and prepare for rig move.
Rig down floor, and top drive system, prep for impending move.

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com	Start Depth (ftKB)	End Depth (ftKB)
06:00	09:00	3.00	RURD RT	PP	Inventory and Back Load rental equipment. All equipment was washed before being loaded on trucks for return..	9,030.0	9,030.0
09:00	06:00	21.00	DEMOB	PP	Start R/D Nabor's # 169, prep to R/D top drive system/track,and L/D derrick. Badlandzer continued cleaning mud tanks,and rig. Newpark continued transporting oil base mud from location to plant. Released & returned all possible rental equipment, not being utilized. Patching soft areas of location, in preparation of impending rig move, to get trucks from getting stuck, and delaying rig move.	9,030.0	9,030.0

Mud Properties

Daily Cost: <Daily Mud Field Est?> Cum Cost: <Mud Additive

Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	T Flowline (°F)

PV (cp)	YP (lbf/100ft²)	Filtrate (mL/30min)	HTHP Filtrate (mL/30…	HTHP Pressure (psi)	HTHP Temperature (°F)

Solids (%)	Sand (%)	MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)

Chlorides (ppm)	Calcium (ppm)	Oil Water Ratio	Electric Stab (V)	Lime (lb/bbl)	Low Gravity Solids (%)

Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Comment

Bottom Hole Assembly

BHA Since Insp (hr)	BHA Wt BelowJar (1000lbf)	Hrs on Jars (hr)

BHA #<BHA #?>, <Drill String Name?>

Bit Run	Drill Bit	Bit Type	Make

Nozzles (1/32")	IADC Codes	IADC Bit Dull

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)

Drilling Parameters

<depthstart> - <depthend> ftKB

Start (ftKB)	End Depth…	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100…	SO Str Wt (100…	Drill Str Wt (100…	Torque Units	Drilling Torque	Off Btm Tq

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/…	Max Open Hole AV (ft…

Total AFE + Sup (Cost): 14,234,000.00

AFE Job Cost Summary

Cost Type	AFE Amt (Cost)
DHC	12,770,000.00
CWC	1,464,000.00

Field Estimate Job Cost Summary

Cost Typ	Field Est (Cost)
DHC	12,214,080.50
CWC	21,043.00

Daily Summary

Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
209,935.37	12,481,713.91
Daily Mud Field Est (Cost)	**Cum Mud Field Est (Cost)**
738.50	1,416,088.40

POL (Personnel on Location): 27.0

Daily Contacts

Job Contact	Title
Mike Reel	Drilling Supt
Eric Burnett	Drilling Engineer
Noah Dupuis	Drlg. Foreman
Bill Vigil	Drilling Foreman

Personnel Log

Company	Count
PIONEER NATURAL RESOURCES	2
NABORS DRILLING INC	2
NABORS DRILLING INC	12
ZECO	1
NEWPARK	1
BADLANDZER	2
BADLANDZER	7

Weather

Precipitation Amount (in)	Precipitation Type

Temperature - High (°F)	Temperature - Low (°F)

Comment

NABORS DRILLING, 169

Rig Type: Drilling - Triple

Rig Start Date	Rig Release Date
11/9/2010	

1, National Supply, 10-P-130

Pump Number: 1

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi): 3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

2, National Supply, 10-P-130

Pump Number: 2

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi): 3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

3, Continental Emsco, F-1000

Pump Number: 3

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi): 3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

Job Supply Amounts

Supply Item Des	Unit Label	Received	Consumed	Cum On Loc

Mud Additive Amounts

Des	Consumed	Cum Cons
BULK TANK	2	220
BULK TANK BLOWERS	2	198
MUD ENGINEER	1	110

Safety Summary

BOP Test Date	Last BOP Test	BOP Func Due	HSE Incident	HSE Inc Remark

12/31/2010

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 12/31/2010
REPORT: 128
DOL: 127
DFS: 100

Rig Name: NABORS DRILLING 169

Depth Progress: 0.00

Daily Summary

Casing Strings

Prop Run?	Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
No	Conductor	105.0	105.0	30	ERW	118.00		
No	Surface	4,345.0	4,344.6	13 3/8	K-55	68.00		
No	Intermediate	8,247.0	8,243.4	9 7/8	P-110	62.80	BTC	

Plug Back Total Depths

Date	Depth (ftKB)	Type	Method

Deviation Surveys

Tru-Trak, Proposed? No

Date	Description	Job
9/23/2010	Tru-Trak	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
11/20/2010	7,668.00	4.04						
11/20/2010	7,763.00	3.25						
11/20/2010	7,925.00	4.59						
11/20/2010	8,227.00	2.72						
11/20/2010	8,237.00	2.29						

Dipmeter, Proposed? No

Date	Description	Job
12/7/2010	Dipmeter	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
12/13/2010	8,566.00	1.75		8,562.30				
12/14/2010	8,652.00	2.48		8,648.29				
12/16/2010	8,755.00	2.76		8,751.29				
12/17/2010	8,852.00	2.98		8,848.29				
12/21/2010	8,955.00	4.15		8,951.29				

Mud Additive Amounts

Des	Consumed	Cum Cons
MUD LAB	1	102
Tax	14	68,687

Formations

Formation Name	Final Top MD (ftKB)
Quaternary	80.0
Tertiary Volcanic	1,300.0
Tertiary Undivided	1,830.0
North Horn	3,810.0
UNCONFORMITY	4,345.0
Arapien	4,345.0
FAULT	
Arapien	
Twin Creek	
Gypsum Sprgs Mbr	
Navajo	
Chinle	
TD	

Safety Summary

12/31/2010

PIONEER NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 1/1/2011
REPORT: 129
DOL: 128
DFS: 101

Rig Name: NABORS DRILLING 169

Depth Progress: 0.00

Daily Summary

Property Sub	Field Name	API/UWI	Spud Date
327560-001	WILDCAT	43-023-30021-0000	9/22/2010

KB-Ground Distance (ft)	Original KB Elevation (ft)	KB-Mud Line Distance (ft)
25.00	5,264.00	

Daily Operations

Target Depth (ftKB)	Target Depth (TVD) (ftKB)	End Depth (ftKB)	End Depth (TVD) (ftKB)
9,040.0		8,326.0	8,322.4

Footage/Meterage (ft)	24 HR ROP (ft/hr)	Drilling Hours (hr)
0.00		

Avg Connection Gas	Avg Trip Gas	Avg Background Gas	Max Connection Gas	Max Trip Gas	Max Drill Gas

Operations at Report Time
R/D Nabor's # 169, and prep for impending move....

Operations Summary
Clean Rig, and prepare for rig move. RD floor, RD TDS, Prep derrick to lay over. Haul remainder of OBM off location.

Remarks
Note : Rig move was awarded to Black Hills trucking at 10: 43 hrs., 12/30/2010, calculated ETA of rig moving trucks : 01/04/2010 , may be delayed due to weather conditions.
**** Daily calls have been , and will continue to be made to " Black Hills",
checking on progress of current rig move, in Craig, Colorado, they are currently dedicated to. Spoke with Rick this afternoon, and he said if weather permits he will finish with the rig move that they are on, and have trucks here 1/4/2011. He will stay in contact if anything changes.

Bed Truck delayed due to road conditions, called ran out of hours and stopped for night in Nephi, Ut., Will be on location at 6:30 hrs.

All OBM off location and hauled back to Sand Draw.

800 bbls of OBM still in storage at Denton Oil Co.

Operations Next Report Period
Clean rig and prepare for rig move. Remove TDS from Derrick. Lay over derrick. Get completed count of all chemicals left on location and prep to ship them out.

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com	Start Depth (ftKB)	End Depth (ftKB)
06:00	06:00	24.00	DEMOB	PP	Continue R/D Nabor's # 169, prep to R/D top drive system/track,and L/D derrick. Badlandzer continued cleaning mud tanks, rig and equipment. Load and release 40 jts of 2 7/8" tubing. Started cleaning cuttings out of mud tanks with RNI trucking Super Sucker. Hauled 1 load of brine to disposal. Hauled off remainder of OBM to Sand Draw.	9,030.0	9,030.0

Mud Properties

Daily Cost: <Daily Mud Field Est?> Cum Cost: <Mud Additive

Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	T Flowline (°F)

PV (cp)	YP (lbf/100ft²)	Filtrate (mL/30min)	HTHP Filtrate (mL/30…	HTHP Pressure (psi)	HTHP Temperature (°F)

Solids (%)	Sand (%)	MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)

Chlorides (ppm)	Calcium (ppm)	Oil Water Ratio	Electric Stab (V)	Lime (lb/bbl)	Low Gravity Solids (%)

Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Comment

Bottom Hole Assembly

BHA Since Insp (hr)	BHA Wt BelowJar (1000lbf)	Hrs on Jars (hr)

BHA #<BHA #?>, <Drill String Name?>

Bit Run	Drill Bit	Bit Type	Make

Nozzles (1/32")	IADC Codes	IADC Bit Dull

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)

Drilling Parameters

<depthstart> - <depthend> ftKB

Start (ftKB)	End Depth…	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100…	SO Str Wt (100…	Drill Str Wt (100…	Torque Units	Drilling Torque	Off Btm Tq

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/…	Max Open Hole AV (ft…

Casing Strings

Prop Run?	Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
No	Conductor	105.0	105.0	30	ERW	118.00		
No	Surface	4,345.0	4,344.6	13 3/8	K-55	68.00		

Total AFE + Sup (Cost): 14,234,000.00

AFE Job Cost Summary

Cost Type	AFE Amt (Cost)
DHC	12,770,000.00
CWC	1,464,000.00

Field Estimate Job Cost Summary

Cost Typ	Field Est (Cost)
DHC	12,224,826.50
CWC	21,043.00

Daily Summary

Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
30,482.40	12,512,196.31

Daily Mud Field Est (Cost)	Cum Mud Field Est (Cost)
725.00	1,416,813.40

POL (Personnel on Location): 32.0

Daily Contacts

Job Contact	Title
Mike Reel	Drilling Supt
Eric Burnett	Drilling Engineer
Bill Vigil	Drilling Foreman

Personnel Log

Company	Count
PIONEER NATURAL RESOURCES	1
NABORS DRILLING INC	2
NABORS DRILLING INC	12
BADLANDZER	2
BADLANDZER	14
NEWPARK DRILLING FLUIDS INC	1

Weather

Precipitation Amount (in)	Precipitation Type
3.000	Snow

Temperature - High (°F)	Temperature - Low (°F)
16.0	-6.0

Comment:

NABORS DRILLING, 169

Rig Type: Drilling - Triple

Rig Start Date	Rig Release Date
11/9/2010	

1, National Supply, 10-P-130

Pump Number: 1

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi): 3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

2, National Supply, 10-P-130

Pump Number: 2

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi): 3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

3, Continental Emsco, F-1000

Pump Number: 3

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi): 3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

Job Supply Amounts

Supply Item Des	Unit Label	Received	Consumed	Cum On Loc

Mud Additive Amounts

Des	Consumed	Cum Cons
BULK TANK	2	222
BULK TANK BLOWERS	2	200
MUD ENGINEER	1	111
MUD LAB	1	103

Safety Summary

BOP Test Date	Last BOP Test	BOP Func Due	HSE Incident	HSE Inc Remark

1/1/2011

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 1/1/2011
REPORT: 129
DOL: 128
DFS: 101

Rig Name: NABORS DRILLING 169

Depth Progress: 0.00

Daily Summary

Casing Strings

Prop Run?	Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
No	Intermediate	8,247.0	8,243.4	9 7/8	P-110	62.80	BTC	

Plug Back Total Depths

Date	Depth (ftKB)	Type	Method

Deviation Surveys

Tru-Trak, Proposed? No

Date	Description	Job
9/23/2010	Tru-Trak	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
11/20/2010	7,668.00	4.04						
11/20/2010	7,763.00	3.25						
11/20/2010	7,925.00	4.59						
11/20/2010	8,227.00	2.72						
11/20/2010	8,237.00	2.29						

Dipmeter, Proposed? No

Date	Description	Job
12/7/2010	Dipmeter	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
12/13/2010	8,566.00	1.75		8,562.30				
12/14/2010	8,652.00	2.48		8,648.29				
12/16/2010	8,755.00	2.76		8,751.29				
12/17/2010	8,852.00	2.98		8,848.29				
12/21/2010	8,955.00	4.15		8,951.29				

Formations

Formation Name	Final Top MD (ftKB)
Quaternary	80.0
Tertiary Volcanic	1,300.0
Tertiary Undivided	1,830.0
North Horn	3,810.0
UNCONFORMITY	4,345.0
Arapien	4,345.0
FAULT	
Arapien	
Twin Creek	
Gypsum Sprgs Mbr	
Navajo	
Chinle	
TD	

Safety Summary

1/1/2011

PIONEER NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 1/2/2011
REPORT: 130
DOL: 129
DFS: 102

Rig Name: NABORS DRILLING 169

Depth Progress: 0.00

Daily Summary

Property Sub	Field Name	API/UWI	Spud Date
327560-001	WILDCAT	43-023-30021-0000	9/22/2010

KB-Ground Distance (ft)	Original KB Elevation (ft)	KB-Mud Line Distance (ft)
25.00	5,264.00	

Daily Operations

Target Depth (ftKB)	Target Depth (TVD) (ftKB)	End Depth (ftKB)	End Depth (TVD) (ftKB)
9,040.0		8,326.0	8,322.4

Footage/Meterage (ft)	24 HR ROP (ft/hr)	Drilling Hours (hr)
0.00		

Avg Connection Gas	Avg Trip Gas	Avg Background Gas	Max Connection Gas	Max Trip Gas	Max Drill Gas

Operations at Report Time
R/D Nabor's # 169, and prep for impending move....

Operations Summary
Clean Rig, and prepare for rig move. RD floor, LD TDS, Prep derrick to lay over. Began to build stage area to wash equipment once loaded onto trucks.

Remarks
Note : Rig move was awarded to Black Hills trucking at 10: 43 hrs., 12/30/2010, calculated ETA of rig moving trucks 01/04/2010 , may be delayed due to weather conditions.

800 bbls of OBM still in storage at Denton Oil Co.

Badlanderz Continue to clean rig equipment

Should have derrick laid over tomorrow evening.

Operations Next Report Period
Clean rig and prepare for rig move. . Lay over derrick. Continue to Ship out chemicals.

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com	Start Depth (ftKB)	End Depth (ftKB)
06:00	06:00	24.00	DEMOB	PP	RD rig floor wind walls. LD TDS. Clean shaker tank. Clean & move pre-mix tank. Hauled 1 load of Brine to disposal well. (All Brine off location, just need to clean tank) Moved cutting from cutting pit to south pit. Began to build stage area to wash equipment before it leaves location. Continue to wash rig equipment	9,030.0	9,030.0

Mud Properties

Daily Cost: <Daily Mud Field Est?> Cum Cost: <Mud Additive

Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	T Flowline (°F)

PV (cp)	YP (lbf/100ft²)	Filtrate (mL/30min)	HTHP Filtrate (mL/30...	HTHP Pressure (psi)	HTHP Temperature (°F)

Solids (%)	Sand (%)	MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)

Chlorides (ppm)	Calcium (ppm)	Oil Water Ratio	Electric Stab (V)	Lime (lb/bbl)	Low Gravity Solids (%)

Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Comment

Bottom Hole Assembly

BHA Since Insp (hr)	BHA Wt BelowJar (1000lbf)	Hrs on Jars (hr)

BHA #<BHA #?>, <Drill String Name?>

Bit Run	Drill Bit	Bit Type	Make

Nozzles (1/32")	IADC Codes	IADC Bit Dull

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)

Drilling Parameters

<depthstart> - <depthend> ftKB

Start (ftKB)	End Depth...	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100...	SO Str Wt (100...	Drill Str Wt (100...	Torque Units	Drilling Torque	Off Btm Tq

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/...	Max Open Hole AV (ft...

Casing Strings

Prop Run?	Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
No	Conductor	105.0	105.0	30	ERW	118.00		
No	Surface	4,345.0	4,344.6	13 3/8	K-55	68.00		
No	Intermediate	8,247.0	8,243.4	9 7/8	P-110	62.80	BTC	

Plug Back Total Depths

Date	Depth (ftKB)	Type	Method

Deviation Surveys

Tru-Trak, Proposed? No

Date	Description	Job
9/23/2010	Tru-Trak	EXD, 9/22/2010 09:00

Total AFE + Sup (Cost): 14,234,000.00

AFE Job Cost Summary

Cost Type	AFE Amt (Cost)
DHC	12,770,000.00
CWC	1,464,000.00

Field Estimate Job Cost Summary

Cost Typ	Field Est (Cost)
DHC	12,233,922.50
CWC	21,043.00

Daily Summary

Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
25,671.00	12,537,867.31

Daily Mud Field Est (Cost)	Cum Mud Field Est (Cost)
725.00	1,417,538.40

POL (Personnel on Location): 32.0

Daily Contacts

Job Contact	Title
Mike Reel	Drilling Supt
Eric Burnett	Drilling Engineer
Bill Vigil	Drilling Foreman

Personnel Log

Company	Count
PIONEER NATURAL RESOURCES	1
NABORS DRILLING INC	2
NABORS DRILLING INC	12
BADLANDZER	2
BADLANDZER	14
NEWPARK DRILLING FLUIDS INC	1

Weather

Precipitation Amount (in)	Precipitation Type

Temperature - High (°F)	Temperature - Low (°F)

Comment

NABORS DRILLING, 169

Rig Type: Drilling - Triple

Rig Start Date	Rig Release Date
11/9/2010	

1, National Supply, 10-P-130

Pump Number: 1

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi): 3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

2, National Supply, 10-P-130

Pump Number: 2

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi): 3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

3, Continental Emsco, F-1000

Pump Number: 3

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi): 3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

Job Supply Amounts

Supply Item Des	Unit Label	Received	Consumed	Cum On Loc

Mud Additive Amounts

Des	Consumed	Cum Cons
BULK TANK	2	224
BULK TANK BLOWERS	2	202
MUD ENGINEER	1	112
MUD LAB	1	104

Safety Summary

BOP Test Date	Last BOP Test	BOP Func Due	HSE Incident	HSE Inc Remark

1/2/2011

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Daily Drilling Report

Well Name: South Hills 6-1

Rig Name: NABORS DRILLING 169

Depth Progress: 0.00

REPORT DATE: 1/2/2011
REPORT: 130
DOL: 129
DFS: 102

Daily Summary

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
11/20/2010	7,668.00	4.04						
11/20/2010	7,763.00	3.25						
11/20/2010	7,925.00	4.59						
11/20/2010	8,227.00	2.72						
11/20/2010	8,237.00	2.29						

Dipmeter, Proposed? No

Date	Description	Job
12/7/2010	Dipmeter	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
12/13/2010	8,566.00	1.75		8,562.30				
12/14/2010	8,652.00	2.48		8,648.29				
12/16/2010	8,755.00	2.76		8,751.29				
12/17/2010	8,852.00	2.98		8,848.29				
12/21/2010	8,955.00	4.15		8,951.29				

Formations

Formation Name	Final Top MD (ftKB)
Quaternary	80.0
Tertiary Volcanic	1,300.0
Tertiary Undivided	1,830.0
North Horn	3,810.0
UNCONFORMITY	4,345.0
Arapien	4,345.0
FAULT	
Arapien	
Twin Creek	
Gypsum Sprgs Mbr	
Navajo	
Chinle	
TD	

Safety Summary

1/2/2011

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 1/3/2011
REPORT: 131
DOL: 130
DFS: 103

Rig Name: NABORS DRILLING 169

Depth Progress: 0.00

Daily Summary

Property Sub	Field Name	API/UWI	Spud Date
327560-001	WILDCAT	43-023-30021-0000	9/22/2010

KB-Ground Distance (ft)	Original KB Elevation (ft)	KB-Mud Line Distance (ft)
25.00	5,264.00	

Daily Operations

Target Depth (ftKB)	Target Depth (TVD) (ftKB)	End Depth (ftKB)	End Depth (TVD) (ftKB)
9,040.0		8,326.0	8,322.4

Footage/Meterage (ft)	24 HR ROP (ft/hr)	Drilling Hours (hr)
0.00		

Avg Connection Gas	Avg Trip Gas	Avg Background Gas	Max Connection Gas	Max Trip Gas	Max Drill Gas

Operations at Report Time
R/D Nabor's # 169, and prep for impending move....

Operations Summary
Clean Rig, and prepare for rig move. RD floor wind walls, lay over derrick. Continue to build stage area to wash equipment once loaded onto trucks. Super Sucker cleaned shaker pit, and brine tank. Ship out Newpark chemicals

Remarks
NOTE: Daily mud cost was adjusted to final chemical count difference, and broken / busted chemical sacks.

Black Hills Trucking to be on location 1/4/11 with 2 rig down trucks and 1 crane.

String down crew to be on location 1/3/11 late evening.

Operations Next Report Period
Clean rig and prepare for rig move. String down blocks. Ship OBM from storage to Newpark plant.

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com	Start Depth (ftKB)	End Depth (ftKB)
06:00	06:00	24.00	DEMOB	PP	Bridle Up to lower derrick RD wind walls on rig floor Ship out 3 loads of chemicals, and Mud Lab, and 1 load of Bar Set derrick stand in place RD 2 sir hoist on rig floor LD derrick Finish cleaning cuttings out of shaker tanks. Badlanderz crews continue to wash equipment. Nabors crews continue to RD equipment	9,030.0	9,030.0

Mud Properties

Daily Cost: <Daily Mud Field Est?> Cum Cost: <Mud Additive

Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	T Flowline (°F)

PV (cp)	YP (lbf/100ft²)	Filtrate (mL/30min)	HTHP Filtrate (mL/30...	HTHP Pressure (psi)	HTHP Temperature (°F)

Solids (%)	Sand (%)	MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)

Chlorides (ppm)	Calcium (ppm)	Oil Water Ratio	Electric Stab (V)	Lime (lb/bbl)	Low Gravity Solids (%)

Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Comment

Bottom Hole Assembly

BHA Since Insp (hr)	BHA Wt BelowJar (1000lbf)	Hrs on Jars (hr)

BHA #<BHA #?>, <Drill String Name?>

Bit Run	Drill Bit	Bit Type	Make

Nozzles (1/32")	IADC Codes	IADC Bit Dull

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)

Drilling Parameters

<depthstart> - <depthend> ftKB

Start (ftKB)	End Depth...	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100...	SO Str Wt (100...	Drill Str Wt (100...	Torque Units	Drilling Torque	Off Btm Tq

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/...	Max Open Hole AV (ft...

Casing Strings

Prop Run?	Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
No	Conductor	105.0	105.0	30	ERW	118.00		
No	Surface	4,345.0	4,344.6	13 3/8	K-55	68.00		
No	Intermediate	8,247.0	8,243.4	9 7/8	P-110	62.80	BTC	

Plug Back Total Depths

Date	Depth (ftKB)	Type	Method

Deviation Surveys

Tru-Trak, Proposed? No

Date	Description	Job
9/23/2010	Tru-Trak	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
11/20/2010	7,668.00	4.04						

Total AFE + Sup (Cost): 14,234,000.00

AFE Job Cost Summary

Cost Type	AFE Amt (Cost)
DHC	12,770,000.00
CWC	1,464,000.00

Field Estimate Job Cost Summary

Cost Typ	Field Est (Cost)
DHC	12,255,982.23
CWC	21,043.00

Daily Summary

Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
39,859.73	12,584,361.93
Daily Mud Field Est (Cost)	**Cum Mud Field Est (Cost)**
13,748.73	1,431,314.13

POL (Personnel on Location): 32.0

Daily Contacts

Job Contact	Title
Mike Reel	Drilling Supt
Eric Burnett	Drilling Engineer
Bill Vigil	Drilling Foreman

Personnel Log

Company	Count
PIONEER NATURAL RESOURCES	1
NABORS DRILLING INC	2
NABORS DRILLING INC	12
BADLANDZER	2
BADLANDZER	14
NEWPARK DRILLING FLUIDS INC	1

Weather

Precipitation Amount (in)	Precipitation Type

Temperature - High (°F)	Temperature - Low (°F)

Comment

NABORS DRILLING, 169

Rig Type: Drilling - Triple

Rig Start Date	Rig Release Date
11/9/2010	

1, National Supply, 10-P-130

Pump Number: 1

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi): 3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

2, National Supply, 10-P-130

Pump Number: 2

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi): 3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

3, Continental Emsco, F-1000

Pump Number: 3

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi): 3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

Job Supply Amounts

Supply Item Des	Unit Label	Received	Consumed	Cum On Loc

Mud Additive Amounts

Des	Consumed	Cum Cons
Bentone 910	-18	512
BULK TANK	2	226
BULK TANK BLOWERS	2	204
Calcium Chloride	2	44
Calcium Chloride	20	64

Safety Summary

BOP Test Date	Last BOP Test	BOP Func Due	HSE Incident	HSE Inc Remark

1/3/2011

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Daily Drilling Report

Well Name: South Hills 6-1

Rig Name: NABORS DRILLING 169

Depth Progress: 0.00

REPORT DATE: 1/3/2011
REPORT: 131
DOL: 130
DFS: 103

Daily Summary

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
11/20/2010	7,763.00	3.25						
11/20/2010	7,925.00	4.59						
11/20/2010	8,227.00	2.72						
11/20/2010	8,237.00	2.29						

Dipmeter, Proposed? No

Date	Description	Job
12/7/2010	Dipmeter	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
12/13/2010	8,566.00	1.75		8,562.30				
12/14/2010	8,652.00	2.48		8,648.29				
12/16/2010	8,755.00	2.76		8,751.29				
12/17/2010	8,852.00	2.98		8,848.29				
12/21/2010	8,955.00	4.15		8,951.29				

Mud Additive Amounts

Des	Consumed	Cum Cons
Cyber Seal	97	330
Dyna Fiber Cor	68	932
Fiber Fluid Cor	8	1,174
GSX-509	6	91
Lime	-49	1,013
Mica F	65	672
MUD ENGINEER	1	113
New Carb Med	-3	504
Oil Dry	35	80
Opti-Clean	6	17
Opti-Thin	3	28
SALT	27	49
Salt Water Gel	100	250
Sawdust	55	75
Strata Vanguard F	1	1
Strata Vanguard M	6	505
Tax	741	69,454

Formations

Formation Name	Final Top MD (ftKB)
Quaternary	80.0
Tertiary Volcanic	1,300.0
Tertiary Undivided	1,830.0
North Horn	3,810.0
UNCONFORMITY	4,345.0
Arapien	4,345.0
FAULT	
Arapien	
Twin Creek	
Gypsum Sprgs Mbr	
Navajo	
Chinle	
TD	

Safety Summary

1/3/2011

PIONEER NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 1/4/2011
REPORT: 132
DOL: 131
DFS: 104

Rig Name: NABORS DRILLING 169

Depth Progress: 0.00

Daily Summary

Property Sub	Field Name	API/UWI	Spud Date
327560-001	WILDCAT	43-023-30021-0000	9/22/2010

KB-Ground Distance (ft)	Original KB Elevation (ft)	KB-Mud Line Distance (ft)
25.00	5,264.00	

Daily Operations

Target Depth (ftKB)	Target Depth (TVD) (ftKB)	End Depth (ftKB)	End Depth (TVD) (ftKB)
9,040.0		8,326.0	8,322.4

Footage/Meterage (ft)	24 HR ROP (ft/hr)	Drilling Hours (hr)
0.00		

Avg Connection Gas	Avg Trip Gas	Avg Background Gas	Max Connection Gas	Max Trip Gas	Max Drill Gas

Operations at Report Time
R/D Nabor's # 169, wash & prep equipment for move.

Operations Summary
Continue to RD rig and equipment, mud tanks are cleaned out, cleaned brine tank, and 1 OBM tank cleaned. Continue to wash equipment. Blocks on stand and prep for string down crew.

Remarks
Note: Nabors called off Black Hills Trucking for rig move due to alternate location for another operator.

Note: Credit on cost for OBM bonus, Administrative costs (since last plug), final credit for Chemicals.

Operations Next Report Period
Clean rig and prepare for rig move. String down blocks. Ship OBM from storage to Newpark plant. Release and move out houses, Zeco equipment, frac tanks, gate guards. Finish cleaning OBM frac tanks, and cellar area using RNI Super Sucker truck. RD BAR bins.

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com	Start Depth (ftKB)	End Depth (ftKB)
06:00	06:00	24.00	DEMOB	PP	Prep blocks and drill line to string down, dress out derrick to break down into sections. Wash inside of sub structure, pump house, and inside of mud pits. Finish cleaning shaker sand traps. Clean brine tank. RD equipment, lines, and hoses not being used. Wash 1 of 3 OBM tanks. Continue to build stage area to wash equipment.	9,030.0	9,030.0

Mud Properties

Daily Cost: <Daily Mud Field Est?> Cum Cost: <Mud Additive

Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	T Flowline (°F)

PV (cp)	YP (lbf/100ft²)	Filtrate (mL/30min)	HTHP Filtrate (mL/30...	HTHP Pressure (psi)	HTHP Temperature (°F)

Solids (%)	Sand (%)	MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)

Chlorides (ppm)	Calcium (ppm)	Oil Water Ratio	Electric Stab (V)	Lime (lb/bbl)	Low Gravity Solids (%)

Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Comment

Bottom Hole Assembly

BHA Since Insp (hr)	BHA Wt BelowJar (1000lbf)	Hrs on Jars (hr)

BHA #<BHA #?>, <Drill String Name?>

Bit Run	Drill Bit	Bit Type	Make

Nozzles (1/32")	IADC Codes	IADC Bit Dull

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)

Drilling Parameters

<depthstart> - <depthend> ftKB

Start (ftKB)	End Depth...	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100...	SO Str Wt (100...	Drill Str Wt (100...	Torque Units	Drilling Torque	Off Btm Tq

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/...	Max Open Hole AV (ft...

Casing Strings

Prop Run?	Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
No	Conductor	105.0	105.0	30	ERW	118.00		
No	Surface	4,345.0	4,344.6	13 3/8	K-55	68.00		
No	Intermediate	8,247.0	8,243.4	9 7/8	P-110	62.80	BTC	

Plug Back Total Depths

Date	Depth (ftKB)	Type	Method

Deviation Surveys

Tru-Trak, Proposed? No

Date	Description	Job
9/23/2010	Tru-Trak	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
11/20/2010	7,668.00	4.04						
11/20/2010	7,763.00	3.25						

Total AFE + Sup (Cost): 14,234,000.00

AFE Job Cost Summary

Cost Type	AFE Amt (Cost)
DHC	12,770,000.00
CWC	1,464,000.00

Field Estimate Job Cost Summary

Cost Typ	Field Est (Cost)
DHC	12,248,047.23
CWC	21,043.00

Daily Summary

Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
9,865.00	12,594,226.93
Daily Mud Field Est (Cost)	**Cum Mud Field Est (Cost)**
-7,186.00	1,424,128.13

POL (Personnel on Location): 32.0

Daily Contacts

Job Contact	Title
Mike Reel	Drilling Supt
Eric Burnett	Drilling Engineer
Bill Vigil	Drilling Foreman

Personnel Log

Company	Count
PIONEER NATURAL RESOURCES	1
NABORS DRILLING INC	2
NABORS DRILLING INC	12
BADLANDZER	2
BADLANDZER	14
NEWPARK DRILLING FLUIDS INC	1

Weather

Precipitation Amount (in)	Precipitation Type
Temperature - High (°F)	**Temperature - Low (°F)**

Comment

NABORS DRILLING, 169

Rig Type: Drilling - Triple

Rig Start Date	Rig Release Date
11/9/2010	

1, National Supply, 10-P-130

Pump Number: 1

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi): 3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

2, National Supply, 10-P-130

Pump Number: 2

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi): 3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

3, Continental Emsco, F-1000

Pump Number: 3

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi): 3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

Job Supply Amounts

Supply Item Des	Unit Label	Received	Consumed	Cum On Loc

Mud Additive Amounts

Des	Consumed	Cum Cons
Drum Disposal	-22	128
MUD ENGINEER	1	114
New Seal	-40	120
Opti-Plus	-2	75
Opti-Wet	-2	2

Safety Summary

BOP Test Date	Last BOP Test	BOP Func Due	HSE Incident	HSE Inc Remark

1/4/2011

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Daily Drilling Report

Well Name: South Hills 6-1

Rig Name: NABORS DRILLING 169

Depth Progress: 0.00

REPORT DATE: 1/4/2011
REPORT: 132
DOL: 131
DFS: 104

Daily Summary

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
11/20/2010	7,925.00	4.59						
11/20/2010	8,227.00	2.72						
11/20/2010	8,237.00	2.29						

Dipmeter, Proposed? No

Date	Description	Job
12/7/2010	Dipmeter	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
12/13/2010	8,566.00	1.75		8,562.30				
12/14/2010	8,652.00	2.48		8,648.29				
12/16/2010	8,755.00	2.76		8,751.29				
12/17/2010	8,852.00	2.98		8,848.29				
12/21/2010	8,955.00	4.15		8,951.29				

Mud Additive Amounts

Des	Consumed	Cum Cons
Pallets	-26	150
Tax	0	69,454

Formations

Formation Name	Final Top MD (ftKB)
Quaternary	80.0
Tertiary Volcanic	1,300.0
Tertiary Undivided	1,830.0
North Horn	3,810.0
UNCONFORMITY	4,345.0
Arapien	4,345.0
FAULT	
Arapien	
Twin Creek	
Gypsum Sprgs Mbr	
Navajo	
Chinle	
TD	

Safety Summary

1/4/2011

PIONEER NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 1/5/2011
REPORT: 133
DOL: 132
DFS: 105

Rig Name: NABORS DRILLING 169

Depth Progress: 0.00

Daily Summary

Property Sub	Field Name	API/UWI	Spud Date
327560-001	WILDCAT	43-023-30021-0000	9/22/2010

KB-Ground Distance (ft)	Original KB Elevation (ft)	KB-Mud Line Distance (ft)
25.00	5,264.00	

Daily Operations

Target Depth (ftKB)	Target Depth (TVD) (ftKB)	End Depth (ftKB)	End Depth (TVD) (ftKB)
9,040.0		8,326.0	8,322.4

Footage/Meterage (ft)	24 HR ROP (ft/hr)	Drilling Hours (hr)
0.00		

Avg Connection Gas	Avg Trip Gas	Avg Background Gas	Max Connection Gas	Max Trip Gas	Max Drill Gas

Operations at Report Time
R/D Nabor's # 169, wash & prep equipment for move.

Operations Summary
Continue to RD rig and equipment. Continue to wash equipment. String down blocks. Prep for RD Trucks and Crane on 1/5/2011. Finish Building Stage area to wash trucks. Send out 300 bbls of OBM from Denton Yard, to Newpark 600 bbls remain, will finish shipping out today. Release and move out houses, Zeco equipment, frac tanks, gate guards. Cleaning OBM frac tanks, and cellar area using RNI Super Sucker truck.

Remarks
Released: Gate Guard, 3 houses and 1 - 5th Wheel, 4- Frac tanks, and 1- Pump, 6th Man from Nabors crews,

Operations Next Report Period
Clean rig and prepare for rig move. Continue to ship OBM from storage to Newpark plant.

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com	Start Depth (ftKB)	End Depth (ftKB)
06:00	06:00	24.00	DEMOB	PP	Wash inside of sub structure. Clean 1 OBM tanks, 1 remain and cellar and sub area using Super Sucker truck. RD equipment, lines, and hoses not being used. Finish building stage area to wash equipment. Ship 2 loads of Zeco back to Vernal, 1 small hotshot remain Move out 3 houses, and water Continue to clean all equipment	9,030.0	9,030.0

Mud Properties

Daily Cost: <Daily Mud Field Est?> Cum Cost: <Mud Additive

Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	T Flowline (°F)

PV (cp)	YP (lbf/100ft²)	Filtrate (mL/30min)	HTHP Filtrate (mL/30…	HTHP Pressure (psi)	HTHP Temperature (°F)

Solids (%)	Sand (%)	MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)

Chlorides (ppm)	Calcium (ppm)	Oil Water Ratio	Electric Stab (V)	Lime (lb/bbl)	Low Gravity Solids (%)

Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Comment

Bottom Hole Assembly

BHA Since Insp (hr)	BHA Wt BelowJar (1000lbf)	Hrs on Jars (hr)

BHA #<BHA #?>, <Drill String Name?>

Bit Run	Drill Bit	Bit Type	Make

Nozzles (1/32")	IADC Codes	IADC Bit Dull

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)

Drilling Parameters

<depthstart> - <depthend> ftKB

Start (ftKB)	End Depth…	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100…	SO Str Wt (100…	Drill Str Wt (100…	Torque Units	Drilling Torque	Off Btm Tq

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/…	Max Open Hole AV (ft…

Casing Strings

Prop Run?	Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
No	Conductor	105.0	105.0	30	ERW	118.00		
No	Surface	4,345.0	4,344.6	13 3/8	K-55	68.00		
No	Intermediate	8,247.0	8,243.4	9 7/8	P-110	62.80	BTC	

Plug Back Total Depths

Date	Depth (ftKB)	Type	Method

Deviation Surveys

Tru-Trak, Proposed? No

Date	Description	Job
9/23/2010	Tru-Trak	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
11/20/2010	7,668.00	4.04						
11/20/2010	7,763.00	3.25						

Total AFE + Sup (Cost): 14,234,000.00

AFE Job Cost Summary

Cost Type	AFE Amt (Cost)
DHC	12,770,000.00
CWC	1,464,000.00

Field Estimate Job Cost Summary

Cost Typ	Field Est (Cost)
DHC	12,250,906.23
CWC	21,043.00

Daily Summary

Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
2,859.00	12,597,085.93
Daily Mud Field Est (Cost)	**Cum Mud Field Est (Cost)**
500.00	1,424,628.13

POL (Personnel on Location): 32.0

Daily Contacts

Job Contact	Title
Mike Reel	Drilling Supt
Eric Burnett	Drilling Engineer
Bill Vigil	Drilling Foreman

Personnel Log

Company	Count
PIONEER NATURAL RESOURCES	1
NABORS DRILLING INC	2
NABORS DRILLING INC	12
BADLANDZER	2
BADLANDZER	14
NEWPARK DRILLING FLUIDS INC	1

Weather

Precipitation Amount (in)	Precipitation Type

Temperature - High (°F)	Temperature - Low (°F)

Comment

NABORS DRILLING, 169

Rig Type: Drilling - Triple

Rig Start Date	Rig Release Date
11/9/2010	

1, National Supply, 10-P-130

Pump Number: 1

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi): 3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

2, National Supply, 10-P-130

Pump Number: 2

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi): 3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

3, Continental Emsco, F-1000

Pump Number: 3

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi): 3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

Job Supply Amounts

Supply Item Des	Unit Label	Received	Consumed	Cum On Loc

Mud Additive Amounts

Des	Consumed	Cum Cons
MUD ENGINEER	1	115

Formations

Formation Name	Final Top MD (ftKB)
Quaternary	80.0
Tertiary Volcanic	1,300.0

Safety Summary

BOP Test Date	Last BOP Test	BOP Func Due	HSE Incident	HSE Inc Remark

1/5/2011

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Daily Drilling Report

Well Name: South Hills 6-1

Rig Name: NABORS DRILLING 169

Depth Progress: 0.00

REPORT DATE: 1/5/2011
REPORT: 133
DOL: 132
DFS: 105

Daily Summary

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
11/20/2010	7,925.00	4.59						
11/20/2010	8,227.00	2.72						
11/20/2010	8,237.00	2.29						

Dipmeter, Proposed? No

Date	Description	Job
12/7/2010	Dipmeter	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
12/13/2010	8,566.00	1.75		8,562.30				
12/14/2010	8,652.00	2.48		8,648.29				
12/16/2010	8,755.00	2.76		8,751.29				
12/17/2010	8,852.00	2.98		8,848.29				
12/21/2010	8,955.00	4.15		8,951.29				

Formations

Formation Name	Final Top MD (ftKB)
Tertiary Undivided	1,830.0
North Horn	3,810.0
UNCONFORMITY	4,345.0
Arapien	4,345.0
FAULT	
Arapien	
Twin Creek	
Gypsum Sprgs Mbr	
Navajo	
Chinle	
TD	

Safety Summary

1/5/2011

PIONEER NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 1/6/2011
REPORT: 134
DOL: 133
DFS: 106

Rig Name: NABORS DRILLING 169

Depth Progress: 0.00

Daily Summary

Property Sub	Field Name	API/UWI	Spud Date
327560-001	WILDCAT	43-023-30021-0000	9/22/2010

KB-Ground Distance (ft)	Original KB Elevation (ft)	KB-Mud Line Distance (ft)
25.00	5,264.00	

Daily Operations

Target Depth (ftKB)	Target Depth (TVD) (ftKB)	End Depth (ftKB)	End Depth (TVD) (ftKB)
9,040.0		8,326.0	8,322.4

Footage/Meterage (ft)	24 HR ROP (ft/hr)	Drilling Hours (hr)
0.00		

Avg Connection Gas	Avg Trip Gas	Avg Background Gas	Max Connection Gas	Max Trip Gas	Max Drill Gas

Operations at Report Time
R/D Nabor's # 169, wash & prep equipment for move.

Operations Summary
Continue to wash and RD equipment. Haul off last load of ZECO solids equipment to Vernal yard.
Begin to move off Nabors #169 equipment.

Remarks
Rig Down trucks and Crane on location @ 07:30hrs, begin to tear down equipment

Operations Next Report Period
Clean rig and tear down equipment for rig move. Continue to ship OBM from storage to Newpark plant.

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com	Start Depth (ftKB)	End Depth (ftKB)
06:00	06:00	24.00	DEMOB	PP	Clean and wash rig. RD and MO Newpark 1000 sxs Barite silos. Ship out last hot shot load of ZECO equipment, and remaining hoses owed to Outback rental (6 – 6" X 10' hoses, 6" suctions screen, 2- 4" X 20', 9 – 4" X 10' hoses, 1 – 6" soft hose, Per: Tim with Outback) Crane and trucks on location @ 07:30 hrs. RD MO: 3 loads of HWDP, 1 load of 8" DC, Water tank, Beaver slide, both Newpark Bar bins. RD: Roofs off of Mud Tanks, Can Rig Building, Wind-walls off mud tanks & back side of rig floor, all electrical lines, #3 Pump, Boiler.	9,030.0	9,030.0

Mud Properties

Daily Cost: <Daily Mud Field Est?> Cum Cost: <Mud Additive

Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	T Flowline (°F)

PV (cp)	YP (lbf/100ft²)	Filtrate (mL/30min)	HTHP Filtrate (mL/30…	HTHP Pressure (psi)	HTHP Temperature (°F)

Solids (%)	Sand (%)	MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)

Chlorides (ppm)	Calcium (ppm)	Oil Water Ratio	Electric Stab (V)	Lime (lb/bbl)	Low Gravity Solids (%)

Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Comment

Bottom Hole Assembly

BHA Since Insp (hr)	BHA Wt BelowJar (1000lbf)	Hrs on Jars (hr)

BHA #<BHA #?>, <Drill String Name?>

Bit Run	Drill Bit	Bit Type	Make

Nozzles (1/32")	IADC Codes	IADC Bit Dull

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)

Drilling Parameters

<depthstart> - <depthend> ftKB

Start (ftKB)	End Depth…	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100…	SO Str Wt (100…	Drill Str Wt (100…	Torque Units	Drilling Torque	Off Btm Tq

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/…	Max Open Hole AV (ft…

Casing Strings

Prop Run?	Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
No	Conductor	105.0	105.0	30	ERW	118.00		
No	Surface	4,345.0	4,344.6	13 3/8	K-55	68.00		
No	Intermediate	8,247.0	8,243.4	9 7/8	P-110	62.80	BTC	

Plug Back Total Depths

Date	Depth (ftKB)	Type	Method

Deviation Surveys

Tru-Trak, Proposed? No

Date	Description	Job
9/23/2010	Tru-Trak	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
11/20/2010	7,668.00	4.04						

Total AFE + Sup (Cost): 14,234,000.00

AFE Job Cost Summary

Cost Type	AFE Amt (Cost)
DHC	12,770,000.00
CWC	1,464,000.00

Field Estimate Job Cost Summary

Cost Typ	Field Est (Cost)
DHC	12,277,583.23
CWC	21,043.00

Daily Summary

Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
40,648.51	12,637,734.44
Daily Mud Field Est (Cost)	**Cum Mud Field Est (Cost)**
	1,424,628.13

POL (Personnel on Location): 29.0

Daily Contacts

Job Contact	Title
Mike Reel	Drilling Supt
Eric Burnett	Drilling Engineer
Bill Vigil	Drilling Foreman

Personnel Log

Company	Count
PIONEER NATURAL RESOURCES	1
NABORS DRILLING INC	2
NABORS DRILLING INC	12
BADLANDZER	14

Weather

Precipitation Amount (in)	Precipitation Type

Temperature - High (°F)	Temperature - Low (°F)

Comment

NABORS DRILLING, 169

Rig Type: Drilling - Triple

Rig Start Date	Rig Release Date
11/9/2010	

1, National Supply, 10-P-130

Pump Number: 1

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi): 3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

2, National Supply, 10-P-130

Pump Number: 2

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi): 3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

3, Continental Emsco, F-1000

Pump Number: 3

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi): 3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

Job Supply Amounts

Supply Item Des	Unit Label	Received	Consumed	Cum On Loc

Mud Additive Amounts

Des	Consumed	Cum Cons

Formations

Formation Name	Final Top MD (ftKB)
Quaternary	80.0
Tertiary Volcanic	1,300.0
Tertiary Undivided	1,830.0
North Horn	3,810.0

Safety Summary

BOP Test Date	Last BOP Test	BOP Func Due	HSE Incident	HSE Inc Remark

1/6/2011

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 1/6/2011
REPORT: 134
DOL: 133
DFS: 106

Rig Name: NABORS DRILLING 169

Depth Progress: 0.00

Daily Summary

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
11/20/2010	7,763.00	3.25						
11/20/2010	7,925.00	4.59						
11/20/2010	8,227.00	2.72						
11/20/2010	8,237.00	2.29						

Dipmeter, Proposed? No

Date	Description	Job
12/7/2010	Dipmeter	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
12/13/2010	8,566.00	1.75		8,562.30				
12/14/2010	8,652.00	2.48		8,648.29				
12/16/2010	8,755.00	2.76		8,751.29				
12/17/2010	8,852.00	2.98		8,848.29				
12/21/2010	8,955.00	4.15		8,951.29				

Formations

Formation Name	Final Top MD (ftKB)
UNCONFORMITY	4,345.0
Arapien	4,345.0
FAULT	
Arapien	
Twin Creek	
Gypsum Sprgs Mbr	
Navajo	
Chinle	
TD	

Safety Summary

1/6/2011

PIONEER NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 1/7/2011
REPORT: 135
DOL: 134
DFS: 107

Rig Name: NABORS DRILLING 169

Depth Progress: 0.00

Daily Summary

Property Sub	Field Name	API/UWI	Spud Date
327560-001	WILDCAT	43-023-30021-0000	9/22/2010

KB-Ground Distance (ft)	Original KB Elevation (ft)	KB-Mud Line Distance (ft)
25.00	5,264.00	

Daily Operations

Target Depth (ftKB)	Target Depth (TVD) (ftKB)	End Depth (ftKB)	End Depth (TVD) (ftKB)
9,040.0		8,326.0	8,322.4

Footage/Meterage (ft)	24 HR ROP (ft/hr)	Drilling Hours (hr)
0.00		

Avg Connection Gas	Avg Trip Gas	Avg Background Gas	Max Connection Gas	Max Trip Gas	Max Drill Gas

Operations at Report Time
Waiting on Daylight

Operations Summary
Hot water, pressure washing & cleaning rig components, rigging down, moving out rig.

Load out: koomey house & stand-by mud pump, both trucks returned, due to over weight limit. Re-load koomey house twice (onto different trailers), re-load stand-by mud pump three times (onto different trailers).

10 loads moved off location today.
Total 14 loads M/O.

Remarks
Actual pressure washing & cleaning process of individual rig components today, "did NOT", slow down, the load out & move out of Nabors 169.

10 loads, Nabors 169, moved off location today.
Total 14 loads, Nabors 169, moved off location.

R/D 45%, M/O 25%

Estimate rig being 100% off location: Monday, 10/Jan, depending on truck availability, weather (storms) & if location starts thawing out, due to warm weather.

M/O Outpost 5th wheel travel trailer
All OBM shipped back to Newpark.

Operations Next Report Period
Cleaning rig, rigging down, moving out rig. Will have total of 4, hot water, high volume, pressure washers, Friday, 07/Jan.

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com	Start Depth (ftKB)	End Depth (ftKB)
06:00	06:30	0.50	DEMOB	PP	Waiting on Daylight. Tempt -3 degF	9,030.0	9,030.0
06:30	18:30	12.00	DEMOB	PP	Pressure washing & cleaning rig components. Brought in 2 industrial, hot water, high volume pressure washers. (2) Cranes on location, loading out & R/D eqpt. 1) load & move out: center section of mud pump house package, diesel tank, (3) loads DP, hopper house, blocks, mud tanks roofs, misc eqpt & components 2) R/D: shakers. possum belly, ST-80, laid over derrick A legs, top dog house, de-gasser, hopper house platform, flow line, gas buster, air tuggers Load out: koomey house & stand-by mud pump, both trucks returned, due to being over weight limit. Re-load koomey house twice, re-load stand-by mud pump three times onto different triple axle trailers. 10 loads, Nabors 169, moved off location today. Total 14 loads, Nabors 169, moved off location.	9,030.0	9,030.0
18:30	06:00	11.50	DEMOB	PP	Waiting on Daylight. Tempt 2 degF	9,030.0	9,030.0

Mud Properties

Daily Cost: <Daily Mud Field Est?> Cum Cost: <Mud Additive

Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	T Flowline (°F)

PV (cp)	YP (lbf/100ft²)	Filtrate (mL/30min)	HTHP Filtrate (mL/30...	HTHP Pressure (psi)	HTHP Temperature (°F)

Solids (%)	Sand (%)	MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)

Chlorides (ppm)	Calcium (ppm)	Oil Water Ratio	Electric Stab (V)	Lime (lb/bbl)	Low Gravity Solids (%)

Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Comment

Bottom Hole Assembly

BHA Since Insp (hr)	BHA Wt BelowJar (1000lbf)	Hrs on Jars (hr)

BHA #<BHA #?>, <Drill String Name?>

Bit Run	Drill Bit	Bit Type	Make

Nozzles (1/32")	IADC Codes	IADC Bit Dull

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)

Total AFE + Sup (Cost)
14,234,000.00

AFE Job Cost Summary

Cost Type	AFE Amt (Cost)
DHC	12,770,000.00
CWC	1,464,000.00

Field Estimate Job Cost Summary

Cost Typ	Field Est (Cost)
DHC	12,281,675.23
CWC	21,043.00

Daily Summary

Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
4,092.00	12,641,826.44

Daily Mud Field Est (Cost)	Cum Mud Field Est (Cost)
	1,424,628.13

POL (Personnel on Location)
32.0

Daily Contacts

Job Contact	Title
Mike Reel	Drilling Supt
Eric Burnett	Drilling Engineer
Bill Vigil	Drilling Foreman
Dean Baker	Sr. Drlg. Foreman

Personnel Log

Company	Count
PIONEER NATURAL RESOURCES	1
PIONEER NATURAL RESOURCES	1
NABORS DRILLING INC	2
NABORS DRILLING INC	12
BADLANDZER	14
DENTON OIL CO	2

Weather

Precipitation Amount (in)	Precipitation Type

Temperature - High (°F)	Temperature - Low (°F)
21.0	-3.0

Comment

NABORS DRILLING, 169

Rig Type
Drilling - Triple

Rig Start Date	Rig Release Date
11/9/2010	1/5/2011

1, National Supply, 10-P-130

Pump Number
1

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)
3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

2, National Supply, 10-P-130

Pump Number
2

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)
3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

3, Continental Emsco, F-1000

Pump Number
3

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)
3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

Job Supply Amounts

Supply Item Des	Unit Label	Received	Consumed	Cum On Loc

Mud Additive Amounts

Des	Consumed	Cum Cons

Formations

Formation Name	Final Top MD (ftKB)
Quaternary	80.0

Safety Summary

BOP Test Date	Last BOP Test	BOP Func Due	HSE Incident	HSE Inc Remark

1/7/2011

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 1/7/2011
REPORT: 135
DOL: 134
DFS: 107

Rig Name: NABORS DRILLING 169

Depth Progress: 0.00

Daily Summary

Drilling Parameters

<depthstart> - <depthend> ftKB

Start (ftKB)	End Depth…	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100…	SO Str Wt (100…	Drill Str Wt (100…	Torque Units	Drilling Torque	Off Btm Tq

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/…	Max Open Hole AV (ft…

Casing Strings

Prop Run?	Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
No	Conductor	105.0	105.0	30	ERW	118.00		
No	Surface	4,345.0	4,344.6	13 3/8	K-55	68.00		
No	Intermediate	8,247.0	8,243.4	9 7/8	P-110	62.80	BTC	

Plug Back Total Depths

Date	Depth (ftKB)	Type	Method

Deviation Surveys

Tru-Trak, Proposed? No

Date	Description	Job
9/23/2010	Tru-Trak	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
11/20/2010	7,668.00	4.04						
11/20/2010	7,763.00	3.25						
11/20/2010	7,925.00	4.59						
11/20/2010	8,227.00	2.72						
11/20/2010	8,237.00	2.29						

Dipmeter, Proposed? No

Date	Description	Job
12/7/2010	Dipmeter	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
12/13/2010	8,566.00	1.75		8,562.30				
12/14/2010	8,652.00	2.48		8,648.29				
12/16/2010	8,755.00	2.76		8,751.29				
12/17/2010	8,852.00	2.98		8,848.29				
12/21/2010	8,955.00	4.15		8,951.29				

Formations

Formation Name	Final Top MD (ftKB)
Tertiary Volcanic	1,300.0
Tertiary Undivided	1,830.0
North Horn	3,810.0
UNCONFORMITY	4,345.0
Arapien	4,345.0
FAULT	
Arapien	
Twin Creek	
Gypsum Sprgs Mbr	
Navajo	
Chinle	
TD	

Safety Summary

1/7/2011

PIONEER NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 1/8/2011
REPORT: 136
DOL: 135
DFS: 108

Rig Name: NABORS DRILLING 169

Depth Progress: 0.00

Daily Summary

Property Sub	Field Name	API/UWI	Spud Date
327560-001	WILDCAT	43-023-30021-0000	9/22/2010

KB-Ground Distance (ft)	Original KB Elevation (ft)	KB-Mud Line Distance (ft)
25.00	5,264.00	

Daily Operations

Target Depth (ftKB)	Target Depth (TVD) (ftKB)	End Depth (ftKB)	End Depth (TVD) (ftKB)
9,040.0		8,326.0	8,322.4

Footage/Meterage (ft)	24 HR ROP (ft/hr)	Drilling Hours (hr)
0.00		

Avg Connection Gas	Avg Trip Gas	Avg Background Gas	Max Connection Gas	Max Trip Gas	Max Drill Gas

Operations at Report Time
Waiting on Daylight

Operations Summary
Hot water, pressure washing & cleaning rig components, rigging down, moving out rig.

Load out: 3 D-399 motors, 3 loads DP, 1 mud pump, top dog house, off-side drillers dpg houise, hopper stands, 1 misc load

13 loads moved off location today.
Total 27 loads M/O.

Remarks
Estimate rig being 100% off location: Monday, 10/Jan, depending on truck availability, weather (storms) & if location starts thawing out, due to warm weather.

Halliburton picked up cement bin trailer

Operations Next Report Period
Cleaning rig, rigging down, break down derrick, moving out rig

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com	Start Depth (ftKB)	End Depth (ftKB)
06:00	06:30	0.50	DEMOB	PP	Waiting on Daylight, Temp -6 degF	9,030.0	9,030.0
06:30	18:30	12.00	DEMOB	PP	4 Industrial hot water, high volume, pressure washers, cleaning rig components & misc eqpt. 30 ton tandem moving/spotting heavy packages (2) Cranes loaded out: (1) mud pump, (3) D-399 engines, rig diesel tank, (3) loads DP, top dog house, off-side drillers dog house, hopper stands, 2 misc load 13 loads moved off location today. Total 27 loads, Nabors 169 M/O. Halliburton picked up cement bin trailer	9,030.0	9,030.0
18:30	06:00	11.50	DEMOB	PP	Waiting on daylight, Tempt -4 degF	9,030.0	9,030.0

Mud Properties

Daily Cost: <Daily Mud Field Est?> Cum Cost: <Mud Additive

Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	T Flowline (°F)

PV (cp)	YP (lbf/100ft²)	Filtrate (mL/30min)	HTHP Filtrate (mL/30…	HTHP Pressure (psi)	HTHP Temperature (°F)

Solids (%)	Sand (%)	MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)

Chlorides (ppm)	Calcium (ppm)	Oil Water Ratio	Electric Stab (V)	Lime (lb/bbl)	Low Gravity Solids (%)

Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Comment

Bottom Hole Assembly

BHA Since Insp (hr)	BHA Wt BelowJar (1000lbf)	Hrs on Jars (hr)

BHA #<BHA #?>, <Drill String Name?>

Bit Run	Drill Bit	Bit Type	Make

Nozzles (1/32")	IADC Codes	IADC Bit Dull

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)

Drilling Parameters

<depthstart> - <depthend> ftKB

Start (ftKB)	End Depth…	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100…	SO Str Wt (100…	Drill Str Wt (100…	Torque Units	Drilling Torque	Off Btm Tq

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/…	Max Open Hole AV (ft…

Casing Strings

Prop Run?	Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
No	Conductor	105.0	105.0	30	ERW	118.00		
No	Surface	4,345.0	4,344.6	13 3/8	K-55	68.00		
No	Intermediate	8,247.0	8,243.4	9 7/8	P-110	62.80	BTC	

Total AFE + Sup (Cost)
14,234,000.00

AFE Job Cost Summary

Cost Type	AFE Amt (Cost)
DHC	12,770,000.00
CWC	1,464,000.00

Field Estimate Job Cost Summary

Cost Typ	Field Est (Cost)
DHC	12,295,708.23
CWC	21,043.00

Daily Summary

Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
25,163.00	12,666,989.44
Daily Mud Field Est (Cost)	**Cum Mud Field Est (Cost)**
	1,424,628.13

POL (Personnel on Location)
36.0

Daily Contacts

Job Contact	Title
Mike Reel	Drilling Supt
Eric Burnett	Drilling Engineer
Bill Vigil	Drilling Foreman
Dean Baker	Sr. Drlg. Foreman

Personnel Log

Company	Count
PIONEER NATURAL RESOURCES	1
PIONEER NATURAL RESOURCES	1
NABORS DRILLING INC	2
NABORS DRILLING INC	12
BADLANDZER	14
DENTON OIL CO	6

Weather

Precipitation Amount (in)	Precipitation Type
Temperature - High (°F)	**Temperature - Low (°F)**
23.0	-6.0

Comment

NABORS DRILLING, 169

Rig Type
Drilling - Triple

Rig Start Date	Rig Release Date
9/7/2010	1/5/2011

1, National Supply, 10-P-130

Pump Number
1

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)
3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

2, National Supply, 10-P-130

Pump Number
2

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)
3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

3, Continental Emsco, F-1000

Pump Number
3

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)
3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

Job Supply Amounts

Supply Item Des	Unit Label	Received	Consumed	Cum On Loc

Mud Additive Amounts

Des	Consumed	Cum Cons

Formations

Formation Name	Final Top MD (ftKB)
Quaternary	80.0

Safety Summary

BOP Test Date	Last BOP Test	BOP Func Due	HSE Incident	HSE Inc Remark

1/8/2011

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 1/8/2011
REPORT: 136
DOL: 135
DFS: 108

Rig Name: NABORS DRILLING 169

Depth Progress: 0.00

Daily Summary

Plug Back Total Depths

Date	Depth (ftKB)	Type	Method

Deviation Surveys

Tru-Trak, Proposed? No

Date	Description	Job
9/23/2010	Tru-Trak	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
11/20/2010	7,668.00	4.04						
11/20/2010	7,763.00	3.25						
11/20/2010	7,925.00	4.59						
11/20/2010	8,227.00	2.72						
11/20/2010	8,237.00	2.29						

Dipmeter, Proposed? No

Date	Description	Job
12/7/2010	Dipmeter	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
12/13/2010	8,566.00	1.75		8,562.30				
12/14/2010	8,652.00	2.48		8,648.29				
12/16/2010	8,755.00	2.76		8,751.29				
12/17/2010	8,852.00	2.98		8,848.29				
12/21/2010	8,955.00	4.15		8,951.29				

Formations

Formation Name	Final Top MD (ftKB)
Tertiary Volcanic	1,300.0
Tertiary Undivided	1,830.0
North Horn	3,810.0
UNCONFORMITY	4,345.0
Arapien	4,345.0
FAULT	
Arapien	
Twin Creek	
Gypsum Sprgs Mbr	
Navajo	
Chinle	
TD	

Safety Summary

1/8/2011

PIONEER NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 1/9/2011
REPORT: 137
DOL: 135
DFS: 109

Rig Name: NABORS DRILLING 169

Depth Progress: 0.00

Daily Summary

Property Sub	Field Name	API/UWI	Spud Date
327560-001	WILDCAT	43-023-30021-0000	9/22/2010

KB-Ground Distance (ft)	Original KB Elevation (ft)	KB-Mud Line Distance (ft)
25.00	5,264.00	

Daily Operations

Target Depth (ftKB)	Target Depth (TVD) (ftKB)	End Depth (ftKB)	End Depth (TVD) (ftKB)
9,040.0		8,326.0	8,322.4

Footage/Meterage (ft)	24 HR ROP (ft/hr)	Drilling Hours (hr)
0.00		

Avg Connection Gas	Avg Trip Gas	Avg Background Gas	Max Connection Gas	Max Trip Gas	Max Drill Gas

Operations at Report Time
Waiting on Daylight

Operations Summary
Hot water, pressure washing & cleaning rig components, rigging down, moving out rig.

Re-pressure wash, inside of mud tank (OBM & cuttings were not removed from previous washing). Pressure wash outside of mud tanks & inner connected flow lines not accessable, with tanks being connected

30 ton tandem moving/spotting heavy packages, pulled out (1) mud tank
Cranes laid derrick on ground, split derrick
Back-hoe dug up panic & flare lines

(2) Cranes loaded out:
(2) loads DP, (1) load DP w/ pipe racks, (1) mud pump, SCR house, TDS unit w/ track system, choke house, platform & gas buster, change house, grass-hopper & pipe racks

9 loads moved off location today.
Total 36 loads, Nabors 169, M/O.

Locate, sort out Pioneer owned eqpt.

Remarks
Estimate rig being 100% off location: Monday, 10/Jan, depending on truck availability, weather (storms) & if location starts thawing out, due to warm weather.

Operations Next Report Period
Cleaning rig, rigging down, break down derrick, moving out rig

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com	Start Depth (ftKB)	End Depth (ftKB)
06:00	06:30	0.50	DEMOB	PP	Waiting on daylight, Tempt -7 degF	9,030.0	9,030.0
06:30	18:00	11.50	DEMOB	PP	2 Industrial hot water, high volume, pressure washers, cleaning rig components & misc eqpt. Engines on 2 units broke piston rods (1 engine 167 hrs, other engine 199 hrs, over reved when cranked, tempt -7 degF), sent back. 3rd unit arrived mid day. 30 ton tandem & 1 20 ton tandem, moving/spotting heavy packages, pulled out 1st mud tank, moved to staging area Re-pressure wash, all inside compartments of 1st mud tank (OBM & cuttings were not removed when originally pressure washed/cleaned, by Badlanderz). Pressure wash outside of mud tank & inner connecting flow lines not accessible, with tanks being connected. Back-hoe Dug up panic line & flare line Cranes laid derrick on ground, split derrick (2) Cranes loaded out: (2) loads DP, (1) partial load DP w/ pipe racks, (1) mud pump, SCR house, TDS unit w/ track system, choke house, platform & gas buster, change house, grass-hopper & pipe racks 9 loads moved off location today. Total 36 loads, Nabors 169 M/O. 75% Rigged Down, 65% Moved out	9,030.0	9,030.0
18:00	18:30	0.50	DEMOB	PP	Waiting on daylight, Tempt 18 degF, lite snow	9,030.0	9,030.0

Mud Properties

Daily Cost: <Daily Mud Field Est?> Cum Cost: <Mud Additive

Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	T Flowline (°F)

PV (cp)	YP (lbf/100ft²)	Filtrate (mL/30min)	HTHP Filtrate (mL/30...	HTHP Pressure (psi)	HTHP Temperature (°F)

Solids (%)	Sand (%)	MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)

Chlorides (ppm)	Calcium (ppm)	Oil Water Ratio	Electric Stab (V)	Lime (lb/bbl)	Low Gravity Solids (%)

Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Comment

Bottom Hole Assembly

BHA Since Insp (hr)	BHA Wt BelowJar (1000lbf)	Hrs on Jars (hr)

Total AFE + Sup (Cost)
14,234,000.00

AFE Job Cost Summary

Cost Type	AFE Amt (Cost)
DHC	12,770,000.00
CWC	1,464,000.00

Field Estimate Job Cost Summary

Cost Typ	Field Est (Cost)
DHC	12,299,800.23
CWC	21,043.00

Daily Summary

Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
4,092.00	12,671,081.44
Daily Mud Field Est (Cost)	Cum Mud Field Est (Cost)
	1,424,628.13

POL (Personnel on Location)
28.0

Daily Contacts

Job Contact	Title
Mike Reel	Drilling Supt
Eric Burnett	Drilling Engineer
Bill Vigil	Drilling Foreman
Dean Baker	Sr. Drlg. Foreman

Personnel Log

Company	Count
PIONEER NATURAL RESOURCES	1
PIONEER NATURAL RESOURCES	1
NABORS DRILLING INC	2
NABORS DRILLING INC	12
BADLANDZER	7
DENTON OIL CO	5

Weather

Precipitation Amount (in)	Precipitation Type
1.000	Snow
Temperature - High (°F)	Temperature - Low (°F)
22.0	-7.0

Comment

NABORS DRILLING, 169

Rig Type
Drilling - Triple

Rig Start Date	Rig Release Date
9/7/2010	1/5/2011

1, National Supply, 10-P-130

Pump Number
1

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)
3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

2, National Supply, 10-P-130

Pump Number
2

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)
3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

3, Continental Emsco, F-1000

Pump Number
3

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)
3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

Job Supply Amounts

Supply Item Des	Unit Label	Received	Consumed	Cum On Loc

Mud Additive Amounts

Des	Consumed	Cum Cons

Formations

Formation Name	Final Top MD (ftKB)
Quaternary	80.0

Safety Summary

BOP Test Date	Last BOP Test	BOP Func Due	HSE Incident	HSE Inc Remark

1/9/2011

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 1/9/2011
REPORT: 137
DOL: 135
DFS: 109

Rig Name: NABORS DRILLING 169

Depth Progress: 0.00

Daily Summary

BHA #<BHA #?>, <Drill String Name?>

Bit Run	Drill Bit	Bit Type	Make

Nozzles (1/32")	IADC Codes	IADC Bit Dull

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)

Drilling Parameters

<depthstart> - <depthend> ftKB

Start (ftKB)	End Depth...	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100...	SO Str Wt (100...	Drill Str Wt (100...	Torque Units	Drilling Torque	Off Btm Tq

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/...	Max Open Hole AV (ft...

Casing Strings

Prop Run?	Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
No	Conductor	105.0	105.0	30	ERW	118.00		
No	Surface	4,345.0	4,344.6	13 3/8	K-55	68.00		
No	Intermediate	8,247.0	8,243.4	9 7/8	P-110	62.80	BTC	

Plug Back Total Depths

Date	Depth (ftKB)	Type	Method

Deviation Surveys

Tru-Trak, Proposed? No

Date	Description	Job
9/23/2010	Tru-Trak	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
11/20/2010	7,668.00	4.04						
11/20/2010	7,763.00	3.25						
11/20/2010	7,925.00	4.59						
11/20/2010	8,227.00	2.72						
11/20/2010	8,237.00	2.29						

Dipmeter, Proposed? No

Date	Description	Job
12/7/2010	Dipmeter	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
12/13/2010	8,566.00	1.75		8,562.30				
12/14/2010	8,652.00	2.48		8,648.29				
12/16/2010	8,755.00	2.76		8,751.29				
12/17/2010	8,852.00	2.98		8,848.29				
12/21/2010	8,955.00	4.15		8,951.29				

Formations

Formation Name	Final Top MD (ftKB)
Tertiary Volcanic	1,300.0
Tertiary Undivided	1,830.0
North Horn	3,810.0
UNCONFORMITY	4,345.0
Arapien	4,345.0
FAULT	
Arapien	
Twin Creek	
Gypsum Sprgs Mbr	
Navajo	
Chinle	
TD	

Safety Summary

1/9/2011

PIONEER NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Daily Drilling Report

Well Name: South Hills 6-1

Rig Name: NABORS DRILLING 169

Depth Progress: 0.00

REPORT DATE: 1/10/2011
REPORT: 138
DOL: 136
DFS: 110

Daily Summary

Property Sub	Field Name	API/UWI	Spud Date
327560-001	WILDCAT	43-023-30021-0000	9/22/2010

KB-Ground Distance (ft)	Original KB Elevation (ft)	KB-Mud Line Distance (ft)
25.00	5,264.00	

Daily Operations

Target Depth (ftKB)	Target Depth (TVD) (ftKB)	End Depth (ftKB)	End Depth (TVD) (ftKB)
9,040.0		8,326.0	8,322.4

Footage/Meterage (ft)	24 HR ROP (ft/hr)	Drilling Hours (hr)
0.00		

Avg Connection Gas	Avg Trip Gas	Avg Background Gas	Max Connection Gas	Max Trip Gas	Max Drill Gas

Operations at Report Time
Waiting on Daylight

Operations Summary
(4) Hot water, pressure washers, cleaning rig components
Rigging down, moving out rig.

Pressure wash outside of mud tank.
Re-pressure wash, all inside compartments of 2nd mud tank worked 6.5 hrs (OBM & cuttings were not removed when originally pressure washed/cleaned by Badlanderz).

Flow lines in mud tanks & innner connecting lines between mud tanks, packed full of OBM -- "brine water was not circulated through these lines to clean OBM out". Cannot pressure wash thick tightly packed OBM out of lines -- ordered hot oil truck for Monday, 10/Jan.

30 ton tandem moving/spotting heavy packages, pulled out last mud tank
Split derrick in individual sections to load on trailers

(2) Cranes loaded out:
(6) loads derrick, draw-works package, junk tub, derrick stand, (2) derrick A-legs

Cranes split sub-structure, lowered subs to ground

11 loads moved off location today.
Total 47 loads, Nabors 169, M/O.

Remarks
Estimate rig being 100% off location: Monday, 10/Jan, depending on truck availability, weather (storms) & if location starts thawing out, due to warm weather.

Operations Next Report Period
Cleaning rig, rigging down, break down derrick, moving out rig

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com	Start Depth (ftKB)	End Depth (ftKB)
06:00	06:30	0.50	DEMOB	PP	Waiting on daylight, Tempt 16 degF, snowing	9,030.0	9,030.0
06:30	17:30	11.00	DEMOB	PP	(4) Industrial hot water, high volume, pressure washers, cleaning rig components & misc eqpt. Rigging down & moving out rig. Pressure wash outside of mud tank. Re-pressure wash, all inside compartments of 2nd mud tank (OBM & cuttings were not removed when originally pressure washed/cleaned by Badlanderz). Flow lines in mud tanks & innner connecting lines between mud tanks, packed full of thick OBM -- "brine water was not circulated through these lines". Cannot pressure wash thick, tightly packed OBM out of lines -- ordered hot oil truck for Monday, 10/Jan. Pressure washers worked, 6.5 hrs, in 1 mud tank -- will have to use hot oil truck to finish removing OBM. 30 ton tandem moving/spotting heavy packages, pulled out last mud tank Split derrick in individual sections to load on trailers (2) Cranes loaded out: (6) loads derrick, draw-works package, junk tub, derrick stand, (2) derrick A-legs Cranes, split sub-structure, lowered subs to ground 11 loads moved off location today. Total 47 loads, Nabors 169, M/O. Shut down pressure washing @ 1700 hrs, Temp 6 degF. Stanley Trucking finished loading last truck with derrick, at 1815 hrs	9,030.0	9,030.0
17:30	06:00	12.50	DEMOB	PP	Waiting on daylight, Tempt -4 degF	9,030.0	9,030.0

Total AFE + Sup (Cost): 14,234,000.00

AFE Job Cost Summary

Cost Type	AFE Amt (Cost)
DHC	12,770,000.00
CWC	1,464,000.00

Field Estimate Job Cost Summary

Cost Typ	Field Est (Cost)
DHC	12,349,268.23
CWC	21,043.00

Daily Summary

Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
49,468.00	12,720,549.44
Daily Mud Field Est (Cost)	**Cum Mud Field Est (Cost)**
	1,424,628.13

POL (Personnel on Location): 30.0

Daily Contacts

Job Contact	Title
Mike Reel	Drilling Supt
Eric Burnett	Drilling Engineer
Bill Vigil	Drilling Foreman
Dean Baker	Sr. Drlg. Foreman

Personnel Log

Company	Count
PIONEER NATURAL RESOURCES	1
PIONEER NATURAL RESOURCES	1
NABORS DRILLING INC	2
NABORS DRILLING INC	12
BADLANDZER	7
DENTON OIL CO	7

Weather

Precipitation Amount (in)	Precipitation Type
Temperature - High (°F)	**Temperature - Low (°F)**
19.0	-4.0

Comment

NABORS DRILLING, 169

Rig Type: Drilling - Triple

Rig Start Date	Rig Release Date
9/7/2010	1/5/2011

1, National Supply, 10-P-130

Pump Number: 1

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi): 3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

2, National Supply, 10-P-130

Pump Number: 2

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi): 3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

3, Continental Emsco, F-1000

Pump Number: 3

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi): 3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

Job Supply Amounts

Supply Item Des	Unit Label	Received	Consumed	Cum On Loc

Mud Additive Amounts

Des	Consumed	Cum Cons

Formations

Formation Name	Final Top MD (ftKB)
Quaternary	80.0

Safety Summary

BOP Test Date	Last BOP Test	BOP Func Due	HSE Incident	HSE Inc Remark

1/10/2011

PIONEER NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Daily Drilling Report

Well Name: South Hills 6-1

Rig Name: NABORS DRILLING 169

Depth Progress: 0.00

REPORT DATE: 1/10/2011
REPORT: 138
DOL: 136
DFS: 110

Daily Summary

Mud Properties — **Daily Cost: <Daily Mud Field Est?>** — **Cum Cost: <Mud Additive**

Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	T Flowline (°F)

PV (cp)	YP (lbf/100ft²)	Filtrate (mL/30min)	HTHP Filtrate (mL/30…	HTHP Pressure (psi)	HTHP Temperature (°F)

Solids (%)	Sand (%)	MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)

Chlorides (ppm)	Calcium (ppm)	Oil Water Ratio	Electric Stab (V)	Lime (lb/bbl)	Low Gravity Solids (%)

Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Comment

Bottom Hole Assembly

BHA Since Insp (hr)	BHA Wt BelowJar (1000lbf)	Hrs on Jars (hr)

BHA #<BHA #?>, <Drill String Name?>

Bit Run	Drill Bit	Bit Type	Make

Nozzles (1/32")	IADC Codes	IADC Bit Dull

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)

Drilling Parameters

<depthstart> - <depthend> ftKB

Start (ftKB)	End Depth…	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100…	SO Str Wt (100…	Drill Str Wt (100…	Torque Units	Drilling Torque	Off Btm Tq

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/…	Max Open Hole AV (ft…

Casing Strings

Prop Run?	Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
No	Conductor	105.0	105.0	30	ERW	118.00		
No	Surface	4,345.0	4,344.6	13 3/8	K-55	68.00		
No	Intermediate	8,247.0	8,243.4	9 7/8	P-110	62.80	BTC	

Plug Back Total Depths

Date	Depth (ftKB)	Type	Method

Deviation Surveys

Tru-Trak, Proposed? No

Date	Description	Job
9/23/2010	Tru-Trak	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
11/20/2010	7,668.00	4.04						
11/20/2010	7,763.00	3.25						
11/20/2010	7,925.00	4.59						
11/20/2010	8,227.00	2.72						
11/20/2010	8,237.00	2.29						

Dipmeter, Proposed? No

Date	Description	Job
12/7/2010	Dipmeter	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
12/13/2010	8,566.00	1.75		8,562.30				
12/14/2010	8,652.00	2.48		8,648.29				
12/16/2010	8,755.00	2.76		8,751.29				
12/17/2010	8,852.00	2.98		8,848.29				
12/21/2010	8,955.00	4.15		8,951.29				

Formations

Formation Name	Final Top MD (ftKB)
Tertiary Volcanic	1,300.0
Tertiary Undivided	1,830.0
North Horn	3,810.0
UNCONFORMITY	4,345.0
Arapien	4,345.0
FAULT	
Arapien	
Twin Creek	
Gypsum Sprgs Mbr	
Navajo	
Chinle	
TD	

Safety Summary

1/10/2011

PIONEER NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 1/11/2011
REPORT: 139
DOL: 137
DFS: 111

Rig Name: NABORS DRILLING 169

Depth Progress: 0.00

Daily Summary

Property Sub	Field Name	API/UWI	Spud Date
327560-001	WILDCAT	43-023-30021-0000	9/22/2010

KB-Ground Distance (ft)	Original KB Elevation (ft)	KB-Mud Line Distance (ft)
25.00	5,264.00	

Daily Operations

Target Depth (ftKB)	Target Depth (TVD) (ftKB)	End Depth (ftKB)	End Depth (TVD) (ftKB)
9,040.0		8,326.0	8,322.4

Footage/Meterage (ft)	24 HR ROP (ft/hr)	Drilling Hours (hr)
0.00		

Avg Connection Gas	Avg Trip Gas	Avg Background Gas	Max Connection Gas	Max Trip Gas	Max Drill Gas

Operations at Report Time
Waiting on Daylight

Operations Summary
(4) Hot water, pressure washers, cleaning rig components
Hot Oil Truck:
Cleaned OBM out of, flow lines & all inside compartments of 1 mud tank, 6.25 hrs. Pressure wash outside of mud tank..
Moving out rig.
Cleaned OBM out of, flow lines & all inside compartments of 2 mud tanks, spent 3.00 hrs

Loaded out:
A leg section, mud tank, drill spool w/ misc

3 loads moved off location today.
Total 50 loads, Nabors 169, M/O

2 press washers washed top spreader sub section

3 additional pressure washers arrived 1600 hrs.
Pressure washing mats

(1) crane released off location

Remarks
Charge 5 days (04-09/Jan), Nabors 169, stand-by rate @ $16,575.00/day = $82,875.00, added to todays cost

Operations Next Report Period
Finish cleaning rig & components. Move out remainder of Nabors 169.
Back-hoe to dig out cellar, cut off mouse hole pipe, weld plate in top, weld plate in top of 30" conductor.

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com	Start Depth (ftKB)	End Depth (ftKB)
06:00	07:00	1.00	DEMOB	PP	Wait on daylight, Tempt -4 degF	9,030.0	9,030.0
07:00	18:30	11.50	DEMOB	PP	(4) Hot water, pressure washers, cleaning rig components Hot Oil Truck cleaned OBM out of, flow lines & inside compartments of 2 mud tanks. 2 press washers & hot oil truck, finished cleaning OBM out of, flow lines & inside compartments & outside, on same mud tank, from yesterday (09/Jan). Spent 6.5 hrs today. Total time 13 hrs 2 press washers & hot oil truck, spent 3 hrs on 1st mud tank, pressure washers, washed on Saturday (08/Jan). Total time 8 hrs. 2 press washers washed top spreader sub section 3 additional pressure washers arrived 1600 hrs. Pressure washing rig mats (1) crane released off location Crane loaded out: A leg section, mud tank, drill spool w/ misc 3 loads moved off location today. Total 50 loads, Nabors 169, M/O Hi Temp today 16 degF Tempt @ 1725 hrs -2 degF	9,030.0	9,030.0
18:30	06:00	11.50	DEMOB	PP	Waiting on daylight, generator engine shut down (motor oil all under unit) @ 0432 hrs, Tempt -14 degF	9,030.0	9,030.0

Mud Properties

Daily Cost: <Daily Mud Field Est?> Cum Cost: <Mud Additive

Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	T Flowline (°F)

PV (cp)	YP (lbf/100ft²)	Filtrate (mL/30min)	HTHP Filtrate (mL/30...	HTHP Pressure (psi)	HTHP Temperature (°F)

Solids (%)	Sand (%)	MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)

Chlorides (ppm)	Calcium (ppm)	Oil Water Ratio	Electric Stab (V)	Lime (lb/bbl)	Low Gravity Solids (%)

Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Comment

Bottom Hole Assembly

BHA Since Insp (hr)	BHA Wt BelowJar (1000lbf)	Hrs on Jars (hr)

Total AFE + Sup (Cost)
14,234,000.00

AFE Job Cost Summary

Cost Type	AFE Amt (Cost)
DHC	12,770,000.00
CWC	1,464,000.00

Field Estimate Job Cost Summary

Cost Typ	Field Est (Cost)
DHC	12,353,360.23
CWC	21,043.00

Daily Summary

Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
108,168.00	12,828,717.44
Daily Mud Field Est (Cost)	Cum Mud Field Est (Cost)
	1,424,628.13

POL (Personnel on Location)
25.0

Daily Contacts

Job Contact	Title
Mike Reel	Drilling Supt
Eric Burnett	Drilling Engineer
Bill Vigil	Drilling Foreman
Dean Baker	Sr. Drlg. Foreman

Personnel Log

Company	Count
PIONEER NATURAL RESOURCES	1
PIONEER NATURAL RESOURCES	1
NABORS DRILLING INC	2
NABORS DRILLING INC	12
DENTON OIL CO	9

Weather

Precipitation Amount (in)	Precipitation Type
Temperature - High (°F)	Temperature - Low (°F)
16.0	-14.0

Comment

NABORS DRILLING, 169

Rig Type
Drilling - Triple

Rig Start Date	Rig Release Date
9/7/2010	1/5/2011

1, National Supply, 10-P-130

Pump Number
1

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)
3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

2, National Supply, 10-P-130

Pump Number
2

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)
3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

3, Continental Emsco, F-1000

Pump Number
3

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)
3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

Job Supply Amounts

Supply Item Des	Unit Label	Received	Consumed	Cum On Loc

Mud Additive Amounts

Des	Consumed	Cum Cons

Formations

Formation Name	Final Top MD (ftKB)
Quaternary	80.0
Tertiary Volcanic	1,300.0

Safety Summary

BOP Test Date	Last BOP Test	BOP Func Due	HSE Incident	HSE Inc Remark

1/11/2011

PIONEER NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 1/11/2011
REPORT: 139
DOL: 137
DFS: 111

Rig Name: NABORS DRILLING 169

Depth Progress: 0.00

Daily Summary

BHA #<BHA #?>, <Drill String Name?>

Bit Run	Drill Bit	Bit Type	Make

Nozzles (1/32")	IADC Codes	IADC Bit Dull

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)

Drilling Parameters

<depthstart> - <depthend> ftKB

Start (ftKB)	End Depth...	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100...	SO Str Wt (100...	Drill Str Wt (100...	Torque Units	Drilling Torque	Off Btm Tq

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/...	Max Open Hole AV (ft...

Casing Strings

Prop Run?	Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
No	Conductor	105.0	105.0	30	ERW	118.00		
No	Surface	4,345.0	4,344.6	13 3/8	K-55	68.00		
No	Intermediate	8,247.0	8,243.4	9 7/8	P-110	62.80	BTC	

Plug Back Total Depths

Date	Depth (ftKB)	Type	Method

Deviation Surveys

Tru-Trak, Proposed? No

Date	Description	Job
9/23/2010	Tru-Trak	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
11/20/2010	7,668.00	4.04						
11/20/2010	7,763.00	3.25						
11/20/2010	7,925.00	4.59						
11/20/2010	8,227.00	2.72						
11/20/2010	8,237.00	2.29						

Dipmeter, Proposed? No

Date	Description	Job
12/7/2010	Dipmeter	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
12/13/2010	8,566.00	1.75		8,562.30				
12/14/2010	8,652.00	2.48		8,648.29				
12/16/2010	8,755.00	2.76		8,751.29				
12/17/2010	8,852.00	2.98		8,848.29				
12/21/2010	8,955.00	4.15		8,951.29				

Formations

Formation Name	Final Top MD (ftKB)
Tertiary Undivided	1,830.0
North Horn	3,810.0
UNCONFORMITY	4,345.0
Arapien	4,345.0
FAULT	
Arapien	
Twin Creek	
Gypsum Sprgs Mbr	
Navajo	
Chinle	
TD	

Safety Summary

1/11/2011

PIONEER NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 1/12/2011
REPORT: 140
DOL: 138
DFS: 112

Rig Name: NABORS DRILLING 169

Depth Progress: 0.00

Daily Summary

Property Sub	Field Name	API/UWI	Spud Date
327560-001	WILDCAT	43-023-30021-0000	9/22/2010

KB-Ground Distance (ft)	Original KB Elevation (ft)	KB-Mud Line Distance (ft)
25.00	5,264.00	

Daily Operations

Target Depth (ftKB)	Target Depth (TVD) (ftKB)	End Depth (ftKB)	End Depth (TVD) (ftKB)
9,040.0		8,326.0	8,322.4

Footage/Meterage (ft)	24 HR ROP (ft/hr)	Drilling Hours (hr)
0.00		

Avg Connection Gas	Avg Trip Gas	Avg Background Gas	Max Connection Gas	Max Trip Gas	Max Drill Gas

Operations at Report Time
Waiting on Daylight

Operations Summary
(7) Industrial hot water, pressure washers, cleaning rig components
Hot Oil Truck:
Cleaned OBM out of, flow lines & all inside compartments of 1 mud tank, 5.25 hrs, Total of 13.25 hrs. Pressure wash outside of mud tank.

Loaded out:
Mud tank, hydraulic cat walk, 3 sub sections (1 load each), 3 loads rig mats w/ misc, 1 crew house

9 loads moved off location today.
Total 59 loads, Nabors 169, M/O

(7) Hot water, pressure washers, cleaning rig components
Hot Oil Truck cleaned OBM out of, flow lines & inside compartments of 2 mud tanks.

press washers washed 6 sub sections
pressure washers washing rig mats

Nabors eqpt remaining: 3 subs (1 load each), 1 crew house, 1 pushers house, 1 rig mat & small misc, total of 6 loads

Sewer system picked up

Remarks
NOTE: Total time washing # 1 mud tank 13.25 hrs, Total time washing #2 mud tank 13 hrs

Operations Next Report Period
Move out final approx 6 loads of Nabors 169.

Drain cellar, back-hoe to dig out cellar, cut off mouse hole pipe, weld plate in top, weld plate in top of 30" conductor.
Blade OBM off location into cuttings pit.
Load out Pioneer owned eqpt onto Pioneer Company trucks

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com	Start Depth (ftKB)	End Depth (ftKB)
06:00	07:30	1.50	DEMOB	PP	Waiting on daylight, Tempt -15 degF	9,030.0	9,030.0
07:30	17:30	10.00	DEMOB	PP	(7) Hot water, pressure washers, cleaning rig components Hot Oil Truck cleaned OBM out of, flow lines & inside compartments of 2 mud tanks. 2 press washers & hot oil truck, spent 5.25 hrs on 1st mud tank, pressure washers, washed on Saturday (08/Jan). Total time 13.25 hrs. 3 press washers washed 6 sub sections 2 pressure washers washing rig mats Crane loaded out: Mud tank, hydraulic cat walk, 3 sub sections (1 load each), 3 loads rig mats w/ misc, 1 crew house 9 loads moved off location today. Total 59 loads, Nabors 169, M/O Nabors eqpt remaining: 3 subs (1 load each), 1 crew house, 1 pushers house, 1 rig mat & small misc, total of 6 loads Sewer system picked up Hi Temp today 11 degF	9,030.0	9,030.0
17:30	06:00	12.50	DEMOB	PP	Waiting on daylight, Tempt ?? degF	9,030.0	9,030.0

Mud Properties

Daily Cost: <Daily Mud Field Est?> Cum Cost: <Mud Additive

Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	T Flowline (°F)

PV (cp)	YP (lbf/100ft²)	Filtrate (mL/30min)	HTHP Filtrate (mL/30…	HTHP Pressure (psi)	HTHP Temperature (°F)

Solids (%)	Sand (%)	MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)

Chlorides (ppm)	Calcium (ppm)	Oil Water Ratio	Electric Stab (V)	Lime (lb/bbl)	Low Gravity Solids (%)

Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Comment

Bottom Hole Assembly

BHA Since Insp (hr)	BHA Wt BelowJar (1000lbf)	Hrs on Jars (hr)

Total AFE + Sup (Cost)
14,234,000.00

AFE Job Cost Summary

Cost Type	AFE Amt (Cost)
DHC	12,770,000.00
CWC	1,464,000.00

Field Estimate Job Cost Summary

Cost Typ	Field Est (Cost)
DHC	12,465,407.23
CWC	21,043.00

Daily Summary

Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
112,047.00	12,940,764.44
Daily Mud Field Est (Cost)	**Cum Mud Field Est (Cost)**
	1,424,628.13

POL (Personnel on Location)
25.0

Daily Contacts

Job Contact	Title
Mike Reel	Drilling Supt
Eric Burnett	Drilling Engineer
Bill Vigil	Drilling Foreman
Dean Baker	Sr. Drlg. Foreman

Personnel Log

Company	Count
PIONEER NATURAL RESOURCES	1
PIONEER NATURAL RESOURCES	1
NABORS DRILLING INC	2
NABORS DRILLING INC	12
DENTON OIL CO	9

Weather

Precipitation Amount (in)	Precipitation Type
Temperature - High (°F)	**Temperature - Low (°F)**
11.0	

Comment

NABORS DRILLING, 169

Rig Type
Drilling - Triple

Rig Start Date	Rig Release Date
9/7/2010	1/5/2011

1, National Supply, 10-P-130

Pump Number
1

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)
3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

2, National Supply, 10-P-130

Pump Number
2

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)
3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

3, Continental Emsco, F-1000

Pump Number
3

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)
3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

Job Supply Amounts

Supply Item Des	Unit Label	Received	Consumed	Cum On Loc

Mud Additive Amounts

Des	Consumed	Cum Cons

Formations

Formation Name	Final Top MD (ftKB)
Quaternary	80.0
Tertiary Volcanic	1,300.0

Safety Summary

BOP Test Date	Last BOP Test	BOP Func Due	HSE Incident	HSE Inc Remark

1/12/2011

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 1/12/2011
REPORT: 140
DOL: 138
DFS: 112

Rig Name: NABORS DRILLING 169

Depth Progress: 0.00

Daily Summary

BHA #<BHA #?>, <Drill String Name?>

Bit Run	Drill Bit	Bit Type	Make

Nozzles (1/32")	IADC Codes	IADC Bit Dull

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)

Drilling Parameters

<depthstart> - <depthend> ftKB

Start (ftKB)	End Depth...	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100...	SO Str Wt (100...	Drill Str Wt (100...	Torque Units	Drilling Torque	Off Btm Tq

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/...	Max Open Hole AV (ft...

Casing Strings

Prop Run?	Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
No	Conductor	105.0	105.0	30	ERW	118.00		
No	Surface	4,345.0	4,344.6	13 3/8	K-55	68.00		
No	Intermediate	8,247.0	8,243.4	9 7/8	P-110	62.80	BTC	

Plug Back Total Depths

Date	Depth (ftKB)	Type	Method

Deviation Surveys

Tru-Trak, Proposed? No

Date	Description	Job
9/23/2010	Tru-Trak	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
11/20/2010	7,668.00	4.04						
11/20/2010	7,763.00	3.25						
11/20/2010	7,925.00	4.59						
11/20/2010	8,227.00	2.72						
11/20/2010	8,237.00	2.29						

Dipmeter, Proposed? No

Date	Description	Job
12/7/2010	Dipmeter	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
12/13/2010	8,566.00	1.75		8,562.30				
12/14/2010	8,652.00	2.48		8,648.29				
12/16/2010	8,755.00	2.76		8,751.29				
12/17/2010	8,852.00	2.98		8,848.29				
12/21/2010	8,955.00	4.15		8,951.29				

Formations

Formation Name	Final Top MD (ftKB)
Tertiary Undivided	1,830.0
North Horn	3,810.0
UNCONFORMITY	4,345.0
Arapien	4,345.0
FAULT	
Arapien	
Twin Creek	
Gypsum Sprgs Mbr	
Navajo	
Chinle	
TD	

Safety Summary

1/12/2011

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 1/13/2011
REPORT: 141
DOL: 139
DFS: 113

Rig Name: NABORS DRILLING 169

Depth Progress: 0.00

Daily Summary

Property Sub	Field Name	API/UWI	Spud Date
327560-001	WILDCAT	43-023-30021-0000	9/22/2010

KB-Ground Distance (ft)	Original KB Elevation (ft)	KB-Mud Line Distance (ft)
25.00	5,264.00	

Daily Operations

Target Depth (ftKB)	Target Depth (TVD) (ftKB)	End Depth (ftKB)	End Depth (TVD) (ftKB)
9,040.0		8,326.0	8,322.4

Footage/Meterage (ft)	24 HR ROP (ft/hr)	Drilling Hours (hr)
0.00		

Avg Connection Gas	Avg Trip Gas	Avg Background Gas	Max Connection Gas	Max Trip Gas	Max Drill Gas

Operations at Report Time
Waiting on Daylight

Operations Summary
(2) Industrial hot water, pressure washers, washed skid bottoms on (2) sub structures, 2 matting boards,

Loaded out: 3 sub sections, 2 misc load, 1 crew house, 1 pushers house

6 loads moved off location today.
Total 66 loads, Nabors 169, M/O

(2) Industrial hot water, pressure washers, & hot oil truck, washed & cleaned OBM off Pioneer owned eqpt: several hoses, pipe, etc
Hot oil truck, steamed ice blocks in (2) frac tanks (held fresh water)

Had vac truck, pull water & trash OBM out of cellar.

Dug up cellar ring, cleaned out cellar. Welders cut off tacked on cover on 9-7/8" csg.
Fabricate plates for 9-7/8" & 30" csgs, dress cut 9-7/8", weld 1/4" plate in 9-7/8", dress cut 30", weld 1/4" plate in 30", cut weep holes in 9-7/8" & 30" plates, as per:
Onshore Oil and Gas Order #2, Drilling Operations on Federal and Indian Oil and Gas Leases, BLM specs G. Drilling Abandonment Requirements, 2. Cased Hole, 10. Surface Cap

INSCRIPTION WELDED ON TOP OF 30" CAP:
PIONEER NATURAL RESOURCES, SOUTH HILLS FEDERAL #6-1, LEASE #UTU84003

Load out Pioneer assortment owned eqpt on location & Badlanderz yard, on Pioneer Company trucks.

Remarks
Telephone conversation with Randy Knight, at 1000 hrs, stated he did NOT have to be present to witness the permanent cap being welded on the 30". He ask that a picture be taken & e-mailed to him, which I agreed to. I told him the cellar would be filled in, OBM on location would be bladed & either rolled into the cuttings pit, or, it would be put in an area & secured, until location reclamation began in the spring. I stated the plastic liner on the location, would be bladed up (as best possible due to being frozen to the ground) & stock piled & secured.

ALL MEASUREMENTS FROM GROUND LEVEL:
TOP OF CEMENT (BETWEEN 30" & 9-7/8"), 4'-5".
Cut off, tacked on 9-7/8" temporary plate, dress cut & lower 9-7/8" stub, to 4'-5"
Dress cut 30", to 4'-3"
TOP OF 1/4" PLATE, WELDED IN 30", 4'-4"
Cut off & dress cut 12" mouse hole to 4'-1-1/2"
TOP OF MOUSE HOLE W/ PLATE WELDED IN 4'-1-1/2". TOP OF PLATE
1/4" WEEP HOLE WAS DRILLED IN BOTH 30" & 9-7/8", 1/4" WELDED ON CAPS

INSCRIPTION WELDED ON TOP OF 30" CAP:
PIONEER NATURAL RESOURCES, SOUTH HILLS FEDERAL #6-1, LEASE #UTU84003

Operations Next Report Period
Clean up location: blade OBM & contaminated sections into cuttings pit, fill ditches, blade up & stock pile, plastic liner

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com	Start Depth (ftKB)	End Depth (ftKB)
06:00	07:00	1.00	DEMOB	PP	Wait on daylight, Tempt 9 degF	9,030.0	9,030.0

Total AFE + Sup (Cost): 14,234,000.00

AFE Job Cost Summary

Cost Type	AFE Amt (Cost)
DHC	12,770,000.00
CWC	1,464,000.00

Field Estimate Job Cost Summary

Cost Typ	Field Est (Cost)
DHC	12,527,820.23
CWC	21,043.00

Daily Summary

Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
62,413.00	13,003,177.44
Daily Mud Field Est (Cost)	Cum Mud Field Est (Cost)
	1,424,628.13

POL (Personnel on Location): 11.0

Daily Contacts

Job Contact	Title
Mike Reel	Drilling Supt
Eric Burnett	Drilling Engineer
Bill Vigil	Drilling Foreman
Dean Baker	Sr. Drlg. Foreman

Personnel Log

Company	Count
PIONEER NATURAL RESOURCES	1
PIONEER NATURAL RESOURCES	1
NABORS DRILLING INC	2
NABORS DRILLING INC	2
DENTON OIL CO	2
DENTON OIL CO	3

Weather

Precipitation Amount (in)	Precipitation Type
Temperature - High (°F)	Temperature - Low (°F)

Comment

NABORS DRILLING, 169

Rig Type: Drilling - Triple

Rig Start Date	Rig Release Date
9/7/2010	1/5/2011

1, National Supply, 10-P-130

Pump Number: 1

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi): 3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

2, National Supply, 10-P-130

Pump Number: 2

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi): 3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

3, Continental Emsco, F-1000

Pump Number: 3

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi): 3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

Job Supply Amounts

Supply Item Des	Unit Label	Received	Consumed	Cum On Loc

Mud Additive Amounts

Des	Consumed	Cum Cons

Formations

Formation Name	Final Top MD (ftKB)
Quaternary	80.0

Safety Summary

BOP Test Date	Last BOP Test	BOP Func Due	HSE Incident	HSE Inc Remark

1/13/2011

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 1/13/2011
REPORT: 141
DOL: 139
DFS: 113

Rig Name: NABORS DRILLING 169

Depth Progress: 0.00

Daily Summary

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com	Start Depth (ftKB)	End Depth (ftKB)
07:00	18:30	11.50	DEMOB	PP	(2) Industrial hot water, pressure washers, washed skid bottoms on (2) sub structures, 2 matting boards, Loaded out: 3 sub sections, 2 misc loads, 1 crew house, 1 pushers house 6 loads moved off location today. Total 66 loads, Nabors 169, M/O All of Nabors 169 off location, 1410 hrs, 12/Jan (2) Industrial hot water, pressure washers, & hot oil truck, washed & cleaned (1) matting board, (1) sub base runner, cellar covers & OBM off Pioneer owned eqpt: hoses, pipe, etc Load out misc Pioneer owned eqpt on (2) Pioneer 18 wheelers & 1 Pioneer dual tandem goose-neck. Vac truck, sucked water & trash OBM out of cellar, remaining fluid out of frac tanks. Denton Oil Co: Back-hoe dug out cellar ring & around outer area, cleaned out cellar. Welders cut off, 9-7/8" tacked on plate. Chiseled out cement around 9-7/8" csg, re-cut 1' deeper. Chiseled out cement around 30" csg, re-cut 30" csg, 1' deeper. ALL MEASUREMENTS FROM GROUND LEVEL: 1) TOP OF CEMENT (BETWEEN 30" & 9-7/8"), 4'-5". 1a) Cut off, tacked on 9-7/8" temporary plate, dress cut & lower 9-7/8" stub, to 4'-5" 2) Dress cut 30", to 4'-3" 2a) TOP OF 1/4" PLATE, WELDED IN 30", 4'-4" 3) Cut off & dress cut 12" mouse hole to 4'-1-1/2" 4) TOP OF MOUSE HOLE W/ PLATE WELDED IN 4'-1-1/2". TOP OF PLATE 5) 1/4" WEEP HOLE WAS DRILLED IN BOTH 30" & 9-7/8", 1/4" WELDED ON CAPS Abandonment as per: Onshore Oil and Gas Order #2, Drilling Operations on Federal and Indian Oil and Gas Leases, BLM specs G. Drilling Abandonment Requirements, 2. Cased Hole, 10. Surface Cap INSCRIPTION WELDED ON TOP OF 30" CAP: PIONEER NATURAL RESOURCES, SOUTH HILLS FEDERAL #6-1, LEASE #UTU84003 Back-fill cellar. Hi tempt 34 degF	9,030.0	9,030.0
18:30	06:00	11.50	LOCATN	PP	Wait on daylight	9,030.0	9,030.0

Formations

Formation Name	Final Top MD (ftKB)
Tertiary Volcanic	1,300.0
Tertiary Undivided	1,830.0
North Horn	3,810.0
UNCONFORMITY	4,345.0
Arapien	4,345.0
FAULT	
Arapien	
Twin Creek	
Gypsum Sprgs Mbr	
Navajo	
Chinle	
TD	

Mud Properties

Daily Cost: <Daily Mud Field Est?> Cum Cost: <Mud Additive

Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	T Flowline (°F)
PV (cp)	YP (lbf/100ft²)	Filtrate (mL/30min)	HTHP Filtrate (mL/30…	HTHP Pressure (psi)	HTHP Temperature (°F)
Solids (%)	Sand (%)	MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)
Chlorides (ppm)	Calcium (ppm)	Oil Water Ratio	Electric Stab (V)	Lime (lb/bbl)	Low Gravity Solids (%)
Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Comment			

Bottom Hole Assembly

BHA Since Insp (hr)	BHA Wt BelowJar (1000lbf)	Hrs on Jars (hr)

BHA #<BHA #?>, <Drill String Name?>

Bit Run	Drill Bit	Bit Type	Make

Nozzles (1/32")	IADC Codes	IADC Bit Dull

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)

Safety Summary

1/13/2011

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 1/13/2011
REPORT: 141
DOL: 139
DFS: 113

Rig Name: NABORS DRILLING 169

Depth Progress: 0.00

Daily Summary

Drilling Parameters

<depthstart> - <depthend> ftKB

Start (ftKB)	End Depth…	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100…	SO Str Wt (100…	Drill Str Wt (100…	Torque Units	Drilling Torque	Off Btm Tq

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/…	Max Open Hole AV (ft…

Casing Strings

Prop Run?	Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
No	Conductor	105.0	105.0	30	ERW	118.00		
No	Surface	4,345.0	4,344.6	13 3/8	K-55	68.00		
No	Intermediate	8,247.0	8,243.4	9 7/8	P-110	62.80	BTC	

Plug Back Total Depths

Date	Depth (ftKB)	Type	Method

Deviation Surveys

Tru-Trak, Proposed? No

Date	Description	Job
9/23/2010	Tru-Trak	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
11/20/2010	7,668.00	4.04						
11/20/2010	7,763.00	3.25						
11/20/2010	7,925.00	4.59						
11/20/2010	8,227.00	2.72						
11/20/2010	8,237.00	2.29						

Dipmeter, Proposed? No

Date	Description	Job
12/7/2010	Dipmeter	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
12/13/2010	8,566.00	1.75		8,562.30				
12/14/2010	8,652.00	2.48		8,648.29				
12/16/2010	8,755.00	2.76		8,751.29				
12/17/2010	8,852.00	2.98		8,848.29				
12/21/2010	8,955.00	4.15		8,951.29				

Safety Summary

1/13/2011

PIONEER NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 1/14/2011
REPORT: 142
DOL: 140
DFS: 114

Rig Name: NABORS DRILLING 169

Depth Progress: 0.00

Daily Summary

Property Sub	Field Name	API/UWI	Spud Date
327560-001	WILDCAT	43-023-30021-0000	9/22/2010

KB-Ground Distance (ft)	Original KB Elevation (ft)	KB-Mud Line Distance (ft)
25.00	5,264.00	

Daily Operations

Target Depth (ftKB)	Target Depth (TVD) (ftKB)	End Depth (ftKB)	End Depth (TVD) (ftKB)
9,040.0		8,326.0	8,322.4

Footage/Meterage (ft)	24 HR ROP (ft/hr)	Drilling Hours (hr)
0.00		

Avg Connection Gas	Avg Trip Gas	Avg Background Gas	Max Connection Gas	Max Trip Gas	Max Drill Gas

Operations at Report Time
Waiting on Daylight

Operations Summary
(2) Industrial power washers, washed out residue in (2) frac tanks. Winch truck picked up frac tanks, drained water from inside. Pressure washed OBM off bottoms & skids, (4) frac tanks.
Clean up location -- scraping plastic liner up, dig up & break out ice blocks fill ditches with same

Rig Net rigged down communications
Outpost rigged down (2) trailers
Badlanderz moved out generator

Remarks

Operations Next Report Period
Clean up location: blade OBM & contaminated sections into cuttings pit, fill ditches, remove as much plastic liner as possible, piling up in bermed area where frac tanks were located. Install fence to secure (3) open pits

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com	Start Depth (ftKB)	End Depth (ftKB)
06:00	07:00	1.00	DEMOB	PP	Waiting on daylight, tempt 8 degF	9,030.0	9,030.0
07:00	13:00	6.00	DEMOB	PP	(2) Industrial pressure washers, washed OBM residue, from inside of (2) frac tanks (previously done by Badlanderz). Winch truck picked up each frac tank, drain water from inside. Pressure washed, OBM off bottoms & skids (4) Frac tanks Round up, sort through, remaining Pioneer owned equipment (will be loaded on Pioneer truck, 14/Jan) Clean up trash & junk left behind by Nabors 169 Rig Net rigged down communications Outpost rigged down (2) trailers -- to be moved out Friday, 14/Jan Badlanderz moved out generator Temt 34 degF	9,030.0	9,030.0
13:00	17:30	4.50	LOCATN	PP	Loader & backhoe, scraped up plastic liner, dig up & break out perma-frost, filling in ditches with same	9,030.0	9,030.0
17:30	06:00	12.50	LOCATN	PP	Waiting on daylight, tempt 9 degF	9,030.0	9,030.0

Mud Properties

Daily Cost: <Daily Mud Field Est?> Cum Cost: <Mud Additive

Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	T Flowline (°F)

PV (cp)	YP (lbf/100ft²)	Filtrate (mL/30min)	HTHP Filtrate (mL/30…	HTHP Pressure (psi)	HTHP Temperature (°F)

Solids (%)	Sand (%)	MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)

Chlorides (ppm)	Calcium (ppm)	Oil Water Ratio	Electric Stab (V)	Lime (lb/bbl)	Low Gravity Solids (%)

Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Comment

Bottom Hole Assembly

BHA Since Insp (hr)	BHA Wt BelowJar (1000lbf)	Hrs on Jars (hr)

BHA #<BHA #?>, <Drill String Name?>

Bit Run	Drill Bit	Bit Type	Make

Nozzles (1/32")	IADC Codes	IADC Bit Dull

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)

Drilling Parameters

<depthstart> - <depthend> ftKB

Start (ftKB)	End Depth…	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100…	SO Str Wt (100…	Drill Str Wt (100…	Torque Units	Drilling Torque	Off Btm Tq

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/…	Max Open Hole AV (ft…

Total AFE + Sup (Cost)
14,234,000.00

AFE Job Cost Summary

Cost Type	AFE Amt (Cost)
DHC	12,770,000.00
CWC	1,464,000.00

Field Estimate Job Cost Summary

Cost Typ	Field Est (Cost)
DHC	12,532,194.23
CWC	21,043.00

Daily Summary

Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
4,374.00	13,007,551.44
Daily Mud Field Est (Cost)	**Cum Mud Field Est (Cost)**
	1,424,628.13

POL (Personnel on Location)
8.0

Daily Contacts

Job Contact	Title
Mike Reel	Drilling Supt
Eric Burnett	Drilling Engineer
Bill Vigil	Drilling Foreman
Dean Baker	Sr. Drlg. Foreman

Personnel Log

Company	Count
PIONEER NATURAL RESOURCES	1
PIONEER NATURAL RESOURCES	1
DENTON OIL CO	2
DENTON OIL CO	3
Badlanderz	1

Weather

Precipitation Amount (in)	Precipitation Type

Temperature - High (°F)	Temperature - Low (°F)

Comment

NABORS DRILLING, 169

Rig Type
Drilling - Triple

Rig Start Date	Rig Release Date
9/7/2010	1/5/2011

1, National Supply, 10-P-130

Pump Number
1

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)
3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

2, National Supply, 10-P-130

Pump Number
2

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)
3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

3, Continental Emsco, F-1000

Pump Number
3

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)
3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

Job Supply Amounts

Supply Item Des	Unit Label	Received	Consumed	Cum On Loc

Mud Additive Amounts

Des	Consumed	Cum Cons

Formations

Formation Name	Final Top MD (ftKB)
Quaternary	80.0
Tertiary Volcanic	1,300.0

Safety Summary

BOP Test Date	Last BOP Test	BOP Func Due	HSE Incident	HSE Inc Remark

1/14/2011

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 1/14/2011
REPORT: 142
DOL: 140
DFS: 114

Rig Name: NABORS DRILLING 169

Depth Progress: 0.00

Daily Summary

Casing Strings

Prop Run?	Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
No	Conductor	105.0	105.0	30	ERW	118.00		
No	Surface	4,345.0	4,344.6	13 3/8	K-55	68.00		
No	Intermediate	8,247.0	8,243.4	9 7/8	P-110	62.80	BTC	

Plug Back Total Depths

Date	Depth (ftKB)	Type	Method

Deviation Surveys

Tru-Trak, Proposed? No

Date	Description	Job
9/23/2010	Tru-Trak	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
11/20/2010	7,668.00	4.04						
11/20/2010	7,763.00	3.25						
11/20/2010	7,925.00	4.59						
11/20/2010	8,227.00	2.72						
11/20/2010	8,237.00	2.29						

Dipmeter, Proposed? No

Date	Description	Job
12/7/2010	Dipmeter	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
12/13/2010	8,566.00	1.75		8,562.30				
12/14/2010	8,652.00	2.48		8,648.29				
12/16/2010	8,755.00	2.76		8,751.29				
12/17/2010	8,852.00	2.98		8,848.29				
12/21/2010	8,955.00	4.15		8,951.29				

Formations

Formation Name	Final Top MD (ftKB)
Tertiary Undivided	1,830.0
North Horn	3,810.0
UNCONFORMITY	4,345.0
Arapien	4,345.0
FAULT	
Arapien	
Twin Creek	
Gypsum Sprgs Mbr	
Navajo	
Chinle	
TD	

Safety Summary

1/14/2011

PIONEER
NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 1/15/2011
REPORT: 143
DOL: 141
DFS: 115

Rig Name: NABORS DRILLING 169

Depth Progress: 0.00

Daily Summary

Property Sub	Field Name	API/UWI	Spud Date
327560-001	WILDCAT	43-023-30021-0000	9/22/2010

KB-Ground Distance (ft)	Original KB Elevation (ft)	KB-Mud Line Distance (ft)
25.00	5,264.00	

Daily Operations

Target Depth (ftKB)	Target Depth (TVD) (ftKB)	End Depth (ftKB)	End Depth (TVD) (ftKB)
9,040.0		8,326.0	8,322.4

Footage/Meterage (ft)	24 HR ROP (ft/hr)	Drilling Hours (hr)
0.00		

Avg Connection Gas	Avg Trip Gas	Avg Background Gas	Max Connection Gas	Max Trip Gas	Max Drill Gas

Operations at Report Time
Waiting on Daylight

Operations Summary
Clean up location -- digging plastic liner & perma-frost up with back-hoe & break out perma frost. Fill ditches with dirt & rock, being scraped up on location & broken up perma frost.
Picking up junk, misc eqpt left behind by Nabors (piping, valves, steel, etc) -- misc Pioneer owned eqpt (hoses, lumber, junk steel, etc), not loaded on Pioneer trucks, due to not having enough room on trucks & being junk condition.
Location extremely icy & muddy, slowing clean-up, tempt today 44 degF.

Loaded out Pioneer truck with Pioneer owned eqpt.

Denton Oil, installed fence along cuttings pit on east side (tying into fence line on North & South side. Re-install section of fence line, where taken down to access south end pit for fluid disposal.

Outpost moved off (1) trailer

Rain for Rent moved off 2 frac tanks. 2 frac tanks had OBM in jet lines, clean out OBM, in jet lines, left heavy residue in tank bottom.

Remarks

Operations Next Report Period
Clean up location: junk, trash, remove as much plastic liner as possible, stacking in bermed area where frac tanks were located. Clean out OBM residue in 2 frac tanks.

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com	Start Depth (ftKB)	End Depth (ftKB)
06:00	07:30	1.50	LOCATN	PP	Wait on daylight, tempt 24 degF	9,030.0	9,030.0
07:30	08:45	1.25	LOCATN	PP	Wait on personnel, roads covered with black ice.	9,030.0	9,030.0
08:45	19:15	10.50	LOCATN	PP	Denton Oil, Clean up location -- digging plastic liner & perma-frost up with back-hoe & break out perma frost. Fill ditches with dirt & rock, being scraped up on location & broken up perma frost. Stacking plastic liner in bermed area, where frac tanks were set. Picking up junk, trash, misc junk eqpt left behind by Nabors, misc Pioneer owned eqpt (hoses, lumber, junk steel), not loaded on Pioneer trucks, due to not having enough room & being junk condition. Location extremely muddy, due to snow & ice melting, slowing clean up. Loader & back-hoe having problems with ditches & soft spots. Past 3 days, tempt has been above freezing, during the day, today the warmest at 44 degF. Loaded out Pioneer company truck, with misc Pioneer owned eqpt. Denton Oil: 1) Installed fence along cuttings pit on east side (tying into fence line on North & South side 2) Re-install section of fence line, where taken down to access south end pit for fluid disposal. Outpost moved off (1) trailer Rain for Rent moved off 2 frac tanks. Refused to take other 2 tanks. Jet lines had OBM -- will have to clean OBM out, before tanks can be hauled back to Rain for Rent yard. Badlanderz vac truck washed out OBM in jet lines, left heavy residue in each tank bottom. Badlanderz to have pressure washer & vac truck lined up for tomorrow. Hi tempt 44 degF Worked until 1915 hrs, tempt 24 degF	9,030.0	9,030.0
19:15	06:00	10.75	LOCATN	PP	Waiting on Daylight	9,030.0	9,030.0

Total AFE + Sup (Cost)
14,234,000.00

AFE Job Cost Summary

Cost Type	AFE Amt (Cost)
DHC	12,770,000.00
CWC	1,464,000.00

Field Estimate Job Cost Summary

Cost Typ	Field Est (Cost)
DHC	12,535,484.23
CWC	21,043.00

Daily Summary

Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
10,835.00	13,018,386.44
Daily Mud Field Est (Cost)	Cum Mud Field Est (Cost)
	1,424,628.13

POL (Personnel on Location)
5.0

Daily Contacts

Job Contact	Title
Mike Reel	Drilling Supt
Eric Burnett	Drilling Engineer
Bill Vigil	Drilling Foreman
Dean Baker	Sr. Drlg. Foreman

Personnel Log

Company	Count
PIONEER NATURAL RESOURCES	1
PIONEER NATURAL RESOURCES	1
DENTON OIL CO	3

Weather

Precipitation Amount (in)	Precipitation Type
Temperature - High (°F)	Temperature - Low (°F)

Comment

NABORS DRILLING, 169

Rig Type
Drilling - Triple

Rig Start Date	Rig Release Date
9/7/2010	1/5/2011

1, National Supply, 10-P-130

Pump Number
1

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)
3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

2, National Supply, 10-P-130

Pump Number
2

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)
3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

3, Continental Emsco, F-1000

Pump Number
3

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)
3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

Job Supply Amounts

Supply Item Des	Unit Label	Received	Consumed	Cum On Loc

Mud Additive Amounts

Des	Consumed	Cum Cons

Formations

Formation Name	Final Top MD (ftKB)
Quaternary	80.0
Tertiary Volcanic	1,300.0
Tertiary Undivided	1,830.0
North Horn	3,810.0

Safety Summary

BOP Test Date	Last BOP Test	BOP Func Due	HSE Incident	HSE Inc Remark

1/15/2011

PIONEER NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 1/15/2011
REPORT: 143
DOL: 141
DFS: 115

Rig Name: NABORS DRILLING 169

Depth Progress: 0.00

Daily Summary

Mud Properties — **Daily Cost: <Daily Mud Field Est?>** — **Cum Cost: <Mud Additive**

Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	T Flowline (°F)

PV (cp)	YP (lbf/100ft²)	Filtrate (mL/30min)	HTHP Filtrate (mL/30…	HTHP Pressure (psi)	HTHP Temperature (°F)

Solids (%)	Sand (%)	MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)

Chlorides (ppm)	Calcium (ppm)	Oil Water Ratio	Electric Stab (V)	Lime (lb/bbl)	Low Gravity Solids (%)

Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Comment

Bottom Hole Assembly

BHA Since Insp (hr)	BHA Wt BelowJar (1000lbf)	Hrs on Jars (hr)

BHA #<BHA #?>, <Drill String Name?>

Bit Run	Drill Bit	Bit Type	Make

Nozzles (1/32")	IADC Codes	IADC Bit Dull

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)

Drilling Parameters

<depthstart> - <depthend> ftKB

Start (ftKB)	End Depth…	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100…	SO Str Wt (100…	Drill Str Wt (100…	Torque Units	Drilling Torque	Off Btm Tq

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/…	Max Open Hole AV (ft…

Casing Strings

Prop Run?	Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
No	Conductor	105.0	105.0	30	ERW	118.00		
No	Surface	4,345.0	4,344.6	13 3/8	K-55	68.00		
No	Intermediate	8,247.0	8,243.4	9 7/8	P-110	62.80	BTC	

Plug Back Total Depths

Date	Depth (ftKB)	Type	Method

Deviation Surveys

Tru-Trak, Proposed? No

Date	Description	Job
9/23/2010	Tru-Trak	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
11/20/2010	7,668.00	4.04						
11/20/2010	7,763.00	3.25						
11/20/2010	7,925.00	4.59						
11/20/2010	8,227.00	2.72						
11/20/2010	8,237.00	2.29						

Dipmeter, Proposed? No

Date	Description	Job
12/7/2010	Dipmeter	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
12/13/2010	8,566.00	1.75		8,562.30				
12/14/2010	8,652.00	2.48		8,648.29				
12/16/2010	8,755.00	2.76		8,751.29				
12/17/2010	8,852.00	2.98		8,848.29				
12/21/2010	8,955.00	4.15		8,951.29				

Formations

Formation Name	Final Top MD (ftKB)
UNCONFORMITY	4,345.0
Arapien	4,345.0
FAULT	
Arapien	
Twin Creek	
Gypsum Sprgs Mbr	
Navajo	
Chinle	
TD	

Safety Summary

1/15/2011

PIONEER NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 1/16/2011
REPORT: 144
DOL: 142
DFS: 116

Rig Name: NABORS DRILLING 169

Depth Progress: 0.00

Daily Summary

Property Sub	Field Name	API/UWI	Spud Date
327560-001	WILDCAT	43-023-30021-0000	9/22/2010

KB-Ground Distance (ft)	Original KB Elevation (ft)	KB-Mud Line Distance (ft)
25.00	5,264.00	

Daily Operations

Target Depth (ftKB)	Target Depth (TVD) (ftKB)	End Depth (ftKB)	End Depth (TVD) (ftKB)
9,040.0		8,326.0	8,322.4

Footage/Meterage (ft)	24 HR ROP (ft/hr)	Drilling Hours (hr)
0.00		

Avg Connection Gas	Avg Trip Gas	Avg Background Gas	Max Connection Gas	Max Trip Gas	Max Drill Gas

Operations at Report Time
Waiting on Daylight

Operations Summary
Clean up location -- dug up plastic liner in bermed area, where pre-mix tank was set. Fill ditches with dirt & rock, being scraped up on location & broken up perma frost.
Picked up misc Pioneer junk (hoses, lumber, steel, etc), not loaded on Pioneer trucks.

Location extremely icy & muddy, slowing clean-up, tempt today 24 degF.

Clean out OBM residue in 2 frac tanks.

Outpost moved off (1) trailer

Remarks
Monday 17/Jan, Denton Oil, to haul plastic liner dug up & currently piled in bermed area where frac tanks set, to land fill.

This will be the last report generated, until location reclamation starts, or, if issues arrise, where-by, Pioneer needs to charge for personnel.

Charges, that have not been charged off against well, received after this report, will be added when received.

Operations Next Report Period
Waiting for warm weather to set in, to completely thaw out location, to start reclamation.

Time Log

Start Time	End Time	Dur (hr)	Op	P/N	Com	Start Depth (ftKB)	End Depth (ftKB)
06:00	08:30	2.50	LOCATN	PP	Started clean up at 0900, tempt 19 deg	9,030.0	9,030.0
08:30	17:30	9.00	LOCATN	PP	Denton Oil, Finished cleaning up location, as best possible, due to frozen ground. Dug out plastic liner in bermed area, where pre-mix tank was set. Some junk was left, as was frozen in the ground. This is NOT a danger to wildlife, the environment, or a pollution issue. Trash dumpster to be picked up Monday, 16/Jan. Badlanderz cleaned OBM residue out of (2) frac tanks, with hot water pressure washer, vac truck pulled all fluid out of frac tanks. Location extremely muddy, due to snow & ice melting, slowed clean up. Loader & back-hoe having problems with ditches & soft spots. Hi tempt today, 24 degF. Direct sunlight, thawing out surface areas on location, becoming extremely muddy, after 11am. Outpost moved off (1) trailer Hi tempt 24 degF	9,030.0	9,030.0
17:30	06:00	12.50	LOCATN	PP	Operations shut down, until future notice	9,030.0	9,030.0

Mud Properties

Daily Cost: <Daily Mud Field Est?> Cum Cost: <Mud Additive

Time	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	T Flowline (°F)

PV (cp)	YP (lbf/100ft²)	Filtrate (mL/30min)	HTHP Filtrate (mL/30...	HTHP Pressure (psi)	HTHP Temperature (°F)

Solids (%)	Sand (%)	MBT (lb/bbl)	pH	Pm (mL/mL)	Pf (mL/mL)

Chlorides (ppm)	Calcium (ppm)	Oil Water Ratio	Electric Stab (V)	Lime (lb/bbl)	Low Gravity Solids (%)

Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Comment

Bottom Hole Assembly

BHA Since Insp (hr)	BHA Wt BelowJar (1000lbf)	Hrs on Jars (hr)

BHA #<BHA #?>, <Drill String Name?>

Bit Run	Drill Bit	Bit Type	Make

Nozzles (1/32")	IADC Codes	IADC Bit Dull

Bit Total Fluid Area (nozzles) (in²)	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)

BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)

Total AFE + Sup (Cost)
14,234,000.00

AFE Job Cost Summary

Cost Type	AFE Amt (Cost)
DHC	12,770,000.00
CWC	1,464,000.00

Field Estimate Job Cost Summary

Cost Typ	Field Est (Cost)
DHC	12,541,999.23
CWC	21,043.00

Daily Summary

Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
186,372.00	13,204,758.44
Daily Mud Field Est (Cost)	**Cum Mud Field Est (Cost)**
	1,424,628.13

POL (Personnel on Location)
5.0

Daily Contacts

Job Contact	Title
Mike Reel	Drilling Supt
Eric Burnett	Drilling Engineer
Bill Vigil	Drilling Foreman
Dean Baker	Sr. Drlg. Foreman

Personnel Log

Company	Count
PIONEER NATURAL RESOURCES	1
PIONEER NATURAL RESOURCES	1
DENTON OIL CO	3

Weather

Precipitation Amount (in)	Precipitation Type
Temperature - High (°F)	**Temperature - Low (°F)**
24.0	

Comment

NABORS DRILLING, 169

Rig Type
Drilling - Triple

Rig Start Date	Rig Release Date
9/7/2010	1/5/2011

1, National Supply, 10-P-130

Pump Number
1

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)
3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

2, National Supply, 10-P-130

Pump Number
2

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)
3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

3, Continental Emsco, F-1000

Pump Number
3

Liner Size (in)	Stroke Length (in)	Vol/Stk OR (bbl/stk)
6	10.00	0.083

Max Pressure (psi)
3,500.0

Pump Checks

Slow Spd	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

Job Supply Amounts

Supply Item Des	Unit Label	Received	Consumed	Cum On Loc

Mud Additive Amounts

Des	Consumed	Cum Cons

Formations

Formation Name	Final Top MD (ftKB)
Quaternary	80.0
Tertiary Volcanic	1,300.0
Tertiary Undivided	1,830.0
North Horn	3,810.0

Safety Summary

BOP Test Date	Last BOP Test	BOP Func Due	HSE Incident	HSE Inc Remark

1/16/2011

PIONEER NATURAL RESOURCES

PIONEER NATURAL RESOURCES USA, INC

Well Name: South Hills 6-1

Daily Drilling Report

REPORT DATE: 1/16/2011
REPORT: 144
DOL: 142
DFS: 116

Rig Name: NABORS DRILLING 169

Depth Progress: 0.00

Daily Summary

Drilling Parameters

<depthstart> - <depthend> ftKB

Start (ftKB)	End Depth…	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	Note

Drilling Time (hr)	Circ Time (hr)	PU Str Wt (100…	SO Str Wt (100…	Drill Str Wt (100…	Torque Units	Drilling Torque	Off Btm Tq

Hydraulics

Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Min Open Hole AV (ft/…	Max Open Hole AV (ft…

Casing Strings

Prop Run?	Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
No	Conductor	105.0	105.0	30	ERW	118.00		
No	Surface	4,345.0	4,344.6	13 3/8	K-55	68.00		
No	Intermediate	8,247.0	8,243.4	9 7/8	P-110	62.80	BTC	

Plug Back Total Depths

Date	Depth (ftKB)	Type	Method

Deviation Surveys

Tru-Trak, Proposed? No

Date	Description	Job
9/23/2010	Tru-Trak	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
11/20/2010	7,668.00	4.04						
11/20/2010	7,763.00	3.25						
11/20/2010	7,925.00	4.59						
11/20/2010	8,227.00	2.72						
11/20/2010	8,237.00	2.29						

Dipmeter, Proposed? No

Date	Description	Job
12/7/2010	Dipmeter	EXD, 9/22/2010 09:00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
12/13/2010	8,566.00	1.75		8,562.30				
12/14/2010	8,652.00	2.48		8,648.29				
12/16/2010	8,755.00	2.76		8,751.29				
12/17/2010	8,852.00	2.98		8,848.29				
12/21/2010	8,955.00	4.15		8,951.29				

Formations

Formation Name	Final Top MD (ftKB)
UNCONFORMITY	4,345.0
Arapien	4,345.0
FAULT	
Arapien	
Twin Creek	
Gypsum Sprgs Mbr	
Navajo	
Chinle	
TD	

Safety Summary

1/16/2011

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

CONFIDENTIAL

AMENDED REPORT ☐ (highlight changes) FORM 8

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-84003
6. IF INDIAN, ALLOTTEE OR TRIBE NAME: NA

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ DRY ☑ OTHER

7. UNIT or CA AGREEMENT NAME: NA

b. TYPE OF WORK: NEW WELL ☑ HORIZ. LATS. ☐ DEEP-EN ☐ RE-ENTRY ☐ DIFF. RESVR. ☐ OTHER

8. WELL NAME and NUMBER: South Hills Federal 6-1

2. NAME OF OPERATOR: Pioneer Natural Resources USA, Inc.

9. API NUMBER: 43-023-30021

3. ADDRESS OF OPERATOR: 1401 17th Street - #1200 CITY Denver STATE CO ZIP 80202

PHONE NUMBER: (303) 675-2663

10 FIELD AND POOL, OR WILDCAT: Wildcat

4. LOCATION OF WELL (FOOTAGES)
AT SURFACE: 1552' FSL & 3171' FEL
AT TOP PRODUCING INTERVAL REPORTED BELOW: Same
AT TOTAL DEPTH: Same

11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Lot 46 6 16S 1W S

12. COUNTY: Juab

13. STATE: UTAH

14. DATE SPUDDED: 9/23/2010

15. DATE T.D. REACHED: 12/21/2010

16. DATE COMPLETED: 12/30/2010

ABANDONED ☑ READY TO PRODUCE ☐

17. ELEVATIONS (DF, RKB, RT, GL): KB 25'

18. TOTAL DEPTH: MD 9,030 TVD 9,030

19. PLUG BACK T.D.: MD TVD

20. IF MULTIPLE COMPLETIONS, HOW MANY? * -

21. DEPTH BRIDGE PLUG SET: MD TVD

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)
Triple Combo, Wave Sonic, VSP; Triple Combo, Dipmeter

23.
WAS WELL CORED? NO ☑ YES ☐ (Submit analysis)
WAS DST RUN? NO ☑ YES ☐ (Submit report)
DIRECTIONAL SURVEY? NO ☑ YES ☐ (Submit copy)

24. CASING AND LINER RECORD (Report all strings set in well)

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
	30" ERW		0	105		15 yds		surf	None
17"	13-3/8 K55	68	0	4,345	2,167	Type 5 1,065	373	Surf	None
						Type 3 230	54		
12-1/4"	9-7/8" P110	62.8		8,247		Extend 430	241	738'	None
						Versa 870	265		

25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
NA								

26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)
(A) NA				
(B)				
(C)				
(D)				

27. PERFORATION RECORD

INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
			Open ☐ Squeezed ☐
			Open ☐ Squeezed ☐
			Open ☐ Squeezed ☐
			Open ☐ Squeezed ☐

28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
NA	

29. ENCLOSED ATTACHMENTS:

☐ ELECTRICAL/MECHANICAL LOGS ☐ GEOLOGIC REPORT ☐ DST REPORT ☐ DIRECTIONAL SURVEY
☑ SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION ☐ CORE ANALYSIS ☐ OTHER:

30. WELL STATUS: P&A

(5/2000)

(CONTINUED ON BACK)

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JAN 13 2011
DIV. OF OIL, GAS & MINING

31. INITIAL PRODUCTION

INTERVAL A (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

INTERVAL B (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

INTERVAL C (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

INTERVAL D (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)

NA

33. SUMMARY OF POROUS ZONES (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
				Painted Rock	270
				Green River	1,850
				Flagstaff	3,250
				Fault	3,960
				Arapien	3,960
				Fault	4,400
				Twin Creek 1	4,400
				Fault	4,850
				Navajo 1	5,960
				Fault	7,090

35. ADDITIONAL REMARKS (Include plugging procedure)

No. 34: continued: Twin Creek 2 = 7090', Fault = 7340'; Navajo 2 = 8605'.

Plugging procedure and Halliburton Cement Job Summary attached

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

NAME (PLEASE PRINT) Joy A. Ziegler TITLE Senior Engineering Tech

SIGNATURE Joy A. Ziegler DATE 1/12/2011

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

** ITEM 24: Cement Top – Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940

(5/2000)

HALLIBURTON

Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 353050	**Ship To #:** 2811818	**Quote #:**	**Sales Order #:** 7861781
Customer: PIONEER NATURAL RES USA INC-EBUS		**Customer Rep:**	
Well Name: South Hills	**Well #:** 6-1		**API/UWI #:** 43-023-30021
Field:	**City (SAP):** UNKNOWN	**County/Parish:** Juab	**State:** Utah
Legal Description: Section 6 Township 16S Range 1W			
Lat: N 39.444 deg. OR N 39 deg. 26 min. 36.78 secs.		**Long:** W 111.972 deg. OR W -112 deg. 1 min. 39.612 secs.	
Contractor: PIONEER	**Rig/Platform Name/Num:** NABOR 169		
Job Purpose: Plug to Abandon Service			
Well Type: Exploratory / Wildcat	**Job Type:** Plug to Abandon Service		
Sales Person: GROFF, THEODORE	**Srvc Supervisor:** MCKEE, RALPH	**MBU ID Emp #:** 259268	

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
MCKEE, RALPH R		259268	PACE, GARRET L		475041	PARTRIDGE, BRENT W		471227
PARTRIDGE, TRAVIS M		484614	PEAY, SHANE Blake		472880	WALKER, DERRICK W		267871
WILLIAMS, DONALD Wade		482811						

Equipment

HES Unit #	*Distance-1 way*	HES Unit #	*Distance-1 way*	HES Unit #	*Distance-1 way*	HES Unit #	*Distance-1 way*
10248059	220 mile	10572545	220 mile	10714600C	220 mile	10822555	220 mile
10829453	220 mile	11056349	220 mile	11259879	220 mile		

Job Hours

Date	*On Location Hours*	Operating Hours	Date	*On Location Hours*	Operating Hours	Date	*On Location Hours*	Operating Hours
TOTAL			*Total is the sum of each column separately*					

Job

Formation Name			
Formation Depth (MD)	**Top**	**Bottom**	
Form Type		**BHST**	
Job depth MD	9030. ft	**Job Depth TVD**	
Water Depth		**Wk Ht Above Floor**	4. ft
Perforation Depth (MD)	*From*	**To**	

Job Times

	Date	Time	Time Zone
Called Out	24 - Dec - 2010	16:00	MST
On Location	24 - Dec - 2010	22:00	MST
Job Started	25 - Dec - 2010	11:18	MST
Job Completed	30 - Dec - 2010	05:47	MST
Departed Loc	30 - Dec - 2010	07:00	MST

Well Data

Description	New / Used	Max pressure psig	Size in	ID in	Weight lbm/ft	Thread	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft
8 1/2" Production Hole				8.5				8257.	9100.		
Cement Plug #2								8200.	8600.		
Cement Plug #3								4295.	4395.		
Surface Cement Plug								5.	55.		

HALLIBURTON

Cementing Job Summary

Description	New / Used	Max pressure	Size in	ID in	Weight lbm/ft	Thread	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft
9 7/8" Casing	Unknown		9.875	8.625	62.8		P-110	.	8257.		
5" Drillpipe	Unknown		5.	4.5		IF		.	3845.		
5" Drillpipe	Unknown		5.	4.5		IF		.	8050.		
5" Drillpipe	Unknown		5.	4.5	16.25	IF		.	8550.		
2 7/8" Stinger	Unknown		2.875	2.259	8.6			3845.	4395.		
2 7/8" Stinger	Unknown		2.875	2.259	8.6			8050.	8600.		
2 7/8" Stinger	Unknown		2.875	2.259	8.6			8550.	9100.		
2 7/8" Stinger	Unknown		2.875	2.259	8.6	IF		.	55.		

Tools and Accessories

Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth	Type	Size	Qty	Make
Guide Shoe					Packer					Top Plug			
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container			
Stage Tool										Centralizers			

Miscellaneous Materials

Gelling Agt		Conc		Surfactant		Conc		Acid Type		Qty		Conc	%
Treatment Fld		Conc		*Inhibitor*		Conc		Sand Type		*Size*		*Qty*	

Fluid Data

Stage/Plug #: 1

Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density lbm/gal	Yield ft3/sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
1	TUNED SPACER III	TUNED SPACER III - SBM (483826)	33.00	bbl	13.	.0	.0	.0	
2	Plug - PlugCem #1	PLUGCEM (TM) SYSTEM (452969)	143.0	sacks	15.8	1.52	6.22		6.22
	6.216 Gal	FRESH WATER							
3	TUNED SPACER III	TUNED SPACER III - SBM (483826)	3.00	bbl	13.	.0	.0	.0	
4	Displacement Mud		131.00	bbl	12.8			.0	

Stage/Plug #: 2

Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density uom	Yield uom	Mix Fluid uom	Rate uom	Total Mix Fluid uom
1	TUNED SPACER III	TUNED SPACER III - SBM (483826)	27.00	bbl	13.	.0	.0	.0	

Cementing Job Summary

Stage/Plug #: 2									
Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density lbm/gal	Yield ft3/sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
2	Plug - PlugCem #1	PLUGCEM (TM) SYSTEM (452969)	115.0	sacks	15.8	1.52	6.22		6.22
	6.216 Gal	FRESH WATER							
3	TUNED SPACER III	TUNED SPACER III - SBM (483826)	2.00	bbl	13.	.0	.0	.0	
4	Displacement Mud		123.00	bbl	12.8			.0	

Stage/Plug #: 3									
Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density uom	Yield uom	Mix Fluid uom	Rate uom	Total Mix Fluid uom
1	Fresh Water		67.00	bbl	8.34	.0	.0	.0	
2	PlugCem	PLUGCEM (TM) SYSTEM (452969)	115.0	sacks	15.8	1.52	6.22		6.22
	35 %	SAND-SSA-1 - SILICA FLOUR, 100 LB (100005059)							
	0.4 %	HR-5, 50 LB SK (100005050)							
	6.216 Gal	FRESH WATER							
3	Fresh Water			bbl	8.34	.0	.0	.0	
4	Lease Water		115.00	bbl	8.44			.0	

Stage/Plug #: 4									
Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density uom	Yield uom	Mix Fluid uom	Rate uom	Total Mix Fluid uom
1	Fresh Water		74.00	bbl	8.34	.0	.0	.0	
2	PlugCem	PLUGCEM (TM) SYSTEM (452969)	100.0	sacks	15.8	1.15	4.99		4.99
	4.989 Gal	FRESH WATER							
3	Fresh Water		10.00	bbl	8.34	.0	.0	.0	
4	Lease Water		47.00	bbl	8.44			.0	
5	Plug Cem #5	CMT - PREMIUM - CLASS G, 94 LB SK (100003685)	112.0	sacks	15.8	1.15	4.99		4.99
	94 lbm	CMT - PREMIUM - CLASS G REG OR TYPE V, BULK (100003685)							
	4.989 Gal	FRESH WATER							

Calculated Values		Pressures		Volumes					
Displacement		Shut In: Instant		Lost Returns		Cement Slurry		Pad	
Top Of Cement		5 Min		Cement Returns		Actual Displacement		Treatment	
Frac Gradient		15 Min		Spacers		Load and Breakdown		Total Job	

Rates							
Circulating		Mixing		Displacement		Avg. Job	

Cement Left In Pipe	Amount	40 ft	Reason	Shoe Joint

Frac Ring # 1 @	ID	Frac ring # 2 @	ID	Frac Ring # 3 @	ID	Frac Ring # 4 @	ID

The Information Stated Herein Is Correct	Customer Representative Signature

PIONEER NATURAL RESOURCES
SOUTH HILLS FEDERAL 6-1
LOT 46, SEC 6, T16S, R1W
JUAB COUNTY, UT

API NO. 43-023-30021
LEASE NO. UTU-84003

Notification :
09: 24 hrs., Dec . 23, 2010
Obtained verbal approval to " P & A", per " Mr. Randy Knight" with BLM.
He stated he was aware of approval ,from Eric Jones', no problem .
He will not witness, send reports as dictated in rules & regulations.

09:35 hrs., Dec. 23, 2010
Obtained verbal approval to " P & A", per " Mr. Dustin Doucet" with "UDOGM".
He stated if " BLM" approved , no problem, proceed ahead, send reports.

Note : 12/26/2010 at 17:12 hours, Obtained verbal approval per "Mr. Randy Knight ", to set another plug on top of second P & A plug, to obtain, correct amount of cement plug to meet and or exceed BLM requirements.

First plug @ Td of 9,030' :
Held Safety ,and Operational meeting with Halliburton,and Nabor's crew.
Set first 500', " P & A" plug from 9,030' - 8,530' , per " BLM" requiremnts .
Note : Silicia flour in blend for staic temp of + 230 deg.
Note : + 10% over calculated volume, was utilized in calculations.
Cementing company : Halliburton , plug as below:
R/U ,and tested lines to 4,000 psi, tested positive.
Pumped : 32.45 bbls of 13.0 ppg., Tuned spacer III ahead, followed with 143 sks. of Class H + .4% HR- 5, 35% SSA-1

RECEIVED January 07, 2011

Yield : 1.52 gal/sk., water : 6.22 gal/sk., slurry wt. : 15.8 ppg., slurry volume : 38.6 bbls.
Pumped : 2.5 bbls of 13.0 ppg.,Tuned Spacer III behind.
Displaced with 130 bbls of 9.0 ppg. oil base mud .
Plug in place @ 12:51 hrs., 12/25/2010, from 9,030' - 8,530' .

Second plug :
Held Safety ,and Operational meeting with Halliburton,and Nabor's crew.
Set second 400', " P & A" plug from 8,530' - 8,130' , per " BLM" requirements .
Note : Silicia flour in blend for staic temp of + 230 deg.
Note : + 10% over calculated volume, was utilized in calculations.
Cementing company : Halliburton , plug as below:
R/U ,and tested lines to 4,000 psi, tested positive.
Pumped : 35 bbls of 13.0 ppg., Tuned spacer III ahead, followed with 113 sks. of Class H + .4% HR- 5, 35% SSA-1
Yield : 1.52 gal/sk., water : 6.22 gal/sk., slurry wt. : 15.8 ppg., slurry volume : 30.6 bbls.
Pumped : 7.87 bbls of 13.0 ppg.,Tuned Spacer III behind.
Displaced with 123 bbls of 9.0 ppg. oil base mud .
Plug in place @ 17:30 hrs., 12/25/2010, from 8,530' - 8,130' .
Total of first two plugs : 900' plug, set from : 9,030' - 8,130'....
Note : On second plug, Halliburton computer , was inoperable....

Third plug (due to second plug inter phase ,too short) :
Held Safety ,and Operational meeting with Halliburton,and Nabor's crew.
Set third 400', " P & A" plug from 8,326' - 7,926 , to exceed " BLM" requirements .
Cementing company : Halliburton , plug as below:
R/U ,and tested lines to 4,000 psi, tested positive.
Pumped : 67 bbls of " FW" ahead, followed with 115 sks. of Class H + .4% HR- 5, 35% SSA-1
Yield : 1.52 gal/sk., water : 6.22 gal/sk., slurry wt. : 15.8 ppg., slurry volume : 31 bbls.
Pumped : 10 bbls. of "FW' behind behind.
Displaced with 115 bbls of 9.9 ppg. brine water, with gel & biocide .
Plug in place @ 08:30 hrs., 12/27/2010, from 8,326' - 7,926' (400').

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Note : On third plug, Halliburton computer , was operable ....

Fourth Plug (at shoe of surface 13 3/8" , extra plug set to exceed BLM req.):
Held Safety ,and Operational meeting with Halliburton,and Nabor's crew.
Note : air lines on Halliburton truck frozen, (current : 10 degreees), defrost same, prior to pumping job.
Set fourth P & A plug : 276', " P & A" plug from 4,415' - 4,139' , to exceed " BLM" requirements .
Cementing company : Halliburton , plug as below:
R/U ,and tested lines to 4,000 psi, tested positive.
Pumped : 74 bbls of " FW" ahead, followed with 100 sks. of Class H Neat.
Yield : 1.15 gal/sk., water : 4.99 gal/sk., slurry wt. : 15.8 ppg., slurry volume : 20.4 bbls.
Pumped : 10 bbls. of "FW' behind behind.
Displaced with 47 bbls of 9.9 ppg. brine water, with gel & biocide .
Plug in place @ 03:50 hrs., 12/28/2010, from 4,415' - 4,139' (276').
Note : On fourth plug, Halliburton computer , was operable ....

Fifth plug @ Surface We set extra plug to exceed BLM Req., also set 50' inside of the 9 7/8" stump) :
Held Safety , and Operational meeting with Halliburton,and Nabor's crew.
Set fifth P & A plug : 105', " P & A" plug from 105' - 5' , below the ground level,to exceed " BLM" requirements .
Cementing company : Halliburton , plug as below:
R/U ,and tested lines to 2,000 psi, tested positive.
Pumped : 2 bbls of " FW" ahead, followed with 64 sks. of Class H Neat.
Yield : 1.15 gal/sk., water : 4.99 gal/sk., slurry wt. : 15.8 ppg., slurry volume : 13 - bbls.
Pumped : 1 bbls. of "FW' behind behind.
Plug in place @ 05:30 hrs., 12/30/2010, from 105' to 5' below ground level. (105').
Final surface plug. Calculated + 10 % excess for BLM, requirements.

**** A temporary plate was welded over the 13 3/8" ,
cellar will have to be dug out at least + 2', to obtain a cut off , 5' below ground level.

**** The 13 3/8" x 30" annulus is filled with cement, from the top job, after running the 13 3/8".