

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED
OMB No. 1004-0136
Expires November 30, 2000

5. Lease Serial No.
UTU-0464

6. If Indian, Allottee or Tribe Name

7. If Unit or CA Agreement, Name and No.
UNIT #891008900A

8. Lease Name and Well No.
NBU 1022-06DT

9. API Well No. **43-047-40158**

10. Field and Pool, or Exploratory
NATURAL BUTTES

11. Sec., T., R., M., or Blk, and Survey or Area
SEC 6-T10S-R22E

12. County or Parish
UINTAH

13. State
UT

1a. Type of Work: DRILL REENTER

b. Type of Well: Oil Well Gas Well Other Single Zone Multiple Zone

2. Name of Operator
KERR-MCGEE OIL & GAS ONSHORE LP

3A. Address
PO BOX 173779, DENVER, CO 80123

3b. Phone No. (include area code)
(720) 929-6666

4. Location of Well (Report location clearly and in accordance with any State requirements. *)
At surface **NWNW162' FNL, 311' FWL, LOT 4 629038X 39.984910**
At proposed prod. Zone **44269667 -109.488704**

14. Distance in miles and direction from nearest town or post office*
26 +/- MILES SOUTH EAST OF OURAY, UTAH

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)
162'

16. No. of Acres in lease
206.97

17. Spacing Unit dedicated to this well
40

18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.
REFER TO TOPO C

19. Proposed Depth
9100

20. BLM/BIA Bond No. on file
WYB-000291

21. Elevations (Show whether DF, KDB, RT, GL, etc.)
4875 GR

22. Approximate date work will start*
UPON APPROVAL

23. Estimated duration
TO BE DETERMINED

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 office.

25. Signature *Raleen White* | Name (Printed/Typed) **RALEEN WHITE** | Date **6/13/2008**

Title **SR. REGULATORY ANALYST**

Approved by (Signature) *Bradley G. Hill* | Name (Printed/Typed) **BRADLEY G. HILL** | Date **06-18-08**

Title **Officer ENVIRONMENTAL MANAGER**

Application approval does not warrant or certify that 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.

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.

*(Instructions on reverse)

Federal Approval of this
Action is Necessary

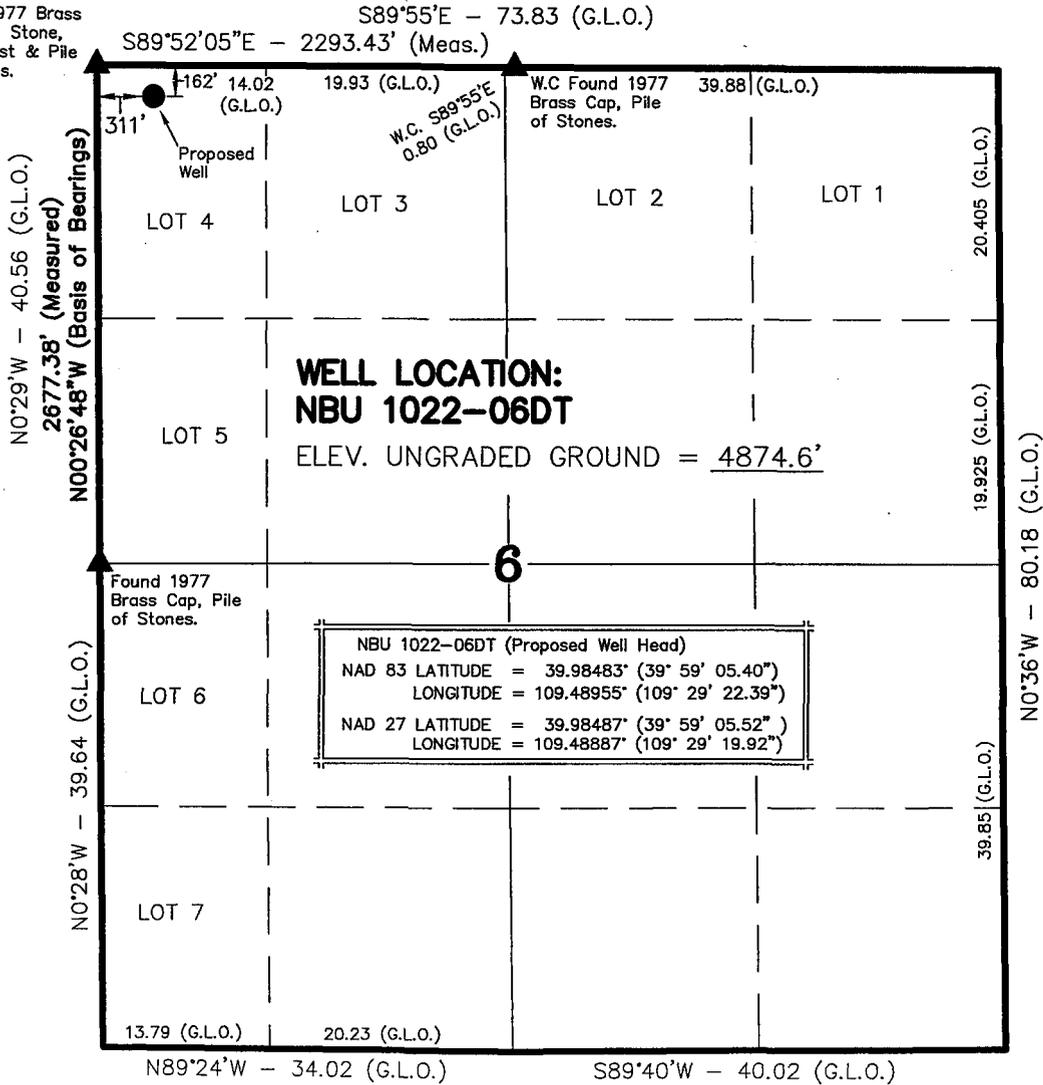
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JUN 16 2008

DIV. OF OIL, GAS & MINING

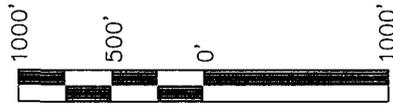
T10S, R22E, S.L.B.&M.

Found 1977 Brass Cap, Set Stone, Steel Post & Pile of Stones.



NOTES:

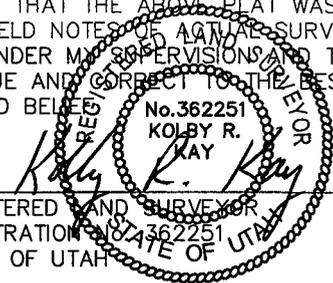
- ▲ = Section Corners Located
- 1. Well footages are measured at right angles to the Section Lines.
- 2. G.L.O. distances are shown in feet or chains. 1 chain = 66 feet.
- 3. Bearings are based on Global Positioning Satellite observations.
- 4. Basis of elevation is Tri-Sta "Two Water" located in the 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'.



SCALE

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.



REGISTERED LAND SURVEYOR
REGISTRATION No. 362251
STATE OF UTAH

**Kerr-McGee
Oil & Gas Onshore, LP**

1099 18th Street, Suite 1200 - Denver, Colorado 80202

**NBU 1022-06DT
WELL PLAT
162' FNL, 311' FWL
LOT 4 OF SECTION 6, T10S, R22E,
S.L.B.&M. UINTAH COUNTY, UTAH.**

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

TIMBERLINE (435) 789-1365
ENGINEERING & LAND SURVEYING, INC.
38 WEST 100 NORTH - VERNAL, UTAH 84078

DATE SURVEYED: 06-02-08	SURVEYED BY: M.S.B.	SHEET 2
DATE DRAWN: 06-03-08	DRAWN BY: M.W.W.	
SCALE: 1" = 1000'	Date Last Revised:	OF 7

**NBU 1022-06DT
TWIN TO NBU 116
NWNW, SEC. 6, T10S,R22E
UINTAH COUNTY, UTAH
UTU-0464**

ONSHORE ORDER NO. 1

DRILLING PROGRAM

1. Estimated Tops of Important Geologic Markers:

<u>Formation</u>	<u>Depth</u>
Uinta	0- Surface
Green River	1129'
Birds Nest	1435'
Mahogany	1908'
Wasatch	4342'
Mesaverde	6966'
TD	9100'

2. Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations:

<u>Substance</u>	<u>Formation</u>	<u>Depth</u>
	Green River	1129'
Water	Birds Nest	1435'
Water	Mahogany	1908'
Gas	Wasatch	4342'
Gas	Mesaverde	6966'
Water	N/A	
Other Minerals	N/A	

3. Pressure Control Equipment (Schematic Attached)

Please see the Natural Buttes Unit Standard Operating Procedure (SOP).

4. Proposed Casing & Cementing Program:

Please see the Natural Buttes Unit SOP.

5. Drilling Fluids Program:

Please see the Natural Buttes Unit SOP.

6. Evaluation Program:

Please see the Natural Buttes Unit SOP.

7. **Abnormal Conditions:**

Maximum anticipated bottomhole pressure calculated at 9100' TD, approximately equals 5642 psi (calculated at 0.62 psi/foot).

Maximum anticipated surface pressure equals approximately 3640 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. **Variations:**

Please see Natural Buttes Unit SOP. Please see KMG sundry regarding variance request to Onshore Order #2 regarding Air drilling for surface casing

10. **Other Information:**

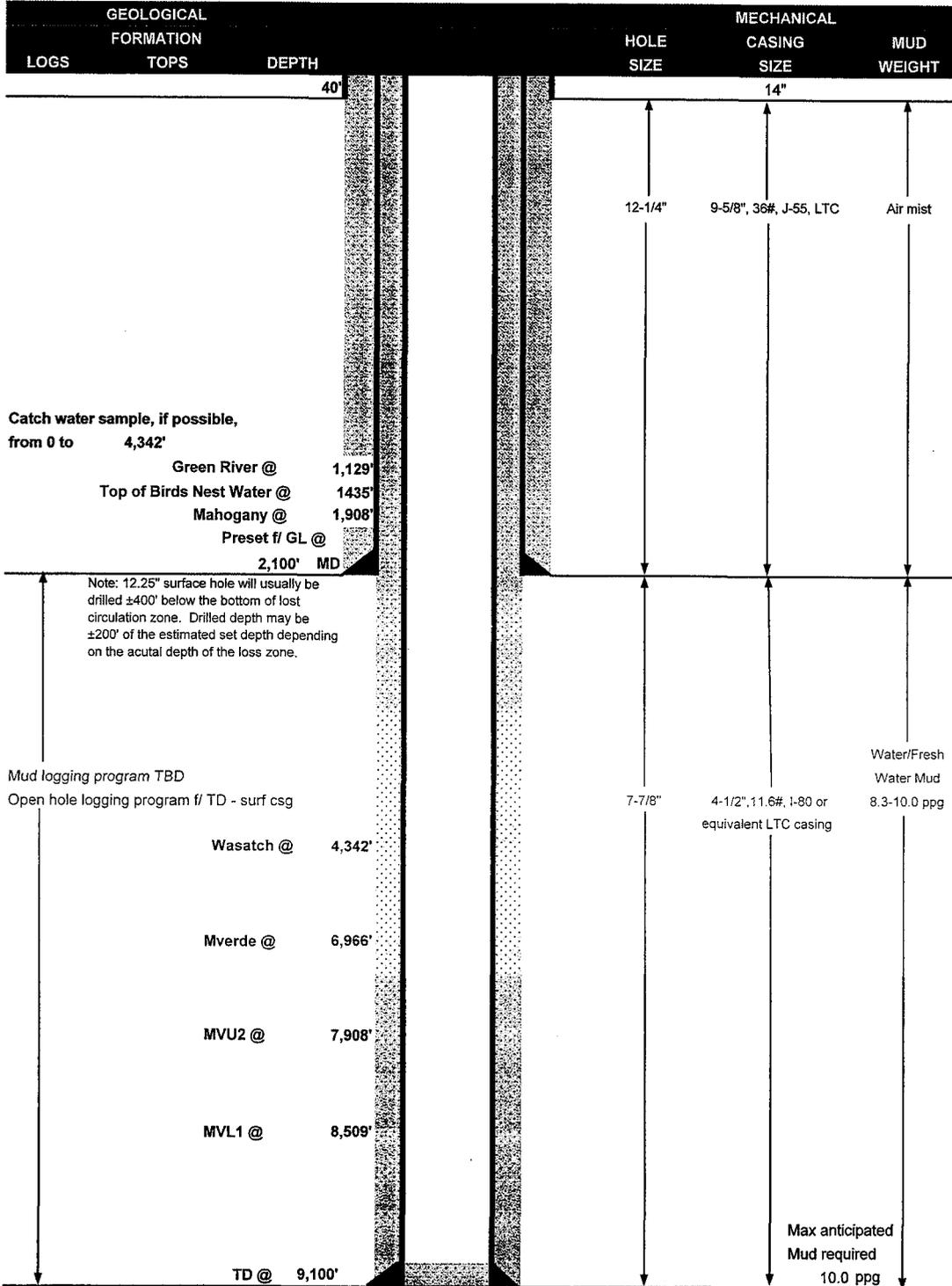
Please see Natural Buttes Unit SOP.



KERR-McGEE OIL & GAS ONSHORE LP

DRILLING PROGRAM

COMPANY NAME KERR-McGEE OIL & GAS ONSHORE LP DATE June 13, 2008
 WELL NAME NBU 1022-06DT TD 9,100' MD/TVD
 FIELD Natural Buttes COUNTY Uintah STATE Utah ELEVATION 4,875' GL KB 4,890'
 SURFACE LOCATION NWNW- SEC. 6, T10S, R22E - 162' FNL, 311' FWL LOT 4 BHL Straight Hole
 Latitude: 39.984870 Longitude: 109.488870
 OBJECTIVE ZONE(S) Wasatch/Mesaverde
 ADDITIONAL INFO Regulatory Agencies: UDOGM (SURF & MINERALS), BLM, Tri-County Health Dept.





KERR-McGEE OIL & GAS ONSHORE LP
DRILLING PROGRAM

CASING PROGRAM

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS		
						BURST	COLLAPSE	TENSION
CONDUCTOR	14"	0-40'						
SURFACE	9-5/8"	0 to 2100	36.00	J-55	LTC	3520 1.29	2020 2.06	453000 7.63
PRODUCTION	4-1/2"	0 to 9100	11.60	I-80	LTC	7780 2.85	6350 1.34	201000 2.18

- 1) Max Anticipated Surf. Press.(MASP) (Surface Casing) = (Pore Pressure at next csg point-(0.22 psi/ft-partial evac gradient x TVD of next csg point)
 2) MASP (Prod Casing) = Pore Pressure at TD - (.22 psi/ft-partial evac gradient x TD)
 (Burst Assumptions: TD = 10.0 ppg) .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 2730 psi

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE	LEAD	500	Premium cmt + 2% CaCl + .25 pps flocele	215	60%	15.60	1.18
Option 1	TOP OUT CMT (1)	200	20 gals sodium silicate + Premium cmt + 2% CaCl + .25 pps flocele	50		15.60	1.18
	TOP OUT CMT (2)	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
SURFACE		NOTE: If well will circulate water to surface, option 2 will be utilized					
Option 2	LEAD	1500	Prem cmt + 16% Gel + 10 pps gilsonite +.25 pps Flocele + 3% salt BWOC	170	35%	11.00	3.82
	TAIL	500	Premium cmt + 2% CaCl + .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	3,840'	Premium Lite II + 3% KCl + 0.25 pps celloflake + 5 pps gilsonite + 10% gel + 0.5% extender	420	60%	11.00	3.38
	TAIL	5,260'	50/50 Poz/G + 10% salt + 2% gel +.1% R-3	1470	60%	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 to top of tail cement with 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. Test to 5,000 psi (annular to 2,500 psi) prior to drilling out. Record on chart recorder & tour sheet. Function test rams on each trip. Maintain safety valve & inside BOP on rig floor at all times. Kelly to be equipped with upper & 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:** _____
 Brad Laney
DRILLING SUPERINTENDENT: _____ **DATE:** _____
 Randy Bayne

**NBU 1022-06DT
TWIN TO NBU 116
NWNW, SEC. 6, T10S, R22E, SLB&M
UINTAH COUNTY, UTAH
UTU-0464**

ONSHORE ORDER NO. 1

MULTI-POINT SURFACE USE & OPERATIONS PLAN

1. Existing Roads:

Refer to the attached location directions.

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

2. Planned Access Roads:

No new access road is proposed. Refer to Topo Map B.

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.

Please see the Natural Buttes Unit Standard Operating Procedure (SOP).

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

Please refer to Topo Map C.

4. Location of Existing & Proposed Facilities:

Please see the Natural Buttes Unit SOP.

Utilizing existing pipeline.

Variances to Best Management Practices (BMPs) Requested:

All facilities will be painted within six months of installation. Facilities required to comply with the Occupational Safety and Health Act (OSHA) will be excluded. The requested color is Carlsbad Canyon Brown (2.5Y 6/2), a non-reflective earthtone.

Interim Surface Reclamation Plan:

This exception is requested due to the current twin and multi-well program. If determined that this well will not be a candidate for either twinning &/or multi-well the operator shall spread the topsoil pile on the location up to the rig anchor points. The location will be reshaped to the original contour to the extent possible. The operator will reseed the area using the BLM recommended seed mixture and reclamation methods.

5. **Location and Type of Water Supply:**

Please see the Natural Buttes SOP.

6. **Source of Construction Materials:**

Please see the Natural Buttes SOP.

7. **Methods of Handling Waste Materials:**

Please see the Natural Buttes SOP.

A plastic reinforced liner is to be used as discussed during on-site inspection. It will be a minimum of 20 mil thick and felt, with sufficient bedding used to cover any rocks. The liner will overlap the pit walls and be covered with dirt and/or rocks to hold it in place. No trash or scrap that could puncture the liner will be disposed of in the pit.

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, Sec. 5, T9S, R22E, NBU #159, Sec. 35, T9S R21E, Ace Oilfield, Sec. 2, T6S, R20E, MC&MC, Sec. 12, T6S, R19E, Pipeline Facility Sec. 36, T9S, R20E, Goat Pasture Evaporation Pond SW/4 Sec. 16, T10S, R22E, Bonanza Evaporation Pond Sec. 2, T10S, R23E (*Request is in lieu of filing Form 3160-5, after initial production*).

8. **Ancillary Facilities:**

Please see the Natural Buttes SOP.

9. **Well Site Layout:** (See Location Layout Diagram)

The attached Location Layout Diagram describes drill pad cross-sections, cuts and fills, and locations of the mud tanks, reserve pit, flare pit, pipe racks, trailer parking, spoil dirt stockpile(s), and surface material stockpile(s).

Please see the attached diagram to describe rig orientation, parking areas, and access roads.

Location size may change prior to the drilling of the well due to the current rig availability. If the proposed location is not large enough to accommodate the drilling rig. The location will be re-surveyed and a form 3160-5 will be submitted.

10. **Plans for Reclamation of the Surface:**

Please see the Natural Buttes SOP.

Upon reclamation of the pit the operator will utilize the same seed mix approved for the NBU 165. Operator shall call the BLM for the seed mixture when final reclamation occurs.

11. Surface and Mineral Ownership:

The well pad, access road, pipeline and mineral ownership are listed below:

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

13. Other Information:

A Class III archaeological survey, T&E Clearance and a paleontological survey have been performed and will be sent to the BLM with a form letter

This location is not within 460' from the boundary of the Natural Buttes Unit, nor is it within 460' of any non-committed tract lying within the boundaries of the Unit.

13. Lessee's or Operator's Representative & Certification:

Raleen White
Sr. Regulatory Analyst
Kerr-McGee Oil & Gas Onshore LP
PO Box 173779
Denver, CO
(720) 929-6666

Randy Bayne
Drilling Manager
Kerr-McGee Oil & Gas Onshore LP
1368 South 1200 East
Vernal, UT 84078
(435) 781-7018

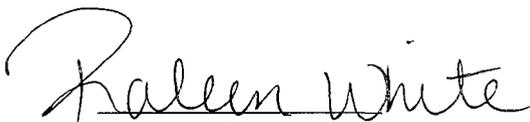
Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

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 the terms and conditions of the lease for the operations conducted upon leased lands.

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.

Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by BLM 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 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 by the Operator, its contractors, and subcontractors in conformity with this plan and the terms and conditions under which it is approved.


Raleen White

6/13/2008
Date

Kerr-McGee Oil & Gas Onshore, LP
NBU #1022-06DT
SECTION 6, T10S, R22E, S.L.B.&M.

PROCEED IN A WESTERLY DIRECTION FROM VERNAL, UTAH, ALONG U.S. HIGHWAY 40 APPROXIMATELY 13.2 MILES TO THE JUNCTION OF STATE HIGHWAY 88; EXIT LEFT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 16.5 MILES TO OURAY, UTAH; PROCEED FROM OURAY, UTAH, IN A SOUTHERLY DIRECTION ON STATE HIGHWAY 88 APPROXIMATELY 9.4 MILES TO THE JUNCTION OF STATE HIGHWAY 88 AND SEEP RIDGE ROAD; EXIT LEFT AND PROCEED IN A SOUTHEASTERLY DIRECTION APPROXIMATELY 1.7 MILES TO THE JUNCTION OF THIS ROAD AND GLEN BENCH ROAD; EXIT LEFT AND PROCEED IN AN EASTERLY DIRECTION FOR APPROXIMATELY 5.1 MILES TO THE JUNCTION OF THIS ROAD AND BITTER CREEK ROAD; TURN RIGHT AND PROCEED IN A SOUTHERLY DIRECTION, GRADUALLY CHANGING TO SOUTHEASTERLY FOR APPROXIMATELY 4.0 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTH; TURN LEFT AND PROCEED IN A NORTHERLY DIRECTION, GRADUALLY CHANGING TO NORTHEASTERLY APPROXIMATELY 3.1 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHWEST; TURN LEFT AND PROCEED IN A NORTHWESTERLY DIRECTION APPROXIMATELY 0.2 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE WEST; TURN LEFT AND PROCEED IN A WESTERLY DIRECTION, GRADUALLY CHANGING TO NORTHWESTERLY APPROXIMATELY 5.2 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTH; TURN LEFT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 0.3 MILES TO THE JUNCTION OF THIS ROAD AND THE PROPOSED NBU 1022-06DT WELL LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH, TO THE PROPOSED NBU 1022-06DT WELL LOCATION IS APPROXIMATELY 58.7 MILES.

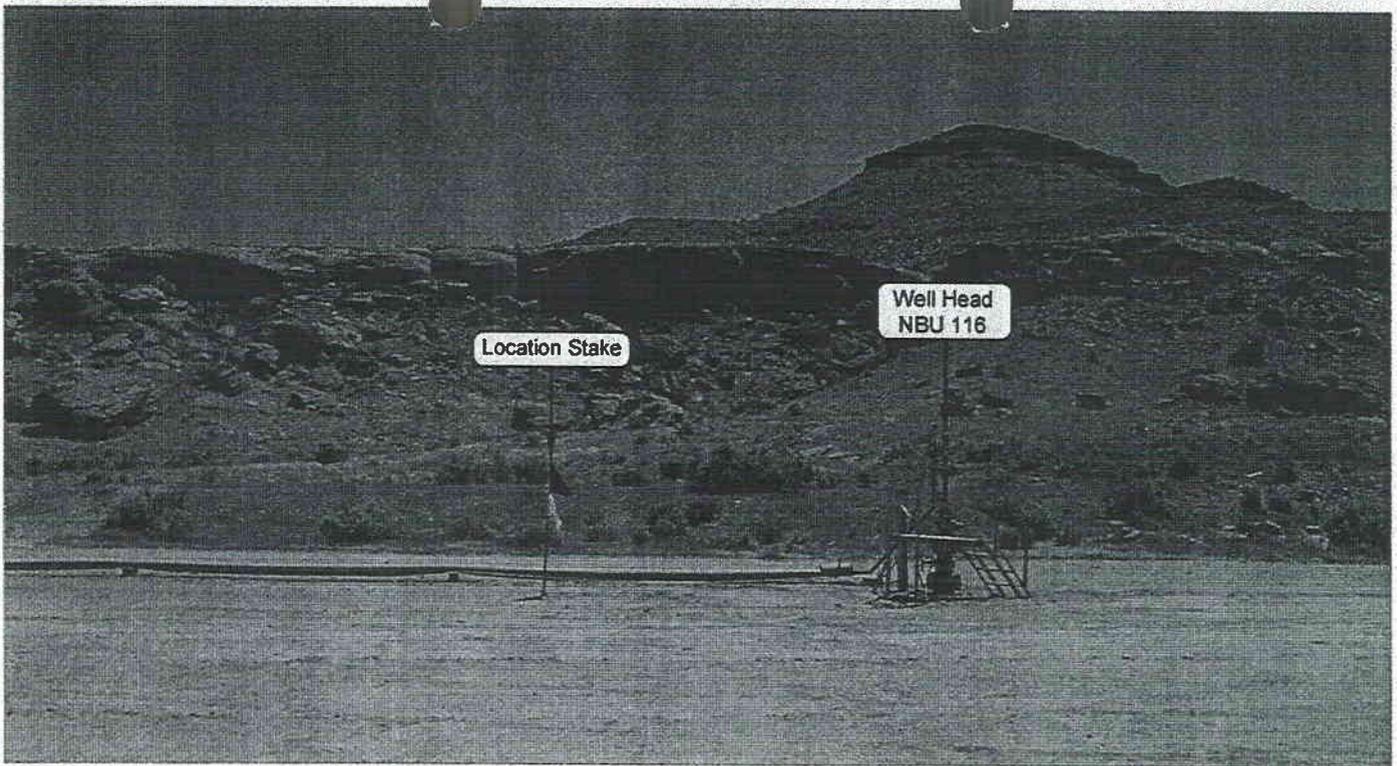


PHOTO VIEW: LOCATION STAKE

CAMERA ANGLE: EASTERLY

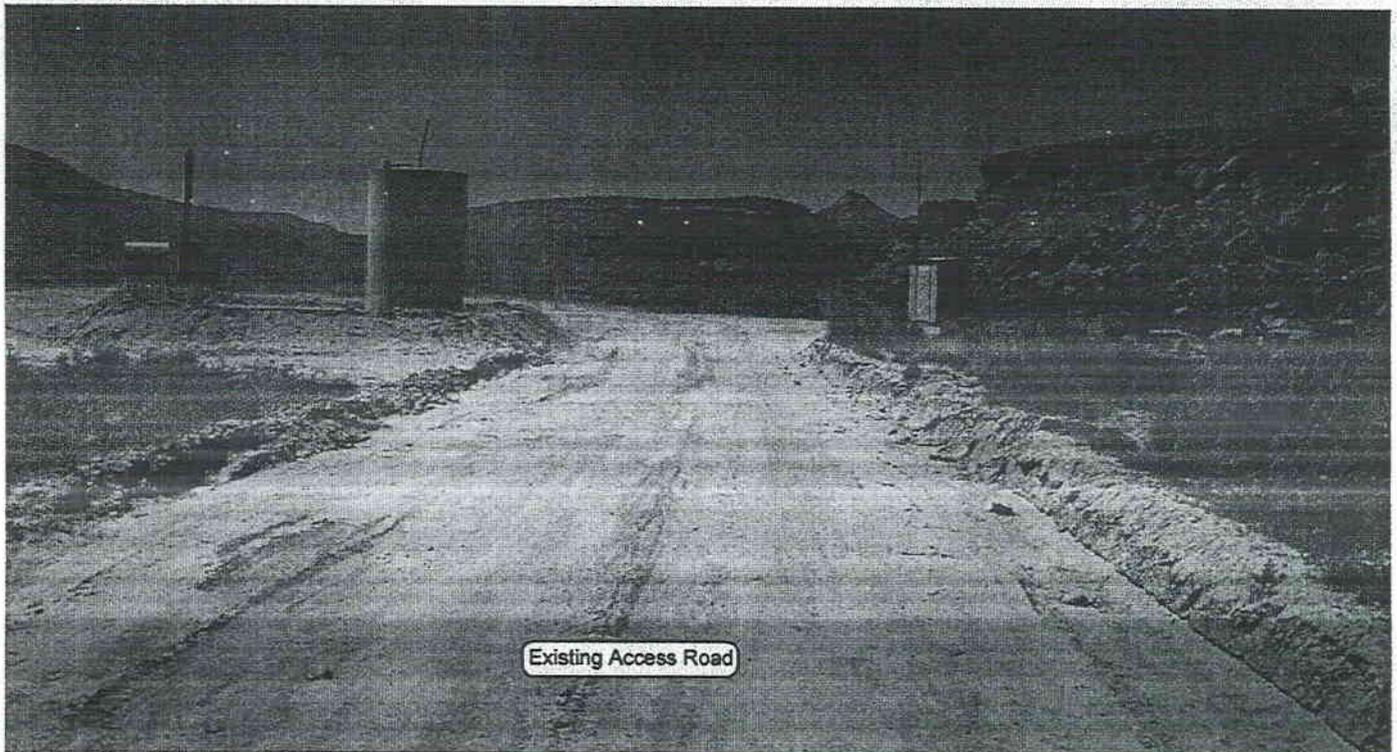


PHOTO VIEW: EXISTING ROAD

CAMERA ANGLE: SOUTHERLY

**Kerr-McGee
Oil & Gas Onshore, LP**

1099 18th Street, Suite 1200 - Denver, Colorado 80202

NBU 1022-06DT
162' FNL, 311' FWL
LOT 4 OF SECTION 6, T10S, R22E,
S.L.B.&M. UINTAH COUNTY, UTAH.



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

LOCATION PHOTOS

TAKEN BY: M.S.B.

DRAWN BY: M.W.W.

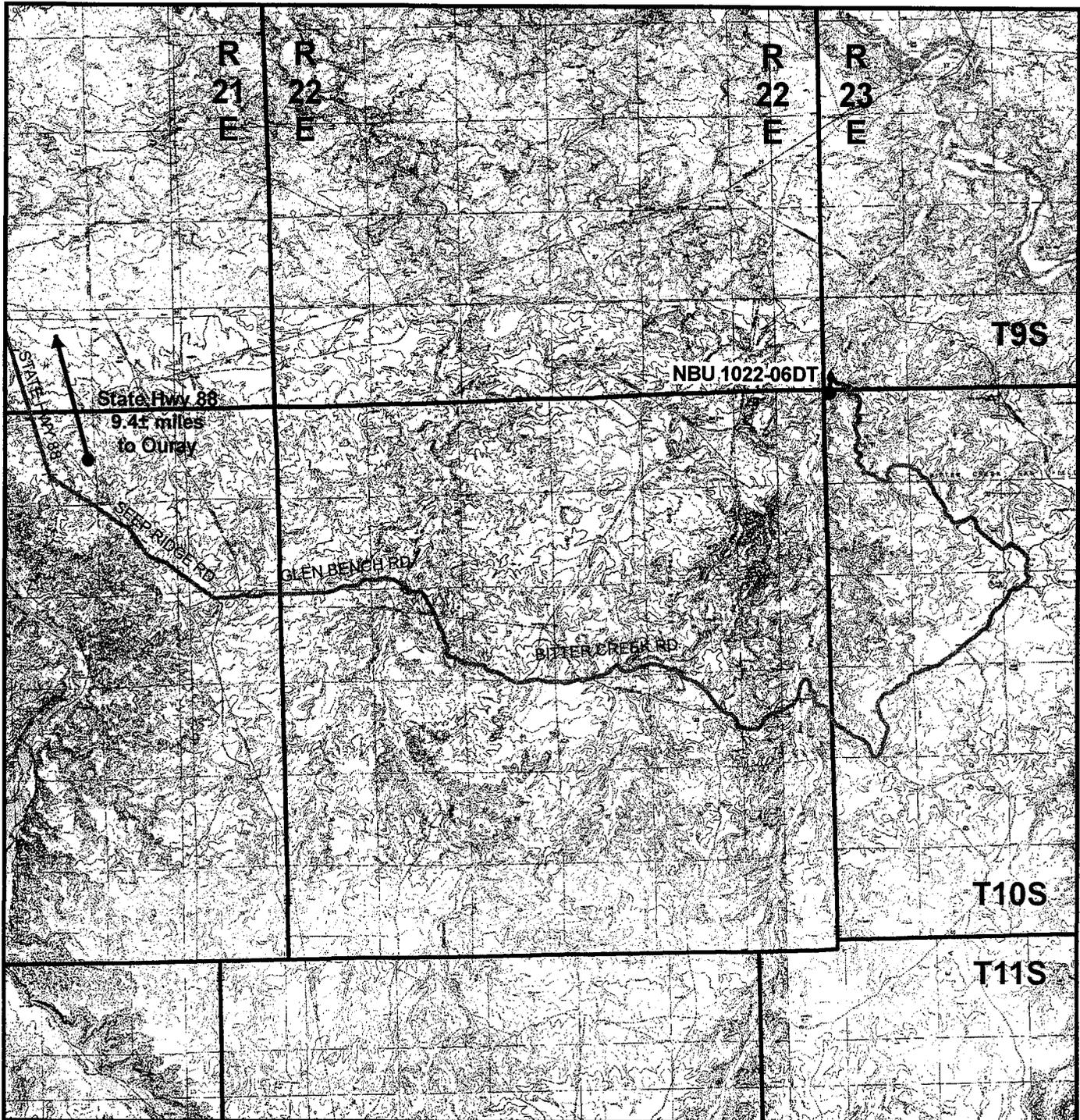
DATE TAKEN: 06-02-08

DATE DRAWN: 06-04-08

REVISED:

Timberline (435) 789-1365
Engineering & Land Surveying, Inc.
38 WEST 100 NORTH VERNAL, UTAH 84078

SHEET
4
OF 7



Legend

- Proposed NBU 1022-06DT Well Location
- Existing Access Roads

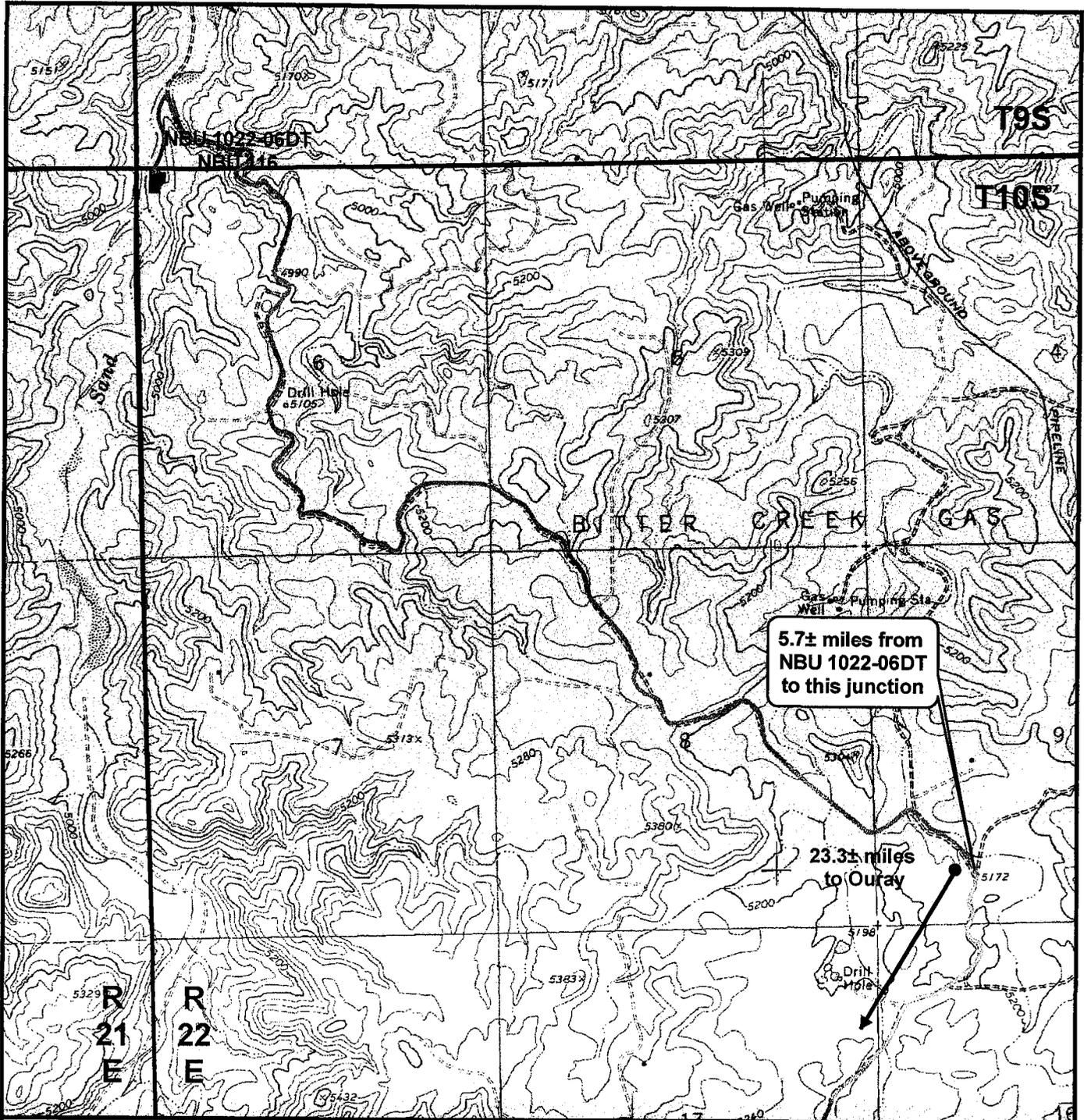
Kerr-McGee Oil & Gas Onshore, LP
 1099 18th Street, Suite 1200 - Denver, Colorado 80202

NBU 1022-06DT
Topo A
162' FNL, 311' FWL
Lot 4, Section 6, T10S, R22E
S.L.B.&M., Uintah County, Utah



CONSULTING, LLC
 371 Coffeen Avenue
 Sheridan, WY 82801
 Phone (307) 673-0036
 Fax (307) 674-0182

Scale: 1:100,000	NAD83 USP Central	Sheet No:
Drawn: JELo	Date: 6 June 2008	5 5 of 7
Revised:	Date:	



Legend

● Proposed NBU 1022-06DT Well Location

—— Existing Access Roads

Kerr-McGee Oil & Gas Onshore, LP
 1099 18th Street, Suite 1200 - Denver, Colorado 80202

NBU 1022-06DT
Topo B
 162' FNL, 311' FWL
 Lot 4, Section 6, T10S, R22E
 S.L.B.&M., Uintah County, Utah



CONSULTING, LLC
 371 Coffeen Avenue
 Sheridan, WY 82801
 Phone (307) 673-0036
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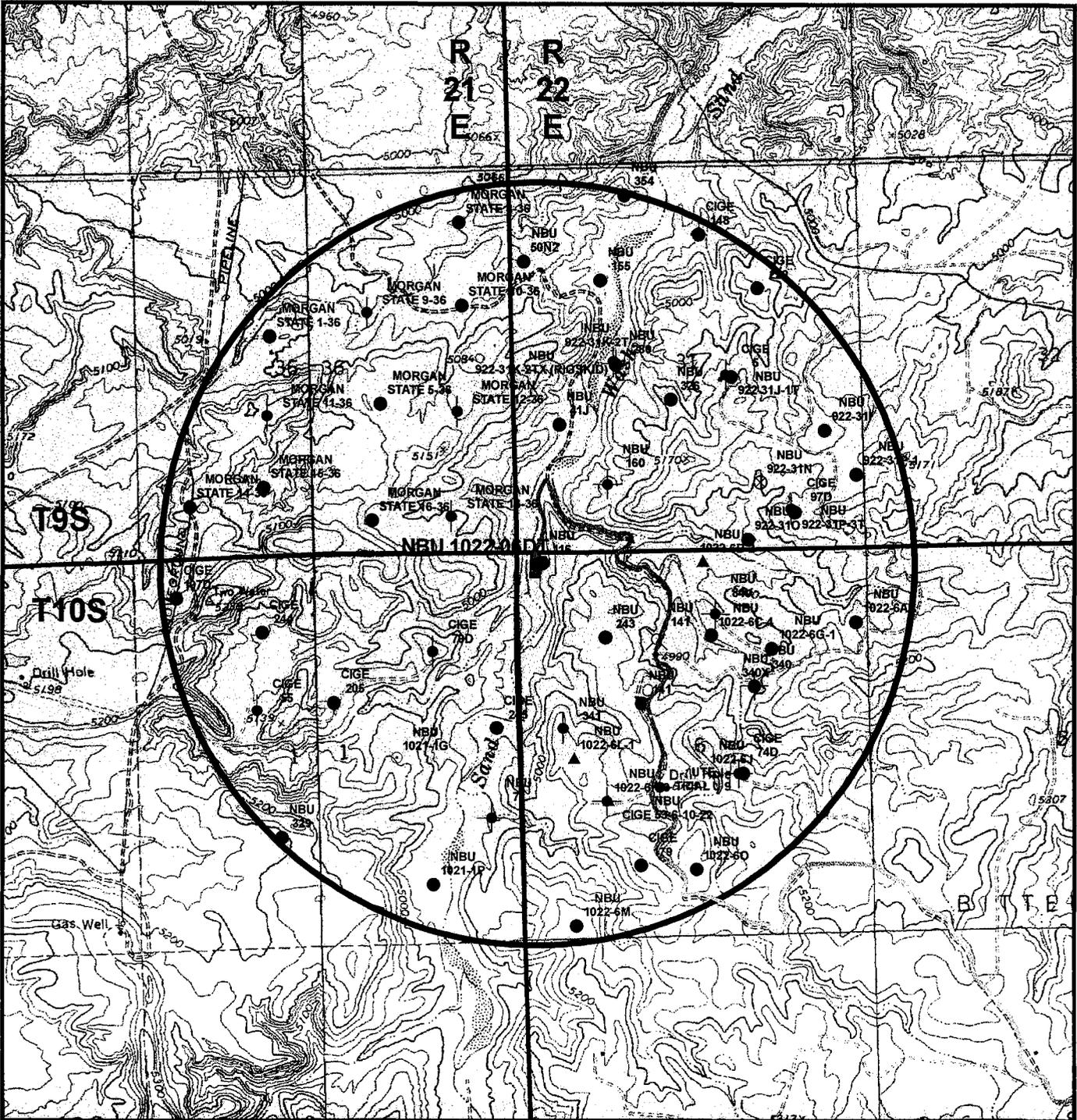


Scale: 1" = 2000ft NAD83 USP Central Sheet No:

Drawn: JELo Date: 6 June 2008
 Revised: Date:

6

6 of 7



Legend

● Proposed NBU 1022-06DT Well Location

— Existing Access Roads

- Producing
- Spudded (Drilling commenced: Not yet complete)
- ▲ Approved permit (APD); not yet spudded
- ⊗ Location Abandoned
- ⊕ Plugged and Abandoned
- Shut-In
- ⊗ Returned APD (Unapproved)

Kerr-McGee Oil & Gas Onshore, LP
 1099 18th Street, Suite 1200 - Denver, Colorado 80202



CONSULTING, LLC
 371 Coffeen Avenue
 Sheridan, WY 82801
 Phone (307) 673-0036
 Fax (307) 674-0182

NBU 1022-06DT
Topo C
 162' FNL, 311' FWL
 Lot 4, Section 6, T10S, R22E
 S.L.B.&M., Uintah County, Utah

Scale: 1" = 2000ft	NAD83 USP Central	Sheet No:
Drawn: JELO	Date: 6 June 2008	7
Revised:	Date:	7 of 7

**WORKSHEET
APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 06/16/2008

API NO. ASSIGNED: 43-047-40158

WELL NAME: NBU 1022-06DT
 OPERATOR: KERR-MCGEE OIL & GAS (N2995)
 CONTACT: RALEEN WHITE

PHONE NUMBER: 720-929-6666

PROPOSED LOCATION:

NWNW 06 100S 220E
 SURFACE: 0162 FNL 0311 FWL
 BOTTOM: 0162 FNL 0311 FWL
 COUNTY: UINTAH
 LATITUDE: 39.98491 LONGITUDE: -109.4887
 UTM SURF EASTINGS: 629038 NORTHINGS: 4426966
 FIELD NAME: NATURAL BUTTES (630)

INSPECT LOCATN BY: / /		
Tech Review	Initials	Date
Engineering		
Geology		
Surface		

LEASE TYPE: 1 - Federal
 LEASE NUMBER: UTU-0464
 SURFACE OWNER: 1 - Federal

PROPOSED FORMATION: MVRD
 COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

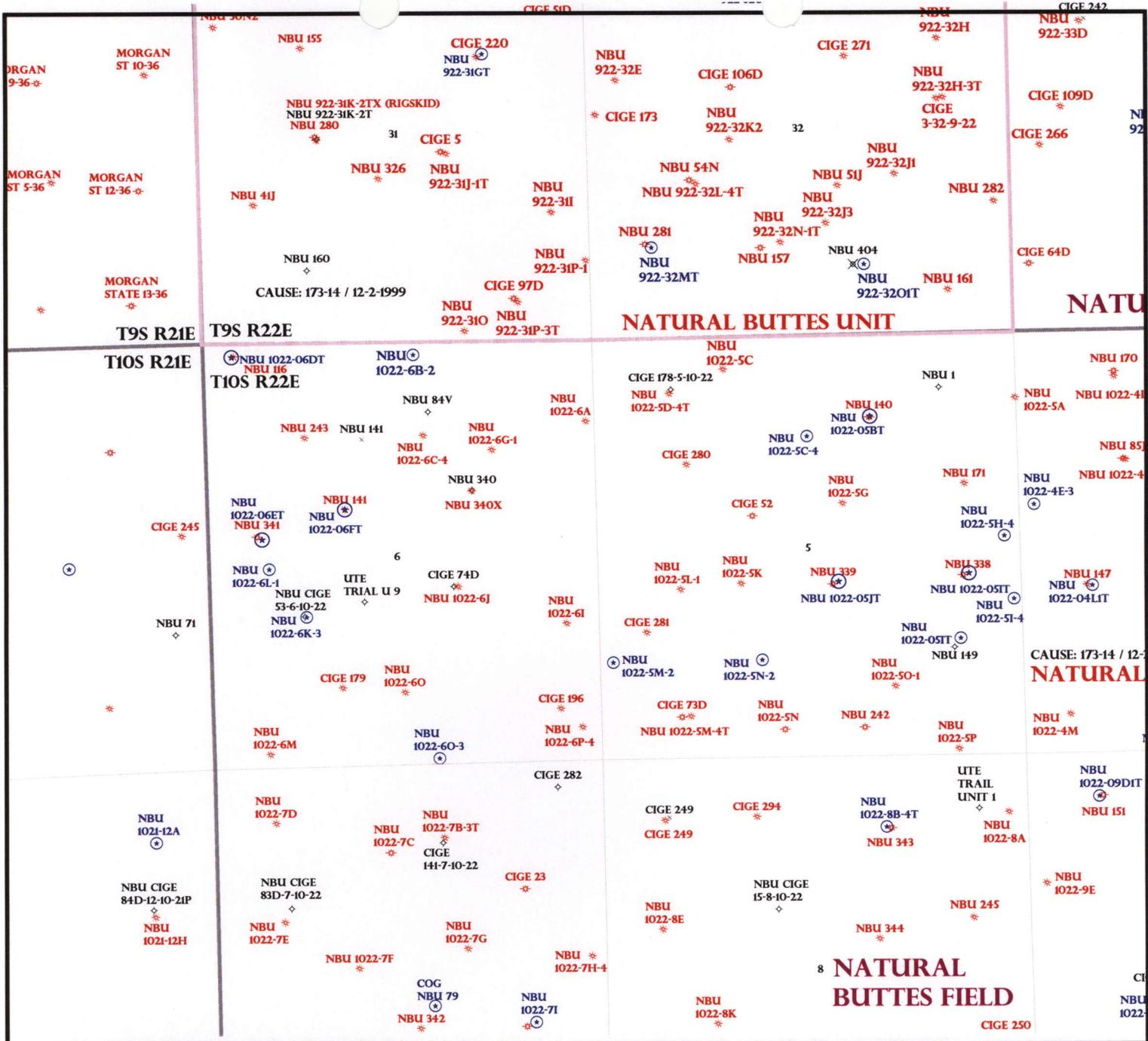
- Plat
- Bond: Fed[1] Ind[] Sta[] Fee[]
(No. WYB-000291)
- N Potash (Y/N)
- Y Oil Shale 190-5 (B) or 190-3 or 190-13
- Water Permit
(No. 43-8496)
- N RDCC Review (Y/N)
(Date: _____)
- N/A Fee Surf Agreement (Y/N)
- N/A Intent to Commingle (Y/N)

LOCATION AND SITING:

- ___ R649-2-3.
- Unit: NATURAL BUTTES
- ___ R649-3-2. General
Siting: 460' From Qtr/Qtr & 920' Between Wells
- ___ R649-3-3. Exception
- Drilling Unit
Board Cause No: 173-14
Eff Date: 12-2-1999
Siting: 460' fr u/bdy of uncomm. Tract
- ___ R649-3-11. Directional Drill

COMMENTS: Stop, Separate Plc

STIPULATIONS: 1- Federal Operator
2- Oil Shale



OPERATOR: KERR MCGEE O&G (N2995)

SEC: 5,6 T.10S R. 22E

FIELD: NATURAL BUTTES (630)

COUNTY: UINTAH

CAUSE: 173-14 / 12-2-1999

- Field Status**
- ABANDONED
 - ACTIVE
 - COMBINED
 - INACTIVE
 - PROPOSED
 - STORAGE
 - TERMINATED

- Unit Status**
- EXPLORATORY
 - GAS STORAGE
 - NF PP OIL
 - NF SECONDARY
 - PENDING
 - PI OIL
 - PP GAS
 - PP GEOTHERML
 - PP OIL
 - SECONDARY
 - TERMINATED

- Wells Status**
- GAS INJECTION
 - GAS STORAGE
 - LOCATION ABANDONED
 - NEW LOCATION
 - PLUGGED & ABANDONED
 - PRODUCING GAS
 - PRODUCING OIL
 - SHUT-IN GAS
 - SHUT-IN OIL
 - TEMP. ABANDONED
 - TEST WELL
 - WATER INJECTION
 - WATER SUPPLY
 - WATER DISPOSAL
 - DRILLING



PREPARED BY: DIANA MASON
DATE: 17-JUNE-2008

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)

June 18, 2008

Memorandum

To: Assistant District Manager Minerals, Vernal District
From: Michael Coulthard, Petroleum Engineer
Subject: 2008 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 2008 within the Natural Buttes Unit, Uintah County, Utah.

API #	WELL NAME	LOCATION
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(Proposed PZ MesaVerde)

43-047-40146	NBU 922-29LT	Sec 29 T09S R22E 1978 FSL 0957 FWL
43-047-40147	NBU 922-32AT	Sec 32 T09S R22E 0457 FNL 0113 FEL
43-047-40148	NBU 922-32BT	Sec 32 T09S R22E 0701 FNL 2116 FEL
43-047-40149	NBU 1022-03FT	Sec 03 T10S R22E 2059 FNL 1825 FWL
43-047-40150	NBU 1022-03CT	Sec 03 T10S R22E 0715 FNL 1777 FWL
43-047-40151	NBU 1022-04HT	Sec 04 T10S R22E 2015 FNL 0566 FEL
43-047-40152	NBU 1022-04AT	Sec 04 T10S R22E 0544 FNL 1278 FEL
43-047-40153	NBU 1022-05JT	Sec 05 T10S R22E 2203 FSL 2319 FEL
43-047-40154	NBU 1022-05IT	Sec 05 T10S R22E 2288 FSL 0691 FEL
43-047-40155	NBU 1022-05BT	Sec 05 T10S R22E 1028 FNL 1886 FEL
43-047-40156	NBU 1022-06ET	Sec 06 T10S R22E 2475 FNL 0628 FWL
43-047-40157	NBU 1022-06FT	Sec 06 T10S R22E 2108 FNL 1669 FWL
43-047-40158	NBU 1022-06DT	Sec 06 T10S R22E 0162 FNL 0311 FWL

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

/s/ Michael L. Coulthard



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

June 18, 2008

Kerr-McGee Oil & Gas Onshore LP
P O Box 173779
Denver, CO 80217-3779

Re: NBU 1022-06DT Well, 162' FNL, 311' FWL, NW NW, Sec. 6, T. 10 South, R. 22 East, Uintah County, Utah

Gentlemen:

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

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-047-40158.

Sincerely,

Gil Hunt
Associate Director

pab
Enclosures

cc: Uintah County Assessor
Bureau of Land Management, Vernal Office

Operator: Kerr-McGee Oil & Gas Onshore LP

Well Name & Number NBU 1022-06DT

API Number: 43-047-40158

Lease: UTU-0464

Location: NW NW Sec. 6 T. 10 South R. 22 East

Conditions of Approval

1. General

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

2. Notification Requirements

Notify the Division within 24 hours of spudding the well.

- Contact Carol Daniels at (801) 538-5284.

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

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

3. Reporting Requirements

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

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

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

RECEIVED
VERNAL FIELD OFFICE

FORM APPROVED
OMB No. 1004-0136
Expires November 30, 2000

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

2008 JUN 25 AM 10 19

DEPT OF THE INTERIOR
BUREAU OF LAND MGMT

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No. UTU-0464

6. If Indian, Allottee or Tribe Name

7. If Unit or CA Agreement, Name and No. UNIT #891008900A

8. Lease Name and Well No. NBU 1022-06DT

9. API Well No. 43 047 40158

10. Field and Pool, or Exploratory NATURAL BUTTES

11. Sec., T., R., M., or Blk, and Survey or Area SEC 6-T10S-R22E

12. County or Parish UTAH 13. State UT

1a. Type of Work: DRILL REENTER

b. Type of Well: Oil Well Gas Well Other Single Zone Multiple Zone

2. Name of Operator KERR-MCGEE OIL & GAS ONSHORE LP

3a. Address PO BOX 173779, DENVER, CO 80123 3b. Phone No. (include area code) (720) 929-6666

4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface NWNW162' FNL, 311' FWL, LOT 4 At proposed prod. Zone

14. Distance in miles and direction from nearest town or post office* 26 +/- MILES SOUTH EAST OF OURAY, UTAH

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 162'

16. No. of Acres in lease 206.97

17. Spacing Unit dedicated to this well 40

18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. REFER TO TOPO C

19. Proposed Depth 9100

20. BLM/BIA Bond No. on file WYB-000291

21. Elevations (Show whether DF, KDB, RT, GL, etc.) 4875 GR

22. Approximate date work will start* UPON APPROVAL

23. Estimated duration TO BE DETERMINED

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 office.

25. Signature *Raleen White* Name (Printed/Typed) RALEEN WHITE Date 6/13/2008

Title SR. REGULATORY ANALYST

Approved by (Signature) *John Kowala* Name (Printed/Typed) John Kowala Date NOV 19 2008

Title Assistant Field Manager Lands & Mineral Resources Office VERNAL FIELD OFFICE

Application approval does not warrant or certify that 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 ATTACHED

Conditions of approval, if any, are 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.

*(Instructions on reverse)

NOS APD posted 6/25/08
AFMSS# 08SX5 0153A

NOTICE OF APPROVAL
UDOGM

RECEIVED
NOV 24 2008
DIV. OF OIL, GAS & MINING



**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:	Lot 4, Sec.6, T10S, R22E
Well No:	NBU 1022-06DT	Lease No:	UTU-464
API No:	43-047-40158	Agreement:	Natural Buttes Unit

Title	Name	Office Phone Number	Cell Phone Number
Petroleum Engineer:	Matt Baker	(435) 781-4490	(435) 828-4470
Petroleum Engineer:	Michael Lee	(435) 781-4432	(435) 828-7875
Petroleum Engineer:	Ryan Angus	(435) 781-4430	(435) 828-7368
Supervisory Petroleum Technician:	Jamie Sparger	(435) 781-4502	(435) 828-3913
Supervisory NRS:	Karl Wright	(435) 781-4484	
NRS/Enviro Scientist:	Holly Villa	(435) 781-4404	(435) 828-3544
NRS/Enviro Scientist:	James Hereford	(435) 781-3412	(435) 828-3546
NRS/Enviro Scientist:	Chuck Macdonald	(435) 781-4441	(435) 828-7481
NRS/Enviro Scientist:	Dan Emmett	(435) 781-3414	(435) 828-4029
NRS/Enviro Scientist:	Paul Percival	(435) 781-4493	(435) 828-7381
NRS/Enviro Scientist:	Anna Figueroa	(435) 781-3407	(435) 828-3548
NRS/Enviro Scientist:	Verlyn Pindell	(435) 781-3402	(435) 828-3547
NRS/Enviro Scientist:	Nathan Packer	(435) 781-3405	(435) 828-3545
NRS/Enviro Scientist:	David Gordon	(435) 781-4424	

Fax: (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

Location Construction (Notify Environmental Scientist)	-	Forty-Eight (48) hours prior to construction of location and access roads.
Location Completion (Notify Environmental Scientist)	-	Prior to moving on the drilling rig.
Spud Notice (Notify Petroleum Engineer)	-	Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to running casing and cementing all casing strings.
BOP & Related Equipment Tests (Notify Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify 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.

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

- If there is an active Gilsonite mining operation within 2 miles of the well location, operator shall notify the Gilsonite operator at least 48 hours prior to any blasting during construction.
- If paleontological materials are uncovered during construction, the operator is to immediately stop work and contact the Authorized Officer (AO). A determination will be made by the AO as to what mitigation may be necessary for the discovered paleontologic material before construction can continue.

SITE SPECIFIC COAs:

Golden Eagle - January 1 through August 31
No drilling or construction during the above indicated dates unless nest is not active.
Per recommendation of the BLM authorized agent.

DOWNHOLE PROGRAM CONDITIONS OF APPROVAL (COAs)

SITE SPECIFIC DOWNHOLE COAs:

- A copy of Kerr McGee's Standard Operating Practices (dated 7/17/08 and approved 7/28/08) shall be on location.
- Kerr McGee and their contractors shall strictly adhere to all operating practices in the SOP along with all Oil and Gas rules and requirements listed in the Code of Federal Regulations and all Federal Onshore Oil and Gas Orders except where variances have been granted.

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.**
- 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_Welllogs@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.

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 ($\frac{1}{4}$, 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.
- 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.
- 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.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0135
Expires: July 31, 2010

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. UTU464
2. Name of Operator KERR-MCGEE OIL&GAS ONSHORE LP Contact: KATHY SCHNEEBECK DULNOAN Email: kathy.schneebeckdulnoan@anadarko.com		6. If Indian, Allottee or Tribe Name
3a. Address PO BOX 173779 DENVER, CO 80123	3b. Phone No. (include area code) Ph: 720-929-6007 Fx: 720-929-7007	7. If Unit or CA/Agreement, Name and/or No. 891008900A
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 6 T10S R22E NWNW 162FNL 311FWL 39.98491 N Lat, 109.48870 W Lon		8. Well Name and No. NBU 1022-06DT
		9. API Well No. 43-047-40158
		10. Field and Pool, or Exploratory NATURAL BUTTES
		11. County or Parish, and State UINTAH COUNTY, UT

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other Change to Original APD
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Kerr-McGee Oil & Gas Onshore LP (KMG) respectfully requests a change to the surface location of this well to accommodate the new drilling rigs.

The surface location is changing
FROM: 162' FNL 311' FWL
TO: 202' FNL 310' FWL

629038x 39.984794
44269534 -109.488715

Please see the attached revised survey plats and interference diagram reflecting this change in surface location. All other information remains the same, including the amount of disturbance.

If you have any questions, please contact the undersigned. Thank you.

COPY SENT TO OPERATOR

Date: 4.14.2009
Initials: KS

Federal Approval of this Action is Necessary

14. I hereby certify that the foregoing is true and correct. Electronic Submission #68700 verified by the BLM Well Information System For KERR-MCGEE OIL&GAS ONSHORE LP, sent to the Vernal	
Name (Printed/Typed) KATHY SCHNEEBECK DULNOAN	Title STAFF REGULATORY ANALYST
Signature <i>Kathy Schneebeck Dulnoan</i> (Electronic Submission)	Date 04/05/2009

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By <i>[Signature]</i>	Title BRADLEY G. HILL ENVIRONMENTAL MANAGER Office	Date <u>04-09-09</u>
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.		

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.

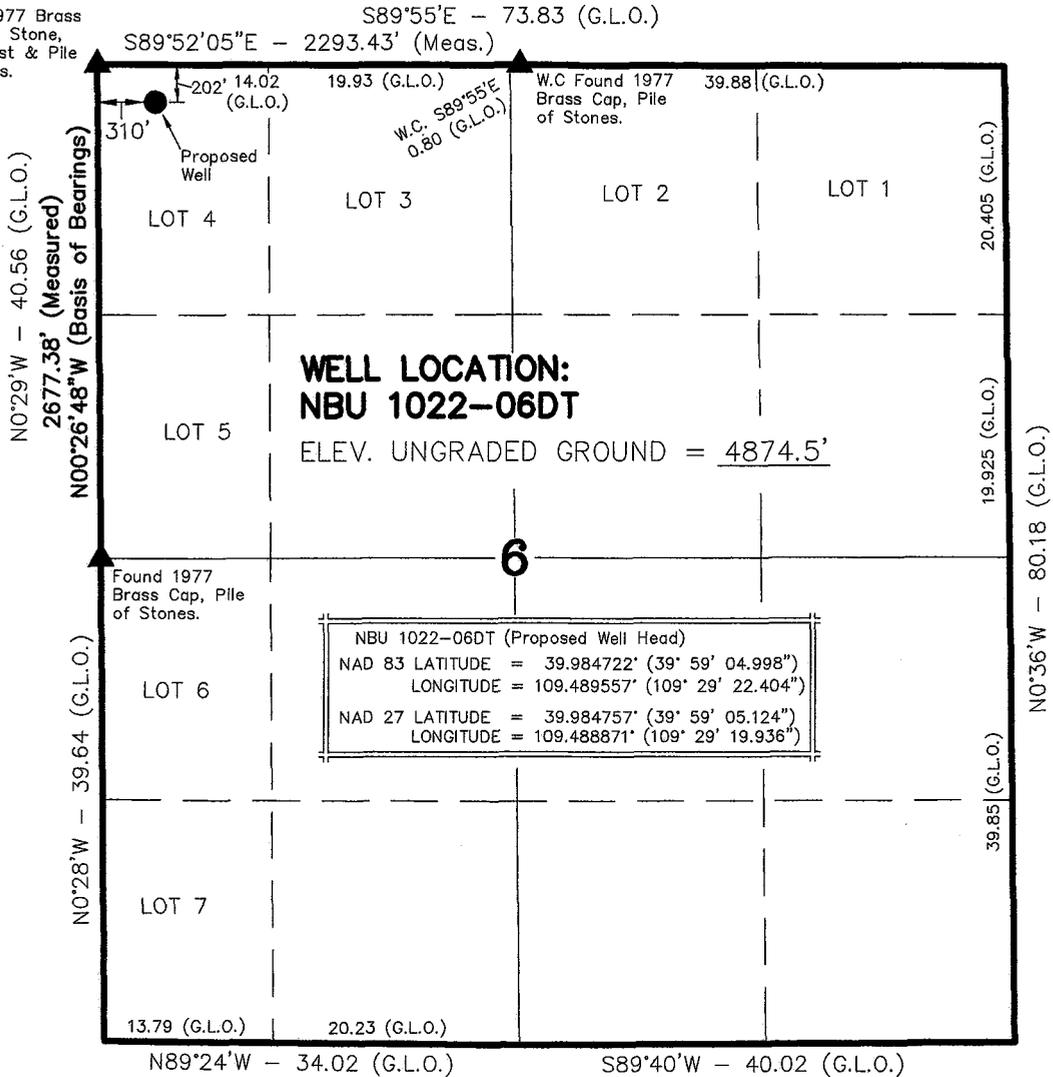
**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ****

RECEIVED
APR 09 2009

DIV. OF OIL, GAS & MINING

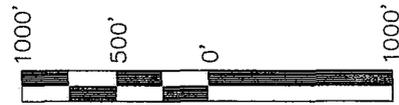
T10S, R22E, S.L.B.&M.

Found 1977 Brass Cap, Set Stone, Steel Post & 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 1/4 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'.



SCALE

SURVEYOR'S CERTIFICATE

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

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

Kerr-McGee
Oil & Gas Onshore, LP
 1099 18th Street, Suite 1200 - Denver, Colorado 80202

NBU 1022-06DT
WELL PLAT
202' FNL, 310' FWL
LOT 4 OF SECTION 6, T10S, R22E,
S.L.B.&M. UINTAH COUNTY, UTAH.

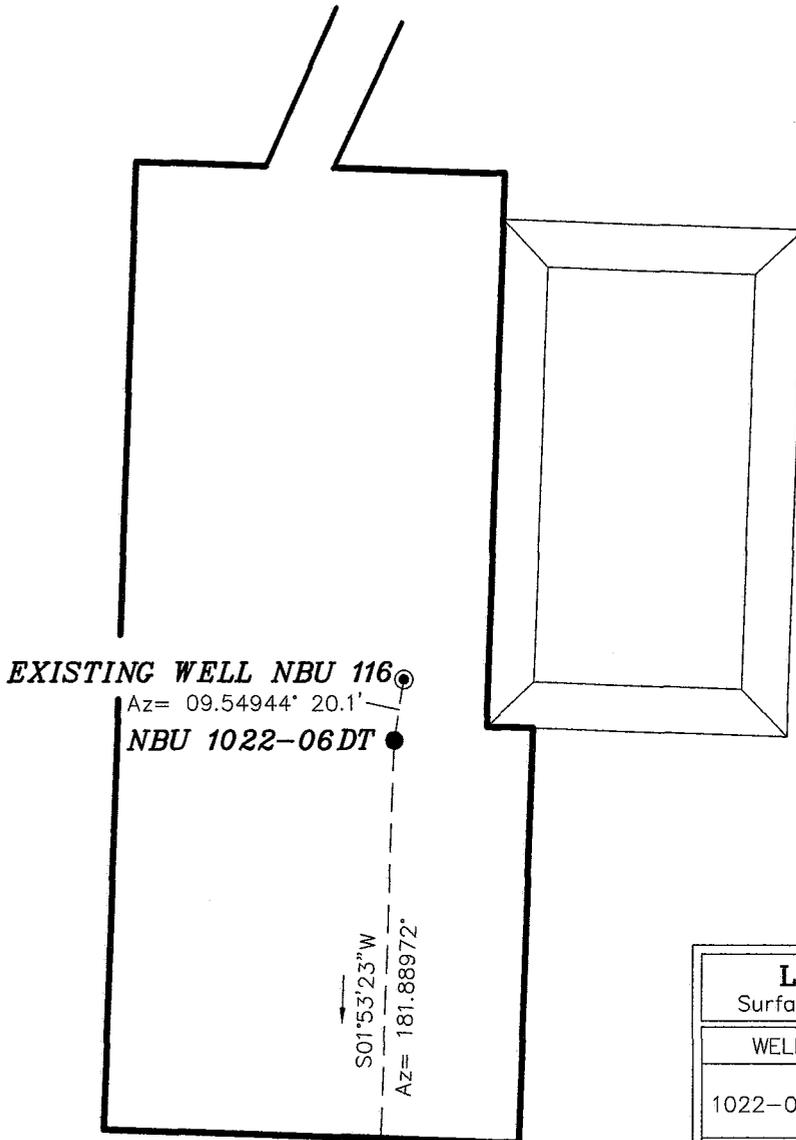
CONSULTING, LLC
 371 Coffeen Avenue
 Sheridan WY 82801
 Phone 307-674-0609
 Fax 307-674-0182

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

DATE SURVEYED: 06-02-08	SURVEYED BY: M.S.B.	SHEET 2 OF 7
DATE DRAWN: 06-03-08	DRAWN BY: M.W.W.	
SCALE: 1" = 1000'	Date Last Revised: 03-20-09	

WELL PAD INTERFERENCE PLAT

NBU 1022-06DT

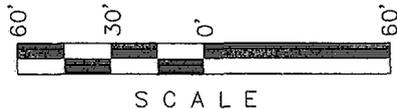


BASIS OF BEARINGS IS THE WEST LINE OF THE NW 1/4 OF SECTION 6, T10S, R22E, S.L.B.&M. WHICH IS TAKEN FROM GLOBAL POSITIONING SATELLITE OBSERVATIONS TO BEAR N00°26'48\"/>

SURFACE FOOTAGES:

NBU 1022-06DT
202' FNL & 310' FWL

NBU 116 (Existing Well Head)
183' FNL & 313' FWL



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

NBU 1022-06DT
LOCATED IN SECTION 6, T10S, R22E,
S.L.B.&M. UINTAH COUNTY, UTAH.



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

LATTITUDE & LONGITUDE		
Surface Position - (NAD 83)		
WELL	N. LATITUDE	W. LONGITUDE
1022-06DT	39°59'04.998" 39.984722°	109°29'22.404" 109.489557°
Existing Well NBU 116	39°59'05.194" 39.984776°	109°29'22.362" 109.489545°

LATTITUDE & LONGITUDE		
Surface Position - (NAD 27)		
WELL	N. LATITUDE	W. LONGITUDE
1022-06DT	39°59'05.124" 39.984757°	109°29'19.936" 109.488871°
Existing Well NBU 116	39°59'05.319" 39.984811°	109°29'19.893" 109.488859°

DATE SURVEYED: 06-02-08	SURVEYED BY: M.S.B.
DATE DRAWN: 11-18-08	DRAWN BY: M.W.W.
	REVISED: 03-20-09

Timberline (435) 789-1365
Engineering & Land Surveying, Inc.
209 NORTH 300 WEST VERNAL, UTAH 84078

SHEET
2b
OF 7

<p>STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING</p>	<p>FORM 9</p>
<p>SUNDRY NOTICES AND REPORTS ON WELLS</p> <p>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.</p>	<p>5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-0464</p>
<p>1. TYPE OF WELL Gas Well</p>	<p>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</p>
<p>2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.</p>	<p>7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES</p>
<p>3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779</p>	<p>8. WELL NAME and NUMBER: NBU 1022-06DT</p>
<p>4. LOCATION OF WELL FOOTAGES AT SURFACE: 0202 FNL 0310 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNW Section: 06 Township: 10.0S Range: 22.0E Meridian: S</p>	<p>9. API NUMBER: 43047401580000</p>
<p>PHONE NUMBER: 720 929-6587 Ext</p>	<p>9. FIELD and POOL or WILDCAT: NATURAL BUTTES</p>
	<p>COUNTY: UINTAH</p>
	<p>STATE: UTAH</p>

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: 6/12/2009	<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:

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: June 10, 2009

By: 

<p>NAME (PLEASE PRINT) Danielle Piernot</p>	<p>PHONE NUMBER 720 929-6156</p>	<p>TITLE Regulatory Analyst</p>
<p>SIGNATURE N/A</p>	<p>DATE 6/9/2009</p>	



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 43047401580000

API: 43047401580000

Well Name: NBU 1022-06DT

Location: 0202 FNL 0310 FWL QTR NWNW SEC 06 TWNP 100S RNG 220E MER S

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

Date Original Permit Issued: 6/18/2008

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: 6/9/2009

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

Date: June 10, 2009

By:

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-0464
	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: _____
	7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: NBU 1022-06DT
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047401580000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6007 Ext
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0202 FNL 0310 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNW Section: 06 Township: 10.0S Range: 22.0E 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 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: 10/19/2009	<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
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	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER:

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 LOCATION ON 10/19/2009 AT 13:00 HRS.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
 October 19, 2009

NAME (PLEASE PRINT) Andy Lytle	PHONE NUMBER 720 929-6100	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 10/19/2009	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-0464
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: 7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
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<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 checked="" type="checkbox"/> DRILLING REPORT Report Date: 10/25/2009	<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
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MIRU PROPETRO AIR RIG ON 10/21/2009. DRILLED 12-1/4" SURFACE HOLE TO 2150'. RAN 9-5/8" 36# J-55 SURFACE CSG. PUMP 155 BBLs FLUSH, PUMP 20 BBLs OF GEL WATER. PUMP 225 SX CLASS G PREM LITE TAIL CMT @ 15.5 PPG, 1.15 YIELD. DROP PLUG ON FLY, DISPLACE W/159.6 BBLs OF H2O, 500 PSI LIFT, BUMP PLUG 1000 PSI, FLOAT HELD, NO RETURNS THROUGHOUT JOB. PUMP 125 SX CLASS G PREM LITE @ 15.8 PPG, 1.15 YIELD DOWN BACKSIDE. NO CMT TO SURFACE. WAIT 2 HRS AND PUMP 100 SX SAME CMT, NO CMT TO SURFACE. CROSS WATER FLOW BOTTOM OF CONDUCTOR. WILL REDIMIX TO SURFACE. WORT.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
 October 28, 2009

NAME (PLEASE PRINT) Andy Lytle	PHONE NUMBER 720 929-6100	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 10/26/2009	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-0464
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: 7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
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<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 checked="" type="checkbox"/> DRILLING REPORT Report Date: 11/9/2009	<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
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	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER:

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

FINISHED DRILLING FROM 2150' TO 9160' ON 11/7/2009. RAN 4-1/2" 11.6# I-80 PRODUCTION CASING. PUMP 40 BBL SPACER. LEAD CMT W/490 SX CLASS G PREM LITE @ 11.8 PPG, 2.42 YIELD. TAILED CMT W/1295 SX CLASS G 50/50 POZ MIX @ 14.3 PPG, 1.31 YIELD. DROP PLUG & DISPLACE W/1400 BBLs CLAYTREAT WATER. BUMPED PLUG @ 3275 PSI. FINAL LIFT PSI OF 2650. FULL RETURNS THROUGHOUT JOB W/1.5 BBLs BACK TO TRUCK. N/D BOPE, CLEAN PITS. RELEASE PIONEER 69 RIG ON 11/9/2009 AT 07:00 HRS.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
November 10, 2009

NAME (PLEASE PRINT) Andy Lytle	PHONE NUMBER 720 929-6100	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 11/10/2009	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-0464
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<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 checked="" type="checkbox"/> DRILLING REPORT Report Date: 12/29/2009	<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
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12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

THE SUBJECT WELL WAS PLACED ON PRODUCTION ON 12/26/2009 AT 12:00 P.M. PLEASE REFER TO THE ATTACHED CHRONOLOGICAL WELL HISTORY.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
 December 29, 2009

NAME (PLEASE PRINT) Andy Lytle	PHONE NUMBER 720 929-6100	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 12/29/2009	

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 1022-6DT Spud Conductor: 10/19/2009 Spud Date: 10/21/2009
 Project: UTAH-UINTAH Site: NBU 116 Rig Name No: PIONEER 69/69, PROPETRO/
 Event: DRILLING Start Date: 4/22/2009 End Date: 11/9/2009
 Active Datum: RKB @4,893.00ft (above Mean Sea Level) UWI: NW/NW/0/10/S/22/E/6/0/0/26/PM/N/202.00/W/0/310.00/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
10/21/2009	2:30 - 6:30	4.00	MIRU	01	A	P		MOVE RIG FROM NBU 1022-3DT
	6:30 - 9:00	2.50	MIRU	01	B	P		DRESS CONDUCTOR, INSTALL AIR BOWL AND BOWIE LINE, RIG UP RIG, INSTALL AIR COMPRESSOR AND AIR BOOSTER, RIG UP PUMPS, BUILD DITCH.P/U AIR HAMMER. RIG UP DIRECTIONAL.
	9:00 - 11:30	2.50	MIRU	21	E	Z		WHILE MOVING IN, HAND WAS INJURED AND THE DRILLER QUIT. WAIT ON DRILLER AND HAND TO PROCEED FOWARD. HELD EXTENSIVE SAFETY MEETING W/ HANDS.
	11:30 - 12:30	1.00	MIRU	01	B	P		FINISH RIG UP. RIG INSPECTION
	12:30 - 14:00	1.50	DRLSUR	02	A	P		AIR HAMMER FROM 44'-180'. AIR SPUD 10/21/2009 12:30
	14:00 - 17:00	3.00	DRLSUR	06	A	P		LD AIR HAMMER,MADE UP NEW 2.25 DEG BENT HOUSE MOTOR 4 STAGE 7/8 LOBE, MADE UP HC507Z P/U DIRECTIONAL TOOLS AND SCRIBED.
	17:00 - 17:30	0.50	DRLSUR	02	D	P		DRILL SLIDE 180' TO 210'. WHILE SLIDING 4 BOLTS ON BACK BREAK ROTOR SHEARED OFF.
10/22/2009	17:30 - 0:00	6.50	MAINT	08	A	Z		WAIT ON MECHENIC REMOVE BACK BREAK ROTOR AND REMOVE SHEARED BOLTS. (WORKING ON @ REPORT TIME)
	0:00 - 3:00	3.00	MAINT	08	A	Z		REPAIR ON BACK BREAK ROTOR.
	3:00 - 4:00	1.00	DRLSUR	02	D	P		DRILL SLIDE FROM 210'- 280'. WHEN STARTING A SLIDE @ 270' THE BACK BREAK ROTOR SHEAR AGAIN ALL THE WAY THIS TIME. SHUT DOWN.
	4:00 - 13:00	9.00	MAINT	08	A	P		REPAIR ON BACK BREAK ROTOR BOLTS, AFTER EXAMINING THE BACK BREAK ROTOR W/ MECHANIC. IT WAS DECIDE TO CHANGE OUT RIG #11 WITH RIG #12. HANG OF BHA AND RIG DOWN RIG #11. MIRU RIG #12 CARRIER. CHANGE OUT RING GASKET IN MAIN RAM.
10/23/2009	13:00 - 0:00	11.00	DRLSUR	02	D	P		DRILL 280'- 1390' (1110',101'/HR) WOB 10K-25K RPM 45, MOTOR RPM 104, GPM 650, ON/OFF PSI= 1500/1200. UP/DOWN/ROT 62/60/61 DRAG 1 K. USING LOST CIRC ZONE 1400' USE AIR TO HELP W/ VOLUME.
	0:00 - 10:00	10.00	DRLSUR	02	D	P		DRILL 1390'-2150' (760,/76'/HR) TD 10/23/2009 10:00 WOB 18-25K RPM 45, MOTOR RPM 104, GPM 650, ON/OFF PSI= 1750/1450.
	10:00 - 11:00	1.00	CSG	05	F	P		UP/DOWN/ROT 68/65/67 DRAG 1 K. LOST CIRC ZONE 1400' USE AIR TO HELP W/ VOLUME. CLEAN HOLE W/ AERATED WATER AND POLYMER, 2 CIRC TILL HOLE WAS CLEAN, SHUT AIR OFF AND FILL HOLE W/ WATER.
	11:00 - 12:00	1.00	CSG	06	D	P		LD DS TO 600', RING GASKET ON MAIN LIFTING RAM, STARTED LINKING . SHUT DOWN.
	12:00 - 14:30	2.50	MAINT	08	A	P		REPAIR O-RING ON MAIN LIFTING RAM. WELL FLOWING THROUGH OUT W/ GAS.
	14:30 - 15:00	0.50	CSG	06	D	P		TRIP BACK TO BOTTOM TO MAKE SURE WELL IS OK.
	15:00 - 15:30	0.50	CSG	05	C	P		CIRC 250 BBLs OF WATER ON TOP OF GAS ZONE. TILL WELL STOPPED CIRC.
	15:30 - 19:30	4.00	CSG	06	D	P		LD DS, AND DIRECTIONAL TOOLS.

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**US ROCKIES REGION
Operation Summary Report**

Well: NBU 1022-6DT Spud Conductor: 10/19/2009 Spud Date: 10/21/2009
 Project: UTAH-UINTAH Site: NBU 116 Rig Name No: PIONEER 69/69, PROPETRO/
 Event: DRILLING Start Date: 4/22/2009 End Date: 11/9/2009
 Active Datum: RKB @4,893.00ft (above Mean Sea Level) UWI: NW/NW/0/10/S/22/E/6/0/0/26/PM/N/202.00/W/0/310.00/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
10/24/2009	19:30 - 23:00	3.50	CSG	12	C	P		RAN 48 JTS OF 9-5/8, 36#, J-55, 8RD LTC THREADS CSG AND LAND @ 2115' , BAFFLE PLATE WAS RAN IN TOP OF SHOE JT AND LANDED @ 1068.5', FILL PIPE 500' AND 1500'. RIG DOWN RIG.
	23:00 - 0:00	1.00	CSG	01	E	P		
	0:00 - 4:00	4.00	CSG	12	E	P		HOLD SAFETY MEETING, INSTALL CEMENT HEAD AND TEST LINES. PUMP 155 BBLS FLUSH, PUMP 20 BBLS OF GEL WATER, PUMP 225 SX (43 BBLS) OF 15.8#, 1.15 YD, 5 GAL/SK 2% CALC PREMIUM CEMENT. DROP PLUG ON FLY, DISPLACE W/ 159.6 BBLS OF H2O, 500 PSI LIFT, BUMP PLUG 1000 PSI, FLOAT HELD. NO RETURNS THROUGHOUT JOB. PUMP 125 SX (24 BBLS) OF 15.8#, 1.15 YD, 5 GAL/SK 4% CALC PREMIUM CEMENT, DOWN BACKSIDE. NO CEMENT TO SURFACE. WAIT 2 HRS, PUMP 100 SX (20 BBLS) OF SAME CEMENT, NO CEMENT TO SURFACE. CROSS WATER FLOW BOTTOM OF CONDUCTOR, WILL REDMIX TO SURFACE RDRT
11/2/2009	0:00 - 7:00	7.00	DRLPRO	01	E	P		MOVE RIG TO NBU 1022-6DT, 1 MILE, 3-HAUL 5 BED TRUCKS, 2 FORKLIFTS, 1 CRANE, NO EXTRA RIG HANDS
	7:00 - 15:00	8.00	DRLPRO	01	A	P		RURT
11/3/2009	15:00 - 20:30	5.50	DRLPRO	01	B	P		N/U BOPE
	20:30 - 0:00	3.50	DRLPRO	14	A	P		N/U BOPE
	0:00 - 0:30	0.50	DRLPRO	14	A	P		TEST BOPE, RAMS & ALL VALVES 250 LOW 5000 HIGH, ANN 250 2500, CASING 1500 FOR 30 MIN, INSTALL WEAR BUSHING
	0:30 - 6:00	5.50	DRLPRO	15	A	P		HPJSM W/ RIG,P/U CREW & DIR HANDS, R/U & P/U BIT #1,MM,DIR TOOLS,46 JTS D/P, R/D P/U CREW
	6:00 - 12:00	6.00	DRLPRO	06	A	P		CUT & SLIP 90' DRLG LINE
11/4/2009	12:00 - 12:30	0.50	DRLPRO	09	A	P		PRE-SPUD INSECTION
	12:30 - 13:00	0.50	DRLPRO	23	F	P		DRLG CEMENT, F/E & OPEN HOLE F/ 2018 TO 2164
	13:00 - 16:00	3.00	DRLPRO	02	F	P		DRLG, SLIDE, SURVEY F/ 2164 TO 3124' 960' @ 120' PH, CIRC RESERVE PIT, WOB 18, RPM 50, MM 98, SPM 125, GPM 473, PU/SO/ROT 99-92-94, ON/OFF 1450-1300, DIFF 150-300, SLIDES 2275-2290, 2313-3066, 3156-3164
	16:00 - 0:00	8.00	DRLPRO	02	B	P		DRLG,SLIDE,SURVEY F/ 3124 TO 5117' 1993' @ 124.6' ph,
	0:00 - 16:00	16.00	DRLPRO	02	B	P		SERVICE RIG
11/5/2009	16:00 - 16:30	0.50	DRLPRO	07	A	P		DRLG,SURVEY F/ 5117 TO 5980', 863' @ 115' PH, CIRC RESERVE PIT, WOB 18, RPM 50, SPM 125, GPM 473, P/U S/O ROT 152-139-144, ON/OFF 1560-1450, DIFF 100-250,
	16:30 - 0:00	7.50	DRLPRO	02	B	P		DRLG-SURVEY F/ 5980 TO 7045', DISPLACE HOLE W/ F/W @ 6900'
	0:00 - 16:30	16.50	DRLPRO	02	B	P		SERVICE RIG
11/6/2009	16:30 - 17:00	0.50	DRLPRO	07	A	P		DRLG-SURVEY F/ 7045 TO 7500, 455' @ 65' PH, MW 9.0, VIS 36, WOB 18, RPM 50, MM 98, SPM 125, GPM 473, P/U S/O ROT 180-155-168, ON/OFF 2200-1900, DIFF 150-300
	17:00 - 0:00	7.00	DRLPRO	02	B	P		DRLG, SURVEY F/ 7500 TO 8088
	0:00 - 11:00	11.00	DRLPRO	02	B	P		SERVICE RIG
11/6/2009	11:00 - 11:30	0.50	DRLPRO	07	A	P		

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US ROCKIES REGION
Operation Summary Report

Well: NBU 1022-6DT Spud Conductor: 10/19/2009 Spud Date: 10/21/2009
 Project: UTAH-UINTAH Site: NBU 116 Rig Name No: PIONEER 69/69, PROPETRO/
 Event: DRILLING Start Date: 4/22/2009 End Date: 11/9/2009
 Active Datum: RKB @4,893.00ft (above Mean Sea Level) UWI: NW/NW/0/10/S/22/E/6/0/0/26/PM/N/202.00/W/0/310.00/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	11:30 - 0:00	12.50	DRLPRO	02	B	P		DRLG, SURVEY F/ 8088 TO 8656', MW 11.0, VIS 41, LCM 5%, WOB 18-20, RPM 50, MM 94, SPM 120, GPM 454, P/U S/O ROT 190-171-177, ON/OFF 2400-2200, DIFF 150-250
11/7/2009	0:00 - 13:30	13.50	DRLPRO	02	B	P		DRLG, SURVEY F/ 8656 TO 9132
	13:30 - 14:00	0.50	DRLPRO	07	A	P		SERVICE RIG
	14:00 - 14:30	0.50	DRLPRO	02	B	P		DRLG, SURVEY F/ 9132 TO 9160 TD WELL @ 9160 14:30 11/7/09
	14:30 - 15:30	1.00	DRLPRO	05	C	P		CIRC & COND
	15:30 - 21:00	5.50	DRLPRO	06	A	P		SHORT TRIP 111 STDS TO SHOE
	21:00 - 22:30	1.50	DRLPRO	03	A	P		WASH TIGHT HOLE @ 8600' TO BOTTOM
	22:30 - 0:00	1.50	DRLPRO	05	A	P		CIRC & COND HOLE TO LDDS, LOG
11/8/2009	0:00 - 8:30	8.50	DRLPRO	06	A	P		HPJSM W/ RIG & L/D CREWS, R/U & LDDP, BREAK KELLY, L/D BHA & DIR TOOLS, PULL WEAR BUSHING, R/D
	8:30 - 10:30	2.00	DRLPRO	11	C	P		HPJSM W/ RIG & LOGGING CREWS, RUN TRIPLE COMBO F/ LOGGERS DEPTH OF 9158
	10:30 - 12:00	1.50	DRLPRO	22	L	Z		REPAIR LOGGERS WIRE LINE
	12:00 - 17:00	5.00	DRLPRO	11	C	P		FINISH LOGS
	17:00 - 22:30	5.50	DRLPRO	12	C	P		HPJSM W/ RIG & CASING CREWS, R/U & RUN 9156' 4.5" I-80 BTC PROD CASING TO 9156, PLUG @ 9114', R/D
	22:30 - 0:00	1.50	DRLPRO	05	A	P		CIRC OUT GAS TO CEMENT
11/9/2009	0:00 - 3:00	3.00	DRLPRO	12	E	P		HPJSM W/ RIG & CEMENT CREWS, R/U & TEST LINES TO 4000 PSI, PUMP 40 BBL SPACER, LEAD 490 SXS 11.8 PPG 2.42 YLD, TAIL 1295 SXS 14.3 PPG 1.31 YLD, DROP PLUG & DISPLACE W/ 141.6 BBLS CLAYTREAT WATER, BUMPED PLUG @ 3275 PSI, FINAL LIFT PSI OF 2650, FULL RETURNS THROUGH OUT JOB W/ 1.5 BBLS BACK TO TRUCK,
	3:00 - 7:00	4.00	DRLPRO	14	A	P		N/D BOPE, CLEAN PITS, RELEASE RIG TO NBU 1022-6K3 @ 07:00 11/9/09

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US ROCKIES REGION Operation Summary Report

Well: NBU 1022-6DT		Spud Conductor: 10/19/2009		Spud Date: 10/21/2009	
Project: UTAH-UINTAH		Site: NBU 116		Rig Name No: GWS 1/1	
Event: COMPLETION		Start Date: 12/17/2009		End Date: 12/28/2009	
Active Datum: RKB @4,893.00ft (above Mean Sea Level)		UWI: NW/NW/0/10/S/22/E/6/0/0/26/PM/N/202.00/W/0/310.00/0/0			

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
12/17/2009	7:00 - 7:30	0.50	COMP	48		P		HSM. ROADING RIG & EQUIPMENT FROM BONANZA TO LOC.
	7:30 - 10:00	2.50	COMP	30	A	P		ROAD RIG FROM BONANZA 1023-5E TO NBU 1022-6DT. RU RIG & SPOT IN EQUIPMENT.
	10:00 - 16:00	6.00	COMP	37	B	P		ND WELL HEAD NU FRAC VALVES. MIRU B&C QUICK TEST TO PRESSURE TEST CASING. PRESSURE TEST CASING & BOTH FRAC VALVES TO 7,000 PSI. GOOD TEST. RDMO B&C. MIRU SCHLUMBERGER WIRE LINE. PU 3 1/8" EXP GNS, 23 GRM, .36 HOLES 90 DEG PHASING. RIH PERF 8,822' - 26' 4SPF, 8,741' - 42' 4SPF, 8,695' - 96' 4SPF, 8,653' - 56' 4SPF, 8,634' - 35' 4SPF, 40 HOLE. POOH W WIRE LINE. WINTERIZE WELL HEAD. SWI SDFWE.
12/21/2009	6:30 - 7:00	0.50	COMP	48		P		HSM. FRACING & PERFORATING
	7:00 - 8:49	1.82	COMP	36	B	P		PRIME UP PUMPS & LINES & PRESSURE TEST SURFACE EQUIPMENT TO 8,000 PSI. STG 1) WHP 1,880 PSI, BRK 3,525 PSI @ 5.4 BPM, ISIP 2,707 PSI, FG .74. PUMP 100 BBLS @ 51.2 BPM @ 5,800 PSI = 65% OF THE HOLES OPEN. MP 6,747 PSI, MR 51.4 BPM, AP 4,556 PSI, AR 46.2 BPM, ISIP 2,750 PSI, FG .75, NPI 43 PSI. PMP 1,607 BBLS OF SW & 56,403 30/50 SND & 5,000 LBS OF 20/40 RESIN SND. TOTAL PROP 61,403 LBS.
	8:49 - 11:08	2.32	COMP	36	B	P		STG 2) PU 4 1/2" CBP & 3 1/8" EXP GNS, 23 GRM, .36 HOLES, 90 DEG PHASING. RIH SET HALL. CBP @ 8,400' & PERF 8,366' - 70' 4SPF, 8,332' - 36' 4SPF, 8,274' - 76' 4SPF, 40 HOLES. WHP 1,457 PSI, BRK 3,000 PSI @ 6.4 BPM, ISIP 2,300 PSI, FG .71. PUMP 100 BBLS @ 51.2 BPM @ 4,741 PSI = 100% OF THE HOLES OPEN. MP 5,639 PSI, MR 51.5 BPM, AP 4,247 PSI, AR 49.1 BPM, ISIP 3,050 PSI, FG .80, NPI 43 PSI. PUMP 2,371 BBLS OF SW & 87,030 30/50 SND & 5,000 LBS OF 20/40 RESIN SND. TOTAL PROP 93,030 LBS.
11:08 - 12:50	1.70	COMP	36	B	P		STG 3) PU 4 1/2" CBP & 3 1/8" EXP GNS, 23 GRM, .36 HOLES, 90 DEG PHASING. RIH SET HALL. CBP @ 8,234' & PERF 8,200' - 04' 4SPF, 8,144' - 45' 4SPF, 8,062' - 64' 4SPF, 8,042' - 44 4SPF, 36 HOLES. WHP 1,700 PSI, BRK 2,978 PSI @ 6.4 BPM, ISIP 2,271 PSI, FG .69. PUMP 100 BBLS @ 51.4 BPM @ 4,366 PSI = 100% OF THE HOLES OPEN. MP 5,039 PSI, MR 51.5 BPM, AP 3,826 PSI, AR 46.2 BPM, ISIP 2,271 PSI, FG .71, NPI 172 PSI. PUMP 852 BBLS OF SW & 27,287 30/50 SND & 5,000 LBS OF 20/40 RESIN SND. TOTAL PROP 32,287 LBS.	

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**US ROCKIES REGION
Operation Summary Report**

Well: NBU 1022-6DT Spud Conductor: 10/19/2009 Spud Date: 10/21/2009
 Project: UTAH-UINTAH Site: NBU 116 Rig Name No: GWS 1/1
 Event: COMPLETION Start Date: 12/17/2009 End Date: 12/28/2009
 Active Datum: RKB @4,893.00ft (above Mean Sea Level) UWI: NW/NW/0/10/S/22/E/6/0/0/26/PM/N/202.00/W/0/310.00/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	12:50 - 16:04	3.23	COMP	36	B	P		STG 4) PU 4 1/2" CBP & 3 1/8" EXP GNS, 23 GRM, .36 HOLES, 90 DEG PHASING. RIH SET HALL. CBP @ 7,961' & PERF 7,930' - 31' 4SPF, 7,914' - 16' 4SPF, 7,886' - 88' 4SPF, 7,860' - 62' 4SPF, 7,824' - 27' 4SPF, 40 HOLES. WHP 1,457 PSI, BRK 3,313 PSI @ 6.4 BPM, ISIP 2,050 PSI, FG .69. PUMP 100 BBLS @ 51.3 BPM @ 3,761 PSI = 100% OF THE HOLES OPEN. MP 4,720 PSI, MR 51.5 BPM, AP 3,499 PSI, AR 45.7 BPM, ISIP 2,350 PSI, FG .73, NPI 300 PSI. PUMP 820 BBLS OF SW & 25,821 OF 30/50 SND & 5,000 LBS OF 20/40 RESIN SND. TOTAL PROP 30,821 LBS.
	16:04 - 19:42	3.63	COMP	36	B	P		STG 5) PU 4 1/2" CBP & 3 1/8" EXP GNS, 23 GRM, .36 HOLES, 90 DEG PHASING. RIH SET HALL. CBP @ 7,760' & PERF 7,720' - 22' 4SPF, 7,656' - 57' 4SPF, 7,552' - 56' 4SPF, 7,486' - 89' 4SPF, 40 HOLES. WHP 330 PSI, BRK 3,310 PSI @ 6.4 BPM, ISIP 2,294 PSI, FG .73. PUMP 100 BBLS @ 51 BPM @ 3,950 PSI = 100% OF THE HOLES OPEN. MP 4,918 PSI, MR 51.5 BPM, AP 3,752 PSI, AR 44.3 BPM, ISIP 2,417 PSI, FG .75, NPI 123 PSI. PUMP 772 BBLS OF SW & 23,269 OF 30/50 SND & 5,000 LBS OF 20/40 RESIN SND. TOTAL PROP 28,269 LBS.
	19:42 - 21:47	2.08	COMP	36	B	P		STG 6) PU 4 1/2" CBP & 3 1/8" EXP GNS, 23 GRM, .36 HOLES, 90 DEG PHASING. RIH SET HALL. CBP @ 7,466' & PERF 7,434' - 36' 4SPF, 7,398' - 00' 4SPF, 7,354' - 56' 4SPF, 7,276' - 79' 4SPF, 7,252' - 54' 4SPF, 40 HOLES. WHP 1,000 PSI, BRK 3,462 PSI @ 6.4 BPM, ISIP 1,465 PSI, FG .63. PUMP 100 BBLS @ 51.2 BPM @ 4,457 PSI = 80% OF THE HOLES OPEN. MP 5,919 PSI, MR 51.5 BPM, AP 4,237 PSI, AR 47.9 BPM, ISIP 2,416 PSI, FG .76, NPI 951 PSI. PUMP 1,469 BBLS OF SW & 56,860 OF 30/50 SND & 5,000 LBS OF 20/40 RESIN SND. TOTAL PROP 61,860 LBS.
	21:47 - 23:28	1.68	COMP	36	B	P		STG 7) PU 4 1/2" CBP & 3 1/8" EXP GNS, 23 GRM, .36 HOLES, 90 DEG PHASING. RIH SET HALL. CBP @ 7,186' & PERF 7,152' - 56' 4SPF, 7,121' - 22' 4SPF, 7,096' - 98' 4SPF, 7,042' - 45' 4SPF, 40 HOLES. WHP 700 PSI, BRK 2,652 PSI @ 6.4 BPM, ISIP 1,580 PSI, FG .65. PUMP 100 BBLS @ 51.2 BPM @ 3,474 PSI = 100% OF THE HOLES OPEN. MP 5,045 PSI, MR 51.5 BPM, AP 3,529 PSI, AR 48.3 BPM, ISIP 2,270 PSI, FG .75, NPI 690 PSI. PUMP 1,568 BBLS OF SW & 61,024 OF 30/50 SND & 5,000 LBS OF 20/40 RESIN SND. TOTAL PROP 66,024 LBS.
	23:28 - 23:59	0.52	COMP	36	B	P		STG 8) WORK ON WIRE LINE EQUIPMENT. CON. FRACING IN AM.

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**US ROCKIES REGION
Operation Summary Report**

Well: NBU 1022-6DT Spud Conductor: 10/19/2009 Spud Date: 10/21/2009
 Project: UTAH-UINTAH Site: NBU 116 Rig Name No: GWS 1/1
 Event: COMPLETION Start Date: 12/17/2009 End Date: 12/28/2009
 Active Datum: RKB @4,893.00ft (above Mean Sea Level) UWI: NW/NW/0/10/S/22/E/6/0/0/26/PM/N/202.00/W/0/310.00/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
12/22/2009	0:01 - 2:30	2.48	COMP	36	B	P		STG 8) PU 4 1/2" CBP & 3 1/8" EXP GNS, 23 GRM, .36 HOLES, 90 DEG PHASING. RIH SET HALL. CBP @ 7,024' & PERF 6,990' - 94' 4SPF, 6,946' - 48' 4SPF, 6,910' - 14' 4SPF, 40 HOLES. WHP 900 PSI, BRK 2,062 PSI @ 2.1 BPM, ISIP 1,350 PSI, FG .62. PUMP 100 BBLS @ 51.2 BPM @ 3,660 PSI = 89% OF THE HOLES OPEN. MP 4,622 PSI, MR 51.4 BPM, AP 3,521 PSI, AR 47.1 BPM, ISIP 2,273 PSI, FG .76, NPI 923 PSI. PUMP 1,516 BBLS OF SW & 66,829 OF 30/50 SND & 5,000 LBS OF 20/40 RESIN SND. TOTAL PROP 71,829 LBS.
	2:30 - 3:53	1.38	COMP	36	B	P		STG 9) PU 4 1/2" CBP & 3 1/8" EXP GNS, 23 GRM, .36 HOLES, 90 DEG PHASING. RIH SET HALL. CBP @ 6,746' & PERF 6,714' - 16' 4SPF, 6,674' - 77' 4SPF, 6,582' - 84' 4SPF, 6,555' - 58' 4SPF, 40 HOLES. WHP 461 PSI, BRK 2,824 PSI @ 6.4 BPM, ISIP 1,343 PSI, FG .63. PUMP 100 BBLS @ 51.3 BPM @ 3,638 PSI = 86% OF THE HOLES OPEN. MP 4,269 PSI, MR 51.5 BPM, AP 3,339 PSI, AR 45.7 BPM, ISIP 2,175 PSI, FG .76, NPI 832 PSI. PUMP 724 BBLS OF SW & 27,070 OF 30/50 SND & 5,000 LBS OF 20/40 RESIN SND. TOTAL PROP 32,079 LBS.
	3:53 - 5:30	1.62	COMP	36	B	P		STG 10) PU 4 1/2" CBP & 3 1/8" EXP GNS, 23 GRM, .36 HOLES, 90 DEG PHASING. RIH SET HALL. CBP @ 6,080' & PERF 6,046' - 50' 4SPF, 5,978' - 79' 4SPF, 5,915' - 17' 4SPF, 5,845' - 48' 4SPF, 40 HOLES. WHP 396 PSI, BRK 3,211 PSI @ 6.4 BPM, ISIP 1,015 PSI, FG .60. PUMP 100 BBLS @ 50.4 BPM @ 3,200 PSI = 82% OF THE HOLES OPEN. MP 4,018 PSI, MR 53.1 BPM, AP 2,554 PSI, AR 43.2 BPM, ISIP 1,309 PSI, FG .65, NPI 294 PSI. PUMP 681 BBLS OF SW & 33,988 OF 30/50 SND & 5,000 LBS OF 20/40 RESIN SND. TOTAL PROP 38,988 LBS.
	5:30 - 7:00	1.50	COMP	34	I	P		KILL PLG) PU 4 1/2" HALLIBURTON CBP RIH SET PLG @ 5,795.
	7:00 - 15:00	8.00	COMP	31	I	P		RDMO SCHLUMBERGER & SCHLUMBERGER. ND FRAC VALVES NU BOP. PU 3 7/8" MILL & POBS. PU TUBING OFF OF TRAILER DRIFT & TALLY. RIH TO 5,700'. RU POWER SWIVEL. PREP TO DRL CBP'S IN AM. SWI WINTERIZE WELL HEAD. SDFN
12/23/2009	6:30 - 7:00	0.50	COMP	48		P		HSM. DRLG CBP'S & PINCH POINTS

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**US ROCKIES REGION
Operation Summary Report**

Well: NBU 1022-6DT Spud Conductor: 10/19/2009 Spud Date: 10/21/2009
 Project: UTAH-UINTAH Site: NBU 116 Rig Name No: GWS 1/1
 Event: COMPLETION Start Date: 12/17/2009 End Date: 12/28/2009
 Active Datum: RKB @4,893.00ft (above Mean Sea Level) UWI: NW/NW/0/10/S/22/E/6/0/0/26/PM/N/202.00/W/0/310.00/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	PAJ	MD From (ft)	Operation
	7:00 - 16:00	9.00	COMP	44	C	P		BRK CICR W / 2% KCL. RIH C/O 10' OF SAND TAG PLG 1 @ 5,795' DRL PLG IN 7 MIN. 300 PSI INCREASE. RIH C/O 30' OF SAND TAG PLG 2 @ 6,080' DRL PLG IN 6 MIN. 550 PSI INCREASE. RIH C/O 30' OF SAND TAG PLG 3 @ 6,746' DRL PLG IN 7 MIN. 800 PSI INCREASE. RIH C/O 30' OF SAND TAG PLG 4 @ 7,024' DRL PLG IN 6 MIN. 450 PSI INCREASE. RIH C/O 30' OF SAND TAG PLG 5 @ 7,186' DRL PLG IN 9 MIN. 1,000 PSI INCREASE. RIH C/O 25' OF SAND TAG PLG 6 @ 7,466' DRL PLG IN 7 MIN. 400 PSI INCREASE. RIH C/O 30' OF SAND TAG PLG 7 @ 7,760' DRL PLG IN 13 MIN. 1,600 PSI INCREASE. RIH C/O 35' OF SAND TAG PLG 8 @ 7,970' DRL PLG IN 9 MIN. 1,100 PSI INCREASE. RIH C/O 35' OF SAND TAG PLG 9 @ 8,234' DRL PLG IN 6 MIN. 1,700 PSI INCREASE. RIH C/O 30' OF SAND TAG PLG 10 @ 8,400' DRL PLG IN 8 MIN. 1,100 PSI INCREASE. RIH C/O TO 8,990' PBTD. CIRCULATE WELL CLEAN. POOH LD 24 JTS. LAND TBG W / 260 JTS OF 2 3/8" J-55 TBG. EOT @ 8,256.65; ND BOP NU WELL HEAD. DROP BALL TO SHEAR OFF BIT. PUMP OFF BIT & 2,220 PSI. TURN WELL OVER TO FLOW TESTERS 294 JTS OUTBOUND 260 JTS LANDED 34 JTS RETURNED
12/24/2009	7:00 -			33	A			7 AM FLBK REPORT: CP 2200#, TP 2100#, 20/64" CK, 60 BWPH, MEDIUM SAND, - GAS TTL BBLs RECOVERED: 4455 BBLs LEFT TO RECOVER: 7925
12/25/2009	7:00 -			33	A			7 AM FLBK REPORT: CP 2400#, TP 2000#, 20/64" CK, 50 BWPH, MEDIUM SAND, - GAS TTL BBLs RECOVERED: 5700 BBLs LEFT TO RECOVER: 6680
12/26/2009	7:00 -			33	A			7 AM FLBK REPORT: CP 2650#, TP 1950#, 20/64" CK, 40 BWPH, MEDIUM SAND, - GAS TTL BBLs RECOVERED: 6730 BBLs LEFT TO RECOVER: 5650
	12:00 -		PROD	50				WELL TURNED TO SALE @ 1200 HR ON 12/26/09 - FTP 2650#, CP 1950#, 1450 MCFD, 40 BWPD, 18/64 CK
12/27/2009	7:00 -			33	A			7 AM FLBK REPORT: CP 2750#, TP 1950#, 18/64" CK, 30 BWPH, LIGHT SAND, - GAS TTL BBLs RECOVERED: 7555 BBLs LEFT TO RECOVER: 4825

RECEIVED December 29, 2009

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 1022-6DT	Spud Conductor: 10/19/2009	Spud Date: 10/21/2009
Project: UTAH-UINTAH	Site: NBU 116	Rig Name No: GWS 1/1
Event: COMPLETION	Start Date: 12/17/2009	End Date: 12/28/2009
Active Datum: RKB @4,893.00ft (above Mean Sea Level)	UWI: NW/NW/0/10/S/22/E/6/0/0/26/PM/N/202.00/W/0/310.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
12/28/2009	7:00 -			33	A			7 AM FLBK REPORT: CP 2800#, TP 1900#, 18/64" CK, 28 BWPH, LIGHT SAND, 1412 GAS TTL BBLS RECOVERED: 8357 BBLS LEFT TO RECOVER: 4023
	7:00 -			33	A			7 AM FLBK REPORT: CP 2800#, TP 1925#, 18/64" CK, 28 BWPH, LIGHT SAND, - GAS TTL BBLS RECOVERED: 8245 BBLS LEFT TO RECOVER: 4135

RECEIVED December 29, 2009

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.
UTU464

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

2. Name of Operator
KERR-MCGEE OIL&GAS ONSHOREEL Contact: ANDY LYTLE
Mail: andrew.lytle@anadarko.com

3. Address P.O. BOX 173779 DENVER, CO 80217 3a. Phone No. (include area code)
Ph: 720-929-6100

4. Location of Well (Report location clearly and in accordance with Federal requirements)*
 At surface NWNW 202FNL 310FWL 39.98476 N Lat, 109.48887 W Lon
 At top prod interval reported below NWNW 202FNL 310FWL 39.98476 N Lat, 109.48887 W Lon
 At total depth NWNW 202FNL 310FWL 39.98476 N Lat, 109.48887 W Lon

6. If Indian, Allottee or Tribe Name
 7. Unit or CA Agreement Name and No.
UTU63047A
 8. Lease Name and Well No.
NBU 1022-06DT
 9. API Well No.
43-047-40158
 10. Field and Pool, or Exploratory
NATURAL BUTTES
 11. Sec., T., R., M., or Block and Survey
or Area Sec 6 T10S R22E Mer
 12. County or Parish
UINTAH 13. State
UT
 14. Date Spudded
10/19/2009 15. Date T.D. Reached
11/07/2009 16. Date Completed
 D & A Ready to Prod.
12/26/2009 17. Elevations (DF, KB, RT, GL)*
4875 GL
 18. Total Depth: MD 9160 TVD 9156 19. Plug Back T.D.: MD 9112 TVD 9108 20. Depth Bridge Plug Set: MD TVD
 21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
 GR/CBL HDIL/ZDL/CN
 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 STEEL	36.7		40		28			
12.250	9.625 J-55	36.0		2129		450			
7.875	4.500 I-80	11.6		9156		1785			

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	8256							

25. Producing Intervals 26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) WASATCH	5845	6948	5845 TO 6948	0.360	104	OPEN
B) MESAVERDE	6990	8826	6990 TO 8826	0.360	292	OPEN
C)						
D)						

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

Depth Interval	Amount and Type of Material
5845 TO 6994	PMP 2,921 BBLs SLICK H2O & 142,896 LBS 30/50 SD.
7042 TO 8826	PMP 9,459 BBLs SLICK H2O & 373,694 LBS 30/50 SD.

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
12/26/2009	01/05/2010	24	→	80.0	1768.0	402.0			FLOWS FROM WELL
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
18/64	SI 1750	2430.0	→	80	1768	402		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	
	SI		→						

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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	1141				
MAHOGANY	1926				
WASATCH	4348	6982			
MESAVERDE	7038	9103			

32. Additional remarks (include plugging procedure):

ATTACHED TO THIS WELL COMPLETION REPORT IS THE FINAL END OF WELL REPORT.

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 #80616 Verified by the BLM Well Information System.
For KERR-MCGEE OIL&GAS ONSHORE, LP, sent to the Vernal**

Name (please print) ANDY LYTLE Title REGULATORY ANALYST

Signature  (Electronic Submission) Date 01/26/2010

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.

**** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ****

Helen Sadik-Macdonald - Re: DOGM

From: LaVonne Garrison
To: Susan Aldridge
Date: 5/4/2010 9:29 AM
Subject: Re: DOGM
CC: Dustin Doucet; Ed Bonner; Gil Hunt; Helen Sadik-Macdonald; Jim Davis

I have spoken with the DOGM personnel. The borehole for this well was well within the 460' rule for the entire Wasatch section. Anadarko's exception location was approved by DOGM in conformance with DOGM rules. However, the rules do not include notification to the royalty owners. Anadarko is contractually bound under your lease from Trust Lands to protect our interest from drainage from any other wells which may encroach upon our boundaries. While Anadarko owns the working interest in all affected leases and has protected the working interest owners, it has not necessarily protected Trust Lands from drainage. You will be receiving a notice from us requiring the company to prove whether or not drainage is occurring from our lease. If the determination is that drainage is occurring, Anadarko will have to make arrangements with this office on a method to protect trust lands.

LaVonne J. Garrison
Assistant Director/Oil & Gas
Utah Trust Lands Administration
675 East 500 South, Suite 500
Salt Lake City, UT 84102
801.538.5197 - office
801.201.8634 - cell phone
801.355.0922 - fax

>>> "Aldridge, Susan" <Susan.Aldridge@anadarko.com> 4/30/2010 2:05 PM >>>

Hi Lavonne, I did not hear back from Helen so will contact her to discuss the issue on the Morgan State well. Did you get a chance to talk to her, or have any concerns with Anadarko on the Utah 1022-06DT well. Please let me know.

Thanks,

Susan L. Aldridge
Counsel
Anadarko Petroleum
1099 18th Street, Suite 1800
Denver, Colorado 80202
720-929-6505 (Direct Dial)
720-273-6453 (Cell)
720-929-7505 (Fax)
Susan.Aldridge@anadarko.com

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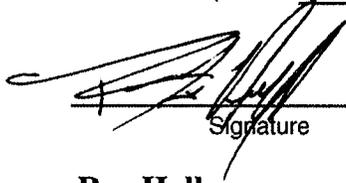
Scientific
Drilling

Directional Survey Certification

7327 West Barton Road
Casper, WY 82604
(307)-472-6621 Fax (307) 472-5439

Operator	<u>Kerr McGee Oil & Gas Onshore LP</u>
Well Name & No.	<u>NBU 1022-06DT</u>
County & State	<u>Uintah County, UT</u>
SDI Job No.	<u>42EF0911588</u>
Rig	<u>Pioneer 69</u>

I, Rex Hall, having personal knowledge of all the facts, hereby certify that the attached directional survey run from a measured depth of 0 feet to a measured depth of 9097 feet is true and correct as determined from all available records.



Signature

2-Mar-10

Date

Rex Hall
Grand Junction Drilling Engineer
Scientific Drilling - Rocky Mountain District

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DIV. OF OIL, GAS & MINING



Scientific Drilling
Rocky Mountain Operations

Kerr McGee Oil and Gas Onshore

LP

Uintah County, UT UTM12

NBU 1022-06DT Pad

NBU 1022-06DT

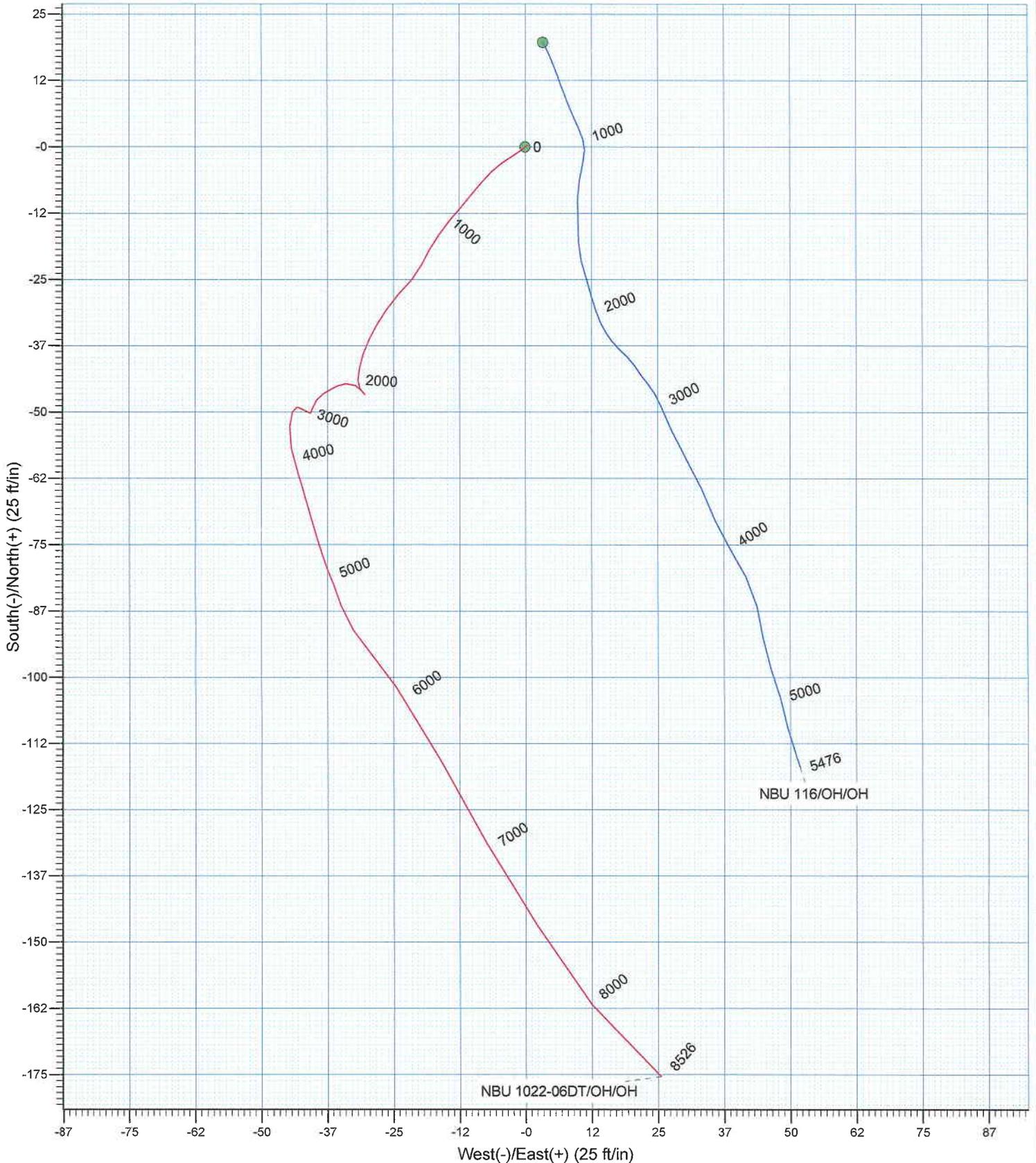
OH

Design: OH

Standard Survey Report

02 March, 2010

Anadarko 
Petroleum Corporation





Scientific Drilling International

Survey Report



Company: Kerr McGee Oil and Gas Onshore LP
Project: Uintah County, UT UTM12
Site: NBU 1022-06DT Pad
Well: NBU 1022-06DT
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well NBU 1022-06DT
TVD Reference: GL 4875' & RKB 18' @ 4893.00ft (Pioneer 69)
MD Reference: GL 4875' & RKB 18' @ 4893.00ft (Pioneer 69)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.16 Multi-User Db

Project	Uintah County, UT UTM12		
Map System:	Universal Transverse Mercator (US Survey Feet)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 - Western US		
Map Zone:	Zone 12N (114 W to 108 W)		

Site	NBU 1022-06DT Pad, Sec 6 T10S R22E				
Site Position:		Northing:	14,524,101.03 ft	Latitude:	39° 59' 5.319 N
From:	Lat/Long	Easting:	2,063,726.61 ft	Longitude:	109° 29' 19.893 W
Position Uncertainty:	0.00 ft	Slot Radius:	in	Grid Convergence:	0.97 °

Well	NBU 1022-06DT, 202' FNL & 310' FWL					
Well Position	+N-S	0.00 ft	Northing:	14,524,081.24 ft	Latitude:	39° 59' 5.124 N
	+E-W	0.00 ft	Easting:	2,063,723.60 ft	Longitude:	109° 29' 19.936 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	4,875.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2005-10	10/19/2009	11.26	65.91	52,518

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	214.67	

Survey Program	Date	3/2/2010			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
144.00	2,114.00	Survey #1 - Surface (OH)	MWD SDI	MWD - Standard ver 1.0.1	
2,204.00	9,097.00	Survey #2 - Production (OH)	MWD SDI	MWD - Standard ver 1.0.1	

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	
144.00	0.34	63.69	144.00	0.19	0.38	-0.37	0.24	0.24	0.00	
First SDI Surface MWD Survey										
234.00	0.18	261.30	234.00	0.29	0.48	-0.51	0.57	-0.18	-180.43	
324.00	0.48	226.37	324.00	0.00	0.07	-0.04	0.39	0.33	-38.81	
414.00	0.99	233.54	413.99	-0.72	-0.83	1.06	0.57	0.57	7.97	
494.00	1.40	237.88	493.97	-1.65	-2.21	2.61	0.52	0.51	5.42	
584.00	1.64	237.20	583.94	-2.93	-4.23	4.81	0.27	0.27	-0.76	
674.00	1.86	226.07	673.90	-4.64	-6.36	7.43	0.45	0.24	-12.37	
764.00	1.96	220.19	763.85	-6.83	-8.41	10.40	0.24	0.11	-6.53	
854.00	1.95	218.64	853.80	-9.20	-10.35	13.46	0.06	-0.01	-1.72	
944.00	2.05	220.81	943.74	-11.62	-12.36	16.59	0.14	0.11	2.41	



Scientific Drilling International

Survey Report



Company: Kerr McGee Oil and Gas Onshore LP
Project: Uintah County, UT UTM12
Site: NBU 1022-06DT Pad
Well: NBU 1022-06DT
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well NBU 1022-06DT
TVD Reference: GL 4875' & RKB 18' @ 4893.00ft (Pioneer 69)
MD Reference: GL 4875' & RKB 18' @ 4893.00ft (Pioneer 69)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.16 Multi-User Db

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)
1,034.00	1.99	220.17	1,033.69	-14.03	-14.42	19.74	0.07	-0.07	-0.71
1,124.00	2.19	214.01	1,123.63	-16.65	-16.39	23.02	0.33	0.22	-6.84
1,214.00	2.02	211.92	1,213.56	-19.42	-18.19	26.32	0.21	-0.19	-2.32
1,304.00	1.96	201.89	1,303.51	-22.19	-19.61	29.41	0.39	-0.07	-11.14
1,394.00	2.43	222.78	1,393.45	-25.02	-21.48	32.80	1.02	0.52	23.21
1,484.00	2.53	221.32	1,483.36	-27.91	-24.08	36.66	0.13	0.11	-1.62
1,574.00	2.15	214.88	1,573.29	-30.79	-26.36	40.32	0.51	-0.42	-7.16
1,664.00	2.08	209.88	1,663.23	-33.59	-28.14	43.63	0.22	-0.08	-5.56
1,754.00	1.89	206.09	1,753.17	-36.34	-29.60	46.73	0.26	-0.21	-4.21
1,844.00	1.87	198.09	1,843.12	-39.07	-30.71	49.60	0.29	-0.02	-8.89
1,934.00	1.62	192.34	1,933.08	-41.71	-31.44	52.19	0.34	-0.28	-6.39
2,024.00	1.31	179.82	2,023.05	-43.98	-31.71	54.21	0.49	-0.34	-13.91
2,114.00	0.70	149.81	2,113.04	-45.48	-31.43	55.29	0.87	-0.68	-33.34
Last SDI Surface MWD Survey									
2,204.00	0.88	137.03	2,203.03	-46.47	-30.68	55.67	0.28	0.20	-14.20
First Survey in 7 7/8" Hole									
2,330.00	1.23	320.90	2,329.02	-46.12	-30.88	55.50	1.67	0.28	-139.79
2,420.00	1.06	295.50	2,419.00	-45.02	-32.24	55.36	0.59	-0.19	-28.22
2,519.00	1.06	265.62	2,517.99	-44.69	-33.98	56.08	0.55	0.00	-30.18
2,612.00	0.88	244.52	2,610.98	-45.06	-35.48	57.25	0.43	-0.19	-22.69
2,703.00	0.97	242.76	2,701.96	-45.72	-36.79	58.53	0.10	0.10	-1.93
2,801.00	1.06	236.44	2,799.95	-46.60	-38.29	60.10	0.15	0.09	-6.45
2,898.00	1.06	216.13	2,896.93	-47.82	-39.56	61.83	0.39	0.00	-20.94
2,989.00	1.06	196.97	2,987.92	-49.30	-40.31	63.48	0.39	0.00	-21.05
3,087.00	0.18	239.86	3,085.91	-50.25	-40.70	64.48	0.96	-0.90	43.77
3,178.00	0.79	307.45	3,176.91	-49.94	-41.33	64.58	0.81	0.67	74.27
3,376.00	0.44	270.27	3,374.90	-49.11	-43.17	64.94	0.26	-0.18	-18.78
3,559.00	0.62	195.30	3,557.89	-50.06	-44.13	66.27	0.36	0.10	-40.97
3,752.00	1.06	186.69	3,750.87	-52.84	-44.62	68.84	0.24	0.23	-4.46
3,942.00	1.41	167.88	3,940.83	-56.87	-44.33	71.99	0.28	0.18	-9.90
4,133.00	1.49	162.43	4,131.76	-61.53	-43.09	75.12	0.08	0.04	-2.85
4,326.00	1.32	164.28	4,324.71	-66.07	-41.73	78.07	0.09	-0.09	0.96
4,513.00	1.41	162.96	4,511.65	-70.34	-40.47	80.87	0.05	0.05	-0.71
4,706.00	1.23	163.75	4,704.60	-74.60	-39.19	83.65	0.09	-0.09	0.41
4,895.00	1.23	160.85	4,893.56	-78.46	-37.96	86.13	0.03	0.00	-1.53
5,085.00	1.32	156.63	5,083.51	-82.40	-36.42	88.49	0.07	0.05	-2.22
5,273.00	1.41	164.19	5,271.46	-86.61	-34.94	91.11	0.11	0.05	4.02
5,465.00	1.58	143.10	5,463.39	-91.00	-32.70	93.45	0.30	0.09	-10.98
5,939.00	1.76	143.36	5,937.19	-102.07	-24.43	97.85	0.04	0.04	0.05
6,445.00	1.93	153.64	6,442.93	-115.94	-16.01	104.46	0.07	0.03	2.03
6,982.00	1.85	148.19	6,979.64	-131.40	-7.43	112.30	0.04	-0.01	-1.01
7,520.00	2.02	148.37	7,517.33	-146.86	2.12	119.58	0.03	0.03	0.03
8,025.00	2.11	142.48	8,022.01	-161.81	12.45	126.00	0.05	0.02	-1.17
8,529.00	2.20	130.18	8,525.65	-175.41	25.49	129.77	0.09	0.02	-2.44
9,097.00	2.46	143.62	9,093.19	-192.26	41.05	134.78	0.11	0.05	2.37
Last SDI MWD Survey									



Scientific Drilling International

Survey Report



Company: Kerr McGee Oil and Gas Onshore LP
Project: Uintah County, UT UTM12
Site: NBU 1022-06DT Pad
Well: NBU 1022-06DT
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well NBU 1022-06DT
TVD Reference: GL 4875' & RKB 18' @ 4893.00ft (Pioneer 69)
MD Reference: GL 4875' & RKB 18' @ 4893.00ft (Pioneer 69)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.16 Multi-User Db

Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)		
- Shape									
NBU 1022-06DT PBHL	0.00	0.00	9,200.00	0.00	0.00	14,524,081.24	2,063,723.60	39° 59' 5.124 N	109° 29' 19.936 W
- actual wellpath misses target center by 223.74ft at 9097.00ft MD (9093.19 TVD, -192.26 N, 41.05 E)									
- Circle (radius 250.00)									
NBU 1022-06DT Hardlin	0.00	0.00	9,200.00	0.00	0.00	14,524,081.24	2,063,723.60	39° 59' 5.124 N	109° 29' 19.936 W
- actual wellpath misses target center by 223.74ft at 9097.00ft MD (9093.19 TVD, -192.26 N, 41.05 E)									
- Polygon									
Point 1			9,200.00	0.00	0.00	14,524,081.24	2,063,723.60		
Point 2			9,200.00	0.00	-250.00	14,524,077.01	2,063,473.64		
Point 3			9,200.00	0.00	0.00	14,524,081.24	2,063,723.60		
Point 4			9,200.00	250.00	0.00	14,524,331.21	2,063,719.37		

Design Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment	
		+N/-S (ft)	+E/-W (ft)		
144.00	144.00	0.19	0.38	First SDI Surface MWD Survey	
2,114.00	2,113.04	-45.48	-31.43	Last SDI Surface MWD Survey	
2,204.00	2,203.03	-46.47	-30.68	First Survey in 7 7/8" Hole	
9,097.00	9,093.19	-192.26	41.05	Last SDI MWD Survey	

Checked By: _____ Approved By: _____ Date: _____



END OF WELL REPORT

Prepared For:

**Kerr McGee Oil & Gas Onshore LP
NBU 1022-06DT Production
Pioneer 69
Uintah County, UT**

Prepared By:

***Julie Cruse, Rockies Region Engineer
Scientific Drilling
Rocky Mountain Region***

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Scientific Drilling
Rocky Mountain Operations

Kerr McGee Oil and Gas Onshore LP

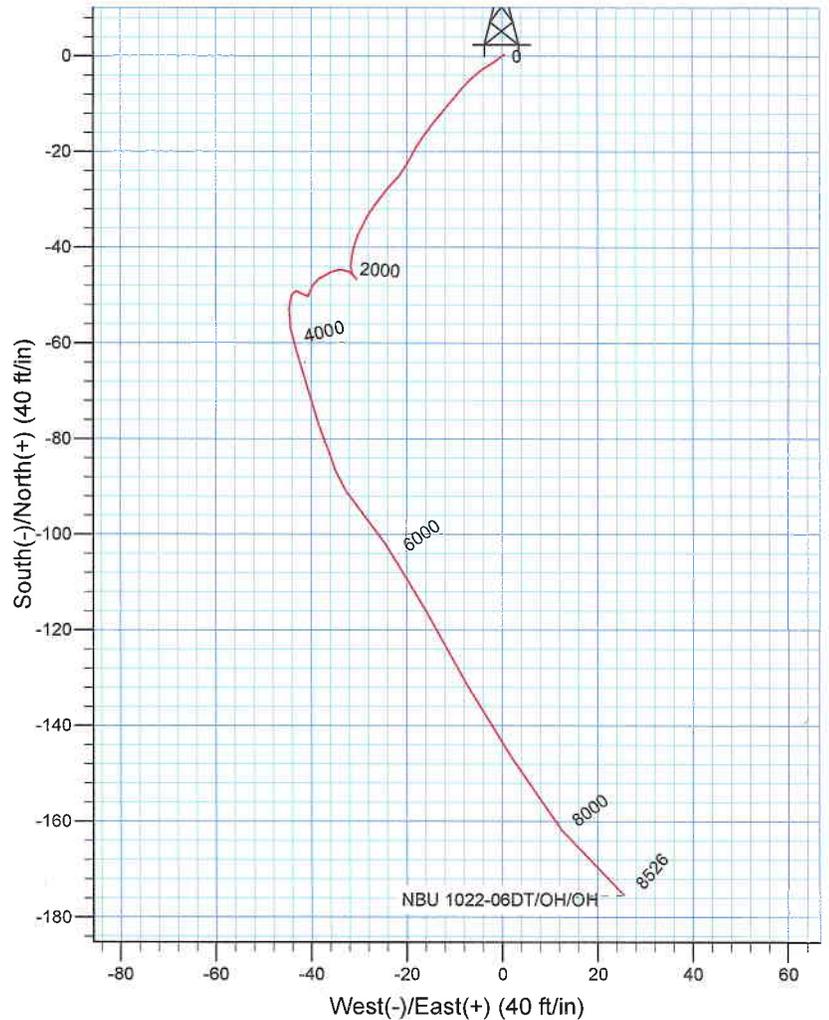
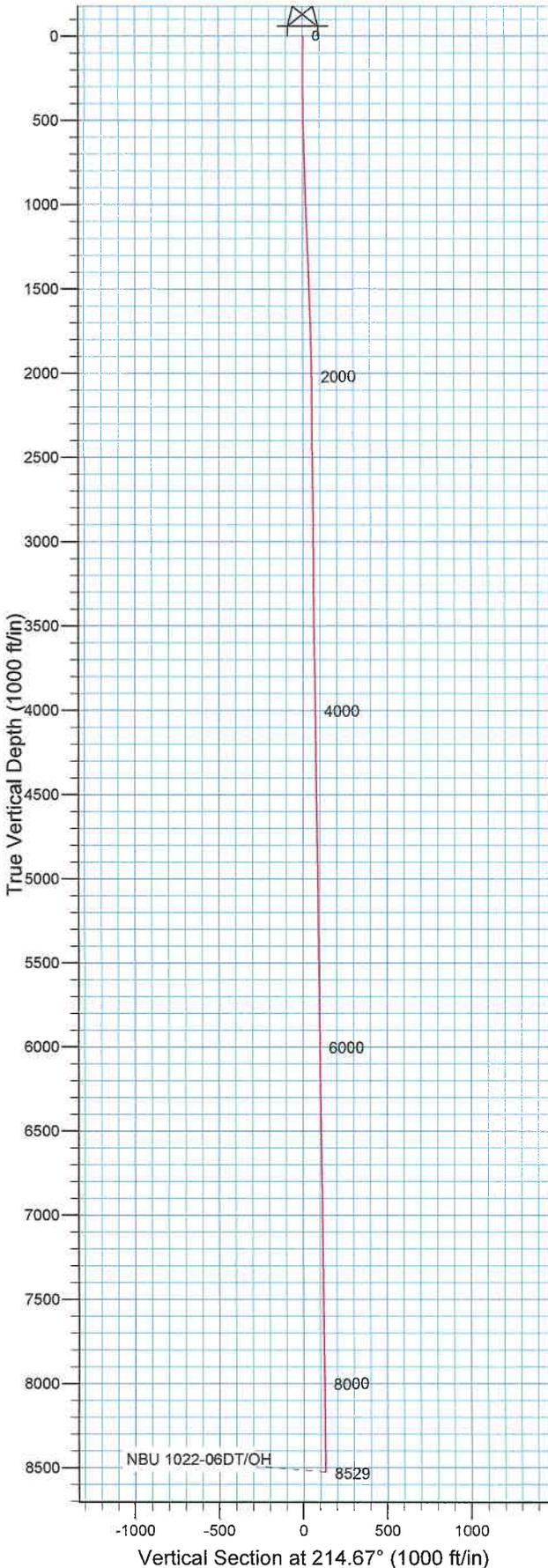
Uintah County, UT UTM12
NBU 1022-06DT Pad
NBU 1022-06DT
OH

Design: OH

Standard Survey Report

10 November, 2009

Anadarko 
Petroleum Corporation



WELL DETAILS: NBU 1022-06DT

Ground Level: GL 4875' & RKB 18' @ 4893.00ft (Pioneer 69)

Depth	North	East	Lat	Long
0.00	0.00	14524081.24	2063723.60	39° 59' 5.124 N 109° 29' 19.936 W

REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well NBU 1022-06DT, True North
 Vertical (TVD) Reference: GL 4875' & RKB 18' @ 4893.00ft (Pioneer 69)
 Section (VS) Reference: Slot - (0.00N, 0.00E)
 Measured Depth Reference: GL 4875' & RKB 18' @ 4893.00ft (Pioneer 69)
 Calculation Method: Minimum Curvature
 Local North: True North
 Location: Sec 6 T10S R22E

PROJECT DETAILS: Uintah County, UT UTM12

Coordinate System: Universal Transverse Mercator (US Survey Feet)
 Datum: NAD 1927 - Western US
 Ellipsoid: Clarke 1866
 Zone: Zone 12N (114 W to 108 W)

Design: OH (NBU 1022-06DT/OH)

Created By: Julie Cruse Date: 2009-11-10

Company: Kerr McGee Oil and Gas Onshore LP
Project: Uintah County, UT UTM12
Site: NBU 1022-06DT Pad
Well: NBU 1022-06DT
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well NBU 1022-06DT
TVD Reference: GL 4875' & RKB 18' @ 4893.00ft (Pioneer 69)
MD Reference: GL 4875' & RKB 18' @ 4893.00ft (Pioneer 69)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.16 Multi User Db

Project	Uintah County, UT UTM12		
Map System:	Universal Transverse Mercator (US Survey Feet)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 - Western US		
Map Zone:	Zone 12N (114 W to 108 W)		

Site	NBU 1022-06DT Pad, Sec 6 T10S R22E				
Site Position:	Northing:	14,524,101.03 ft	Latitude:	39° 59' 5.319 N	
From:	Lat/Long	Easting:	2,063,726.61 ft	Longitude:	109° 29' 19.893 W
Position Uncertainty:	0.00 ft	Slot Radius:	in	Grid Convergence:	0.97 °

Well	NBU 1022-06DT, 202' FNL & 310' FWL					
Well Position	+N/-S	0.00 ft	Northing:	14,524,081.24 ft	Latitude:	39° 59' 5.124 N
	+E/-W	0.00 ft	Easting:	2,063,723.60 ft	Longitude:	109° 29' 19.936 W
Position Uncertainty	0.00 ft	Wellhead Elevation:	ft	Ground Level:	4,875.00 ft	

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
	IGRF2005-10	2009-10-19	(°)	(°)	(nT)
			11.26	65.91	52,518

Design	OH				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction	
	(ft)	(ft)	(ft)	(°)	
	0.00	0.00	0.00	214.67	

Survey Program	Date	2009-11-10			
From	To	Survey (Wellbore)	Tool Name	Description	
(ft)	(ft)				
144.00	2,114.00	Survey #1 - Surface (OH)	MWD SDI	MWD - Standard ver 1.0.1	
2,204.00	8,529.00	Survey #2 - Production (OH)	MWD SDI	MWD - Standard ver 1.0.1	

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	
144.00	0.34	63.69	144.00	0.19	0.38	-0.37	0.24	0.24	0.00	
First SDI Surface MWD Survey										
234.00	0.18	261.30	234.00	0.29	0.48	-0.51	0.57	-0.18	-180.43	
324.00	0.48	226.37	324.00	0.00	0.07	-0.04	0.39	0.33	-38.81	
414.00	0.99	233.54	413.99	-0.72	-0.83	1.06	0.57	0.57	7.97	
494.00	1.40	237.88	493.97	-1.65	-2.21	2.61	0.52	0.51	5.42	
584.00	1.64	237.20	583.94	-2.93	-4.23	4.81	0.27	0.27	-0.76	
674.00	1.86	226.07	673.90	-4.64	-6.36	7.43	0.45	0.24	-12.37	
764.00	1.96	220.19	763.85	-6.83	-8.41	10.40	0.24	0.11	-6.53	
854.00	1.95	218.64	853.80	-9.20	-10.35	13.46	0.06	-0.01	-1.72	
944.00	2.05	220.81	943.74	-11.62	-12.36	16.59	0.14	0.11	2.41	

Company: Kerr McGee Oil and Gas Onshore LP
 Project: Uintah County, UT UTM12
 Site: NBU 1022-06DT Pad
 Well: NBU 1022-06DT
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well NBU 1022-06DT
 TVD Reference: GL 4875' & RKB 18' @ 4893.00ft (Pioneer 69)
 MD Reference: GL 4875' & RKB 18' @ 4893.00ft (Pioneer 69)
 North Reference: True
 Survey Calculation Method: Minimum Curvature
 Database: EDM 2003.16 Multi User Db

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)
1,034.00	1.99	220.17	1,033.69	-14.03	-14.42	19.74	0.07	-0.07	-0.71
1,124.00	2.19	214.01	1,123.63	-16.65	-16.39	23.02	0.33	0.22	-6.84
1,214.00	2.02	211.92	1,213.56	-19.42	-18.19	26.32	0.21	-0.19	-2.32
1,304.00	1.96	201.89	1,303.51	-22.19	-19.61	29.41	0.39	-0.07	-11.14
1,394.00	2.43	222.78	1,393.45	-25.02	-21.48	32.80	1.02	0.52	23.21
1,484.00	2.53	221.32	1,483.36	-27.91	-24.08	36.66	0.13	0.11	-1.62
1,574.00	2.15	214.88	1,573.29	-30.79	-26.36	40.32	0.51	-0.42	-7.16
1,664.00	2.08	209.88	1,663.23	-33.59	-28.14	43.63	0.22	-0.08	-5.56
1,754.00	1.89	206.09	1,753.17	-36.34	-29.60	46.73	0.26	-0.21	-4.21
1,844.00	1.87	198.09	1,843.12	-39.07	-30.71	49.60	0.29	-0.02	-8.89
1,934.00	1.62	192.34	1,933.08	-41.71	-31.44	52.19	0.34	-0.28	-6.39
2,024.00	1.31	179.82	2,023.05	-43.98	-31.71	54.21	0.49	-0.34	-13.91
2,114.00	0.70	149.81	2,113.04	-45.48	-31.43	55.29	0.87	-0.68	-33.34
Last SDI Surface MWD Survey									
2,204.00	0.88	137.03	2,203.03	-46.47	-30.68	55.67	0.28	0.20	-14.20
First Survey in 7 7/8" Hole									
2,330.00	1.23	320.90	2,329.02	-46.12	-30.88	55.50	1.67	0.28	-139.79
2,420.00	1.06	295.50	2,419.00	-45.02	-32.24	55.36	0.59	-0.19	-28.22
2,519.00	1.06	265.62	2,517.99	-44.69	-33.98	56.08	0.55	0.00	-30.18
2,612.00	0.88	244.52	2,610.98	-45.06	-35.48	57.25	0.43	-0.19	-22.69
2,703.00	0.97	242.76	2,701.96	-45.72	-36.79	58.53	0.10	0.10	-1.93
2,801.00	1.06	236.44	2,799.95	-46.60	-38.29	60.10	0.15	0.09	-6.45
2,898.00	1.06	216.13	2,896.93	-47.82	-39.56	61.83	0.39	0.00	-20.94
2,989.00	1.06	196.97	2,987.92	-49.30	-40.31	63.48	0.39	0.00	-21.05
3,087.00	0.18	239.86	3,085.91	-50.25	-40.70	64.48	0.96	-0.90	43.77
3,178.00	0.79	307.45	3,176.91	-49.94	-41.33	64.58	0.81	0.67	74.27
3,376.00	0.44	270.27	3,374.90	-49.11	-43.17	64.94	0.26	-0.18	-18.78
3,559.00	0.62	195.30	3,557.89	-50.06	-44.13	66.27	0.36	0.10	-40.97
3,752.00	1.06	186.69	3,750.87	-52.84	-44.62	68.84	0.24	0.23	-4.46
3,942.00	1.41	167.88	3,940.83	-56.87	-44.33	71.99	0.28	0.18	-9.90
4,133.00	1.49	162.43	4,131.76	-61.53	-43.09	75.12	0.08	0.04	-2.85
4,326.00	1.32	164.28	4,324.71	-66.07	-41.73	78.07	0.09	-0.09	0.96
4,513.00	1.41	162.96	4,511.65	-70.34	-40.47	80.87	0.05	0.05	-0.71
4,706.00	1.23	163.75	4,704.60	-74.60	-39.19	83.65	0.09	-0.09	0.41
4,895.00	1.23	160.85	4,893.56	-78.46	-37.96	86.13	0.03	0.00	-1.53
5,085.00	1.32	156.63	5,083.51	-82.40	-36.42	88.49	0.07	0.05	-2.22
5,273.00	1.41	164.19	5,271.46	-86.61	-34.94	91.11	0.11	0.05	4.02
5,465.00	1.58	143.10	5,463.39	-91.00	-32.70	93.45	0.30	0.09	-10.98
5,939.00	1.76	143.36	5,937.19	-102.07	-24.43	97.85	0.04	0.04	0.05
6,445.00	1.93	153.64	6,442.93	-115.94	-16.01	104.46	0.07	0.03	2.03
6,982.00	1.85	148.19	6,979.64	-131.40	-7.43	112.30	0.04	-0.01	-1.01
7,520.00	2.02	148.37	7,517.33	-146.86	2.12	119.58	0.03	0.03	0.03
8,025.00	2.11	142.48	8,022.01	-161.81	12.45	126.00	0.05	0.02	-1.17
8,529.00	2.20	130.18	8,525.65	-175.41	25.49	129.77	0.09	0.02	-2.44
Last SDI MWD Survey									

Company: Kerr McGee Oil and Gas Onshore LP
Project: Uintah County, UT UTM12
Site: NBU 1022-06DT Pad
Well: NBU 1022-06DT
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well NBU 1022-06DT
TVD Reference: GL 4875' & RKB 18' @ 4893.00ft (Pioneer 69)
MD Reference: GL 4875' & RKB 18' @ 4893.00ft (Pioneer 69)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.16 Multi User Db

Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)		
- Shape									
NBU 1022-06DT PBHL	0.00	0.00	9,200.00	0.00	0.00	14,524,081.24	2,063,723.60	39° 59' 5.124 N	109° 29' 19.936 W
- actual wellpath misses target center by 697.25ft at 8529.00ft MD (8525.65 TVD, -175.41 N, 25.49 E)									
- Circle (radius 250.00)									
NBU 1022-06DT Hardlin	0.00	0.00	9,200.00	0.00	0.00	14,524,081.24	2,063,723.60	39° 59' 5.124 N	109° 29' 19.936 W
- actual wellpath misses target center by 697.25ft at 8529.00ft MD (8525.65 TVD, -175.41 N, 25.49 E)									
- Polygon									
Point 1			9,200.00	0.00	0.00	14,524,081.24	2,063,723.60		
Point 2			9,200.00	0.00	-250.00	14,524,077.01	2,063,473.64		
Point 3			9,200.00	0.00	0.00	14,524,081.24	2,063,723.60		
Point 4			9,200.00	250.00	0.00	14,524,331.21	2,063,719.37		

Checked By: _____ Approved By: _____ Date: _____



Scientific Drilling
Rocky Mountain Operations

Kerr McGee Oil and Gas Onshore LP

Uintah County, UT UTM12
NBU 1022-06DT Pad
NBU 1022-06DT
OH

Design: OH

Survey Report - Geographic

10 November, 2009



Company: Kerr McGee Oil and Gas Onshore LP
Project: Uintah County, UT UTM12
Site: NBU 1022-06DT Pad
Well: NBU 1022-06DT
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well NBU 1022-06DT
TVD Reference: GL 4875' & RKB 18' @ 4893.00ft (Pioneer 69)
MD Reference: GL 4875' & RKB 18' @ 4893.00ft (Pioneer 69)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.16 Multi User Db

Project	Uintah County, UT UTM12		
Map System:	Universal Transverse Mercator (US Survey Feet)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 - Western US		
Map Zone:	Zone 12N (114 W to 108 W)		

Site	NBU 1022-06DT Pad, Sec 6 T10S R22E				
Site Position:		Northing:	14,524,101.03 ft	Latitude:	39° 59' 5.319 N
From:	Lat/Long	Easting:	2,063,726.61 ft	Longitude:	109° 29' 19.893 W
Position Uncertainty:	0.00 ft	Slot Radius:	in	Grid Convergence:	0.97 °

Well	NBU 1022-06DT, 202' FNL & 310' FWL					
Well Position	+N/-S	0.00 ft	Northing:	14,524,081.24 ft	Latitude:	39° 59' 5.124 N
	+E/-W	0.00 ft	Easting:	2,063,723.60 ft	Longitude:	109° 29' 19.936 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	4,875.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2005-10	2009-10-19	11.26	65.91	52,518

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	214.67	

Survey Program	Date	2009-11-10			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
144.00	2,114.00	Survey #1 - Surface (OH)	MWD SDI	MWD - Standard ver 1.0.1	
2,204.00	8,529.00	Survey #2 - Production (OH)	MWD SDI	MWD - Standard ver 1.0.1	

Company: Kerr McGee Oil and Gas Onshore LP
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Local Co-ordinate Reference: Well NBU 1022-06DT
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MD Reference: GL 4875' & RKB 18' @ 4893.00ft (Pioneer 69)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.16 Multi User Db

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (ft)	Map Easting (ft)	Latitude	Longitude	
0.00	0.00	0.00	0.00	0.00	0.00	14,524,081.24	2,063,723.60	39° 59' 5.124 N	109° 29' 19.936 W	
144.00	0.34	63.69	144.00	0.19	0.38	14,524,081.44	2,063,723.98	39° 59' 5.126 N	109° 29' 19.931 W	
First SDI Surface MWD Survey										
234.00	0.18	261.30	234.00	0.29	0.48	14,524,081.54	2,063,724.08	39° 59' 5.127 N	109° 29' 19.930 W	
324.00	0.48	226.37	324.00	0.00	0.07	14,524,081.25	2,063,723.67	39° 59' 5.124 N	109° 29' 19.935 W	
414.00	0.99	233.54	413.99	-0.72	-0.83	14,524,080.51	2,063,722.79	39° 59' 5.117 N	109° 29' 19.947 W	
494.00	1.40	237.88	493.97	-1.65	-2.21	14,524,079.56	2,063,721.42	39° 59' 5.108 N	109° 29' 19.964 W	
584.00	1.64	237.20	583.94	-2.93	-4.23	14,524,078.24	2,063,719.43	39° 59' 5.095 N	109° 29' 19.990 W	
674.00	1.86	226.07	673.90	-4.64	-6.36	14,524,076.50	2,063,717.32	39° 59' 5.078 N	109° 29' 20.018 W	
764.00	1.96	220.19	763.85	-6.83	-8.41	14,524,074.27	2,063,715.31	39° 59' 5.056 N	109° 29' 20.044 W	
854.00	1.95	218.64	853.80	-9.20	-10.35	14,524,071.87	2,063,713.41	39° 59' 5.033 N	109° 29' 20.069 W	
944.00	2.05	220.81	943.74	-11.62	-12.36	14,524,069.42	2,063,711.44	39° 59' 5.009 N	109° 29' 20.095 W	
1,034.00	1.99	220.17	1,033.69	-14.03	-14.42	14,524,066.97	2,063,709.42	39° 59' 4.985 N	109° 29' 20.121 W	
1,124.00	2.19	214.01	1,123.63	-16.65	-16.39	14,524,064.32	2,063,707.50	39° 59' 4.959 N	109° 29' 20.147 W	
1,214.00	2.02	211.92	1,213.56	-19.42	-18.19	14,524,061.52	2,063,705.74	39° 59' 4.932 N	109° 29' 20.170 W	
1,304.00	1.96	201.89	1,303.51	-22.19	-19.61	14,524,058.72	2,063,704.38	39° 59' 4.905 N	109° 29' 20.188 W	
1,394.00	2.43	222.78	1,393.45	-25.02	-21.48	14,524,055.86	2,063,702.56	39° 59' 4.877 N	109° 29' 20.212 W	
1,484.00	2.53	221.32	1,483.36	-27.91	-24.08	14,524,052.92	2,063,700.00	39° 59' 4.848 N	109° 29' 20.245 W	
1,574.00	2.15	214.88	1,573.29	-30.79	-26.36	14,524,050.01	2,063,697.77	39° 59' 4.820 N	109° 29' 20.275 W	
1,664.00	2.08	209.88	1,663.23	-33.59	-28.14	14,524,047.18	2,063,696.04	39° 59' 4.792 N	109° 29' 20.298 W	
1,754.00	1.89	206.09	1,753.17	-36.34	-29.60	14,524,044.41	2,063,694.62	39° 59' 4.765 N	109° 29' 20.316 W	
1,844.00	1.87	198.09	1,843.12	-39.07	-30.71	14,524,041.66	2,063,693.56	39° 59' 4.738 N	109° 29' 20.331 W	
1,934.00	1.62	192.34	1,933.08	-41.71	-31.44	14,524,039.01	2,063,692.87	39° 59' 4.712 N	109° 29' 20.340 W	
2,024.00	1.31	179.82	2,023.05	-43.98	-31.71	14,524,036.73	2,063,692.64	39° 59' 4.689 N	109° 29' 20.343 W	
2,114.00	0.70	149.81	2,113.04	-45.48	-31.43	14,524,035.23	2,063,692.95	39° 59' 4.674 N	109° 29' 20.340 W	
Last SDI Surface MWD Survey										
2,204.00	0.88	137.03	2,203.03	-46.47	-30.68	14,524,034.26	2,063,693.71	39° 59' 4.665 N	109° 29' 20.330 W	
First Survey in 7 7/8" Hole										
2,330.00	1.23	320.90	2,329.02	-46.12	-30.88	14,524,034.60	2,063,693.51	39° 59' 4.668 N	109° 29' 20.333 W	
2,420.00	1.06	295.50	2,419.00	-45.02	-32.24	14,524,035.69	2,063,692.13	39° 59' 4.679 N	109° 29' 20.350 W	
2,519.00	1.06	265.62	2,517.99	-44.69	-33.98	14,524,035.98	2,063,690.39	39° 59' 4.682 N	109° 29' 20.373 W	
2,612.00	0.88	244.52	2,610.98	-45.06	-35.48	14,524,035.58	2,063,688.89	39° 59' 4.679 N	109° 29' 20.392 W	
2,703.00	0.97	242.76	2,701.96	-45.72	-36.79	14,524,034.91	2,063,687.59	39° 59' 4.672 N	109° 29' 20.409 W	
2,801.00	1.06	236.44	2,799.95	-46.60	-38.29	14,524,034.00	2,063,686.11	39° 59' 4.663 N	109° 29' 20.428 W	
2,898.00	1.06	216.13	2,896.93	-47.82	-39.56	14,524,032.76	2,063,684.86	39° 59' 4.651 N	109° 29' 20.444 W	
2,989.00	1.06	196.97	2,987.92	-49.30	-40.31	14,524,031.26	2,063,684.14	39° 59' 4.637 N	109° 29' 20.454 W	
3,087.00	0.18	239.86	3,085.91	-50.25	-40.70	14,524,030.31	2,063,683.76	39° 59' 4.627 N	109° 29' 20.459 W	
3,178.00	0.79	307.45	3,176.91	-49.94	-41.33	14,524,030.61	2,063,683.13	39° 59' 4.630 N	109° 29' 20.467 W	
3,376.00	0.44	270.27	3,374.90	-49.11	-43.17	14,524,031.41	2,063,681.27	39° 59' 4.639 N	109° 29' 20.491 W	
3,559.00	0.62	195.30	3,557.89	-50.06	-44.13	14,524,030.45	2,063,680.32	39° 59' 4.629 N	109° 29' 20.503 W	
3,752.00	1.06	186.69	3,750.87	-52.84	-44.62	14,524,027.66	2,063,679.89	39° 59' 4.602 N	109° 29' 20.509 W	
3,942.00	1.41	167.88	3,940.83	-56.87	-44.33	14,524,023.63	2,063,680.24	39° 59' 4.562 N	109° 29' 20.506 W	
4,133.00	1.49	162.43	4,131.76	-61.53	-43.09	14,524,018.99	2,063,681.56	39° 59' 4.516 N	109° 29' 20.490 W	
4,326.00	1.32	164.28	4,324.71	-66.07	-41.73	14,524,014.48	2,063,683.00	39° 59' 4.471 N	109° 29' 20.472 W	
4,513.00	1.41	162.96	4,511.65	-70.34	-40.47	14,524,010.23	2,063,684.33	39° 59' 4.429 N	109° 29' 20.456 W	
4,706.00	1.23	163.75	4,704.60	-74.60	-39.19	14,524,005.99	2,063,685.68	39° 59' 4.387 N	109° 29' 20.440 W	
4,895.00	1.23	160.85	4,893.56	-78.46	-37.96	14,524,002.15	2,063,686.98	39° 59' 4.348 N	109° 29' 20.424 W	
5,085.00	1.32	156.63	5,083.51	-82.40	-36.42	14,523,998.24	2,063,688.58	39° 59' 4.310 N	109° 29' 20.404 W	
5,273.00	1.41	164.19	5,271.46	-86.61	-34.94	14,523,994.05	2,063,690.14	39° 59' 4.268 N	109° 29' 20.385 W	
5,465.00	1.58	143.10	5,463.39	-91.00	-32.70	14,523,989.70	2,063,692.45	39° 59' 4.225 N	109° 29' 20.356 W	
5,939.00	1.76	143.36	5,937.19	-102.07	-24.43	14,523,978.78	2,063,700.90	39° 59' 4.115 N	109° 29' 20.250 W	
6,445.00	1.93	153.64	6,442.93	-115.94	-16.01	14,523,965.05	2,063,709.56	39° 59' 3.978 N	109° 29' 20.142 W	
6,982.00	1.85	148.19	6,979.64	-131.40	-7.43	14,523,949.73	2,063,718.40	39° 59' 3.825 N	109° 29' 20.031 W	
7,520.00	2.02	148.37	7,517.33	-146.86	2.12	14,523,934.44	2,063,728.21	39° 59' 3.672 N	109° 29' 19.909 W	
8,025.00	2.11	142.48	8,022.01	-161.81	12.45	14,523,919.67	2,063,738.79	39° 59' 3.525 N	109° 29' 19.776 W	

Company: Kerr McGee Oil and Gas Onshore LP
Project: Uintah County, UT UTM12
Site: NBU 1022-06DT Pad
Well: NBU 1022-06DT
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well NBU 1022-06DT
TVD Reference: GL 4875' & RKB 18' @ 4893.00ft (Pioneer 69)
MD Reference: GL 4875' & RKB 18' @ 4893.00ft (Pioneer 69)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.16 Multi User Db

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (ft)	Map Easting (ft)	Latitude	Longitude
8,529.00	2.20	130.18	8,525.65	-175.41	25.49	14,523,906.29	2,063,752.06	39° 59' 3.390 N	109° 29' 19.608 W
Last SDI MWD Survey									

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
NBU 1022-06DT PBHL	0.00	0.00	9,200.00	0.00	0.00	14,524,081.24	2,063,723.60	39° 59' 5.124 N	109° 29' 19.936 W
- hit/miss target									
- Shape									
- actual wellpath misses target center by 697.25ft at 8529.00ft MD (8525.65 TVD, -175.41 N, 25.49 E)									
- Circle (radius 250.00)									
NBU 1022-06DT Hardlin	0.00	0.00	9,200.00	0.00	0.00	14,524,081.24	2,063,723.60	39° 59' 5.124 N	109° 29' 19.936 W
- actual wellpath misses target center by 697.25ft at 8529.00ft MD (8525.65 TVD, -175.41 N, 25.49 E)									
- Polygon									
Point 1			9,200.00	0.00	0.00	14,524,081.24	2,063,723.60		
Point 2			9,200.00	0.00	-250.00	14,524,077.01	2,063,473.64		
Point 3			9,200.00	0.00	0.00	14,524,081.24	2,063,723.60		
Point 4			9,200.00	250.00	0.00	14,524,331.21	2,063,719.37		

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
144.00	144.00	0.19	0.38	First SDI Surface MWD Survey
2,114.00	2,113.04	-45.48	-31.43	Last SDI Surface MWD Survey
2,204.00	2,203.03	-46.47	-30.68	First Survey in 7 7/8" Hole
8,529.00	8,525.65	-175.41	25.49	Last SDI MWD Survey

Checked By: _____ Approved By: _____ Date: _____



Scientific Drilling
Rocky Mountain Operations

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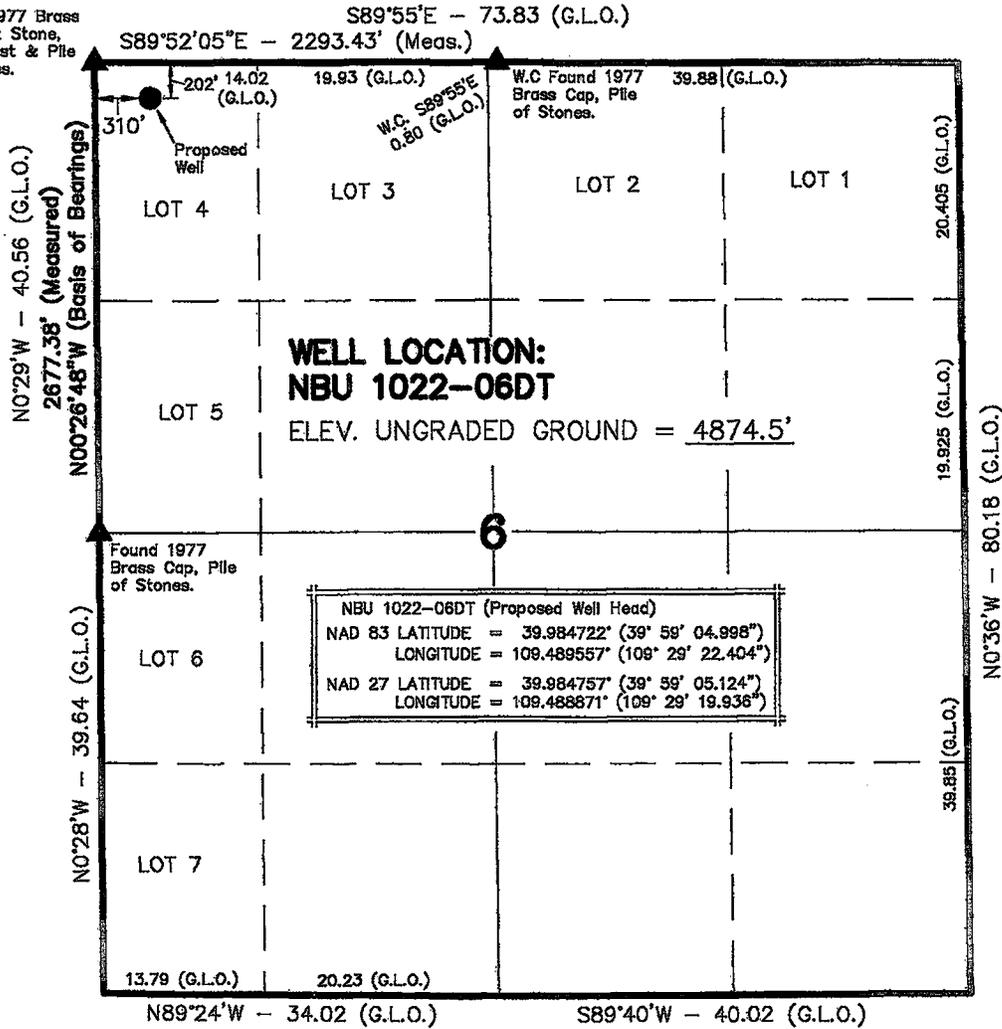
Operator:
A. Merha

7237 W. Barton Rd., Casper, WY 82604
P.O. Box 1600, Mills, WY 82644
(307) 472-6621

pg 9 - this well is outside 460' of NBL boundary
 Bottom hole location 397' FNL 351' FWL

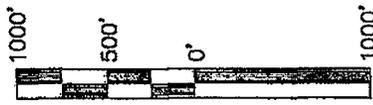
T10S, R22E, S.L.B.&M.

Found 1977 Brass Cap, Set Stone, Steel Post & Pile of Stones.



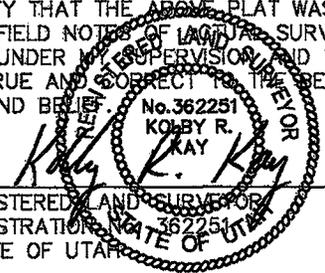
NOTES:

- ▲ = 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 $\frac{1}{4}$ 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 LAND SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.



REGISTERED LAND SURVEYOR
 REGISTRATION No. 362251
 STATE OF UTAH

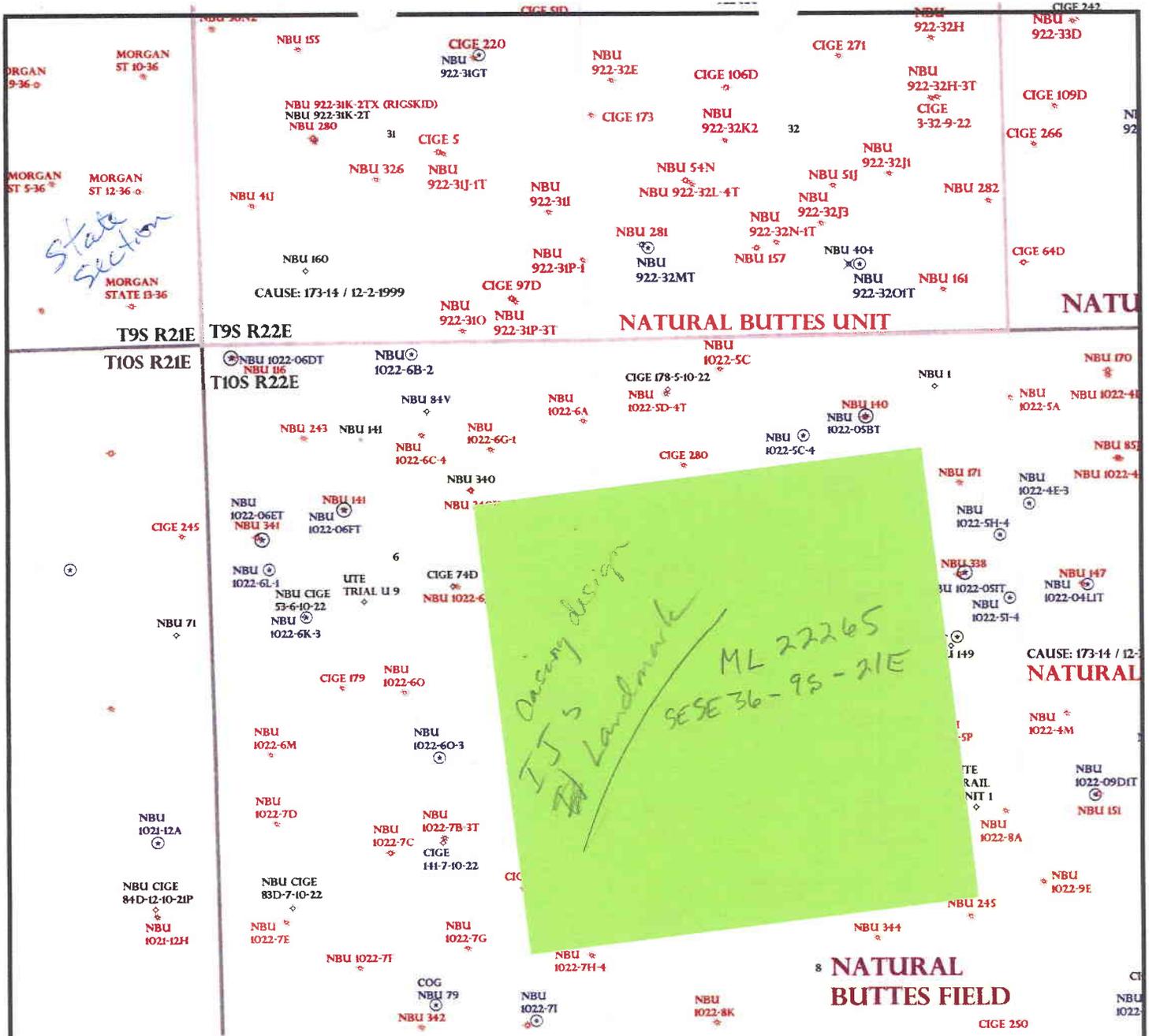
Kerr-McGee
Oil & Gas Onshore, LP
 1099 18th Street, Suite 1200 - Denver, Colorado 80202



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

NBU 1022-06DT
WELL PLAT
202' FNL, 310' FWL
LOT 4 OF SECTION 6, T10S, R22E,
S.L.B.&M. UINTAH COUNTY, UTAH.

TIMBERLINE (435) 788-1365		
ENGINEERING & LAND SURVEYING, INC.		
209 NORTH 300 WEST - VERNAL, UTAH 84078		
DATE SURVEYED: 06-02-08	SURVEYED BY: M.S.B.	SHEET 2 OF 7
DATE DRAWN: 06-03-08	DRAWN BY: M.W.W.	
SCALE: 1" = 1000'	Date Last Revised: 03-20-09	



OPERATOR: KERR MCGEE O&G (N2995)

SEC: 5,6 T.10S R. 22E

FIELD: NATURAL BUTTES (630)

COUNTY: UINTAH

CAUSE: 173-14 / 12-2-1999

Field Status	
	ABANDONED
	ACTIVE
	COMBINED
	INACTIVE
	PROPOSED
	STORAGE
	TERMINATED

Unit Status	
	EXPLORATORY
	GAS STORAGE
	NF PP OIL
	NF SECONDARY
	PENDING
	PI OIL
	PP GAS
	PP GEOTHERML
	PP OIL
	SECONDARY
	TERMINATED

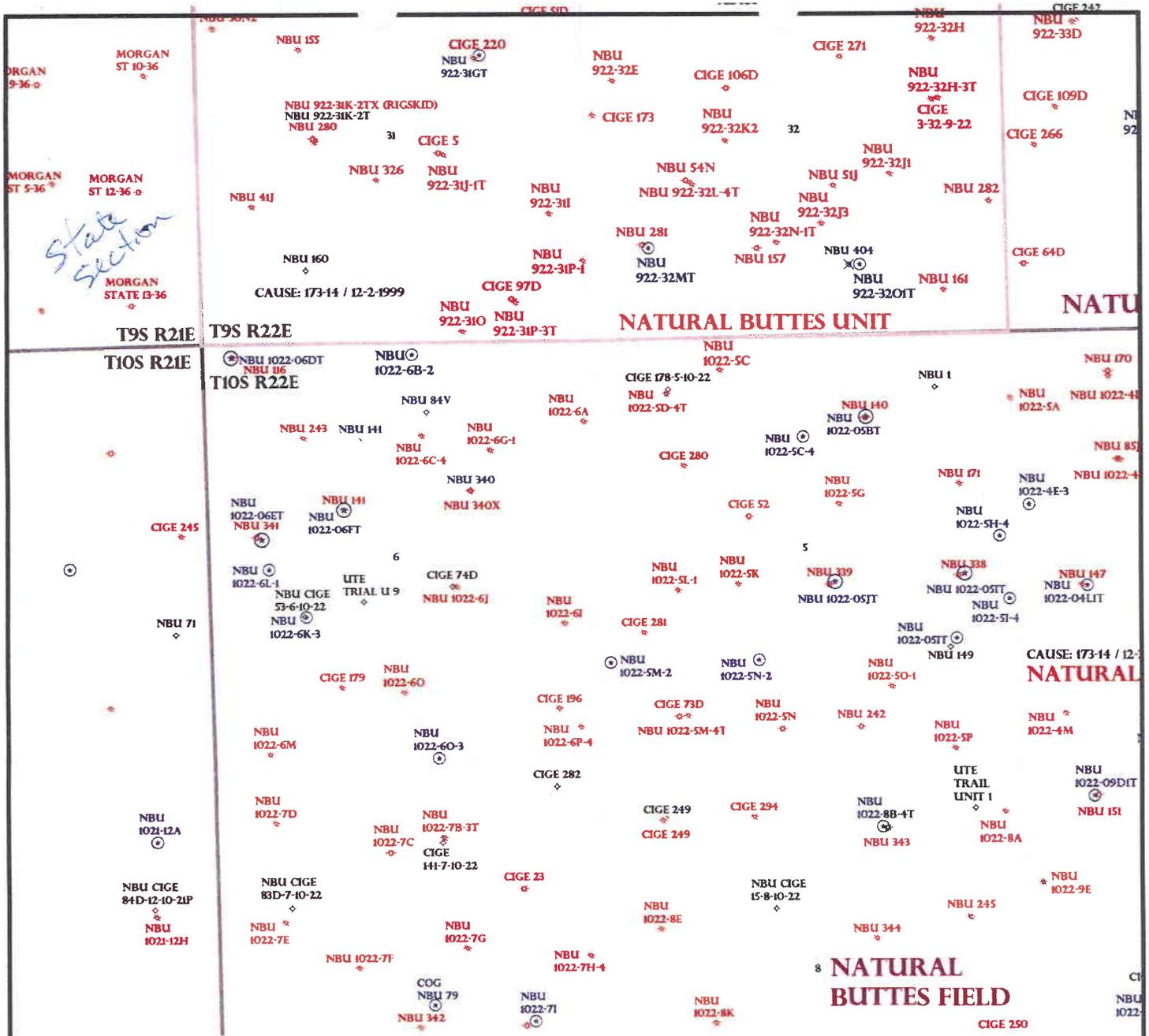
Wells Status	
	GAS INJECTION
	GAS STORAGE
	LOCATION ABANDONED
	NEW LOCATION
	PLUGGED & ABANDONED
	PRODUCING GAS
	PRODUCING OIL
	SHUT-IN GAS
	SHUT-IN OIL
	TEMP. ABANDONED
	TEST WELL
	WATER INJECTION
	WATER SUPPLY
	WATER DISPOSAL
	DRILLING



OIL, GAS & MINING



PREPARED BY: DIANA MASON
DATE: 17-JUNE-2008



OPERATOR: KERR MCGEE O&G (N2995)

SEC: 5,6 T.10S R. 22E

FIELD: NATURAL BUTTES (630)

COUNTY: UINTAH

CAUSE: 173-14 / 12-2-1999

Field Status	
	ABANDONED
	ACTIVE
	COMBINED
	INACTIVE
	PROPOSED
	STORAGE
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Unit Status	
	EXPLORATORY
	GAS STORAGE
	NF PP OIL
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	PP GEOTHERML
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	SECONDARY
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Wells Status	
	GAS INJECTION
	GAS STORAGE
	LOCATION ABANDONED
	NEW LOCATION
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	PRODUCING GAS
	PRODUCING OIL
	SHUT-IN GAS
	SHUT-IN OIL
	TEMP. ABANDONED
	TEST WELL
	WATER INJECTION
	WATER SUPPLY
	WATER DISPOSAL
	DRILLING



OIL, GAS & MINING



PREPARED BY: DIANA MASON
DATE: 17-JUNE-2008

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-0464
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: 7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: NBU 1022-06DT
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047401580000
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: 0202 FNL 0310 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNW Section: 06 Township: 10.0S Range: 22.0E 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: 9/21/2011	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input checked="" 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 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.

The operator requests approval to conduct wellhead/casing repair operations on the subject well location. Please find the attached procedure for the proposed repair work on the subject well location.

Accepted by the Utah Division of Oil, Gas and Mining

Date: 09/26/2011

By: *Derek Quist*

NAME (PLEASE PRINT) Andy Lytle	PHONE NUMBER 720 929-6100	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 9/21/2011	

WORKORDER #:

Name: NBU 1022-6DT 5/16/2011
 Surface Location: NWNW Sec. 6, T10S, R22E
 Uintah County, UT

API: 4304740158 LEASE#: UTU-464

ELEVATIONS: 4875' GL 4893' KB

TOTAL DEPTH: 9160' PBTD: 9112'

SURFACE CASING: 9 5/8", 36# J-55 @ 2129'

PRODUCTION CASING: 4 1/2", 11.6#, I-80 @ 9156'
 TOC @ 90' per CBL

PERFORATIONS: Wasatch 5845' - 6948'
 Mesaverde 6990' - 8826'

Tubular/Borehole	Drift inches	Collapse psi	Burst psi	Capacities		
				Gal./ft.	Cuft/ft.	Bbl./ft.
2.375" 4.7# J-55 tbg.	1.901	8100	7700	0.1624	0.02171	0.00387
4.5" 11.6# I-80	3.875	6350	7780	0.6528	0.0872	0.0155
9.625" 36# J-55	8.921	2020	3520	3.247	0.434	0.0773
Annular Capacities						
2.375" tbg. X 4 1/2" 11.6# csg				0.4227	0.0565	0.01

GEOLOGICAL TOPS:

1141' Green River
 1926' Mahogany
 4348' Wasatch
 7038' Mesaverde

NBU 1022-6DT- WELLHEAD REPAIR PROCEDURE

PREP-WORK PRIOR TO MIRU:

1. Dig out down to the 2" surface casing valve or to the valve on the riser off the surface casing.
2. Install a tee with 2 valves, with a pressure gauge and sensor on one valve.
3. Open casing valve and record pressures.
4. Install nipple and steel hose on the other valve, the relief valve,. Do not use hammer unions. No impact equipment or tools to be used for any of this installation. Extend hose and hard piping to a downwind location at least 100' from the wellhead. Consider installing a manifold so that vent area could be in two locations approx. 90 degrees apart from the wellhead.
5. Open the relief valve and blow well down to the atmosphere.
6. Make a determination of amount of gas flow, either by installation of a choke nipple, bucket test or other.
7. Shut well in. Observe for rate of build-up by utilizing sensor data. Do not build-up for more than 24 hours. Vent gas through the vent line and leave open to the atmosphere.

WORKOVER PROCEDURE:

1. MIRU workover rig.
2. Kill well with 10# brine / KCL (dictated by well pressure).
3. Remove tree, install double BOP with blind and 2 3/8" pipe rams, with accumulator closing unit and manual back-ups. Function test BOP system.
4. POOH w/ tubing laying down extra tubing.
5. Rig up wireline service. RIH and set CBP @ ~5795'. Dump bail 4 sx cement on top of plug. POOH and RD wireline service. TIH w/ tubing and seating nipple. Land tubing ±60' above cement. RDMO.
6. Monitor well pressures. If surface casing is dead. MIRU. ND WH and NU BOP. POOH w/ tubing.
7. Depending on conditions at wellsite, continue with either CUT/PATCH Procedure or BACK-OFF Procedure.

CUT/PATCH PROCEDURE:

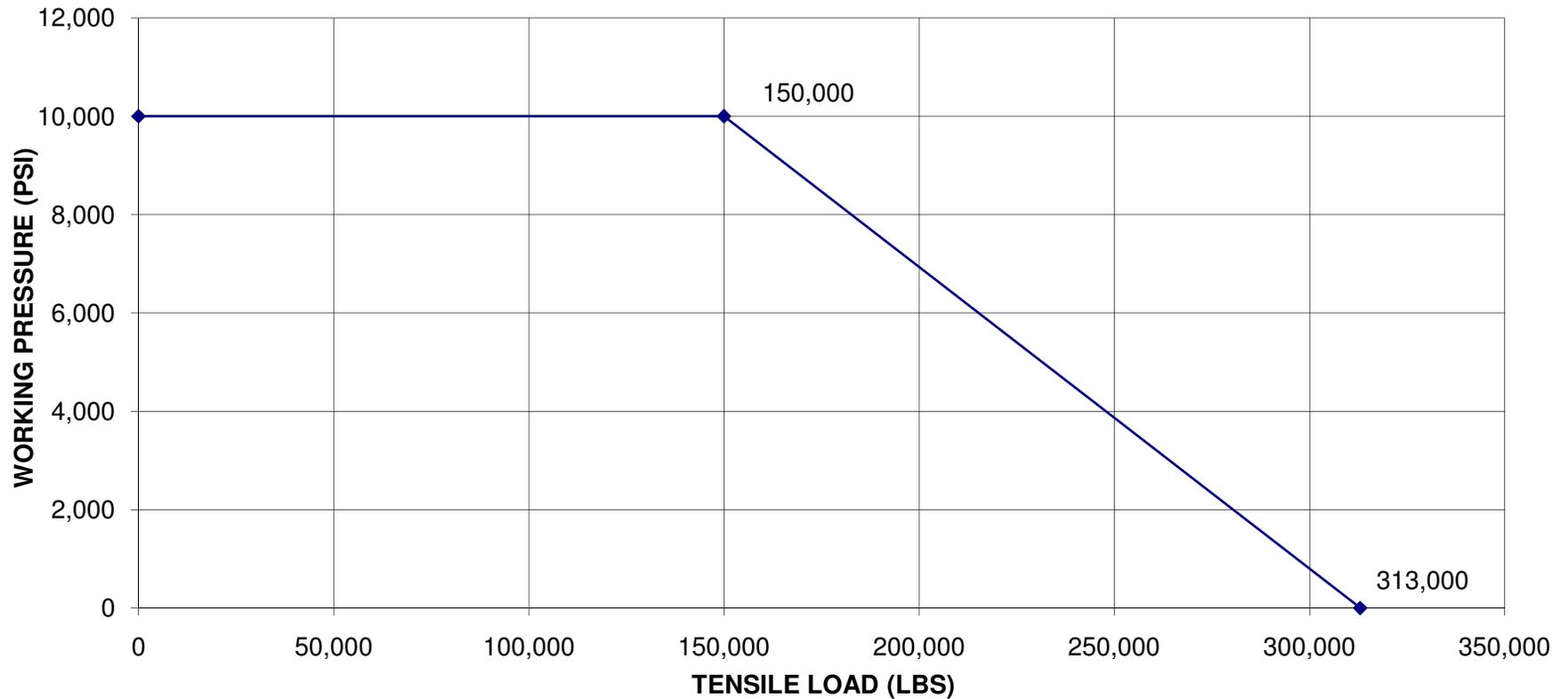
1. PU internal casing cutters and RIH. Cut casing at +/- 30' from surface.
2. POOH, LD cutters and casing.
3. PU 7 3/8" overshoot with 4 1/2" right hand standard wicker grapple, 1 - 4 3/4" drill collar with 3 1/2" IF threads, pup joint, manual bumper sub, and crossovers. If casing cut is deeper than ±30' utilize >7000 ft-lb torque pipe as needed. Pull a minimum of 10,000# to keep grapple engaged if cement top is high (<~900'). If cement top is low (>~900'), more weight will be required to put casing in neutral. Torque casing string to ±7000 ft-lbs, count number of turns to make-up, and document in the daily report. Ensure that tongs are safely anchored to rig and that all personnel are at a safe working distance from the tongs during torque-up and torque release. After initial make-up, place pipe torque to neutral and mark pipe. Place ±7000 ft-lbs on casing a second time, count turns, then return pipe torque to neutral and count turns. Repeat if torque-up turns do not equal torque release turns. Once torque-in equals torque-out, release overshoot, POOH, and lay down.
4. TIH w/ skirted mill and dress off the fish top for approximately 1/2 hour. TOO H.
5. PU & RIH w/ 4 1/2" 10k external casing patch on 4 1/2" P-110 casing. Ensure that sliding sleeve assembly shifts ±3' and casing tags no-go portion of patch. NOTE: Shear pins will shear at 3500 to 4500 lbs.
6. Latch fish, PU to 100,000# tension. RU B&C. Cycle pressure test to 3500 psi.
7. Install slips. Land casing w/ 80,000# tension.
8. Cut-off and dress 4 1/2" casing stub.
9. NUWH. PU 3 7/8" bit, POBS and RIH. D/O cement and plug ~5745'. Clean out to PBSD (9112').
10. POOH, land tbg and pump off POBS.
11. NUWH, RDMO. Turn well over to production ops.

BACK-OFF PROCEDURE:

1. PU internal casing cutters and RIH. Cut casing at +/- 6' from surface.
2. POOH, LD cutters and casing.
3. PU 4 1/2" overshoot. RIH, latch fish. Pick string weight to neutral.
4. MIRU casing crew and wireline services. RIH and shoot string shot at casing collar @ ± 46'.
5. Back-off casing, POOH.

6. PU new casing joint with buttress threads and entry guide and RIH. Tag casing top. Thread into casing and torque up to ± 7000 ft-lbs, count number of additional turns to make-up, and document in the daily report. Ensure that tongs are safely anchored to rig and that all personnel are at a safe working distance from the tongs during torque-up and torque release. After initial make-up, place pipe torque to neutral and mark pipe. Place ± 7000 ft-lbs on casing a second time, count turns, then return pipe torque to neutral and count turns. Repeat if torque-up turns do not equal torque release turns. Once torque-in equals torque-out go to step 7.
7. PU 100,000# tension string weight. RU B&C. Cycle pressure test to 3500 psi.
8. Install slips. Land casing w/ 80,000# tension.
9. Cut-off and dress 4 1/2" casing stub.
10. NUWH. PU 3 7/8" bit, POBS and RIH. D/O cement and plug ~5745'. Clean out to PBSD (9112').
11. POOH, land tbg and pump off POBS.
12. NUWH, RDMO. Turn well over to production ops.

**STRENGTH DATA FOR LOGAN 5.88" OD "L" TYPE CSG PATCH
4-1/2 CASING, 10K PSI MAX WP 125K YIELD MAT'L
LOGAN ASSEMBLY NO. 510L-005 -000**



COLLAPSE PRESSURE:
11,222 PSI @ 0 TENSILE
8,634 PSI @ 220K TENSILE

Tensile Strength @ Yield:
Tensile Strength w/ 0 Int. Press.= 472,791lbs.
Tensile Strength w/ 10K Int. Press.= 313,748lbs.

DATA BY SLS 11/16/2009

RECEIVED Sep. 21, 2011

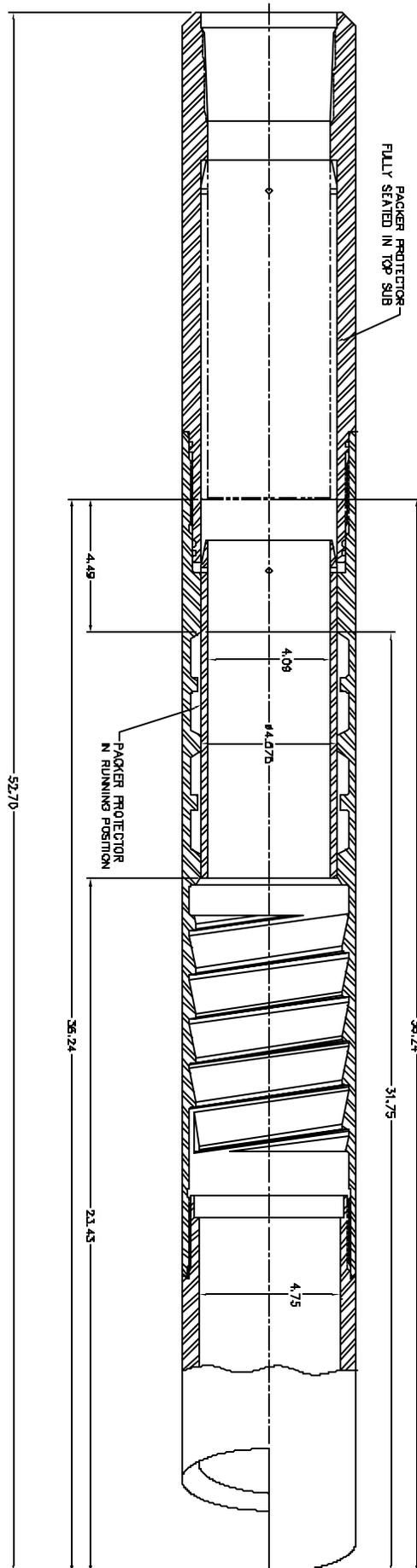


Logan High Pressure Casing Patches Assembly Procedure

All parts should be thoroughly greased before being assembled.

1. Install all four Logan Type "L" Packers in the spaces provided in the Casing Patch Bowl. Refer to diagram provided for proper installation.
2. Install Packer Protector from the Basket Grapple end of the Bowl. The beveled end of the Packer Protector goes in first. Carefully push the Packer Protector through the four Type "L" Packers.
3. Align Shear Pin Holes in Packer Protector so that the holes have just passed into the counter bore at the Top Sub end, refer to diagram. The Packer Protector is provided with four Shear Pin Holes. Use only two holes, 180 degrees apart and install the pins.
4. Screw the Basket Grapple in from the lower end of the Bowl, using left-hand rotation. The Tang Slot in the Basket Grapple must land in line with the slot in the Bowl.
5. Insert the Basket Grapple Control into the end of the Bowl. Align Tang on the Basket Grapple Control with the Tang Slot of the Bowl and Basket Grapple. This secures the Bowl and the Basket Grapple together.
6. Install the Cutlipped Guide into the lower end of the Bowl.
7. Install O-Rings on the two five-foot long Extensions. Screw the first Extension into the top end of the Bowl. Screw the second Extension into the top end of the first Extension.
8. Install O-Ring on Top Sub. Screw Top Sub into top end of second Extension.

Follow recommended Make-Up Torque as provided in chart.



510L-005-001 4-1/2" LOGAN HP CASING PATCH

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-0464
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
1. TYPE OF WELL Gas Well		8. WELL NAME and NUMBER: NBU 1022-06DT
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		9. API NUMBER: 43047401580000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0202 FNL 0310 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNW Section: 06 Township: 10.0S Range: 22.0E 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"/> 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 checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 12/7/2011	<input checked="" 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 type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> OTHER: <input style="width: 100px;" type="text"/>	
<input type="checkbox"/> DRILLING REPORT Report Date:		
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.		
The operator has concluded the wellhead/casing repairs on the subject well location. Please see that attached chronological history for details of the operations.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY July 18, 2012		
NAME (PLEASE PRINT) Jaime Scharnowske	PHONE NUMBER 720 929-6304	TITLE Regularatory Analyst
SIGNATURE N/A		DATE 7/17/2012

US ROCKIES REGION
Operation Summary Report

Well: NBU 1022-6DT		Spud Conductor: 10/19/2009		Spud Date: 10/21/2009				
Project: UTAH-UINTAH			Site: NBU 116		Rig Name No: SWABBCO 6/6			
Event: WELL WORK EXPENSE			Start Date: 12/2/2011		End Date: 12/7/2011			
Active Datum: RKB @4,893.00usft (above Mean Sea Level)			UWI: NW/NW/0/10/S/22/E/6/0/0/26/PM/N/202.00/W/0/310.00/0/0					
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
12/2/2011	7:00 - 7:15	0.25	WO/REP	48		P		JSA= WELL CONTROL
	7:15 - 17:00	9.75	WO/REP	30		P		FWP= 600 PSI MI RU RIG SPOT EQUIP RECOVER PLUNGER EQUIP CONTROL TUB W/ 30 BBLs TMAC ND WELL HEAD NU BOPS RU FLOOR & TUBING EQUIP CONT CSG W/ 40 BBLs TMAC UNLAND TUBING LD HNGR POOH W/ TUB 260 JNTS 2-3/8" J-55 RU W/L RIH W/ GUAGE RNG TO 5800' PU 10K CIBP RIH SET @ 5790' DUMP BAIL 2 SKS CEM ON PLG FILL HOLE W/ TMAC TEST TO 500# SIW SDFW
12/5/2011	7:00 - 7:15	0.25	WO/REP	48		P		JSA= FROZEN EQUIP & LINES
	7:15 - 17:00	9.75	WO/REP	30		P		0 PSI ON WELL GET RIG & EQUIP STARTED THAW FROZEN LINES ND BOPS & WELLHEAD PU INT CUTTER CUT CSG BELOW HNGR PU OVERSHOT RU W/L & CSG TONGS BACK OFF PUP POOH PU NEW 4-1/2"X 10' PUP RIH TORQUE TO 7000# W/ 14 RNDs PULL 65000# PRESS TEST TO 3500 30 MIN W/ 24 PSI LOSS SET SLIPS @ 90000# NU WELLHEAD & BOPS RU FLOOR & TUBING EQUIP PU 3-7/8" BIT RIH TAG TOC @ 5780' POOH 10 STANDS TO ALLOW FLUID LEVEL TO FALL BELOW GROUND LEVEL SIW SDFN
12/6/2011	7:00 - 7:15	0.25	WO/REP	48		P		JSA= USAGE OF HEATER
	7:15 - 17:00	9.75	WO/REP	30		P		SIWP= 0 PSI RIH 10 STANDS RU PWR SWVL GET FOAMER STARTED EST CIRC C/O & DRILL THRU CIBP @ 5790 W/ 100# INCREASE CONTINUE TO RIH TAG @ 8980' CIRC CLEAN POOH LD 22 JNTS LAND TUBING ON HNGR SIW SDFN
12/7/2011	7:00 - 7:15	0.25	WO/REP	48		P		JSA= FROZEN LINES
	7:15 - 10:30	3.25	WO/REP	30		P		SIWP= 300 PSI TUBING 600 PSI CAS PUMP OFF BIT 2000# RU RIH W/ BROACH TO XN NPL POOH RD FLOOR & TUBING EQUIP ND BOPS NU WELLHEAD RD RIG & PUMP MOVE RIG & EQUIP TO NBU 1022-8IT