

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

FORM 3

AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL				1. WELL NAME and NUMBER NBU 921-17H		
2. TYPE OF WORK DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>				3. FIELD OR WILDCAT NATURAL BUTTES		
4. TYPE OF WELL Gas Well Coalbed Methane Well: NO				5. UNIT or COMMUNITIZATION AGREEMENT NAME NATURAL BUTTES		
6. NAME OF OPERATOR KERR-MCGEE OIL & GAS ONSHORE, L.P.				7. OPERATOR PHONE 720 929-6587		
8. ADDRESS OF OPERATOR P.O. Box 173779, Denver, CO, 80217				9. OPERATOR E-MAIL mary.mondragon@anadarko.com		
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) UTU 0575		11. MINERAL OWNERSHIP FEDERAL <input checked="" type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>		12. SURFACE OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input checked="" type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>		
13. NAME OF SURFACE OWNER (if box 12 = 'fee')				14. SURFACE OWNER PHONE (if box 12 = 'fee')		
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')				16. SURFACE OWNER E-MAIL (if box 12 = 'fee')		
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN') Ute Tribe		18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input checked="" type="checkbox"/> (Submit Commingling Application) NO <input type="checkbox"/>		19. SLANT VERTICAL <input checked="" type="checkbox"/> DIRECTIONAL <input type="checkbox"/> HORIZONTAL <input type="checkbox"/>		
20. LOCATION OF WELL	FOOTAGES	QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN
LOCATION AT SURFACE	2100 FNL 553 FEL	SENE	17	9.0 S	21.0 E	S
Top of Uppermost Producing Zone	2100 FNL 553 FEL	SENE	17	9.0 S	21.0 E	S
At Total Depth	2100 FNL 553 FEL	SENE	17	9.0 S	21.0 E	S
21. COUNTY UINTAH		22. DISTANCE TO NEAREST LEASE LINE (Feet) 553		23. NUMBER OF ACRES IN DRILLING UNIT 1600		
		25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 1200		26. PROPOSED DEPTH MD: 10400 TVD: 10400		
27. ELEVATION - GROUND LEVEL 4809		28. BOND NUMBER WYB000291		29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE Permit #43-8496		

ATTACHMENTS

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

<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER	<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN
<input type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)	<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER
<input type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)	<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP

NAME Danielle Piernot	TITLE Regulatory Analyst	PHONE 720 929-6156
SIGNATURE	DATE 08/27/2009	EMAIL danielle.piernot@anadarko.com
API NUMBER ASSIGNED 43047507020000	APPROVAL  Permit Manager	

Proposed Hole, Casing, and Cement

String	Hole Size	Casing Size	Top (MD)	Bottom (MD)		
Prod	7.875	4.5	0	10400		
Pipe	Grade	Length	Weight			
	Grade HCP-110 LT&C	800	11.6			
	Grade I-80 Buttress	9600	11.6			

Proposed Hole, Casing, and Cement

String	Hole Size	Casing Size	Top (MD)	Bottom (MD)		
Surf	12.25	9.625	0	2750		
Pipe	Grade	Length	Weight			
	Grade J-55 LT&C	2750	36.0			

T9S, R21E, S.L.B.&M.

Found 2006
Aluminum Cap
in Pile of Stones.

S89°57.0'W - 40.075 (G.L.O.)
N89°58'32"W - 2645.06' (Meas.)

N89°50.1'W - 40.073 (G.L.O.)
N89°45'51"W - 2644.91' (Meas.)

Found 2006
Aluminum Cap in
Pile of Stones

N0°02.1'W - 39.975 (G.L.O.)
N00°02'23"E - 2638.47' (Meas.)

Found 2006
Aluminum Cap in Pile
of Stones with T Post
on East edge.

2100'

**WELL LOCATION:
NBU 921-17H**

ELEV. UNGRADED GROUND = 4808.8'

Proposed Well → 553'

N00°09'03"E (Basis of Bearings)
2649.93' (Measured)
N0°05.1'E - 40.148 (G.L.O.)

Found 2006
Aluminum Cap
in Pile of Stones.

17

Found 2006
Aluminum Cap
in Pile of Stones.

N0°08.6'W - 40.320 (G.L.O.)
N00°03'52"W - 2661.19' (Meas.)

NBU 921-17H (Proposed Well Head)
NAD 83 LATITUDE = 40.037608° (40° 02' 15.389")
LONGITUDE = 109.568160° (109° 34' 05.375")
NAD 27 LATITUDE = 40.037644° (40° 02' 15.517")
LONGITUDE = 109.567470° (109° 34' 02.893")

N00°01'53"W - 2647.25' (Meas.)
N0°06.0'W - 40.110 (G.L.O.)

Found 2006
Aluminum Cap
in Pile of Stones

N89°54'13"W - 2634.82' (Meas.)
N89°58.7'W - 39.921 (G.L.O.)

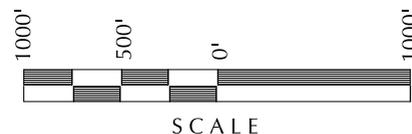
N89°53'24"W - 2648.44' (Meas.)
N89°57.5'W - 40.129 (G.L.O.)

Found 2006
Aluminum Cap with
Set Stone North of
Cap

Found 2006
Aluminum Cap in
Pile of Stones

NOTES:

- ▲ = Section Corners Located
- 1. Well footages are measured at right angles to the Section Lines.
- 2. G.L.O. distances are shown in feet or chains.
1 chain = 66 feet.
- 3. Bearings are based on Global Positioning Satellite observations.
- 4. Basis of elevation is Tri-Sta "Two Water" located in the NW ¼ of Section 1, T10S, R21E, S.L.B.&M. The elevation of this Tri-Sta is shown on the Big Pack Mtn NE 7.5 Min. Quadrangle as being 5238'.



SURVEYOR'S CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE 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.

Kolby R. Kay
REG. LAND SURVEYOR
No. 362251
KOLBY R. KAY
STATE OF UTAH
REGISTERED LAND SURVEYOR
REGISTRATION No. 362251
STATE OF UTAH

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD - NBU 921-17H

**NBU 921-17H
WELL PLAT
2100' FNL, 553' FEL
SE ¼ NE ¼ OF SECTION 17, T9S, R21E,
S.L.B.&M., UTAH COUNTY, UTAH.**



609 CONSULTING, LLC
371 Coffeen Avenue
Sheridan WY 82801
Phone 307-674-0609
Fax 307-674-0182

TIMBERLINE (435) 789-1365
ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

DATE SURVEYED: 04-10-09	SURVEYED BY: D.J.S.	SHEET NO: 1 1 OF 9
DATE DRAWN: 04-13-09	DRAWN BY: M.W.W.	
SCALE: 1" = 1000'		Date Last Revised:

NBU 921-17H

Surface: 2,100' FNL 553' FEL (SE/4NE/4)
Sec. 17 T9S R21E

Uintah, Utah
Mineral Lease: UTU 0575

ONSHORE ORDER NO. 1

DRILLING PROGRAM

**1. – 2. Estimated Tops of Important Geologic Markers:
Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations:**

<u>Formation</u>	<u>Depth</u>	<u>Resource</u>
Uinta	0 – Surface	
Green River	1,728'	
Birds Nest	2,034'	Water
Mahogany	2,547'	Water
Wasatch	5,155'	Gas
Mesaverde	8,162'	Gas
MVU2	9,102'	Gas
MVL1	9,668'	Gas
TD	10,400'	

3. Pressure Control Equipment (Schematic Attached)

Please refer to the attached Drilling Program.

4. Proposed Casing & Cementing Program:

Please refer to the attached Drilling Program.

5. Drilling Fluids Program:

Please refer to the attached Drilling Program.

6. Evaluation Program:

Please refer to the attached Drilling Program.

7. Abnormal Conditions:

Maximum anticipated bottomhole pressure calculated at 10,400' TD, approximately equals 6,479 psi (calculated at 0.62 psi/foot).

Maximum anticipated surface pressure equals approximately 4,191 psi (bottomhole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

8. Anticipated Starting Dates:

Drilling is planned to commence immediately upon approval of this application.

9. Variances:

Please refer to the attached Drilling Program.

Onshore Order #2 – Air Drilling Variance

Kerr-McGee Oil & Gas Onshore LP (KMG) respectfully requests a variance to several requirements associated with air drilling outlined in Onshore Order 2

- *Blowout Prevention Equipment (BOPE) requirements;*
- *Mud program requirements; and*
- *Special drilling operation (surface equipment placement) requirements associated with air drilling.*

This Standard Operating Practices addendum provides supporting information as to why KMG current air drilling practices for constructing the surface casing hole should be granted a variance to Onshore Order 2 air drilling requirements.

The reader should note that the air rig is used only to construct a stable surface casing hole through a historically difficult lost circulation zone. A conventional rotary rig follows the air rig, and is used to drill and construct the majority of the wellbore.

More notable, KMG has used the air rig layout and procedures outlined below to drill the surface casing hole in approximately 675 wells without incident of blow out or loss of life.

Background

In a typical well, KMG utilizes an air rig for drilling the surface casing hole, an interval from the surface to surface casing depths, which varies in depth from 1,700 to 2,800 feet. The air rig drilling operation does not drill through productive or over pressured formations in KMG field, but does penetrate the Uinta and Green River Formations. The purpose of the air drilling operation is to overcome the severe loss circulation zone in the Green River known as the Bird's Nest while creating a stable hole for the surface casing. The surface casing hole is generally drilled to approximately 500 feet below the Bird's Nest.

Before the surface air rig is mobilized, a rathole rig is utilized to set and cement conductor pipe through a competent surface formation. Generally, the conductor is set at 40 feet. In some cases, conductor may be set deeper in areas that the surface formation is not found

competent. This rig also drills the rat and mouse holes in preparation for the surface casing and production string drilling operations.

The air rig is then mobilized to drill the surface casing hole by drilling a 12-1/4 inch hole to just above the Bird's Nest interval with an air hammer. The hammer is then tripped and replaced with a 12-1/4 inch tri-cone bit. The tri-cone bit is used to drill to the surface casing point, approximately 500 feet below the loss circulation zone (Bird's Nest). The 9-5/8 inch surface casing is then run and cemented in place, thereby isolating the lost circulation zone.

KMG fully appreciates Onshore Order 2 well control and safety requirements associated with a typical air drilling operations. However, the requirements of Onshore Order 2 are excessive with respect to the air rig layout and drilling operation procedures that are currently in practice to drill and control the surface casing hole in KMG Fields.

Variance for BOPE Requirements

The air rig operation utilizes a properly lubricated and maintained air bowl diverter system which diverts the drilling returns to a six-inch blooie line. The air bowl is the only piece of BOPE equipment which is installed during drilling operations and is sufficient to contain the air returns associated with this drilling operation. As was discussed earlier, the drilling of the surface hole does not encounter any over pressured or productive zones, and as a result standard BOPE equipment should not be required. In addition, standard drilling practices do not support the use of BOPE on 40 feet of conductor pipe.

Variance for Mud Material Requirements

Onshore Order 2 also states that sufficient quantities of mud materials shall be maintained or readily accessible for the purpose of assuring adequate well control. Once again, the surface hole drilling operations does not encounter over pressured or productive intervals, and as a result there is not a need to control pressure in the surface hole with a mud system. Instead of mud, the air rigs utilize water from the reserve pit for well control, if necessary. A skid pump which is located near the reserve pit (see attachment) will supply the water to the well bore.

Variance for Special Drilling Operation (surface equipment placement) Requirements

Onshore Order 2 requires specific safety distances or setbacks for the placement of associated standard air drilling equipment, wellbore, and reserve pits. The air rigs used to drill the surface holes are not typical of an air rig used to drill a producing hole in other parts of the US. These are smaller in nature and designed to fit a KMG location. The typical air rig layout for drilling surface hole in the field is attached.

Typically the blooie line discharge point is required to be 100 feet from the well bore. In the case of a KMG well, the reserve pit is only 45 feet from the rig and is used for the drill cuttings. The blooie line, which transports the drill cuttings from the well to the reserve pit, subsequently discharges only 45 feet from the well bore.

Typically the air rig compressors are required to be located in the opposite direction from the blooie line and a minimum of 100 feet from the well bore. At the KMG locations, the air rig compressors are approximately 40 feet from the well bore and approximately 60 feet from the blooie line discharge due to the unique air rig design. The air compressors (see

attachment) are located on the rig (1250 cfm) and on a standby trailer (1170 cfm). A booster sits between the two compressors and boosts the output from 350 psi to 2000 psi. The design does put the booster and standby compressor opposite from the blooie line.

Lastly, Onshore Order 2 addresses the need for an automatic igniter or continuous pilot light on the blooie line. The air rig does not utilize an igniter as the surface hole drilling operation does not encounter productive formations.

Variance for FIT Requirements

KMG also respectfully requests a variance to Onshore Order 2, Section III, Part Bi, for the pressure integrity test (PIT, also known as a formation integrity test (FIT)). The air rig operation utilizes a 5M BOPE when drilling. This well is not an exploratory well and is being drilled in an area where the formation integrity is well known. Additionally, when an FIT is run with the mud weight as required, the casing shoe frequently breaks down and causes subsequent lost circulation when drilling the entire depth of the well.

Conclusion

The air rig operating procedures and the attached air rig layout have effectively maintained well control while drilling the surface holes in KMG Fields. KMG respectfully requests a variance from Onshore Order 2 with respect to air drilling well control requirements as discussed above.

10. Other Information:

Please refer to the attached Drilling Program.



KERR-McGEE OIL & GAS ONSHORE LP DRILLING PROGRAM

CASING PROGRAM

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS		
						BURST	COLLAPSE	TENSION
CONDUCTOR	14"	0-40'				3,520	2,020	453,000
SURFACE	9-5/8"	0 to 2750	36.00	J-55	LTC	0.82*	1.57	4.58
PRODUCTION	4-1/2"	0 to 9600	11.60	I-80	BTC	7,780	6,350	278,000
		9600 to 10400	11.60	HCP-110	LTC	1.81	1.04	2.83
						10,690	8,650	279,000
						2.48	1.31	36.95

*Burst on surface casing is controlled by fracture gradient as shoe with gas gradient above. D.F. = 2.03

- 1) Max Anticipated Surf. Press. (MASP) (Surf Csg) = (Pore Pressure at next csg point - (0.22 psi/ft-partial evac grad x TVD of next csg point))
 (Burst Assumptions: TD = 12.2 ppg) 0.22 psi/ft = gradient for partially evac wellbore
 (Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)
MASP 4,191 psi
- 2) MASP (Prod Casing) = Pore Pressure at TD - (0.22 psi/ft-partial evac gradient x TD)
 (Burst Assumptions: TD = 12.2 ppg) 0.62 psi/ft = bottomhole gradient
 (Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)
MABHP 6,479 psi
- 3) Maximum Anticipated Bottom Hole Pressure (MABHP) = Pore Pressure at TD
 (Burst Assumptions: TD = 12.2 ppg) 0.62 psi/ft = bottomhole gradient
 (Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)
MABHP 6,479 psi

CEMENT PROGRAM

	FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE LEAD	500'	Premium cmt + 2% CaCl + 0.25 pps flocele	215	60%	15.60	1.18
Option 1 TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt + 2% CaCl + 0.25 pps flocele Premium cmt + 2% CaCl	380	0%	15.60	1.18
NOTE: If well will circulate water to surface, option 2 will be utilized						
SURFACE LEAD	2,250'	Prem cmt + 16% Gel + 10 pps gilsonite + 0.25 pps Flocele + 3% salt BWOC	250	35%	11.00	3.82
TAIL	500'	Premium cmt + 2% CaCl + 0.25 pps flocele	180	35%	15.60	1.18
TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
PRODUCTION LEAD	4,650'	Premium Lite II + 0.25 pps celloflake + 5 pps gilsonite + 10% gel ' + 1% Retarder	450	40%	11.00	3.38
TAIL	5,750'	50/50 Poz/G + 10% salt + 2% gel + 0.1% R-3	1410	40%	14.30	1.31

*Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained
 *Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained

FLOAT EQUIPMENT & CENTRALIZERS

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe.
PRODUCTION	Float shoe, 1 jt, float collar. Centralize first 3 joints & every third joint for a total of 15 bow spring centralizers.

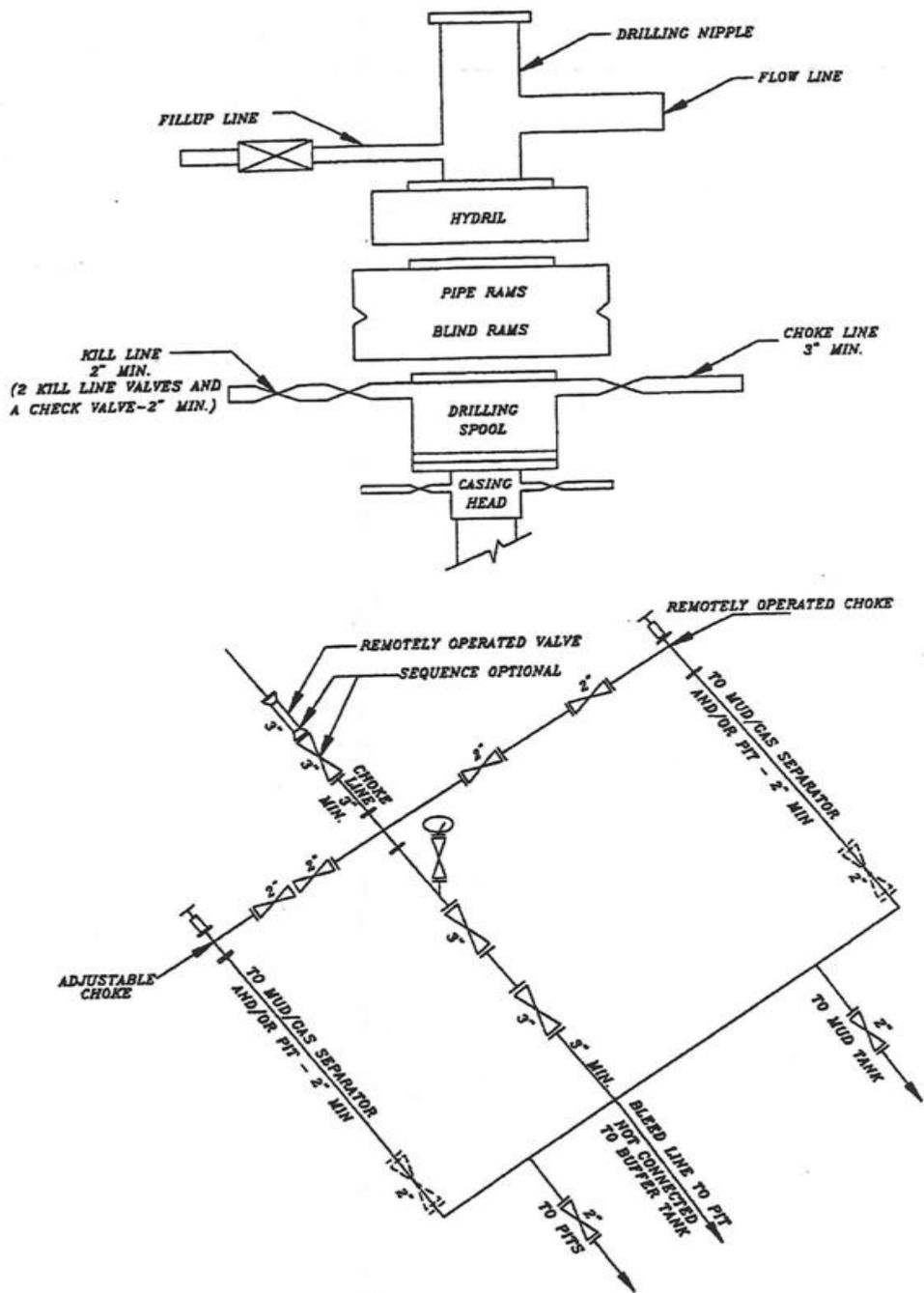
ADDITIONAL INFORMATION

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.
 BOPE: 11" 5M with one annular and 2 rams. The BOPE will be installed before the production hole is drilled and tested to 5,000 psi (annular to 2,500 psi) prior to drilling out the surface casing shoe. Record on chart recorder and tour sheet. Function test rams on each trip. Maintain safety valve and inside BOP on rig floor at all times. Most rigs have top drives; however, if used, the Kelly is to be equipped with upper and lower kelly valves.
 Drop Totco surveys every 2000'. Maximum allowable hole angle is 5 degrees.
 Most rigs have PVT Systems for mud monitoring. If no PVT is available, visual monitoring will be utilized.

DRILLING ENGINEER: _____ DATE: _____
 John Huycke / Emile Goodwin

DRILLING SUPERINTENDENT: _____ DATE: _____
 John Merkel / Lovel Young

EXHIBIT A NBU 921-17H



SCHMATIC DIAGRAM OF 5,000 PSI BOP STACK

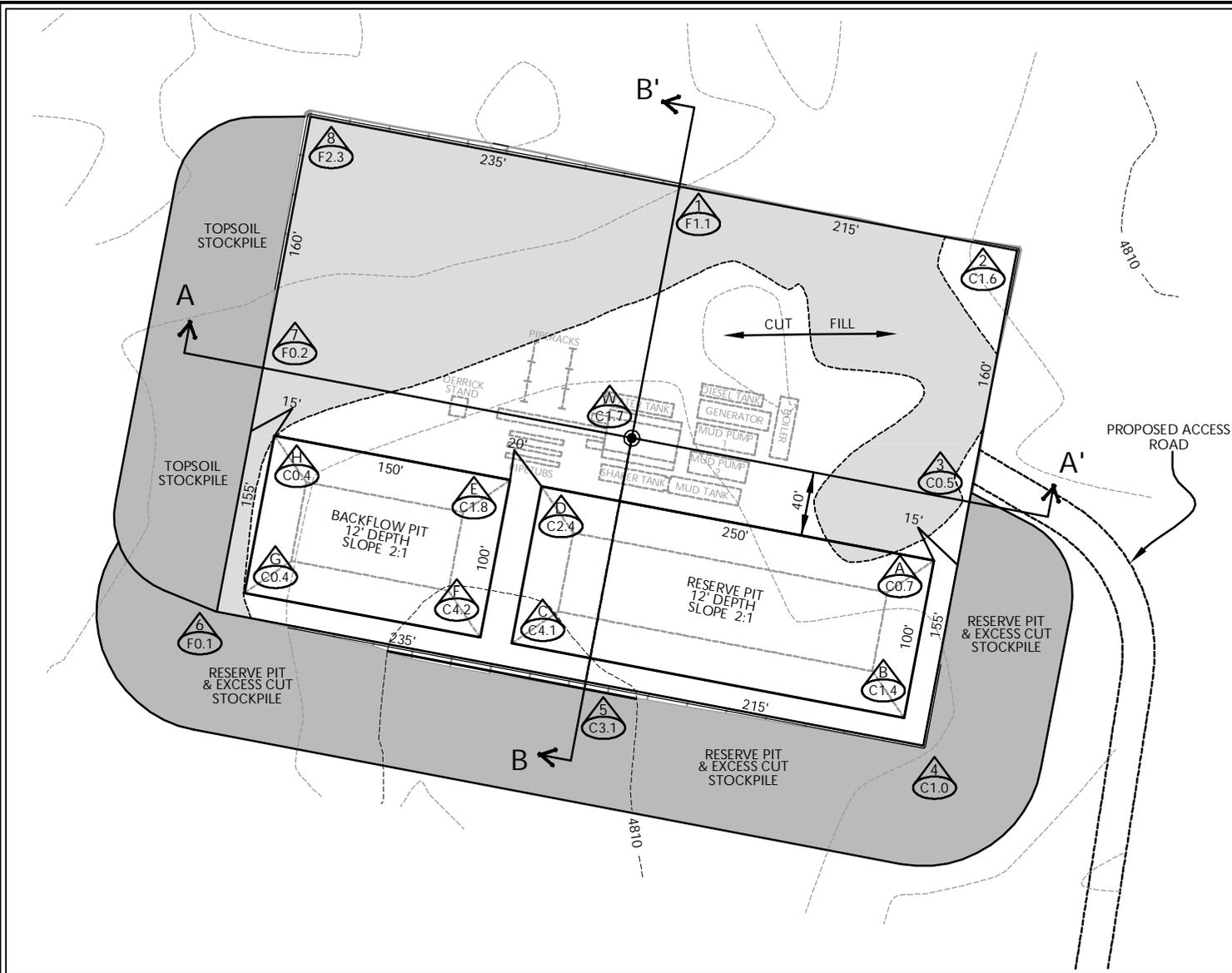
WELL PAD LEGEND

- WELL LOCATION
- - - EXISTING CONTOURS (2' INTERVAL)
- PROPOSED CONTOURS (2' INTERVAL)

WELL PAD NBU 921-17H QUANTITIES

EXISTING GRADE @ LOC. STAKE = 4808.8'
 FINISHED GRADE ELEVATION = 4807.1'
 CUT SLOPES = 1.5:1
 FILL SLOPES = 1.5:1

TOTAL CUT FOR WELL PAD = 2,978 C.Y.
 TOTAL FILL FOR WELL PAD = 2,612 C.Y.
 TOPSOIL @ 6" DEPTH = 2,688 C.Y.
 EXCESS MATERIAL = 366 C.Y.
 TOTAL DISTURBANCE = 3.33 ACRES
 SHRINKAGE FACTOR = 1.10
 SWELL FACTOR = 1.00
 RESERVE PIT CAPACITY (2' OF FREEBOARD)
 +/- 28,730 BARRELS
 RESERVE PIT VOLUME
 +/- 7,720 CY
 BACKFLOW PIT CAPACITY (2' OF FREEBOARD)
 +/- 15,900 BARRELS
 BACKFLOW PIT VOLUME
 +/- 4,350 CY



Kerr-McGee Oil & Gas Onshore, LP
 1099 18th Street - Denver, Colorado 80202

WELL PAD - NBU 921-17H

WELL PAD - LOCATION LAYOUT
 NBU 921-17H
 2100' FNL, 553' FEL
 SE1/4 NE1/4 SECTION 17, T.9S., R.21E.
 S.L.B.&M., Uintah County, Utah



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 371 Coffeen Avenue
 Sheridan WY 82801
 Phone 307-674-0609
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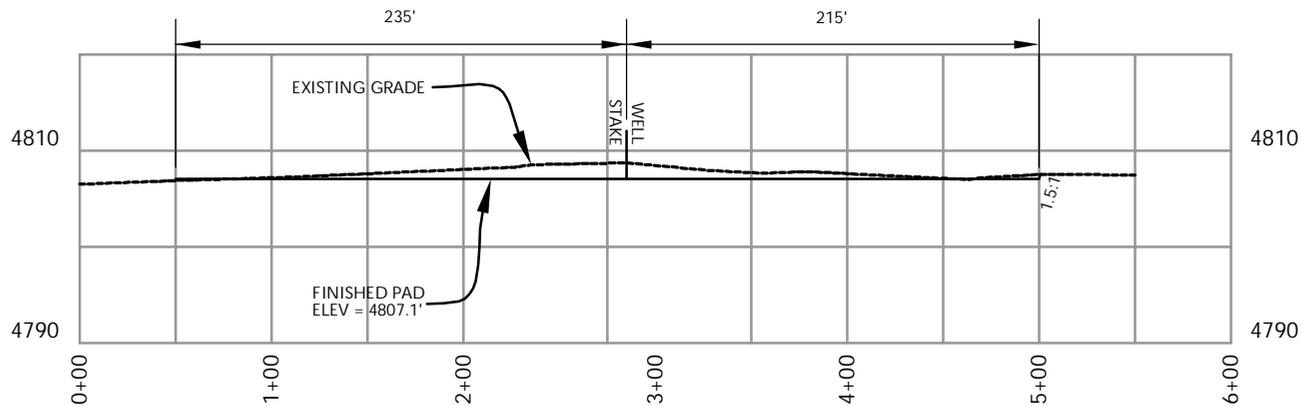
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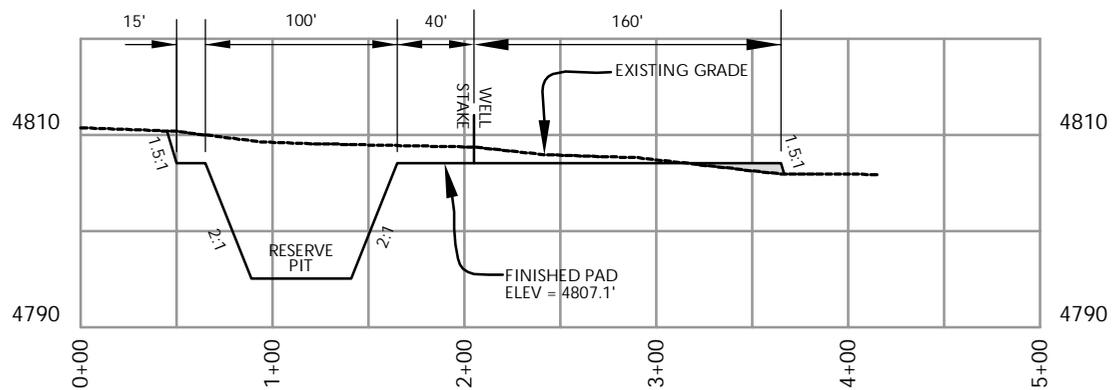
HORIZONTAL 0 50 100 1" = 100'
 2' CONTOURS

TIMBERLINE (435) 789-1365
ENGINEERING & LAND SURVEYING, INC.
 209 NORTH 300 WEST - VERNAL, UTAH 84078

API Well No: 43047507020000
 K:\ANADARKO\2009_08_NBU_Tribal_3D\WGS\NBU_921-17H\DWG_0631_4172009 930559.dwg



CROSS SECTION A-A'



CROSS SECTION B-B'

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD - NBU 921-17H

WELL PAD - LOCATION LAYOUT
NBU 921-17H

2100' FNL, 553' FEL
SE1/4 NE1/4 SECTION 17, T.9S., R.21E.
S.L.B.&M., Uintah County, Utah



CONSULTING, LLC
371 Coffeen Avenue
Sheridan WY 82801
Phone 307-674-0609
Fax 307-674-0182



Scale: 1"=100'

Date: 4/16/09

SHEET NO:

3

3 OF 9

TIMBERLINE (435) 789-1365
ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

REVISED:









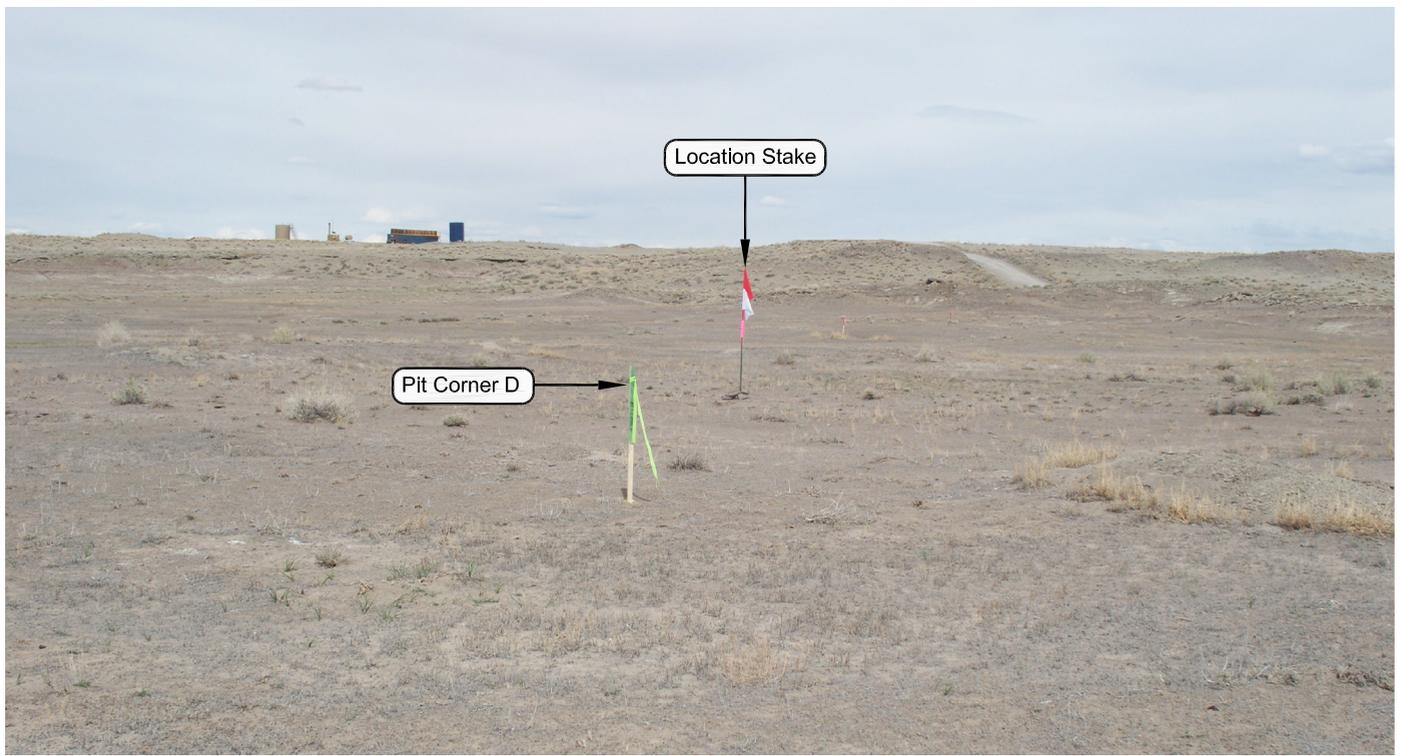


PHOTO VIEW: FROM PIT CORNER D TO LOCATION STAKE

CAMERA ANGLE: NORTHEASTERLY



PHOTO VIEW: FROM BEGINNING OF PROPOSED ROAD

CAMERA ANGLE: NORTHERLY

Kerr-McGee Oil & Gas Onshore, LP
 1099 18th Street - Denver, Colorado 80202

Well Pad - NBU 921-17H

**NBU 921-17H
 LOCATION PHOTOS
 2100' FNL, 553' FEL
 SE ¼ NE ¼ OF SECTION 17, T9S, R21E,
 S.L.B.&M., UINTAH COUNTY, UTAH.**



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 371 Coffeen Avenue
 Sheridan WY 82801
 Phone 307-674-0609
 Fax 307-674-0182

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 ENGINEERING & LAND SURVEYING, INC.
 209 NORTH 300 WEST - VERNAL, UTAH 84078

DATE PHOTOS TAKEN: 04-10-09	PHOTOS TAKEN BY: D.J.S.	SHEET NO: 4
DATE DRAWN: 04-13-09	DRAWN BY: M.W.W.	
Date Last Revised:		4 OF 9

Kerr-McGee Oil & Gas Onshore, LP
WELL PAD - NBU 921-17H
WELL – NBU 921-17H
Section 17, T9S, R21E, S.L.B.&M.

PROCEED IN A WESTERLY DIRECTION FROM VERNAL, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 13.9 MILES TO THE JUNCTION OF STATE HIGHWAY 88. EXIT LEFT AND PROCEED IN A SOUTHERLY DIRECTION ALONG STATE HIGHWAY 88 APPROXIMATELY 16.8 MILES TO OURAY, UTAH. FROM OURAY, PROCEED IN A SOUTHERLY DIRECTION ALONG THE SEEP RIDGE ROAD (COUNTY B ROAD 2810) APPROXIMATELY 11.2 MILES TO THE INTERSECTION OF THE GLEN BENCH ROAD (COUNTY B ROAD 3260). EXIT LEFT AND PROCEED IN AN EASTERLY, THEN SOUTHEASTERLY, THEN NORTHEASTERLY DIRECTION ALONG THE GLEN BENCH ROAD APPROXIMATELY 11.4 MILES TO A CLASS D COUNTY ROAD TO THE SOUTHWEST. EXIT LEFT AND PROCEED IN A SOUTHWESTERLY DIRECTION ALONG THE CLASS D COUNTY ROAD APPROXIMATELY 1.8 MILES TO A SECOND CLASS D COUNTY ROAD TO THE NORTH. EXIT RIGHT AND PROCEED IN A NORTH BY NORTHWEST DIRECTION ALONG THE SECOND CLASS D COUNTY ROAD APPROXIMATELY 0.3 MILES TO A THIRD CLASS D COUNTY ROAD TO THE NORTH. EXIT RIGHT AND PROCEED IN A NORTHERLY, THEN NORTHEASTERLY, THEN NORTHERLY DIRECTION ALONG THE THIRD CLASS D COUNTY ROAD APPROXIMATELY 2.0 MILES TO A SERVICE ROAD TO THE SOUTHWEST. EXIT LEFT AND PROCEED IN A SOUTHWESTERLY, THEN NORTHWESTERLY DIRECTION ALONG THE SERVICE ROAD APPROXIMATELY 1.7 MILES TO THE PROPOSED ACCESS ROAD. FOLLOW ROAD FLAGS IN A NORTHERLY DIRECTION APPROXIMATELY 450 FEET TO THE PROPOSED WELL LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 59.2 MILES IN A SOUTHERLY DIRECTION.

NBU 921-17H

Surface: 2,100' FNL 553' FEL (SE/4NE/4)
Sec. 17 T9S R21E

Uintah, Utah
Mineral Lease: UTU 0575

Surface Owner: Ute Indian Tribe

ONSHORE ORDER NO. 1

***MULTI-POINT SURFACE USE & OPERATIONS PLAN
SUBMITTED WITH SITE-SPECIFIC INFORMATION***

This Application for Permit to Drill (APD) is filed under the Notice of Staking (NOS) process as stated in Onshore Order No. 1 (OSO #1) and supporting Bureau of Land Management (BLM) and Bureau of Indian Affairs (BIA) documents. An NOS was submitted showing the surface location in SE/4 NE/4 of Section 17 T9S R21E.

This Surface Use Plan of Operations (SUPO) or 13-point plan provides the site-specific information for the above-referenced wells. This information is to be incorporated by reference into the Master Development Plan (MDP) for Kerr-McGee Oil & Gas Onshore LP (Kerr-McGee). The MDP is available upon request from the BIA-Ft Duchesne Office.

An on-site meeting is scheduled for September 1-3, 2009. Please contact Raleen White at 720-929-6666 for any questions.

A. Existing Roads:

- A) Refer to Topo Map A for directions to the location.
- B) Refer to Topo Maps A and B for location of access roads within a 2-mile radius.

B. Planned Access Roads:

See MDP for additional details on road construction.

Approximately $\pm 450'$ (± 0.09 miles) of new access road is proposed. Please refer to the attached Topo Map B. No pipelines will be crossed with the new construction.

Existence of pipelines; maximum grade; turnouts; major cut and fills, culverts, or bridges; gates, cattle guards, fence cuts, or modifications to existing facilities were determined at the on-site and are typically shown on the attached Exhibits and Topo maps.

C. Location of Existing Wells Within a 1-Mile Radius:

Please refer to Topo Map C.

D. Location of Existing and Proposed Facilities:

See MDP for additional details on Existing and Proposed Facilities.

The following guidelines will apply if the well is productive.

Approximately ±835' (±0.16 miles) of pipeline is proposed. Refer to Topo D for the existing pipeline. Appropriate surface use agreements have been or will be obtained from the Ute Indian Tribe. Pipeline segments will be welded or zaplocked together on disturbed areas in or near the location, whenever possible, and dragged into place

E. Location and Type of Water Supply:

See MDP for additional details on Location and Type of Water Supply.

Water for drilling purposes will be obtained from one of the following sources:

- Dalbo Inc.'s underground well located in Ouray, Utah, Sec. 32 T4S R3E, Water User Claim number 43-8496, application number 53617.
- Price Water Pumping Inc. Green River and White River, various sources, Water Right Number 49-1659, application number: a35745.

No water well is to be drilled on this lease.

F. Source of Construction Materials:

See MDP for additional details on Source of Construction Materials.

G. Methods of Handling Waste Materials:

See MDP for additional details on Methods of Handling Waste Materials.

Any produced water from the proposed well will be contained in a water tank and will then be hauled by truck to one of the pre-approved disposal sites:

- RNI in Sec. 5 T9S R22E
- NBU #159 in Sec. 35 T9S R21E
- Ace Oilfield in Sec. 2 T6S R20E
- MC&MC in Sec. 12 T6S R19E
- Pipeline Facility in Sec. 36 T9S R20E
- Goat Pasture Evaporation Pond in SW/4 Sec. 16 T10S R22E
- Bonanza Evaporation Pond in Sec. 2 T10S R23E

H. Ancillary Facilities:

See MDP for additional details on Ancillary Facilities.

None are anticipated.

I. Well Site Layout: (See Location Layout Diagram)

See MDP for additional details on Well Site Layout.

All pits will be fenced according to the following minimum standards:

- Net wire (39-inch) will be used with at least one strand of barbed wire on top of the net wire. Barbed wire is not necessary if pipe or some type of reinforcement rod is attached to the top of the entire fence.
- The net wire shall be no more than two inches above the ground. The barbed wire shall be three inches over the net wire. Total height of the fence shall be at least 42 inches.
- Corner posts shall be cemented and/or braced in such a manner to keep the fence tight at all times.
- Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any 2 fence posts shall be no greater than 16 feet.
- All wire shall be stretched, by using a stretching device, before it is attached to corner posts.

J. Plans for Reclamation of the Surface:

See MDP for additional details on Plans for Reclamation of the Surface.

Kerr-McGee shall call the BIA for the seed mixture prior to starting interim and/or final reclamation actions.

K. Surface/Mineral Ownership:

The well pad and access road are located on lands owned by:

Ute Indian Tribe
PO Box 70
Fort Duchesne, Utah 84026
435-722-5141

The mineral ownership is listed below:

United States of America
Bureau of Land Management
170 South 500 East
Vernal, UT 84078
435-781-4400

L. Other Information:

See MDP for additional details on Other Information.

M. Lessee's or Operators' Representative & Certification:

Kathy Schneebeck Dulnoan
Regulatory Analyst
Kerr-McGee Oil & Gas Onshore LP
PO Box 173779
Denver, CO 80217-3779
(720) 929-6007

Tommy Thompson
General Manager, Drilling
Kerr-McGee Oil & Gas Onshore LP
PO Box 173779
Denver, CO 80217-3779
(720) 929-6724

Certification: 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 will be fully responsible for the actions of its subcontractors. A complete copy of the approved "Application for Permit to Drill" will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

Kerr-McGee Oil & Gas Onshore LP is considered to be the operator of the subject well. Kerr-McGee Oil & Gas Onshore LP agrees to be responsible under terms and conditions of the lease for the operations conducted upon leased lands.

Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by Bureau of Land Management Nationwide Bond WYB000291.

I hereby certify that I, or persons under my supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions that currently exist; that I have full knowledge of the State and Federal laws applicable to this operation; that the statements made in this plan are, to the best of my knowledge, true and correct; and 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 operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.



Kathy Schneebeck Dulnoan

August 27, 2009

Date

CLASS I REVIEW OF KERR-MCGEE OIL & GAS
ONSHORE LP'S 51 PROPOSED WELL LOCATIONS
(T9S, R21E, SECTIONS 7, 8, 10, 11, 12,
17, 18, 19, 20, 23, 25, AND 30)
IN UINTAH COUNTY, UTAH

By:

Jacki A. Montgomery

Prepared For:

Ute Tribal Land
Uintah and Ouray Agency

Bureau of Land Management
Vernal Field Office

Prepared Under Contract With:

Kerr-McGee Oil & Gas Onshore LP
1368 South 1200 East
Vernal, Utah 84078

Prepared By:

Montgomery Archaeological Consultants, Inc.
P.O. Box 219
Moab, Utah 84532

MOAC Report No. 09-39

May 11, 2009

United States Department of Interior (FLPMA)
Permit No. 09-UT-60122

Public Lands Policy Coordination Office
Archaeological Survey Permit No. 117

Ute Tribal Permit No. A09-363

IPC #09-75

Paleontological Reconnaissance Survey Report

**Survey of Kerr McGee's Proposed Well Pads, Access Roads &
Pipelines for "NBU #921-8N, 17G & H, 20B, C & G"
(Sec. 8, 16, 17 & 20, T 9 S, R 21 E)**

Ouray SE
Topographic Quadrangle
Uintah County, Utah

June 10, 2009

Prepared by Stephen D. Sandau
Paleontologist for
Intermountain Paleo-Consulting
P. O. Box 1125
Vernal, Utah 84078



Grasslands Consulting, Inc.

4800 Happy Canyon Road, Suite 110, Denver, CO 80237

(303) 759-5377 Office (303) 759-5324 Fax

SPECIAL STATUS PLANT AND WILDLIFE SPECIES REPORT

Report #: GCI #61

Operator: Kerr-McGee Oil & Gas Onshore LP

Wells: NBU 921-17B, NBU 921-17C, NBU921-17D, NBU 921-17F, NBU921-17G, NBU921-17H

Pipelines: Associated pipelines to proposed well pads

Access Roads: Associated access roads to proposed well pads

Location: Section 17, Township 9 South, Range 21 East; Uintah County, Utah

Survey-Species: Uinta Basin Hookless Cactus (*Sclerocactus wetlandicus*) and nesting raptors

Date: 06/24/2009

Observer(s): Grasslands Consulting, Inc. Biologists: Dan Hamilton, Jay Slocum, Matt Kelahan, and Jonathan Sexauer. Technician: Chad Johnson

Weather: Partly cloudy, 75-90°F, 0-15 mph winds with no precipitation.

United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office
 P.O. Box 45155
 Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:
3160
(UT-922)

August 28, 2009

Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2009 Plan of Development Natural Buttes Unit Uintah County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2009 within the Natural Buttes Unit, Uintah County, Utah.

API #	WELL NAME	LOCATION
(Proposed PZ WASATCH-MESA VERDE)		
43-047-50640	NBU 1022-8B1DS	Sec 08 T10S R22E 0931 FNL 1709 FEL
	BHL	Sec 08 T10S R22E 0367 FNL 1518 FEL
43-047-50641	NBU 1022-8B4AS	Sec 08 T10S R22E 0919 FNL 1693 FEL
	BHL	Sec 08 T10S R22E 0744 FNL 1518 FEL
43-047-50642	NBU 1022-8C1AS	Sec 08 T10S R22E 0943 FNL 1725 FEL
	BHL	Sec 08 T10S R22E 0102 FNL 2415 FWL
43-047-50643	NBU 1022-8C1CS	Sec 08 T10S R22E 0955 FNL 1742 FEL
	BHL	Sec 08 T10S R22E 0418 FNL 2252 FWL
43-047-50644	NBU 922-30C3S	Sec 30 T09S R22E 1253 FNL 0663 FWL
	BHL	Sec 30 T09S R22E 1238 FNL 1154 FWL
43-047-50645	NBU 922-30D3AS	Sec 30 T09S R22E 1232 FNL 0607 FWL
	BHL	Sec 30 T09S R22E 0680 FNL 0382 FWL
43-047-50646	NBU 921-30C3CS	Sec 30 T09S R21E 0783 FNL 0920 FWL
	BHL	Sec 30 T09S R21E 0993 FNL 1985 FWL
43-047-50647	NBU 921-30D2DS	Sec 30 T09S R21E 0747 FNL 0871 FWL
	BHL	Sec 30 T09S R21E 0460 FNL 0665 FWL

API #	WELL NAME	LOCATION
(Proposed PZ WASATCH-MESA VERDE)		
43-047-50648	NBU 921-30D3DS	Sec 30 T09S R21E 0759 FNL 0887 FWL BHL Sec 30 T09S R21E 1152 FNL 0665 FWL
43-047-50649	NBU 921-30E2AS	Sec 30 T09S R21E 0771 FNL 0903 FWL BHL Sec 30 T09S R21E 1522 FNL 0665 FWL
43-047-50650	NBU 1022-7N1S	Sec 07 T10S R22E 0089 FSL 1920 FEL BHL Sec 07 T10S R22E 0895 FSL 1870 FWL
43-047-50651	NBU 1022-7N4S	Sec 07 T10S R22E 0097 FSL 1938 FEL BHL Sec 07 T10S R22E 0595 FSL 1740 FWL
43-047-50652	NBU 1022-7O4AS	Sec 07 T10S R22E 0081 FSL 1902 FEL BHL Sec 07 T10S R22E 0550 FSL 1560 FEL
43-047-50653	NBU 1022-7O4DS	Sec 07 T10S R22E 0074 FSL 1883 FEL BHL Sec 07 T10S R22E 0230 FSL 1650 FEL
43-047-50655	NBU 922-30D3DS	Sec 30 T09S R22E 1226 FNL 0588 FWL BHL Sec 30 T09S R22E 1314 FNL 0352 FWL
43-047-50656	NBU 922-30E2AS	Sec 30 T09S R22E 1246 FNL 0645 FWL BHL Sec 30 T09S R22E 1636 FNL 0352 FWL
43-047-50678	NBU 922-31G4BS	Sec 31 T09S R22E 2317 FSL 0188 FEL BHL Sec 31 T09S R22E 1994 FNL 1808 FEL
43-047-50679	NBU 922-31G4CS	Sec 31 T09S R22E 2316 FSL 0198 FEL BHL Sec 31 T09S R22E 2353 FNL 1796 FEL
43-047-50680	NBU 922-31I1AS	Sec 31 T09S R22E 2317 FSL 0178 FEL BHL Sec 31 T09S R22E 2483 FSL 0243 FEL
43-047-50681	NBU 922-31I1DS	Sec 31 T09S R22E 2317 FSL 0168 FEL BHL Sec 31 T09S R22E 2137 FSL 0264 FEL
43-047-50682	NBU 921-12J	Sec 12 T09S R21E 1959 FSL 2051 FEL
43-047-50684	NBU 1022-6I3AS	Sec 06 T10S R22E 1160 FSL 1584 FEL BHL Sec 06 T10S R22E 1684 FSL 1167 FEL
43-047-50685	NBU 1022-6J4CS	Sec 06 T10S R22E 1178 FSL 1593 FEL BHL Sec 06 T10S R22E 1535 FSL 1760 FEL
43-047-50686	NBU 1022-6O1BS	Sec 06 T10S R22E 1124 FSL 1567 FEL BHL Sec 06 T10S R22E 1197 FSL 1811 FEL

API #	WELL NAME	LOCATION
(Proposed PZ WASATCH-MESA VERDE)		
43-047-50687	NBU 1022-6P1CS	Sec 06 T10S R22E 1142 FSL 1575 FEL BHL Sec 06 T10S R22E 0989 FSL 0541 FEL
43-047-50691	NBU 921-29A3AS	Sec 29 T09S R21E 0299 FNL 2630 FEL BHL Sec 29 T09S R21E 0700 FNL 0885 FEL
43-047-50692	NBU 921-29A3DS	Sec 29 T09S R21E 0303 FNL 2628 FWL BHL Sec 29 T09S R21E 1193 FNL 0885 FEL
43-047-50694	NBU 921-29A2AS	Sec 29 T09S R21E 0296 FNL 2611 FEL BHL Sec 29 T09S R21E 0209 FNL 0885 FEL
43-047-50693	NBU 921-29B2CS	Sec 29 T09S R21E 0307 FNL 2608 FWL BHL Sec 29 T09S R21E 0443 FNL 2635 FEL
43-047-50695	NBU 921-12N	Sec 12 T09S R21E 0441 FSL 2236 FWL
43-047-50698	NBU 921-19F	Sec 19 T09S R21E 2236 FNL 2285 FWL
43-047-50699	NBU 921-17C	Sec 17 T09S R21E 0656 FNL 2004 FWL
43-047-50700	NBU 921-17D	Sec 17 T09S R21E 0985 FNL 0418 FWL
43-047-50701	NBU 921-17G	Sec 17 T09S R21E 1500 FNL 2262 FEL
43-047-50702	NBU 921-17H	Sec 17 T09S R21E 2100 FNL 0553 FEL
43-047-50703	NBU 921-18P	Sec 18 T09S R21E 1080 FSL 0197 FEL
43-047-50704	NBU 921-19E	Sec 19 T09S R21E 2061 FNL 0842 FWL

This office has no objection to permitting the wells at this time.

/s/ Michael L. Coulthard

bcc: File – Natural Buttes Unit
 Division of Oil Gas and Mining
 Central Files
 Agr. Sec. Chron

Fluid Chron

MCoulthard:mc:8-28-09

API Number: 4304750702

Well Name: NBU 921-17H

Township 09.0 S Range 21.0 E Section 17

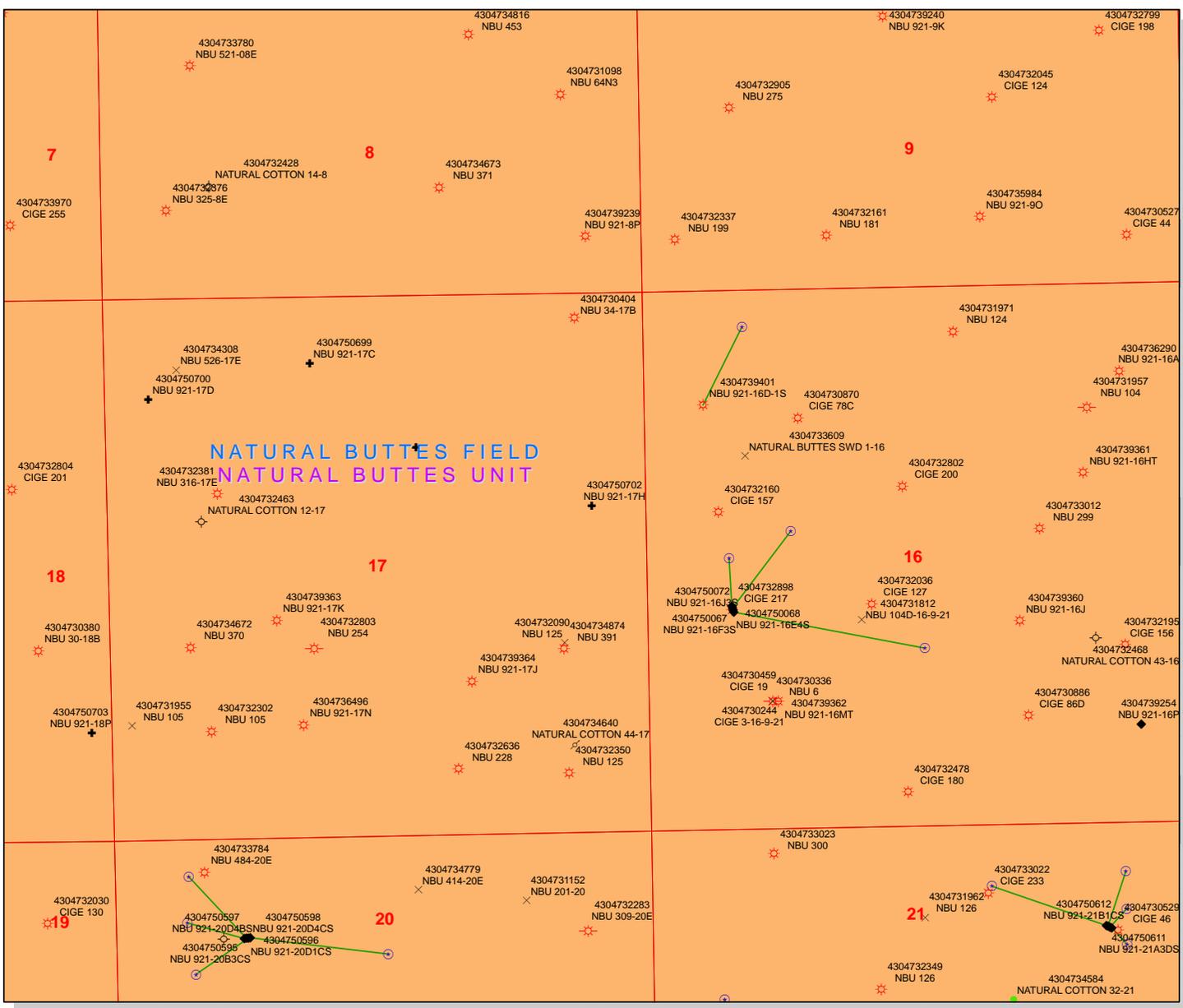
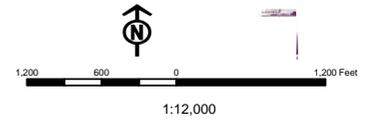
Meridian: SLBM

Operator: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Map Prepared:

Map Produced by Diana Mason

Units	Wells Query Events
STATUS	<all other values>
ACTIVE	APD
EXPLORATORY	DRL
GAS STORAGE	GI
NF PP OIL	GS
NF SECONDARY	LA
PI OIL	NEW
PP GAS	OPS
PP GEOTHERMIL	PA
PP OIL	PGW
SECONDARY	POW
TERMINATED	RET
Fields	SGW
ACTIVE	SOW
COMBINED	TA
Sections	TW
	WD
	WI
	WS



WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 8/27/2009

API NO. ASSIGNED: 43047507020000

WELL NAME: NBU 921-17H

OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P. (N2995)

PHONE NUMBER: 720 929-6156

CONTACT: Danielle Piernot

PROPOSED LOCATION: SENE 17 090S 210E

Permit Tech Review:

SURFACE: 2100 FNL 0553 FEL

Engineering Review:

BOTTOM: 2100 FNL 0553 FEL

Geology Review:

COUNTY: UINTAH

LATITUDE: 40.03756

LONGITUDE: -109.56744

UTM SURF EASTINGS: 622222.00

NORTHINGS: 4432699.00

FIELD NAME: NATURAL BUTTES

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU 0575

PROPOSED PRODUCING FORMATION(S): WASATCH-MESA VERDE

SURFACE OWNER: 2 - Indian

COALBED METHANE: NO

RECEIVED AND/OR REVIEWED:

- PLAT
- Bond: FEDERAL - WYB000291
- Potash
- Oil Shale 190-5
- Oil Shale 190-3
- Oil Shale 190-13
- Water Permit: Permit #43-8496
- RDCC Review:
- Fee Surface Agreement
- Intent to Commingle

Commingle Approved

LOCATION AND SITING:

- R649-2-3.
Unit: NATURAL BUTTES
- R649-3-2. General
- R649-3-3. Exception
- Drilling Unit
Board Cause No: Cause 173-14
Effective Date: 12/2/1999
Siting: 460' fr u bdry & uncomm. tract
- R649-3-11. Directional Drill

Comments: Presite Completed

Stipulations: 3 - Commingle - ddoucet
4 - Federal Approval - dmason
17 - Oil Shale 190-5(b) - dmason



JON M. HUNTSMAN, JR.
Governor

GARY R. HERBERT
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

Permit To Drill

Well Name: NBU 921-17H
API Well Number: 43047507020000
Lease Number: UTU 0575
Surface Owner: INDIAN
Approval Date: 9/1/2009

Issued to:

KERR-MCGEE OIL & GAS ONSHORE, L.P., P.O. Box 173779, Denver, CO 80217

Authority:

Pursuant to Utah Code Ann. §40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 173-14. The expected producing formation or pool is the WASATCH-MESA VERDE Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:

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

Commingle:

In accordance with Board Cause No. 173-14, commingling of the production from the Wasatch formation and the Mesaverde formation in this well is allowed.

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.

Conditions of Approval:

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

In accordance with the Order in Cause No. 190-5(b) dated October 28, 1982, the operator shall comply with the requirements of Rules R649-3-31 and R649-3-27 pertaining to Designated Oil Shale Areas. Additionally, the operators shall ensure that the surface and or production casing is properly cemented over the entire oil shale section as defined by Rule R649-3-31. The Operator shall report the actual depth the oil shale is encountered to the division.

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 leave a voicemail message if not available)

OR

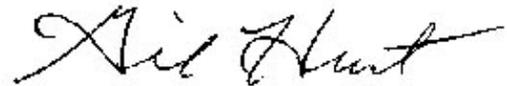
submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website at <https://oilgas.ogm.utah.gov>

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 to:

- 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

Approved By:

A handwritten signature in black ink, appearing to read "Gil Hunt", with a stylized flourish at the end.

Gil Hunt
Associate Director, Oil & Gas

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: UTU 0575
---	---

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: Ute Tr
1. TYPE OF WELL Gas Well	7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES	
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	8. WELL NAME and NUMBER: NBU 921-17H	
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6007 Ext	9. API NUMBER: 43047507020000
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2100 FNL 0553 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENE Section: 17 Township: 09.0S Range: 21.0E Meridian: S	9. FIELD and POOL or WILDCAT: NATURAL BUTTES	
		COUNTY: UINTAH
		STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 8/31/2010	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input checked="" type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

Kerr-McGee Oil & Gas Onshore, L.P. (Kerr-McGee) respectfully requests an extension to this APD for the maximum time allowed. Please contact the undersigned with any questions and/or comments. Thank you.

Approved by the Utah Division of Oil, Gas and Mining

Date: August 31, 2010

By:

NAME (PLEASE PRINT) Danielle Piernot	PHONE NUMBER 720 929-6156	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 8/31/2010	



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43047507020000

API: 43047507020000

Well Name: NBU 921-17H

Location: 2100 FNL 0553 FEL QTR SENE SEC 17 TWNP 090S RNG 210E MER S

Company Permit Issued to: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Date Original Permit Issued: 9/1/2009

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

- If located on private land, has the ownership changed, if so, has the surface agreement been updated? Yes No
- Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? Yes No
- Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? Yes No
- Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location? Yes No
- Has the approved source of water for drilling changed? Yes No
- Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? Yes No
- Is bonding still in place, which covers this proposed well? Yes No

Approved by the Utah Division of Oil, Gas and Mining

Signature: Danielle Piernot

Date: 8/31/2010

Title: Regulatory Analyst Representing: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Date: August 31, 2010

By: [Signature]

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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AUG 27 2009

FORM APPROVED
OMB No. 1004-0136
Expires July 31, 2010

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. UTU0575
1b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name
2. Name of Operator KERRMCGEE OIL&GAS ONSHORE LP		7. If Unit or CA Agreement, Name and No. 891008900A
Contact: DANIELLE E PIERNOT Email: Danielle.Piernot@anadarko.com		8. Lease Name and Well No. NBU 921-17H
3a. Address PO BOX 173779 DENVER, CO 80202-3779	3b. Phone No. (include area code) Ph: 720-929-6156 Fx: 720-929-7156	9. API Well No. 43 0A7 5D702
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface SENE 2100FNL 553FEL 40.03761 N Lat, 109.56816 W Lon At proposed prod. zone SENE 2100FNL 553FEL 40.03761 N Lat, 109.56816 W Lon		10. Field and Pool, or Exploratory NATURAL BUTTES
14. Distance in miles and direction from nearest town or post office* APPROXIMATELY 29 MILES SOUTHEAST OF OURAY, UTAH		11. Sec., T., R., M., or Blk. and Survey or Area Sec 17 T9S R21E Mer SLB
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 553 FEET	16. No. of Acres in Lease 1600.00	12. County or Parish UINTAH
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. APPROXIMATELY 1200 FEET	19. Proposed Depth 10400 MD 10400 TVD	13. State UT
21. Elevations (Show whether DF, KB, RT, GL, etc.) 4809 GL	22. Approximate date work will start 09/14/2009	17. Spacing Unit dedicated to this well
		20. BLM/BIA Bond No. on file WYB000291
		23. Estimated duration 60-90 DAYS

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

- Well plat certified by a registered surveyor.
- A Drilling Plan.
- A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).
- Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- Operator certification
- Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature (Electronic Submission)	Name (Printed/Typed) DANIELLE E PIERNOT Ph: 720-929-6156	Date 08/27/2009
Title REGULATORY ANALYST		
Approved by (Signature)	Name (Printed/Typed) James H. Sparger	NOV 03 2010 NOV 03 2010
Title Acting Assistant Field Manager Lands & Mineral Resources	Office VERNAL FIELD OFFICE	

Application approval does not warrant or certify the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached. **CONDITIONS OF APPROVAL ATTACHED**

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Additional Operator Remarks (see next page)

Electronic Submission #73721 verified by the BLM Well Information System
For KERRMCGEE OIL&GAS ONSHORE LP, sent to the Vernal
Committed to AFMSS for processing by ROBIN R. HANSEN on 08/28/2009.()

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** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED **

NOTICE OF APPROVAL





**UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
VERNAL FIELD OFFICE**

170 South 500 East

VERNAL, UT 84078

(435) 781-4400



CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company:	Kerr McGee Oil & Gas Onshore, LP	Location:	SENE, Sec. 17, T9S, R21E
Well No:	NBU 921-17H	Lease No:	UTU-0575
API No:	43-047-50702	Agreement:	Natural Buttes Unit

OFFICE NUMBER: (435) 781-4400

OFFICE FAX NUMBER: (435) 781-3420

**A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR
FIELD REPRESENTATIVE TO INSURE COMPLIANCE**

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. **This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.**

NOTIFICATION REQUIREMENTS

Construction Activity (Notify Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist)	-	The Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist shall be notified at least 48 hours in advance of any construction activity. The Ute Tribal office is open Monday through Thursday.
Construction Completion (Notify Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist)	-	Upon completion of the pertinent APD/ROW construction, notify the Ute Tribe Energy & Minerals Dept. for a Tribal Technician to verify the Affidavit of Completion. Notify the BLM Environmental Scientist prior to moving on the drilling rig.
Spud Notice (Notify BLM Petroleum Engineer)	-	Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify BLM Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to running casing and cementing all casing strings to: ut_vn_opreport@blm.gov .
BOP & Related Equipment Tests (Notify BLM Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify BLM Petroleum Engineer)	-	Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

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**SURFACE USE PROGRAM
CONDITIONS OF APPROVAL (COAs)**

Site-Specific Conditions of Approval:

1. Paint facilities "shadow gray."
2. Use pit run gravel to support the well pad/access road
3. Construct low water crossing at base/beginning of the access road.
4. Monitor by a permitted paleontologist during the construction process.
5. Monitor location by a permitted archaeologist during the construction process.
6. In accordance with the guidelines specified in the Guidelines for Raptor Protection from Human and Land Use Disturbances, a raptor survey shall be conducted prior to construction of the proposed location, pipeline, or access road if construction will take place during raptor nesting season (January 01 through September 30). If active raptor nest are identified during a new survey, KMG shall conduct its Basin-specific RMP guidelines and spatial offsets specified by the USFWS Utah Raptor Guidelines (see Appendix D). The USFWS and BLM recommend a ¼-mile avoidance buffer surrounding active burrowing owl nest between March 1 and Aug 31.
7. If project construction operations are scheduled to occur after on or after June 24, 2010, KMG will conduct additional biological surveys in accordance with the guidelines specified in the USFWS Rare Plant Conservation Measures for Uinta Basin hookless cactus (See Appendix D) and conduct its operation according to its specifications.

BIA Standard Conditions of Approval:

1. Soil erosion will be mitigated by reseeding all disturbed areas.
2. The gathering pipelines will be constructed to lie on the surface. The surface pipelines will not be bladed or cleared of vegetation. Where pipelines are constructed parallel to roads they may be welded on the road and then lifted from the road onto the right-of-way. Where pipelines do not parallel roads but cross-country between sites, they shall be welded in place at well sites or on access roads and then pulled between stations with a suitable piece of equipment. Traffic will be restricted along these areas so that the pipeline right-of-way will not be used as an access road.
3. An open drilling system shall be used, unless otherwise specified in 10.0 Additional Stipulations of this document and in the Application for Permit to Drill. A closed drilling system shall be used in all flood plain areas, and other highly sensitive areas, recommended by the Ute Tribe Technician, BIA, and other agencies involved.
4. The reserve pit shall be lined with a synthetic leak proof liner. After the drilling operation is complete, excess fluids shall be removed from the reserve pit and either hauled to an approved disposal site or shall be used to drill other wells. When the fluids are removed the pit shall be backfilled a minimum of 3.0' below the soil surface elevation.
5. A closed production system shall be used. This means all produced water and oil field fluid wastes shall be contained in leak proof tanks. These fluids shall be disposed of in either approved injection wells or disposal pits.
6. Major low water crossings will be armored with pit run material to protect them from erosion.
7. All personnel shall refrain from collecting any paleontological fossils and from disturbing any fossil resources in the area.

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8. If fossils are exposed or identified during construction, all construction must cease and immediate notification to the Energy and Minerals Department and the Cultural Rights Protection Officer.
9. Before the site is abandoned the company will be required to restore the right-of-way to near its original state. The disturbed area will be reseeded with desirable perennial vegetation. If necessary, the Bureau of Indian Affairs or Bureau of Land Management will provide a suitable seed mixture.
10. Noxious weeds will be controlled on all surface disturbances within the project area. If noxious weeds spread from the project area onto adjoining land, the company will also be responsible for their control.
11. If project construction operations are scheduled to occur after December 31, 2009, KMG shall conduct annual raptor surveys in accordance with the guidelines specified in the Utah Field Office Guidelines for Raptor Protection from Human and Land Use Disturbances, 2002 (See Appendix E) and conduct its operations according to applicable seasonal restrictions and spatial offsets.
12. USFWS threatened and endangered plant and animal conservation measures will be followed, as appropriate to the species identified by the biological resource survey (See Appendix E).
13. All personnel shall refrain from collecting artifacts and from disturbing any significant cultural resources in the area.
14. If artifacts or any culturally sensitive materials are exposed or identified during construction, all construction must cease and immediate notification to the Energy and Minerals Department and the Cultural Rights Protection Officer.

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**DOWNHOLE PROGRAM
CONDITIONS OF APPROVAL (COAs)**

SITE SPECIFIC DOWNHOLE COAs:

A copy of Kerr McGee's Standard Operating Practices (SOP version: dated 07/17/08 and approved 07/28/08) shall be on location.

A variance is granted to the operators APD request to not conduct a pressure integrity test (also known as a formation integrity test – FIT) covering 5M BOPE systems, as covered in Onshore Order #2 Drilling Operations III. B.i. "pressure integrity test of each casing shoe".

All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to. The following items are emphasized:

DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- **Cement baskets shall not be run on surface casing.**

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- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.
- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- **Please submit an electronic copy of all other logs run on this well in LAS format to UT_VN_Wellogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.**
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

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OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- In accordance with 43 CFR 3162.4-3, this well shall be reported on the "Monthly Report of Operations" (Oil and Gas Operations Report ((OGOR)) starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report shall be filed in duplicate, directly with the Minerals Management Service, P.O. Box 17110, Denver, Colorado 80217-0110, or call 1-800-525-7922 (303) 231-3650 for reporting information.
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
 - Operator name, address, and telephone number.
 - Well name and number.
 - Well location (¼¼, Sec., Twn, Rng, and P.M.).
 - Date well was placed in a producing status (date of first production for which royalty will be paid).
 - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
 - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
 - Unit agreement and/or participating area name and number, if applicable.
 - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.

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- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.
- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.

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- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

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STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: UTU 0575
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: Ute Tr
1. TYPE OF WELL Gas Well	7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	8. WELL NAME and NUMBER: NBU 921-17H
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	9. API NUMBER: 43047507020000
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2100 FNL 0553 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENE Section: 17 Township: 09.0S Range: 21.0E Meridian: S	9. FIELD and POOL or WILDCAT: NATURAL BUTTES COUNTY: UINTAH STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA	

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 4/12/2011	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input checked="" type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 50px;" type="text"/>

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

Kerr-McGee Oil & Gas Onshore, L.P. (Kerr-McGee) respectfully requests to change the total depth (TD) to include the Blackhawk formation, which is in the Mesaverde group for this well. In addition, Kerr-McGee respectfully request approval in the well design, which includes hole and casing size changes. Please see attached for additional details. Please contact the undersigned if you have any questions and/or comments. Thank you.

**Approved by the
Utah Division of
Oil, Gas and Mining**

Date: 04/14/2011
By: 

NAME (PLEASE PRINT) Andy Lytle	PHONE NUMBER 720 929-6100	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 4/12/2011	



KERR-McGEE OIL & GAS ONSHORE LP
DRILLING PROGRAM

CASING PROGRAM

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS			
						BURST	COLLAPSE	LTC	BTC
								TENSION	
CONDUCTOR	14"	0-40'							
						3,390	1,880	348,000	N/A
SURFACE	8-5/8"	0 to 2,900	28.00	IJ-55	LTC	1.86	1.39	4.89	N/A
						10,690	8,650	279,000	367,000
PRODUCTION	4-1/2"	0 to 11,536	11.60	HCP-110	LTC or BTC	1.19	1.11	2.60	3.42

Surface casing:

(Burst Assumptions: TD = 13.0 ppg) 0.73 psi/ft = frac gradient @ surface shoe

Fracture at surface shoe with 0.1 psi/ft gas gradient above

(Collapse Assumption: Fully Evacuated Casing, Max MW)

(Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

Production casing:

(Burst Assumptions: Pressure test with 8.4ppg @ 9000 psi) 0.66 psi/ft = bottomhole gradient

(Collapse Assumption: Fully Evacuated Casing, Max MW)

(Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE	LEAD	500'	Premium cmt + 2% CaCl	180	60%	15.80	1.15
			+ 0.25 pps flocele				
	TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt	270	0%	15.80	1.15
			+ 2% CaCl + 0.25 pps flocele				
SURFACE		NOTE: If well will circulate water to surface, option 2 will be utilized					
	LEAD	2,400'	65/35 Poz + 6% Gel + 10 pps gilsonite	220	35%	11.00	3.82
			+ 0.25 pps Flocele + 3% salt BWOW				
	TAIL	500'	Premium cmt + 2% CaCl	150	35%	15.80	1.15
			+ 0.25 pps flocele				
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.80	1.15
PRODUCTION	LEAD	4,666'	Premium Lite II +0.25 pps	340	10%	11.00	3.38
			celloflake + 5 pps gilsonite + 10% gel				
			+ 0.5% extender				
	TAIL	6,870'	50/50 Poz/G + 10% salt + 2% gel	1,320	10%	14.30	1.31
			+ 0.1% R-3				

*Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained

*Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained

FLOAT EQUIPMENT & CENTRALIZERS

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe
PRODUCTION	Float shoe, 1 jt, float collar. No centralizers will be used.

ADDITIONAL INFORMATION

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.

BOPE: 11" 5M with one annular and 2 rams. The BOPE will be installed before the production hole is drilled and tested to 5,000 psi (annular to 2,500 psi) prior to drilling out the surface casing shoe. Record on chart recorder and tour sheet. Function test rams on each trip. Maintain safety valve and inside BOP on rig floor at all times. Most rigs have top drives; however, if used, the Kelly is to be equipped with upper and lower kelly valves.

Surveys will be taken at 1,000' minimum intervals.

Most rigs have PVT System for mud monitoring. If no PVT is available, visual monitoring will be utilized.

DRILLING ENGINEER:

Nick Spence / Emile Goodwin

DATE:

DRILLING SUPERINTENDENT:

Kenny Gathings / Lovel Young

DATE:



BLM - Vernal Field Office - Notification Form

Operator KERR-McGEE OIL & GAS Rig Name/# BUCKET RIG
 Submitted By ANDY LYTLE Phone Number 720.929.6100
 Well Name/Number NBU 921-17H
 Qtr/Qtr SENE Section 17 Township 9S Range 21E
 Lease Serial Number UTU 0575
 API Number 4304750702

Spud Notice – Spud is the initial spudding of the well, not drilling out below a casing string.

Date/Time 08/05/2011 08:00 HRS AM PM

Casing – Please report time casing run starts, not cementing times.

- Surface Casing
 Intermediate Casing
 Production Casing
 Liner
 Other

RECEIVED

AUG 04 2011

DIV. OF OIL, GAS & MINING

Date/Time 08/09/2011 00:00 HRS AM PM

BOPE

- Initial BOPE test at surface casing point
 BOPE test at intermediate casing point
 30 day BOPE test
 Other

Date/Time _____ AM PM

Remarks ESTIMATED DATE AND TIME. PLEASE CONTACT KENNY GATHINGS AT

435.828.0986 OR LEVEL YOUNG AT 435.781.7051

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU 0575
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: Ute Tr
		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: NBU 921-17H	
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047507020000	
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6515 Ext	9. FIELD and POOL or WILDCAT: NATURAL BUTTES
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2100 FNL 0553 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENE Section: 17 Township: 09.0S Range: 21.0E Meridian: S	COUNTY: UINTAH	
		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start: <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input checked="" type="checkbox"/> SPUD REPORT Date of Spud: 8/5/2011 <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> WILDCAT WELL DETERMINATION <input type="checkbox"/> OTHER	
<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>		
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. MIRU PETE MARTIN BUCKET RIG. DRILLED 20" CONDUCTOR HOLE TO 40'. RAN 14" 36.7# SCHEDULE 10 PIPE. CMT W/28 SX READY MIX. SPUD WELL ON 08/05/2011 AT 0830 HRS.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY		
NAME (PLEASE PRINT) Sheila Wopsock	PHONE NUMBER 435 781-7024	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 8/10/2011	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU 0575
SUNDRY NOTICES AND REPORTS ON WELLS		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute Tr
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.		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: NBU 921-17H	
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047507020000	
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6515 Ext	9. FIELD and POOL or WILDCAT: NATURAL BUTTES
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2100 FNL 0553 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENE Section: 17 Township: 09.0S Range: 21.0E Meridian: S	COUNTY: UINTAH	
		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 8/12/2011	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> OPERATOR CHANGE	
	<input type="checkbox"/> PRODUCTION START OR RESUME	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input type="checkbox"/> ALTER CASING	
	<input type="checkbox"/> CHANGE TUBING	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input type="checkbox"/> FRACTURE TREAT	
	<input type="checkbox"/> PLUG AND ABANDON	
	<input type="checkbox"/> RECLAMATION OF WELL SITE	
	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> VENT OR FLARE	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. MIRU AIR RIG ON AUGUST 10, 2011. DRILLED SURFACE HOLE TO 2960'. RAN SURFACE CASING AND CEMENTED. WELL IS WAITING ON ROTARY RIG. DETAILS OF CEMENT JOB WILL BE INCLUDED WITH WELL COMPLETION REPORT.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY		
NAME (PLEASE PRINT) Andy Lytle	PHONE NUMBER 720 929-6100	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 8/15/2011	

BLM - Vernal Field Office - Notification Form

Operator KERR-McGEE OIL & GAS Rig Name/# BUCKET RIG
 Submitted By ANDY LYTLE Phone Number 720.929.6100
 Well Name/Number NBU 921-17H
 Qtr/Qtr SENE Section 17 Township 9S Range 21E
 Lease Serial Number UTU 0575
 API Number 4304750702

Spud Notice – Spud is the initial spudding of the well, not drilling out below a casing string.

Date/Time 08/05/2011 08:00 HRS AM PM

Casing – Please report time casing run starts, not cementing times.

- Surface Casing
 Intermediate Casing
 Production Casing
 Liner
 Other

RECEIVED

AUG 04 2011

DIV. OF OIL, GAS & MINING

Date/Time 08/09/2011 00:00 HRS AM PM

BOPE

- Initial BOPE test at surface casing point
 BOPE test at intermediate casing point
 30 day BOPE test
 Other

Date/Time _____ AM PM

Remarks ESTIMATED DATE AND TIME. PLEASE CONTACT KENNY GATHINGS AT

435.828.0986 OR LEVEL YOUNG AT 435.781.7051

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

FORM 9

5. LEASE DESIGNATION AND SERIAL NUMBER:
UTU 0575

SUNDRY NOTICES AND REPORTS ON WELLS

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
Ute Tr

7. UNIT or CA AGREEMENT NAME:
NATURAL BUTTES

8. WELL NAME and NUMBER:
NBU 921-17H

9. API NUMBER:
43047507020000

9. FIELD and POOL or WILDCAT:
NATURAL BUTTES

COUNTY:
UINTAH

STATE:
UTAH

1. TYPE OF WELL
Gas Well

2. NAME OF OPERATOR:
KERR-MCGEE OIL & GAS ONSHORE, L.P.

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779
PHONE NUMBER: 720 929-6515 Ext

4. LOCATION OF WELL
FOOTAGES AT SURFACE:
2100 FNL 0553 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
Qtr/Qtr: SENE Section: 17 Township: 09.0S Range: 21.0E Meridian: S

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input checked="" type="checkbox"/> SPUD REPORT Date of Spud: 8/5/2011	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input type="text"/>

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

MIRU PETE MARTIN BUCKET RIG. DRILLED 20" CONDUCTOR HOLE TO 40'.
RAN 14" 36.7# SCHEDULE 10 PIPE. CMT W/28 SX READY MIX. SPUD WELL ON
08/05/2011 AT 0830 HRS.

RECEIVED

AUG 10 2011

DIV. OF OIL, GAS & MINING

NAME (PLEASE PRINT)
Sheila Wopsock

PHONE NUMBER
435 781-7024

TITLE
Regulatory Analyst

SIGNATURE
N/A

DATE
8/10/2011

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 0575
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: NBU 921-17H
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2100 FNL 0553 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENE Section: 17 Township: 09.0S Range: 21.0E Meridian: S		9. API NUMBER: 43047507020000
PHONE NUMBER: 720 929-6515 Ext		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
COUNTY: UINTAH		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER: <input style="width: 50px;" type="text"/>	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION	
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 9/25/2011	<input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER: <input style="width: 50px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. MIRU ROTARY RIG. FINISHED DRILLING FROM 2960' TO 11,554' ON SEPT. 21, 2011. RAN 4-1/2" 11.6# P-110 PRODUCTION CASING. CEMENTED PRODUCTION CASING. RELEASED ENSIGN RIG 145 ON SEPT. 25, 2011 @ 23:00 HRS. DETAILS OF CEMENT JOB WILL BE INCLUDED WITH THE WELL COMPLETION REPORT. WELL IS WAITING ON FINAL COMPLETION ACTIVITIES.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY		
NAME (PLEASE PRINT) Andy Lytle	PHONE NUMBER 720 929-6100	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 9/30/2011	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU 0575
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		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: NBU 921-17H	
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047507020000	
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6515 Ext	9. FIELD and POOL or WILDCAT: NATURAL BUTTES
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2100 FNL 0553 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENE Section: 17 Township: 09.0S Range: 21.0E Meridian: S	COUNTY: UINTAH	
		STATE: UTAH
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TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start: <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input checked="" type="checkbox"/> DRILLING REPORT Report Date: 9/25/2011	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	
	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>	
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NAME (PLEASE PRINT) Andy Lytle	PHONE NUMBER 720 929-6100	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 9/30/2011	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
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2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: NBU 921-17H
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PHONE NUMBER: 720 929-6515 Ext		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
COUNTY: UINTAH		STATE: UTAH
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TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input checked="" type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER: <input style="width: 50px;" type="text"/>	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION	
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 10/20/2011		
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. THE SUBJECT WELL WAS PLACED ON PRODUCTION ON 10/20/2011 AT 1630 HRS. THE CHRONOLOGICAL WELL HISTORY WILL BE SUBMITTED WITH THE WELL COMPLETION REPORT.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY		
NAME (PLEASE PRINT) Sheila Wopsock	PHONE NUMBER 435 781-7024	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 10/21/2011	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
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1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE
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3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: NBU 921-17H
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PHONE NUMBER: 720 929-6515 Ext		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
COUNTY: UINTAH		STATE: UTAH
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<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input checked="" type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER: <input style="width: 50px;" type="text"/>	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION	
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 10/20/2011		
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. THE SUBJECT WELL WAS PLACED ON PRODUCTION ON 10/20/2011 AT 1630 HRS. THE CHRONOLOGICAL WELL HISTORY WILL BE SUBMITTED WITH THE WELL COMPLETION REPORT.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY		
NAME (PLEASE PRINT) Sheila Wopsock	PHONE NUMBER 435 781-7024	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 10/21/2011	

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.
UTU0575

1a. Type of Well Oil Well Gas Well Dry Other
 b. Type of Completion New Well Work Over Deepen Plug Back Diff. Resvr.
 Other _____

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.
UTU63047A

2. Name of Operator **KERR MCGEE OIL & GAS ONSHORE** Contact: **JAIME L. SCHARNOWSKE**
 Email: **JAIME.SCHARNOWSKE@ANADARKO.COM**

8. Lease Name and Well No.
NBU 921-17H

3. Address **PO BOX 173779 DENVER, CO 80217** 3a. Phone No. (include area code)
 Ph: **720-929-6304**

9. API Well No.
43-047-50702

4. Location of Well (Report location clearly and in accordance with Federal requirements)*
 At surface **SENE 2100FNL 553FEL 40.037608 N Lat, 109.568160 W Lon**
 At top prod interval reported below **SENE 2100FNL 553FEL 40.037608 N Lat, 109.568160 W Lon**
 At total depth **SENE 2100FNL 553FEL 40.037608 N Lat, 109.568160 W Lon** *37 06*

10. Field and Pool, or Exploratory
NATURAL BUTTES

11. Sec., T., R., M., or Block and Survey
or Area **Sec 17 T9S R21E Mer SLB**

12. County or Parish
UINTAH 13. State
UT

14. Date Spudded
08/05/2011 15. Date T.D. Reached
09/21/2011 16. Date Completed
 D & A Ready to Prod.
10/20/2011

17. Elevations (DF, KB, RT, GL)*
4807 GL

18. Total Depth: MD 11554 TVD 11549 19. Plug Back T.D.: MD 11491 TVD 11486 *7* 20. Depth Bridge Plug Set: MD TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
CBL/VDL/GR/CCL-CMI/GR/CCL-BHV-DS/DSN/ACTR 22. Was well cored? No Yes (Submit analysis)
 Was DST run? No Yes (Submit analysis)
 Directional Survey? No Yes (Submit analysis)

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
20.000	14.000 STL	36.7	0	40		28			
11.000	8.625 IJ-55	28.0	0	2946		530		0	
7.875	4.500 P-110	11.6	0	11535		2170		4120	

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.375	11110							

25. Producing Intervals *WSMUD* 26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) MESAVERDE	8788	11282	8788 TO 11282	0.360	192	OPEN
B)						
C)						
D)						

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
8788 TO 11282	PUMP 14,158 BBLs SLICK H2O & 235,788 LBS TLC & 59,867 30/50 OTTAWA SAND

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
10/20/2011	10/24/2011	24	▶	0.0	3662.0	1272.0			FLows FROM WELL
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
20/64	2100 SI	3000.0	▶	0	3662	1272		PGW	

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			▶						
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			▶						

(See Instructions and spaces for additional data on reverse side)
 ELECTRONIC SUBMISSION #124028 VERIFIED BY THE BLM WELL INFORMATION SYSTEM
**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ****

RECEIVED
NOV 28 2011
 DIV. OF OIL, GAS & MINING

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	

29. Disposition of Gas(Sold, used for fuel, vented, etc.)
SOLD

30. 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.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
				GREEN RIVER BIRD'S NEST MAHOGANY WASATCH MESAVERDE	1795 2007 2553 5166 8100

32. Additional remarks (include plugging procedure):

The first 210' of the surface hole was drilled with a 12" bit. The remainder of surface hole was drilled with an 11" bit. Attached is the chronological well history, perforation report & final survey.

33. Circle enclosed attachments:

- 1. Electrical/Mechanical Logs (1 full set req'd.)
- 2. Geologic Report
- 3. DST Report
- 4. Directional Survey
- 5. Sundry Notice for plugging and cement verification
- 6. Core Analysis
- 7. Other:

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):

**Electronic Submission #124028 Verified by the BLM Well Information System.
For KERR MCGEE OIL & GAS ONSHORE,L, sent to the Vernal**

Name (please print) JAIME L. SCHARNOWSKE Title REGULATORY ANALYST

Signature (Electronic Submission) Date 11/23/2011

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 921-17H		Spud Conductor: 8/5/2011		Spud Date: 8/10/2011	
Project: UTAH-UINTAH		Site: NBU 921-17H		Rig Name No: PROPETRO 11/11, ENSIGN 145/145	
Event: DRILLING		Start Date: 7/25/2011		End Date: 9/25/2011	
Active Datum: RKB @4,820.00usft (above Mean Sea Level)			UWI: SE/NE/0/9/S/21/E/17/0/0/26/PM/N/2100/E/0/553/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
8/10/2011	5:00 - 11:00	6.00	MIRU	01	A	P		MOVE RIG IN OFF THE NBU 921-17H (3 MILE MOVE)
	11:00 - 16:00	5.00	MIRU	01	B	P		UNLOAD TRUCKS,DRESS CONDUCTOR, INSTALL BLOOIE LINE,CENTER RIG OVER HOLE,R/U & PRIME MUD PUMP & RESERVE PIT PUMP
	16:00 - 16:30	0.50	DRLSUR	06	A	P		P/U 1.83 DEG BENT HOUSING HUNTING MTR SN 8021 . 7/8 LOBE .17 RPM. M/U 12 1/4" QD507 SN 7133232 1ST RUN, W/ 7-18'S. INSTALL RUBBER
	16:30 - 18:00	1.50	DRLSUR	02	B	P		SPUD SURFACE 08/10/2011 @ 16:30 HRS. DRILL 12 1/4" SURFACE HOLE F/40'-210' (170' @ 113'/HR) PSI ON/ OFF 750/500, UP/ DOWN/ ROT 27/22/25. 532 GPM, 45 RPM ON TOP DRIVE, 15-18K WOB
	18:00 - 18:30	0.50	DRLSUR	06	A	P		TOH,LAY DOWN 12 1/4" BIT
	18:30 - 20:30	2.00	DRLSUR	06	A	P		M/U 11" BIT,P/U DIR. TOOLS & SCRIBE,TIH T/210'
	20:30 - 0:00	3.50	DRLSUR	02	B	P		DRILL 11" SURFACE HOLE F/ 210'-620' (410' @ 117'/HR) PSI ON/ OFF 1000/700, UP/ DOWN/ ROT 45/40/43. 136 SPM, 532 GPM, 18-20K WOB, 45 RPM ON TOP DRIVE,90 RPM ON MM, CIRCULATING RESERVE PIT
8/11/2011	0:00 - 5:30	5.50	DRLSUR	02	B	P		DRILL 11" SURFACE HOLE F/ 620'-1400' (780' @ 142'/HR) PSI ON/ OFF 1300/1120, UP/ DOWN/ ROT 50/45/46. 136 SPM, 532 GPM, 18-20K WOB, 45 RPM ON TOP DRIVE,90 RPM ON MM, CIRCULATING RESERVE PIT
	5:30 - 16:00	10.50	DRLSUR	02	B	P		DRILL 11" SURFACE HOLE F/1400'-2300' (900' @ 86'/HR) PSI ON/ OFF 1500/1370, UP/ DOWN/ ROT 70/60/65. 136 SPM, 532 GPM, 18-20K WOB, 45 RPM ON TOP DRIVE,90 RPM ON MM, CIRCULATING RESERVE PIT
	16:00 - 23:30	7.50	DRLSUR	02	B	P		DRILL 11" SURFACE HOLE F/2300'-2960' (660' @ 88'/HR) PSI ON/ OFF 1920/1560, UP/ DOWN/ ROT 82/68/78. 136 SPM, 532 GPM, 18-20K WOB, 45 RPM ON TOP DRIVE,90 RPM ON MM, CIRCULATING RESERVE PIT(TD SURF. HOLE)
	23:30 - 0:00	0.50	DRLSUR	05	C	P		CIRC & COND HOLE F/LD & 8 5/8" 28# SURF. CSG RUN
8/12/2011	0:00 - 1:30	1.50	DRLSUR	05	C	P		CONT T/CIRC & COND HOLE F/LD & 8 5/8" 28# SURF. CSG RUN
	1:30 - 5:30	4.00	DRLSUR	06	D	P		L/D DS,BHA & DIR TOOLS
	5:30 - 6:30	1.00	CSG	12	A	P		MOVE CATWALK AND PIPE RACKS,MOVE CSG OVER TO WORK AREA,R/U T/RUN 8 5/8" 28# SURF. CSG
	6:30 - 10:00	3.50	CSG	12	C	P		HOLD SAFTEY MEETING,RUN FLOAT SHOE ,SHOE JNT,BAFFLE & 65 JNTS 8 5/8" 28# LT&C CSG W/THE SHOE SET @2937' & THE BAFFLE @2891
	10:00 - 11:00	1.00	CSG	12	A	P		RUN 200' 1" PIPE DOWN ANNULUS,MOVE RIG OFF,INSTALL CEMENT HEAD,R/U PRO PETRO CEMENTERS

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 921-17H	Spud Conductor: 8/5/2011	Spud Date: 8/10/2011
Project: UTAH-UINTAH	Site: NBU 921-17H	Rig Name No: PROPETRO 11/11, ENSIGN 145/145
Event: DRILLING	Start Date: 7/25/2011	End Date: 9/25/2011
Active Datum: RKB @4,820.00usft (above Mean Sea Level)		UWI: SE/NE/0/9/S/21/E/17/0/0/26/PM/N/2100/E/0/553/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	11:00 - 13:00	2.00	CSG	12	E	P		HOLD SAFETY MEETING. TEST LINES TO 2000 PSI. PUMP 70 BBLS OF 8.4# H2O AHEAD, FULL RETURNS PUMP 20 BBLS OF 8.4# GEL WATER AHEAD. PUMP 230 SX(156 BBLS) 11# 3.82 YIELD LEAD CEMENT, PUMP 175 SX (34 BBLS) OF 15.8# 1.15 YIELD TAIL(2% CALC, 1/4# /SK OF FLOCELE). DROP PLUG ON FLY AND DISPLACE W180 BBLS OF 8.4# H2O. LIFT PRESSURE WAS 720 PSI, BUMP PLUG AND HOLD 1300 PSI FOR 5 MIN. FLOAT HELD, FULL RETURNS THRU OUT JOB ,20 BBLS LEAD CEMENT TO SURF, CEMENT FELL BACK
	13:00 - 13:30	0.50	CSG	12	F	P		TOP OUT THRU 1" PIPE W/125 SKS 15.8 PPG, CLASS "G" CEMENT W/4% CACL2 & 1/4#/SK FLOCELE. CEMENT TO SURF, STAYED @ SURF. (RELEASE RIG @ 13:30 08/12/2011)
	13:30 - 13:30	0.00	CSG					Copy and paste only the "crapola" below here!!! CONDUCTOR CASING: Cond. Depth set:40' Cement sx used:28 SPUD DATE/TIME:8/10/2011 16:30 SURFACE HOLE: Surface From depth:40' Surface To depth:2960' Total SURFACE hours:28.50 Surface Casing size:8 5/8" 28# # of casing joints ran:66 Casing set MD:2937' # sx of cement:230/175/125 Cement blend (ppg):11.0/15.8/15.8 Cement yield (ft3/sk):3.82/1.15/1.15 # of bbls to surface:20 Describe cement issues:NONE
9/10/2011	12:00 - 21:00	9.00	RDMO	01	E	P		RIG DOWN FLOW LINES. UN HOOK FLARE LINES. READY RIG TO SKID BACK 60'. RIG DOWN PITS. RIG DOWN FLOOR. RIG DOWN BACK YARD. MOVE CAT WALK TO SIDE. SET UP PIPE RACKS TO SET DERRICK ON.
	21:00 - 0:00	3.00	RDMO	01	E	P		LAY DERRICK OVER. UNSTRING DRILL LINE. READY DERRICK TO SPLIT.
9/11/2011	0:00 - 6:30	6.50	RDMO	01	E	P		RIG DOWN FLARE LINES. RIG DOWN SUB ELECTRICAL. RIG DOWN PIT PUMPS. RIG DOWN LCM BLOWER. RIG DOWN REST OF ELECTRICAL.

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-17H		Spud Conductor: 8/5/2011		Spud Date: 8/10/2011	
Project: UTAH-UINTAH		Site: NBU 921-17H		Rig Name No: PROPETRO 11/11, ENSIGN 145/145	
Event: DRILLING		Start Date: 7/25/2011		End Date: 9/25/2011	
Active Datum: RKB @4,820.00usft (above Mean Sea Level)			UWI: SE/NE/0/9/S/21/E/17/0/0/26/PM/N/2100/E/0/553/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	6:30 - 12:30	6.00	RDMO	01	A	P		HOLD SAFETY MEETING W/ JONES TRUCKING AND RIG CREWS. MOVE RIG 2 MILES WITH 10 TRUCK AND 2 FORKLIFTS. 4 SWAMPERS. 2 TRUCK PUSHERS. NO EXTRA ENSIGN HANDS. HELD SAFETY MEETING W/ MOUNTAIN WEST @ 09:00. MOVE CAMPS WITH 2 SWAMPERS AND 1 TRUCK. STRING LINED 17H LOCATION. MOVE AND SET IN MUD TANKS, CEMENT SILOS, FRAC TANKS, LCM TRAILER, CAT WALK, COMBO HOUSE, PUMPS, GENERATOR HOUSES, FUEL TANK, C-CAN, MUD PRODUCT, HYDRALIC HOUSE, BOILER, WATER TANK, GAS BUSTER. AND ALL MISC. COMPONENTS. SPLIT DERRICK. BREAK DOWN SUB. LOAD UP MATTING BOARDS. RIG OFF LOCATION @ 12:30. (JD TO INSTALL FENCE) (MOVED CAMPS, C-CAN, TRANSFORMER, SEWERS AND PORTA POTTIES WITH MOUNTAIN WEST).
	12:30 - 17:00	4.50	MIRU	01	B	P		SET IN ALL RIG COMPONENTS. SET DOWN STACK. SET IN MATTING BOARDS. PIN SUB. INSTALL DERRICK. RIG UP SUCTION LINES, WATER LINES. ELECTRICAL LINES. LEAVE GRASS HOPPER OUT AND PREMIX. RIG UP ELECTRICAL TO SUB. RELEASE JONES TRUCKS AT 05:00. RELEASED MTN WEST @ 16:30. START CHANGING OUT ROTATER WITH 2 HYDRALIC HANDS AND 1 JONES FORKLIFT AT 17:00. ALL REGULAR HAND CONTINUED RIGGING UP.
	17:00 - 0:00	7.00	MIRU	01	B	P		START CHANGING OUT ROTATER WITH 2 HYDRALIC HANDS AND 1 JONES FORKLIFT AT 17:00. ALL REGULAR HAND CONTINUED RIGGING UP. (NO EXTRA NIGHT CREW HANDS) RIG UP BACK YARD. STRING BLOCKS, AND PULL ON DRILL LINE. READY DERRICK TO RAISE. START BLEEDING PROCEDURES AND REPORT TIME.
9/12/2011	0:00 - 2:30	2.50	MIRU	01	B	P		BLEED RAMS. PERFORM DERRICK INSPECTION. WORK ON FLARE LINES WHILE BLEEDING RAMS. RAISE DERRICK. PIN DERRICK LEGS.
	2:30 - 6:00	3.50	MIRU	01	B	P		RIG UP ELECTRICAL, AND HYDRALICS TO DERRICK. UNCHAIN DERRICKMAN AND BLOCKS. UNTIE SERVICE LOOP AND KELLY HOSE. SPOOL UP WINCH LINES. SET CATWALK IN PLACE.
	6:00 - 9:00	3.00	MIRU	01	B	P		CENTER AND LEVEL DERRICK. ADJUST CATWALK. INSTALL FLOWLINES. RIG UP FLARE LINES.
	9:00 - 14:00	5.00	MAINT	08	A	Z		TROUBLE SHOOT RIG PROBLEMS. UNABLE TO GET DRAW WORKS TO MOVE. HOOKED UP OLD CROWN SAVER CORD.
	14:00 - 14:30	0.50	MIRU	09	A	P		SLIP ON DRILL LINE.
	14:30 - 16:00	1.50	MIRU	14	A	P		N/U BOPE. TIGHTEN QUICK CONNECT ON STACK. N/U CHOKE LINE. NIPPLE OF FLOWLINE UNDER FLOOR. INSTALL TURN BUCKLES.

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-17H	Spud Conductor: 8/5/2011	Spud Date: 8/10/2011
Project: UTAH-UINTAH	Site: NBU 921-17H	Rig Name No: PROPETRO 11/11, ENSIGN 145/145
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Active Datum: RKB @4,820.00usft (above Mean Sea Level)		UWI: SE/NE/O/S/21/E/17/O/0/26/PM/N/2100/E/O/553/O/O

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	16:00 - 20:30	4.50	MIRU	15	A	P		HOLD SAFETY MEETING. TEST TOP DRIVE VALVE, FLOOR VALVE, DART VALVE, PIPE AND BLIND RAMS, INSIDE AND OUTSIDE KILL LINE VALVES INSIDE CHOKE LINE VALVE, HCR VALVE, CHOKE LINE, CHOKE MANIFOLD VALVES AND CHOKES TO 5000 PSI FOR 10 MIN AND 250 PSI FOR 5 MIN. TEST ANNULAR TO 2500 PSI FOR 10 MIN AND 250 PSI FOR 5 MIN. TEST CSG TO 1500 PSI FOR 30 MIN. SET WEAR BUSHING WITH ID 8 1/16" ID W/ NO ABNORMAL WEAR.
	20:30 - 0:00	3.50	MIRU	06	A	P		P/U SDI 7/8 LOBE 5 STAGE 1.5 BENT HOUSE, .23 RPG. AND MAKE UP Q506F SN 7135006 W/ 6-14'S. SCRIBE MOTOR. P/U DIRECTIONAL TOOLS. INSTALL EM TOOL. TEST EM TOOLS. P/U 6-6 1/2" DRILL COLLARS. P/U 24-4 1/2" HWDP. P/U DRILL STRING TO 103 ft
9/13/2011	0:00 - 2:30	2.50	DRLPRO	06	A	P		TIH WITH BHA
	2:30 - 4:00	1.50	MAINT	08	A	Z		BLEW HYDRAULIC HOSE ON IRON ROUGH NECK, REPAIR HOSE
	4:00 - 6:30	2.50	DRLPRO	06	A	P		TIH TO 2825 TAG CMT
	6:30 - 8:00	1.50	DRLPRO	02	F	P		DRILL CMT ,FC ANS SHOE
	8:00 - 13:30	5.50	DRLPRO	02	A			DRILL F/2942-T/3660 ,ROT 54, TQ 4K,WT ON BIT 17K,PSI 1288,STKS 120, RATE 544 GPM, ROP/CONNECTIONS 130.5 FT/HR, SLIDES-3212-32283570-3588,3660-3677,3755-3772
	13:30 - 14:00	0.50	DRLPRO	07	A	P		LUBRICATE RIG
	14:00 - 0:00	10.00	DRLPRO	02	A	P		DRILL F/3660-T/4788 ,ROT 54, TQ 5.7K,WT ON BIT 16.5K,PSI 1619,STKS 120, RATE 544 GPM, ROP/CONNECTIONS 113 FT/HR, MAX GAS 688
9/14/2011	0:00 - 12:00	12.00	DRLPRO	02	D	P		DRILL SLIDE 4788'-6060' (1272',106'/HR) DRILLING W/ SINGLES. WOB 17-20K AVE WOB 19K, SPM 105, GPM 473, PSI ON/OFF 1650/1200, DIFF 450 , MOT RPM 108, ROT 50, TOR ON/OFF/UP 7/3/3, PU/SO/ROT 184/178/179, DRAG 5K. SLIDE 60' @ 70'/HR. 5% SLIDE 95% ROT. SLIDING TO PUSH WELL HIGH INTO NW QUADRANT OF TARGET TO MINIMIZE SLIDING ON BOTTOM OF WELL. CONN GAS-1150 u, BACKGROUND GAS-500-700u. TRACE OIL FROM GREEN RIVER ZONE. CIRC RESERVE PIT WITH 8.4# WATER. NO LOSSES. SERVICE RIG. SERVICE TOP DRIVE. CHANGE FLASHING LIGHT AT CROWN. FUNCTION PIPE RAMS.
	12:00 - 12:30	0.50	DRLPRO	07	A	P		SERVICE RIG. SERVICE TOP DRIVE. CHANGE FLASHING LIGHT AT CROWN. FUNCTION PIPE RAMS.
	12:30 - 0:00	11.50	DRLPRO	02	D	P		DRILL SLIDE 6060'- 7050 (990',86'/HR) DRILLING W/ SINGLES. WOB 17-20K AVE WOB 19K, SPM 105, GPM 477, PSI ON/OFF 1650/1200, DIFF 450 , MOT RPM 108, ROT 50, TOR ON/OFF/UP 7/3/3, PU/SO/ROT 190/165/1180, DRAG10K. SLIDE 60' @ 70'/HR. 5% SLIDE 95% ROT.

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 921-17H Spud Conductor: 8/5/2011 Spud Date: 8/10/2011
 Project: UTAH-UINTAH Site: NBU 921-17H Rig Name No: PROPETRO 11/11, ENSIGN 145/145
 Event: DRILLING Start Date: 7/25/2011 End Date: 9/25/2011
 Active Datum: RKB @4,820.00usft (above Mean Sea Level) UWI: SE/NE/O9/S/21/E/17/O/0/26/PM/N/2100/E/O/553/O/O

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
9/15/2011	0:00 - 16:00	16.00	DRLPRO	02	A	P		DRILL SLIDE ' (F/7050-T/7966', ROP 57/HR WITH CONNECTIONS) .@ 7353 START TO SLOWLY MUD UP BG GAS AVG 225,CONNECTION GAS PEAKS 800-1800. @ 7763 CONNECTION GAS PEAK 6140, 4-5 FT FLARE FOR 10 MIN.MUD WT. 8.8, ROP - 154 -30 FT/HR.ROTARY 50-30, PUMP PSI 1800-2300PSI, STK 106, 4 SLIDES, nO LOSSES LUBRICATE RIG
	16:00 - 16:30	0.50	DRLPRO	07	A	P		
	16:30 - 0:00	7.50	DRLPRO	02	A	P		DRILL SLIDE ' (F/7966-T/78334', ROP49/HR WITH CONNECTIONS) BG GAS 160-2995 8078 FT 5 FT FLARE FOR 10 MIN.MUD WT. 9.2 , ROP - 109-45 FT/HR.ROTARY 52-39, PUMP PSI 1800-2300PSI, STK 106, NO LOSSES
9/16/2011	0:00 - 16:30	16.50	DRLPRO	02	A	P		DRILL F/8334-T/8620 (ROP 46/HR WITH CONNECTIONS) . BG GAS AVG 35-1375,CONN. GAS 130-55. @ 7763 CONNECTION GAS PEAK 6140, .MUD WT.10.5, ROP - 154 -30 FT/HR.ROTARY 41, PUMP PSI 2417PSI, STK 106, , NO LOSSES LUBRICATE RIG
	16:30 - 17:00	0.50	DRLPRO	07	A	P		
	17:00 - 0:00	7.00	DRLPRO	02	A	P		DRILL F/8620-T/9450 ROP 118 /HR WITH CONNECTIONS) . BG GAS AVG 35-1375,CONN. GAS 130-55. @ 7763 CONNECTION GAS PEAK 6140, 9318-9416 GAS 5974 15' FLARE 10 MIN.MUD WT.10.5, ROP - 154 -30 FT/HR.ROTARY 41, PUMP PSI 2417PSI, STK 106, , NO LOSSES
9/17/2011	0:00 - 9:00	9.00	DRLPRO	02	A	P		DRILL F/9450-T/9685 (235,26/HR) WOB 10-26K AVE WOB 18K, SPM 105, GPM 473, PSI ON/OFF 22338/2060, DIFF 278, MOT RPM 100 , ROT 30-40, TOR ON/OFF/UP 7/8/8, PU/SO/ROT 238/218/225, DRAG 17K. 100% ROT. MUD IN 10.6/ 40 MUD OUT10.5. .1 GAS CUT. 6:00- 9:00 ROP+ 10-30 FT/HR
	9:00 - 10:30	1.50	DRLPRO	05	C	P		CHECK FOR FLOW, CC HOLE TO CHANGE BIT,PREPARE FOR TRIP
	10:30 - 16:30	6.00	DRLPRO	06	A			SLUG PIPE W/ 12.1#/GAL SLUG , POOH , FILLING HOLE EVERY 5 STDS. HOLE TAKING CORECT VOLUME, FLOW CHECK@ 9000FT - NO FLOW, L/D BHA # 1 , P/U BHA#2
	16:30 - 18:00	1.50	DRLPRO	06	A	P		
	18:00 - 0:00	6.00	DRLPRO	06	A	P		TIH P/U ENOUGH SINGLES SO WE CAN TD THE WELL DRILLING WITH DOUBLES.
9/18/2011	0:00 - 2:30	2.50	DRLPRO	06	A	P		TIH , BREAKING CIRCULATION EVERY 3000 FT. CIRCULATE DOWN 200 FT OF BOTTOM . 14 FT OF FILL, TRIP GAS 7187, 20 FT FLARE GAS AND CONDENSATE
	2:30 - 17:00	14.50	DRLPRO	02	A	P		DRILL F/9685-T/10465 (54',14.5' HR) AVG WOB 18-21 SPM 106 GPM 473 PSI ON/OFF 2483/ 2262 DIFF MOT RPM 76, ROT 43 TOR ON/OFF/UP 10/9/12 ,PU/SO/ROT 245/218/237 DRAG 22K MUD 11.1 VIS 39 GAS CUT.7 GAS SHOW 10240 10 MIN 7'FLARE BG GAS 500 PEAK CONN 7100 100% ROTATING LUB RIG
	17:00 - 17:30	0.50	DRLPRO	07	A	P		

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-17H	Spud Conductor: 8/5/2011	Spud Date: 8/10/2011
Project: UTAH-UINTAH	Site: NBU 921-17H	Rig Name No: PROPETRO 11/11, ENSIGN 145/145
Event: DRILLING	Start Date: 7/25/2011	End Date: 9/25/2011
Active Datum: RKB @4,820.00usft (above Mean Sea Level)		UWI: SE/NE/0/9/S/21/E/17/0/0/26/PM/N/2100/E/0/553/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	17:30 - 0:00	6.50	DRLPRO	02	A	P		DRILL F/10465-T/110626 (25',16.5' HR) AVG WOB 18-21 SPM 106 GPM 473 PSI ON/OFF 2483/ 2262 DIFF MOT RPM 76, ROT 43 TOR ON/OFF/UP 10/9/12 ,PU/SO/ROT 245/218/237 DRAG 22K MUD 11.1 VIS 39GAS CUT.7 GAS SHOW 1049510 MIN 5-8'FLARE BG GAS 50-3425 PEAK CONN 58864 , 100% ROTATEING
9/19/2011	0:00 - 15:00	15.00	DRLPRO	02	A	P		DRILL F/10626-T/11008X (382,15' HR) AVG WOB 18-21 SPM 106 GPM 473 PSI ON/OFF 2483/ 2262, 221 DIFF MOT RPM 76, ROT 43, 119 TOR ON/OFF/UP 7/6/10 ,PU/SO/ROT 245/218/237 DRAG 22K MUD 11.1 VIS 39 GAS CUT.1 GAS SHOW 10660-10675, 5-8' FLARE,10968-10987, 4" FLARE, ' BG 50-3425 PEAK CONN 58864 , 100% ROTATEING
	15:00 - 15:30	0.50	DRLPRO	07	A	P		RIG LUB
	15:30 - 0:00	8.50	DRLPRO	02	A	P		DRILL F/11008-T/11176 (168,8.5' HR) AVG WOB 19-25 SPM 106 GPM 473 PSI DIFF 221 MOT RPM 76, ROT 43 TOR ON/OFF/UP 10/9/12 ,PU/SO/ROT 246/218/238 DRAG 21K MUD 11.4 VIS 39 XGAS CUT..1 GAS SHOW 10495 5-8'FLARE BG GAS 50-3425 PEAK CONN 58864 , 100% ROTATEING 100%
9/20/2011	0:00 - 7:00	7.00	DRLPRO	02	A	P		DRILL F/11175-T/11313 (138',8.5' HR) AVG WOB 19-25 SPM 106 GPM 473 PSI DIFF 221 MOT RPM 76, ROT 43 TOR ON/OFF/UP 10/9/12 ,PU/SO/ROT 246/218/238 DRAG 21K MUD 11.5 VIS 38,GAS CUT.3 BG GAS CONN 58864 , 100% ROTATEING GAS SHOWS 11112- 11164 4FT FLARE
	7:00 - 9:00	2.00	DRLPRO	05	C	P		BOTH PUMP PRESSURE AND DIFFERENTIAL PRESSURE STARTED SPIKING-BIT WILL NOT DRILL,CC.AND REPAE AND PREPARE TO TIH fLOW CHECK-NOT LOW
	9:00 - 21:00	12.00	DRLPRO	06	A	P		PUMP 1.5# - 40 BBLS SLUG AND TOH. PUMP OUT 1000 FT. TIGHT SPOT AT 5100 BACK REAM AND CC TIGHT SPOT, CONTINUE TOH
	21:00 - 22:00	1.00	DRLPRO	06	A	P		L/D BHA#2- PIT HAD PIECES OF TANK EPOXY IN IT AND IS WORN OUT. P/U BHA # 3
9/21/2011	22:00 - 0:00	2.00	DRLPRO	06	A	P		TIH WITH BHA# 3
	0:00 - 3:00	3.00	DRLPRO	06	A	P		TIH BREAK CIRCULATION AT 3000 FT ,TIH TO 5585TIGHT SPOT
	3:00 - 3:30	0.50	DRLPRO	05	B	P		CIRCULATE AND RAISE MUD WT TO 11.9 PUMP 11% LCM SWMPE
	3:00 - 3:00	0.00	DRLPRO	03	A	P		REAM TIGHT SPOT @ 5585, TIH HIT TIGHT SPOT @ 6085 ATTEMPT TO REAM THROUGH, LIOST CIRCULATION P/U ROATEING TO 6085 AND PUMP 10% LCM PILL GOT CIRCULATION BACK
	3:30 - 13:30	10.00	PROD	03	E	P		WASH AND REM TO 8200 FT
	13:30 - 16:00	2.50	PROD	05	B	P		CC , RAISE TO 12 #GAL.20 FT FLARE
	16:00 - 18:00	2.00	DRLPRO	03	D	P		TIH TO BTM ,46 FT OF FILL CONTINUE RAISEING MUD WT

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-17H		Spud Conductor: 8/5/2011		Spud Date: 8/10/2011	
Project: UTAH-UINTAH		Site: NBU 921-17H		Rig Name No: PROPETRO 11/11, ENSIGN 145/145	
Event: DRILLING		Start Date: 7/25/2011		End Date: 9/25/2011	
Active Datum: RKB @4,820.00usft (above Mean Sea Level)			UWI: SE/NE/O9/S/21/E/17/O/0/26/PM/N/2100/E/O/553/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	18:00 - 22:30	4.50	DRLPRO	02	A	P		DRILL F/11313-T/11554 (241',4.5' HR) AVG WOB 19-25 SPM 106 GPM 473 PSI DIFF 354 MOT RPM 76, ROT 43 TOR ON/OFF/UP 10/9/12 ,PU/SO/ROT 246/218/238 DRAG 21K MUD 12.4 VIS 45 GAS CUT..1 BG GAS CONN 58864 , 100% ROTATEING GAS SHOWS 11359-11471- 20 FT FLARE. BG GAS 62-5338 CONN GAS 1920 HIGH GAS 5338, TRIP GAS 8205
9/22/2011	22:30 - 0:00	1.50	DRLPRO	05	B	P		CIRCULATE AND CONDITION MUD WT. 12.6
	0:00 - 0:30	0.50	DRLPRO	05	C	P		FLOW CHECK PUMP 14# 40 SLUG TOOH
	0:30 - 6:00	5.50	DRLPRO	06	A	P		TOH -NO TIGHT SPOTS
	6:00 - 6:30	0.50	DRLPRO	05	A	P		PUMP SLUG OUT OF HOLE
	6:30 - 13:00	6.50	DRLPRO	06	E	P		TIH BREAKING CIRCULATION EVERY 3000 FT.SMALL TIGHT SPOT @ 5404', 6090 SLID THREW - NO PROEBLEM,
	13:00 - 13:30	0.50	DRLPRO	03	D	P		WASH AND REAM LAST 90 FT- 14 FT OF FILL
	13:30 - 15:00	1.50	DRLPRO	05	A	P		C.C MUD MAX TRIP GAS 5239 8 FT FLARE OF 5 MIN, MAC BG. GAS 1200 MIN BG GAS 33
	15:00 - 15:30	0.50	DRLPRO	07	A	P		LUBRICATE RIG
9/23/2011	15:30 - 16:30	1.00	DRLPRO	08	A	Z		REPAIR HYDROLIC HOSE ON SLIPS
	16:30 - 0:00	7.50	DRLPRO	06	E	P		PUMP SLUG AND TOH FOR LOGS PUMP FIRST 2 STANDS OFF BOTTOM, ,PU/SO/ROT 291/251/251 DRAG 40K. CHECK PREVIOUS TIGHT SPOTS-NO PROEBLEM
	0:00 - 1:00	1.00	DRLPRO	06	E	P		STAND BACK PIPE AND DIRECTIONAL TOOLS
	1:00 - 7:00	6.00	DRLPRO	11	D	P		BREAK BIT LAY DOWN MOTOR
	7:00 - 15:00	8.00	DRLPRO	08	A	Z		JSA WITH HALLIBURTON R/U LOGGERS/ LOG WELL,R/D LOGGERS
	15:00 - 17:00	2.00	DRLPRO	06	E	P		REPAIR RACKING SYSTEM AND IRON ROUGHNECK
	17:00 - 19:00	2.00	DRLPRO	08	A	Z		L/D DIRECTION TOOLS, P/U TRI CONE BIT FOR CLEAN OUT RUN,
	19:00 - 0:00	5.00	DRLPRO	06	E			RESCALE IRON DERRICKMAN
9/24/2011	0:00 - 5:30	5.50	DRLPRO	06	E	P		OH TO RUN 4 1/2 CSG, BREAK CIRCULATTION EVERY 3000 FT, WASH AND REAM LAST 90 FT TO BOTTOM
	5:30 - 7:00	1.50	DRLPRO	05	A	P		TIH TO TD MAX GAS TRIP GAS 5439 20 FT FLARE FOR 10 MIN- ON BTM NO FILL
	7:00 - 19:30	12.50	DRLPRO	06	E	P		CC MUD 12.8 #/GAL VIS 13% LCM 12.7 OUT. BG GAS 58 PUMP PRESSURE 2579, 473 GPM TQ 4.2 K ROTART 31,
9/25/2011	19:30 - 20:00	0.50	CSG	12	C			PUMP AND ROTATE 9 STANDS OFF BTM- STW/PU WT 255,301 DRAG 41, PUMP SLUD TOH L/D PIPE,P/U STDS TIH AND FINSH L/D PIPE. PULL WEAR BUSHING
	20:00 - 0:00	4.00	CSG	12	A	P		JSA AND R/U WEATHERFORD CASING
	0:00 - 12:00	12.00	CSG	12		P		RUN 4 1/2 P100 11.6#/FT PRODUCTION CSG
								RUN 277 JT P-IIO BTC FILLING EVERY 2000F, FS 11535,FC,11489.7,MARKER JT-8162.9,MAKER JT 5108.0.FT.EVERYJT.WASCLEANED,INPECTED,DOPE D,M/U RPM 8-10 TRIANGLE 1/2-3/4 COVERED, TQ 4000-7000. STRING WT WHEN LANDING 107K

US ROCKIES REGION

Operation Summary Report

Well: NBU 921-17H		Spud Conductor: 8/5/2011	Spud Date: 8/10/2011
Project: UTAH-UJINTAH		Site: NBU 921-17H	Rig Name No: PROPETRO 11/11, ENSIGN 145/145
Event: DRILLING		Start Date: 7/25/2011	End Date: 9/25/2011
Active Datum: RKB @4,820.00usft (above Mean Sea Level)		UWI: SE/NE/09/S/21/E/17/0/0/26/PM/N/2100/E/0/553/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	12:00 - 13:30	1.50	CSG	05	D	P		INSTALL BJ CEMENT HEAD CIRCULATE BOTTOMS UP PRIOR TO CEMENT, HELD SAFTEY MEETING RIG DOWN CASERS. HELD SAFTEY MEETING W/CEMENTERS. MAX TRIP GAS 6510- 10 FT FLARE FOR 10 MIN. BG GAS 35
	13:30 - 16:00	2.50	CSG	12	E	P		HOOK UP BJ LINES TO HEAD & PUMP, 5 BBL WATER SPACER, SCANENGER 9BBLs 20 SX PLI I+6% GEL+.6%R+.2%SM+ 1/4 #/SX KS 12.6 #/BBL, YIELD 2.53, MIX WATER 14.43 LEAD 212 BBL 615 SKS PLI I+6% GEL+.6%R+.2%SM+ 1/4 #/SX KS 12.6 PPG, 1.93 YEILD, 10.09 GPS MIX WATER TAIL 256 BBL 1100 SKS POZ 50/50+10%NaCl+.5R-3+.05 #/SK SF+.002FL - 14.3 PPG 1.31 YEILD, 5.90 GPS WATER DROP PLUG DISPLACE WITH 179 BBL FRESH WATER WITH CLAY CARE & MAGNACIDE, BUMP PLUG TO 4133, FINAL LIFT 3600, 500 PSI OVER, BLEED BACK 2 BBL BACK TO TRUCK, FULL RETURNS, 15 BBL CONTAMINATED MUD CMT 5BBL CEMENT BACK, EST TOP OF LEAD CEMENT 0, TOP OF TAIL 4662, HELD SAFTEY MEETING RIG DOWN BJ, CLEANING PITS WHILE PUMPING CEMENT
	16:00 - 23:00	7.00	RDMO	01	B	P		FLUSH STACK, READY STACK TO SET SLIPS, SET SLIPS, WITH WEATHERFORD HAND 100K ON SLIPS, LIFT STACK & CUT CASING, CLEAN PITS. RELEASE RIG 9/25/2011 @ 23:00

US ROCKIES REGION

Operation Summary Report

Well: NBU 921-17H		Spud Conductor: 8/5/2011	Spud Date: 8/10/2011
Project: UTAH-UINTAH		Site: NBU 921-17H	Rig Name No: PROPETRO 11/11, ENSIGN 145/145
Event: DRILLING		Start Date: 7/25/2011	End Date: 9/25/2011
Active Datum: RKB @4,820.00usft (above Mean Sea Level)		UWI: SE/NE/O9/S/21/E/17/O/O/26/PM/N/2100/E/O/553/O/O	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	23:00 - 23:00	0.00	RDMO	01	F	P		<p>PREPARE FOR RIG MOVE TO COLORADO CONDUCTOR CASING: Cond. Depth set:40' Cement sx used:28</p> <p>SPUD DATE/TIME:8/10/2011 16:30</p> <p>SURFACE HOLE: Surface From depth:40' Surface To depth:2960' Total SURFACE hours:28.50 Surface Casing size:8 5/8" 28# # of casing joints ran:66 Casing set MD:2937' # sx of cement:230/175/125 Cement blend (ppg.):11.0/15.8/15.8 Cement yield (ft3/sk):3.82/1.15/1.15 # of bbls to surface:20 Describe cement issues:NONE</p> <p>PRODUCTION: Rig Move/Skid start date/time:9/11/2011 6:30 Rig Move/Skid finish date/time:9/12/2011 14:30 Total MOVE hours:32.0 Prod Rig Spud date/time:9/13/2011 18:00 Rig Release date/time:9/25/2011 23:00 Total SPUD to RR hours:293.0 Planned depth MD11,534 Planned depth TVD11,534 Actual MD: 11,554 Actual TVD: 11,550 Open Wells \$ AFE \$: Open wells \$/ft:</p> <p>PRODUCTION HOLE: Prod. From depth:2,969 Prod. To depth:11,554 Total PROD hours: 147.89 Log Depth: 11511 Production Casing size:4 1/2 # of casing joints ran:275 Casing set MD:11,534.0 # sx of cement:2,190 Cement blend (ppg.):LEAD 12.6 TAIL 14.3 Cement yield (ft3/sk):LEAD 1.93 TAIL 1.31 Est. TOC (Lead & Tail) or 2 Stage :LEAD 5BBL TO SURFACE. TAIL 4662 FT Describe cement issues:NONE Describe hole issues:HARD FORMATION 3 BITS DOWN TIME IS TO HIGH</p>

1 General

1.1 Customer Information

Company	US ROCKIES REGION
Representative	
Address	

1.2 Well/Wellbore Information

Well	NBU 921-17H	Wellbore No.	OH
Well Name	NBU 921-17H	Wellbore Name	NBU 921-17H
Report No.	1	Report Date	10/10/2011
Project	UTAH-UINTAH	Site	NBU 921-17H
Rig Name/No.		Event	COMPLETION
Start Date	10/10/2011	End Date	10/20/2011
Spud Date	8/10/2011	Active Datum	RKB @4,820.00usft (above Mean Sea Level)
UWI	SE/NE/O9/S/21/E/17/O/O/26/PM/N/2100/E/O/553/O/O		

1.3 General

Contractor	JW WIRELINE	Job Method	PERFORATE	Supervisor	STEVE WALL, SR.
Perforated Assembly	PRODUCTION CASING	Conveyed Method	WIRELINE		

1.4 Initial Conditions

Fluid Type		Fluid Density	
Surface Press		Estimate Res Press	
TVD Fluid Top		Fluid Head	
Hydrostatic Press		Press Difference	
Balance Cond	NEUTRAL		

1.5 Summary

Gross Interval	8,788.0 (usft)-11,282.0 (usft)	Start Date/Time	10/14/2011 12:00AM
No. of Intervals	36	End Date/Time	10/15/2011 12:00AM
Total Shots	0	Net Perforation Interval	59.00 (usft)
Avg Shot Density	0.00 (shot/ft)	Final Surface Pressure	
		Final Press Date	

2 Intervals

2.1 Perforated Interval

Date	Formation/Reservoir	CCL@ (usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/Add. Shot	Diameter (in)	Carr Type /Carr Manuf	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
10/15/2011 12:00AM	MESAVERDE/ 1			8,788.0	8,790.0			0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diamete r (in)	Carr Type /Carr Manuf	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
10/15/2011 12:00AM	MESAVERDE/			8,818.0	8,820.0			0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
10/15/2011 12:00AM	MESAVERDE/			8,890.0	8,891.0			0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
10/15/2011 12:00AM	MESAVERDE/			8,922.0	8,923.0			0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
10/15/2011 12:00AM	MESAVERDE/			8,946.0	8,948.0			0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
10/15/2011 12:00AM	MESAVERDE/			9,206.0	9,207.0			0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
10/15/2011 12:00AM	MESAVERDE/			9,234.0	9,235.0			0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
10/15/2011 12:00AM	MESAVERDE/			9,292.0	9,293.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
10/15/2011 12:00AM	MESAVERDE/			9,346.0	9,347.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
10/15/2011 12:00AM	MESAVERDE/			9,406.0	9,407.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
10/15/2011 12:00AM	MESAVERDE/			9,432.0	9,433.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
10/15/2011 12:00AM	MESAVERDE/			9,504.0	9,506.0			0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
10/15/2011 12:00AM	MESAVERDE/			9,628.0	9,630.0			0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
10/15/2011 12:00AM	MESAVERDE/			9,687.0	9,688.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
10/15/2011 12:00AM	MESAVERDE/			9,701.0	9,703.0			0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	

2.1 Perforated Interval (Continued)

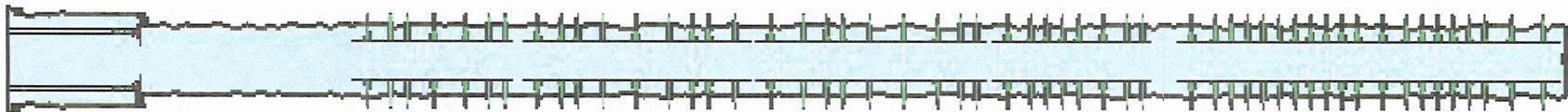
Date	Formation/ Reservoir	CCL@ (usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diamete r (in)	Carr Type /Carr Manuf	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
10/15/2011 12:00AM	MESAVERDE/ 1			9,791.0	9,793.0			0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
10/15/2011 12:00AM	MESAVERDE/ 1			9,887.0	9,888.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
10/15/2011 12:00AM	MESAVERDE/ 1			9,952.0	9,954.0			0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
10/15/2011 12:00AM	MESAVERDE/ 1			9,978.0	9,980.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
10/15/2011 12:00AM	MESAVERDE/ 1			10,175.0	10,176.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
10/15/2011 12:00AM	MESAVERDE/ 1			10,193.0	10,194.0			0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
10/15/2011 12:00AM	MESAVERDE/ 1			10,216.0	10,217.0			0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
10/15/2011 12:00AM	MESAVERDE/ 1			10,252.0	10,254.0			0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
10/15/2011 12:00AM	MESAVERDE/ 1			10,280.0	10,282.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
10/15/2011 12:00AM	MESAVERDE/ 1			10,985.0	10,987.0			0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
10/15/2011 12:00AM	MESAVERDE/ 1			11,012.0	11,013.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
10/15/2011 12:00AM	MESAVERDE/ 1			11,040.0	11,041.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
10/15/2011 12:00AM	MESAVERDE/ 1			11,048.0	11,050.0			0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
10/15/2011 12:00AM	MESAVERDE/ 1			11,066.0	11,067.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diamete r (in)	Carr Type /Carr Manuf	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
10/15/2011 12:00AM	MESAVERDE/			11,074.0	11,075.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
10/14/2011 12:00AM	MESAVERDE/			11,130.0	11,132.0			0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
10/14/2011 12:00AM	MESAVERDE/			11,138.0	11,140.0			0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
10/14/2011 12:00AM	MESAVERDE/			11,149.0	11,151.0			0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
10/14/2011 12:00AM	MESAVERDE/			11,160.0	11,162.0			0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
10/14/2011 12:00AM	MESAVERDE/			11,242.0	11,244.0			0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
10/14/2011 12:00AM	MESAVERDE/			11,276.0	11,282.0			0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	

3 Plots

3.1 Wellbore Schematic



**US ROCKIES REGION
Operation Summary Report**

Well: NBU 921-17H	Spud Conductor: 8/5/2011	Spud Date: 8/10/2011
Project: UTAH-UINTAH	Site: NBU 921-17H	Rig Name No: SWABBCO 1/1
Event: COMPLETION	Start Date: 10/10/2011	End Date: 10/20/2011
Active Datum: RKB @4,820.00usft (above Mean Sea Level)		UWI: SE/NE/O/9/S/21/E/17/O/0/26/PM/N/2100/E/0/553/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
10/14/2011	7:00 - 12:56	5.93	COMP	36		P		(STG #1) RIH W/ 31/8 EXP 23 GRM, .36" HOLE GNS 120 DEG PHASING, PERF AS OFF PROCEDURE, RU SUPERIOR, HSM WATCHING PSI. PRIME & TEST LINES TO 9214 # LOST 60 PSI IN 15 MIN. SET POP OFF TO 8800 PSI, SET KICK OUTS, #1 8800 PSI, #2 8800 PSI, #3 8800 PSI, #4 8600 PSI, # 5 8600 PSI, #6 8600 PSI. (10:40 AM) WHP 1526 PSI, BRK 4395 PSI @ 3.6 BPM. ISIP 4119 PSI, FG .80. SPOT ACID ON PERFS & LET SOAK FOR 5 MINS. CALC HOLES OPEN @ 47.2 BPM @ 8263 PSI = 70% HOLES OPEN.PUMPED 37,396 LBS SAND 2053 BBLs WTR PSI WAS @ 7703# 4" UNIONS BROKE ON BOTH SIDES OF POPOFF @ 11:38 AM. SW NO PERSONS HURT, POP OFF WENT ABOUT 15 TO SIDE WHEN LANDED. CAP LINE. 3 PUMPS SHORT, OPEN WELL 3474 # PSI. TRY TO FLUSH W/ 17 BBLs PRESSURED UP TO 8700#, SHUT DWN FLOW WELL BACK FOR 10 MIN.FLUSH WELL W/ 180 BBLs. MP 8720 PSI, MR 49.6 BPM, AP 7622 PSI, AR 45.8 BPM ISIP 4270 PSI, FG .82 NPI 151 PSI.
	12:56 - 14:00	1.07	COMP	36	E	P		(STG #2) PU 41/2 HAL 10-K CBP & 31/8 EXP 23 GRM .36" HLS, 120 DEG PHASING, SET CBP @ 11,192', PERF WELL AS OF PROCEDURE . SW RD ROCK SPRINGS, MIRU VERNAL CREW. CONT FRACING IN AM.
10/15/2011	7:00 - 9:29	2.48	COMP	36	E	P		(STG #2) HSM, STAYING AWAY FROM IRON WHEN PUMPING. PRIME PUMPS & LINES, TEST TO 9500 PSI, LOST 340 PSI IN 15 MIN.SET MEC POPOFF @ 8600 PSI, SET KICK OUTS ON PUMPS,#1 8650 PSI, #2 8600 PSI, #3 8625 PSI, #4 8650 PSI, #5 8675 PSI, #6 8700 PSI. WHP 3563 PSI, BRK 4812 PSI @ 4.1 BPM. ISIP 4097 PSI, FG .81. SPOT ACID ON PERFS, SHUT DWN LET SOAK FOR 5 MIN. CALC HOLES OPEN @ 49.6 BPM @ 7115 PSI = 100% HOLES OPEN. MP 8002 PSI, MR 50.0 BPM, AP 6857 PSI, AR 49.3 BPM ISIP 4141 PSI, FG .81 NPI 44 PSI.
	9:29 - 12:55	3.43	COMP	36	E	P		(STG #3) PU 41/2 HAL 10-K CBP & 31/8 EXP 23 GRM .36" HLS, 90 & 120 DEG PHASING, SET CBP @ 11,105', PERF WELL AS OF PROCEDURE. WHP 3030 PSI, BRK 4753 PSI @ 4.5 BPM. ISIP 4137 PSI, FG .81. CALC HOLES OPEN @ 49.7 BPM @ 6764 PSI = 100% HOLES OPEN. MP 8237 PSI, MR 49.8 BPM, AP 7246 PSI, AR 47.5 BPM ISIP 4109 PSI, FG .81 NPI -28 PSI.

US ROCKIES REGION

Operation Summary Report

Well: NBU 921-17H		Spud Conductor: 8/5/2011	Spud Date: 8/10/2011
Project: UTAH-UINTAH		Site: NBU 921-17H	Rig Name No: SWABBCO 1/1
Event: COMPLETION		Start Date: 10/10/2011	End Date: 10/20/2011
Active Datum: RKB @4,820.00usft (above Mean Sea Level)		UWI: SE/NE/O9/S/21/E/17/O/0/26/PM/N/2100/E/O/553/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	12:55 - 14:51	1.93	COMP	36	E	P		(STG # 4) PU 41/2 HAL 8-K CBP & 31/8 EXP 23 GRM .36" HLS, 90 & 120 DEG PHASING, SET CBP @ 10,312', PERF WELL AS OF PROCEDURE. WHP 2173 PSI, BRK 3115 PSI @ 4.1 BPM. ISIP 2660 PSI, FG .70. CALC HOLES OPEN @ 45.9 BPM @ 5746 PSI = 84% HOLES OPEN. MP 6121 PSI, MR 50.6 BPM, AP 5745 PSI, AR 49.5 BPM ISIP 3197 PSI, FG .75 NPI 537 PSI.
	14:51 - 16:24	1.55	COMP	36	E	P		(STG# 5) PU 41/2 HAL 8-K CBP & 31/8 EXP 23 GRM .36" HLS, 90 & 120 DEG PHASING, SET CBP @ 10,010', PERF WELL AS OF PROCEDURE. WHP 1930 PSI, BRK 4094 PSI @ 4.4 BPM. ISIP 3008 PSI, FG .74. CALC HOLES OPEN @ 39.7 BPM @ 5566 PSI = 78% HOLES OPEN. MP 6353 PSI, MR 49.8 BPM, AP 5975 PSI, AR 47.0 BPM ISIP 3329 PSI, FG .78 NPI 321 PSI.
	16:24 - 17:48	1.40	COMP	36	E	P		(STG # 6) PU 41/2 HAL 8-K CBP & 31/8 EXP 23 GRM .36" HLS, 90 & 120 DEG PHASING, SET CBP @ 9733', PERF WELL AS OF PROCEDURE. WHP 1578 PSI, BRK 3577 PSI @ 4.5 BPM. ISIP 2626 PSI, FG .71. CALC HOLES OPEN @ 44.6 BPM @ 5964 PSI = 79% HOLES OPEN. MP 6316 PSI, MR 52.4 BPM, AP 6006 PSI, AR 48.8 BPM ISIP 3212 PSI, FG .77 NPI 586 PSI.
	17:48 - 19:04	1.27	COMP	36	E	P		(STG # 7) PU 41/2 HAL 8-K CBP & 31/8 EXP 23 GRM .36" HLS, 90 & 120 DEG PHASING, SET CBP @ 9463', PERF WELL AS OF PROCEDURE. WHP 2107 PSI, BRK 2807 PSI @ 4.3 BPM. ISIP 2328 PSI, FG .69. CALC HOLES OPEN @ 50.4 BPM @ 5702 PSI = 94% HOLES OPEN. MP 6041 PSI, MR 52.2 BPM, AP 5577 PSI, AR 50.9 BPM ISIP 2777 PSI, FG .74 NPI 449 PSI.
	19:04 - 20:33	1.48	COMP	36	E	P		(STG # 8) PU 41/2 HAL 8-K CBP & 31/8 EXP 23 GRM .36" HLS, 120 DEG PHASING, SET CBP @ 8972', PERF WELL AS OF PROCEDURE. WHP 1470 PSI, BRK 3440 PSI @ 4.8 BPM. ISIP 2180 PSI, FG .68. CALC HOLES OPEN @ 50.9 BPM @ 5132 PSI = 98% HOLES OPEN. MP 5979 PSI, MR 51.3 BPM, AP 5206 PSI, AR 51.0 BPM ISIP 2956 PSI, FG .77 NPI 776 PSI.
								TOTAL 235,788 LBS 30/50 TLC TOTAL 59,867 LBS 30/50 OTTAWA TOTAL 14,158 BBLS WTR 1370 GALS SCALE INH 304 GALS BIOCID

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-17H	Spud Conductor: 8/5/2011	Spud Date: 8/10/2011
Project: UTAH-UINTAH	Site: NBU 921-17H	Rig Name No: SWABBCO 1/1
Event: COMPLETION	Start Date: 10/10/2011	End Date: 10/20/2011
Active Datum: RKB @4,820.00usft (above Mean Sea Level)		UWI: SE/NE/O/9/S/21/E/17/O/O/28/PM/N/2100/E/O/553/O/O

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	20:33 - 21:30	0.95	COMP	34	I	P		(KILL PLUG) PU 41/2 HAL 8-K CBP & SET @ 8735' POOH SWM RD WL & FRAC CREW, SDFN. HSM, RIGGING DOWN & RIGGING UP.
10/19/2011	7:00 - 7:30	0.50	COMP	48		P		
	7:30 - 13:00	5.50	COMP	30	A	P		RIG DOWN OFF BONANZA 1023-7M, MIRU, ND WH, NU 10-K BOPS, RU FLOOR & EQUIP.
	13:00 - 17:30	4.50	COMP	31	I	P		TALLY & PU 37/8 BIT, POBS, 1.875 X/N & 213 JTS 23/8 L-80 OFF FLOAT, EOT @ 6758'. SWM SDFN.
10/20/2011	5:30 - 6:00	0.50	COMP	48		P		HSM, CHECKING WELL HEAD & BOPS BEFORE DRILLING PLUGS.
	6:00 - 8:30	2.50	COMP	31	I	P		PU REM 62 JTS 23/8 L-80, RU DRLG EQUIP, CHANGED OUT RAM RUBBERS ON 10K BOPS, CHANGED OUT 2 HOSES ON ACCUMULATORS.

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-17H		Spud Conductor: 8/5/2011	Spud Date: 8/10/2011
Project: UTAH-UINTAH		Site: NBU 921-17H	Rig Name No: SWABBCO 1/1
Event: COMPLETION		Start Date: 10/10/2011	End Date: 10/20/2011
Active Datum: RKB @4,820.00usft (above Mean Sea Level)		UWI: SE/NE/O/S/21/E/17/O/O/26/PM/N/2100/E/O/553/O/O	

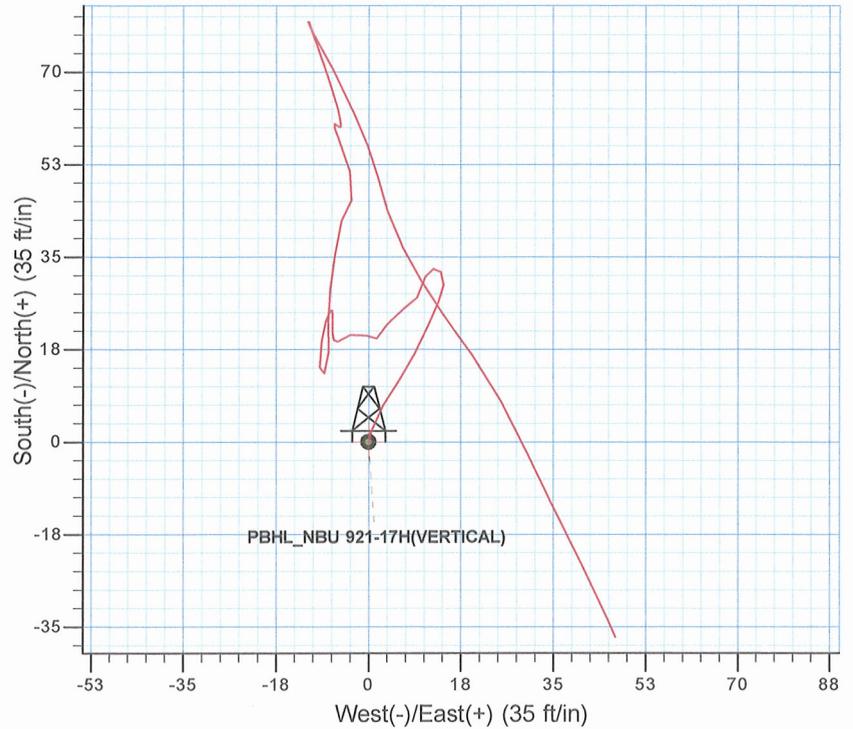
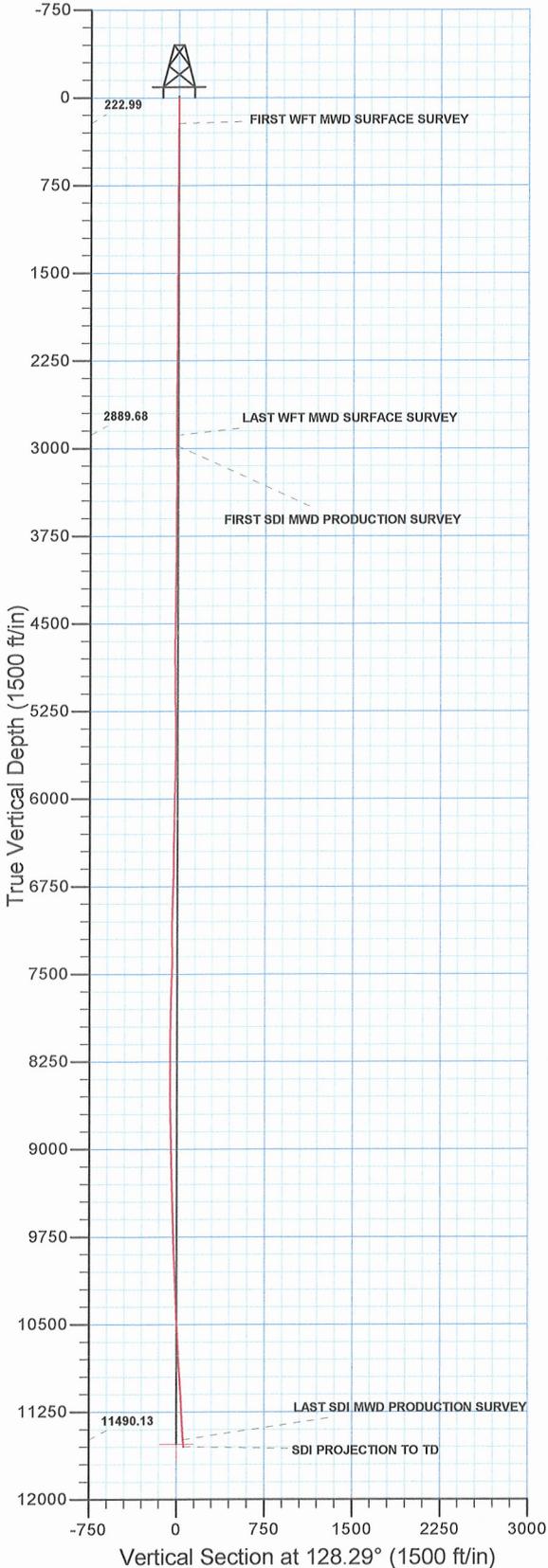
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	8:30 - 17:00	8.50	COMP	44	C	P		<p>BROKE CIRC CONVENTIONAL, TEST BOPS TO 3,000# FOR 15 MIN NO PSI LOSS. RIH.</p> <p>C/O 20' SAND TAG 1ST PLUG @ 8735' DRL PLG IN 16 MIN, 1500# PSI INCREASE RIH.</p> <p>C/O 15' SAND TAG 2ND PLUG @ 8972' DRL PLG IN 16 MIN, 1500# PSI INCREASE RIH.</p> <p>C/O 20' SAND TAG 3RD PLUG @ 9463' DRL PLG IN 13 MIN, 700# PSI INCREASE RIH.</p> <p>C/O 10' SAND TAG 4TH PLUG @ 9733' DRL PLG IN 20 MIN, 600# PSI INCREASE RIH</p> <p>C/O 15' SAND TAG 5TH PLUG @ 10,010' DRL PLG IN 12 MIN, 1100# PSI INCREASE RIH</p> <p>C/O 20' SAND TAG 6TH PLUG @ 10,312' DRL PLG IN 12 MIN, 1100# PSI INCREASE RIH</p> <p>C/O 25' SAND TAG 7TH PLUG @ 11,105' DRL PLG IN 13 MIN, 800# PSI INCREASE RIH</p> <p>C/O 15' SAND TAG 8TH PLUG @ 11,222' DRL PLG IN 13 MIN, 400# PSI INCREASE RIH</p> <p>C/O TO 11,388', CIRC CLN, L/D 9 JTS. LAND TBG ON 350 JTS 23/8 L-80. ND BOPS NU WH, PUMP OFF BIT, TURN WELL OVER TO FB CREW.</p> <p>KB= 13' (SURFACE OPEN W/ POPOFF) HANGER = .83' SICP 3100 PSI, FTP 200 PSI 350 JTS 23/8 L-80 = 11,094.26' POBS W/ 1.875 X/N = 2.20' EOT @ 11,110.29'</p> <p>TWTR 14,448 BBLS TWR 1200 BBLS TWLTR 12,248 BBLS</p> <p>366 JTD HAULED OUT 350 LANDED 16 TO RETURN</p>
	16:30 - 16:30	0.00	PROD	50				<p>WELL TURNED TO SALES @ 1630 HR ON 10/20/11 - 2023 MCFD, 2160 BWPD, CP 3200#, FTP 1400#, CK 20/64"</p>

WELL DETAILS: NBU 921-17H					
GL 4807 & KB 4 @ 4811.00R (PROPETRO 11)					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	14542976.73	2041395.43	40° 2' 15.517 N	109° 34' 2.893 W



MAzimuths to True North
 Magnetic North: 11.08°

Magnetic Field
 Strength: 52318.2snT
 Dip Angle: 65.88°
 Date: 2011/09/08
 Model: IGRF2010



PROJECT DETAILS: UTAH - UTM (feet), NAD27, Zone 12N
Geodetic System: Universal Transverse Mercator (US Survey Feet)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: Zone 12N (114 W to 108 W)
Location: SECTION
System Datum: Mean Sea Level



Scientific Drilling
Rocky Mountain Operations

US ROCKIES REGION PLANNING

UTAH - UTM (feet), NAD27, Zone 12N

NBU 921-17H

NBU 921-17H

OH

Design: OH

Standard Survey Report

27 September, 2011

Anadarko 
Petroleum Corporation

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well NBU 921-17H
Project:	UTAH - UTM (feet), NAD27, Zone 12N	TVD Reference:	GL 4807 & KB 14 @ 4821.00ft (ENSIGN 145)
Site:	NBU 921-17H	MD Reference:	GL 4807 & KB 14 @ 4821.00ft (ENSIGN 145)
Well:	NBU 921-17H	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM5000-RobertS-Local

Project	UTAH - UTM (feet), NAD27, Zone 12N		
Map System:	Universal Transverse Mercator (US Survey Feet)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Zone 12N (114 W to 108 W)		

Site	NBU 921-17H, SECTION				
Site Position:		Northing:	14,542,976.73 usft	Latitude:	40° 2' 15.517 N
From:	Lat/Long	Easting:	2,041,395.42 usft	Longitude:	109° 34' 2.893 W
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence:	0.92 °

Well	NBU 921-17H, 2100 FNL 553 FEL				
Well Position	+N-S	0.00 ft	Northing:	14,542,976.73 usft	Latitude: 40° 2' 15.517 N
	+E-W	0.00 ft	Easting:	2,041,395.42 usft	Longitude: 109° 34' 2.893 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level: 4,807.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	2011/09/08	11.08	65.88	52,318

Design	OH				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N-S (ft)	+E-W (ft)	Direction (°)	
	0.00	0.00	0.00	128.29	

Survey Program	Date	2011/09/27			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
10.00	2,890.00	Survey #1 WFT MWD SURFACE (OH)	MWD	MWD - Standard	
2,977.00	11,554.00	Survey #2 SDI MWD PRODUCTION (OH)	SDI MWD	SDI MWD - Standard ver 1.0.1	

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N-S (ft)	+E-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10.00	0.00	0.00	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
223.00	1.07	14.84	222.99	1.92	0.51	-0.79	0.50	0.50	0.00	
FIRST WFT MWD SURFACE SURVEY										
520.00	1.00	34.63	519.94	6.74	2.69	-2.06	0.12	-0.02	6.66	
820.00	1.00	30.13	819.89	11.15	5.49	-2.60	0.03	0.00	-1.50	
1,120.00	1.25	30.88	1,119.84	16.23	8.49	-3.39	0.08	0.08	0.25	
1,420.00	1.19	20.38	1,419.77	21.95	11.25	-4.77	0.08	-0.02	-3.50	
1,720.00	0.74	29.05	1,719.73	26.57	13.28	-6.04	0.16	-0.15	2.89	
2,020.00	0.56	0.26	2,019.71	29.73	14.22	-7.26	0.12	-0.06	-9.60	

Company: US ROCKIES REGION PLANNING
Project: UTAH - UTM (feet), NAD27, Zone 12N
Site: NBU 921-17H
Well: NBU 921-17H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well NBU 921-17H
TVD Reference: GL 4807 & KB 14 @ 4821.00ft (ENSIGN 145)
MD Reference: GL 4807 & KB 14 @ 4821.00ft (ENSIGN 145)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM5000-RobertS-Local

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
2,320.00	0.44	332.88	2,319.70	32.22	13.71	-9.21	0.09	-0.04	-9.13	
2,620.00	0.38	240.88	2,619.69	32.76	12.31	-10.64	0.20	-0.02	-30.67	
2,890.00	0.61	216.31	2,889.68	31.17	10.68	-10.93	0.11	0.09	-9.10	
LAST WFT MWD SURFACE SURVEY										
2,977.00	0.89	187.92	2,976.67	30.12	10.31	-10.57	0.53	0.32	-32.63	
FIRST SDI MWD PRODUCTION SURVEY										
3,158.00	1.11	212.83	3,157.65	27.26	9.17	-9.69	0.27	0.12	13.76	
3,339.00	1.06	247.01	3,338.62	25.13	6.68	-10.33	0.35	-0.03	18.88	
3,520.00	1.73	215.44	3,519.56	22.25	3.55	-11.00	0.55	0.37	-17.44	
3,701.00	0.38	224.30	3,700.53	19.60	1.55	-10.93	0.75	-0.75	4.90	
3,883.00	1.14	304.54	3,882.52	20.19	-0.37	-12.80	0.63	0.42	44.09	
4,064.00	1.14	237.70	4,063.49	20.25	-3.37	-15.19	0.69	0.00	-36.93	
4,245.00	0.65	253.56	4,244.46	19.00	-5.88	-16.38	0.30	-0.27	8.76	
4,426.00	1.19	359.37	4,425.45	20.59	-6.88	-18.16	0.83	0.30	58.46	
4,607.00	0.88	2.03	4,606.42	23.85	-6.85	-20.16	0.17	-0.17	1.47	
4,788.00	0.35	231.16	4,787.41	24.90	-7.24	-21.11	0.63	-0.29	-72.30	
4,970.00	1.05	194.22	4,969.40	22.93	-8.08	-20.55	0.44	0.38	-20.30	
5,151.00	1.39	190.23	5,150.36	19.16	-8.88	-18.84	0.19	0.19	-2.20	
5,332.00	1.80	178.83	5,331.29	14.16	-9.21	-16.00	0.29	0.23	-6.30	
5,513.00	1.15	24.97	5,512.26	12.97	-8.38	-14.61	1.59	-0.36	-85.01	
5,694.00	1.49	1.23	5,693.22	16.96	-7.57	-16.45	0.35	0.19	-13.12	
5,876.00	2.24	357.63	5,875.12	22.88	-7.66	-20.19	0.42	0.41	-1.98	
6,057.00	1.58	10.79	6,056.02	28.87	-7.34	-23.65	0.44	-0.36	7.27	
6,238.00	2.51	6.00	6,236.90	35.26	-6.46	-26.92	0.52	0.51	-2.65	
6,419.00	1.77	17.25	6,417.77	41.87	-5.22	-30.04	0.47	-0.41	6.22	
6,601.00	1.01	42.76	6,599.72	45.74	-3.29	-30.92	0.53	-0.42	14.02	
6,782.00	2.80	341.76	6,780.63	51.11	-3.59	-34.49	1.37	0.99	-33.70	
6,963.00	1.56	338.77	6,961.49	57.60	-5.87	-40.30	0.69	-0.69	-1.65	
7,144.00	0.21	48.27	7,142.47	60.12	-6.52	-42.37	0.83	-0.75	38.40	
7,325.00	0.62	135.79	7,323.46	59.64	-5.58	-41.34	0.36	0.23	48.35	
7,507.00	2.67	346.02	7,505.41	63.05	-5.92	-43.71	1.77	1.13	-82.29	
7,688.00	1.75	338.53	7,686.27	69.71	-7.95	-49.44	0.53	-0.51	-4.14	
7,869.00	1.56	344.14	7,867.20	74.65	-9.64	-53.82	0.14	-0.10	3.10	
8,050.00	0.70	328.80	8,048.16	77.97	-10.88	-56.85	0.50	-0.48	-8.48	
8,231.00	0.34	358.38	8,229.15	79.45	-11.47	-58.23	0.24	-0.20	16.34	
8,413.00	0.35	164.71	8,411.15	79.45	-11.34	-58.13	0.38	0.01	91.39	
8,594.00	0.78	157.76	8,592.14	77.78	-10.73	-56.62	0.24	0.24	-3.84	
8,775.00	1.54	148.67	8,773.10	74.56	-9.00	-53.26	0.43	0.42	-5.02	
8,956.00	1.21	155.17	8,954.05	70.75	-6.93	-49.28	0.20	-0.18	3.59	
9,137.00	1.85	153.81	9,134.99	66.39	-4.64	-44.94	0.35	0.35	-0.75	
9,318.00	1.67	155.39	9,315.90	61.38	-2.45	-39.95	0.10	-0.10	0.87	
9,499.00	2.01	158.69	9,496.81	56.02	-0.20	-34.87	0.20	0.19	1.82	
9,681.00	1.92	165.35	9,678.70	50.10	1.73	-29.68	0.13	-0.05	3.66	

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well NBU 921-17H
Project:	UTAH - UTM (feet), NAD27, Zone 12N	TVD Reference:	GL 4807 & KB 14 @ 4821.00ft (ENSIGN 145)
Site:	NBU 921-17H	MD Reference:	GL 4807 & KB 14 @ 4821.00ft (ENSIGN 145)
Well:	NBU 921-17H	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM5000-RobertS-Local

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
9,862.00	2.29	162.51	9,859.58	43.71	3.59	-24.27	0.21	0.20	-1.57
10,044.00	2.37	152.23	10,041.43	36.92	6.43	-17.83	0.23	0.04	-5.65
10,225.00	2.22	149.49	10,222.28	30.58	9.96	-11.14	0.10	-0.08	-1.51
10,406.00	2.66	143.99	10,403.12	24.17	14.21	-3.82	0.28	0.24	-3.04
10,587.00	3.30	145.24	10,583.87	16.49	19.64	5.20	0.36	0.35	0.69
10,768.00	3.36	151.16	10,764.57	7.56	25.17	15.07	0.19	0.03	3.27
10,949.00	3.25	155.39	10,945.27	-1.75	29.87	24.53	0.15	-0.06	2.34
11,131.00	3.78	153.37	11,126.92	-11.80	34.71	34.55	0.30	0.29	-1.11
11,317.00	3.78	153.72	11,312.52	-22.78	40.17	45.64	0.01	0.00	0.19
11,495.00	3.78	155.57	11,490.13	-33.38	45.19	56.16	0.07	0.00	1.04
LAST SDI MWD PRODUCTION SURVEY									
11,554.00	3.78	156.18	11,549.00	-36.93	46.78	59.60	0.07	0.00	1.03
SDI PROJECTION TO TD									

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
223.00	222.99	1.92	0.51	FIRST WFT MWD SURFACE SURVEY
2,890.00	2,889.68	31.17	10.68	LAST WFT MWD SURFACE SURVEY
2,977.00	2,976.67	30.12	10.31	FIRST SDI MWD PRODUCTION SURVEY
11,495.00	11,490.13	-33.38	45.19	LAST SDI MWD PRODUCTION SURVEY
11,554.00	11,549.00	-36.93	46.78	SDI PROJECTION TO TD

Checked By: _____ Approved By: _____ Date: _____