

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
APPLICATION FOR PERMIT TO DRILL OR REENTER

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

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. UTU-144869A
1b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name Ute Tribe
2. Name of Operator Kerr-McGee Oil & Gas Onshore, LP		7. If Unit or CA Agreement, Name and No. 891008900A
3a. Address PO Box 173779 Denver, CO 80217-3779		8. Lease Name and Well No. NBU 920-20B
3b. Phone No. (include area code) Raleen White 720-929-6666		9. API Well No. 43047-40538
4. Location of well (Report location clearly and in accordance with any State requirements. *) At surface 1,229' FNL 1,580' FEL NW/4 NE/4 Lat. 40.02469 Long. -109.68657 At proposed prod. zone 612134K 4431114 40.624654 -109.685913		10. Field and Pool, or Exploratory Natural Buttes Field
14. Distance in miles and direction from the nearest town or post office* Approximately 35 miles south of Vernal, Utah		11. Sec., T., R., M., or Blk. and Survey or Area 20 T 9S R 20E S.L.B. & M.
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drlg. unit line, if any) 1,229'	16. No. of acres in lease 40.00	12. County or Parish Uintah
17. Spacing Unit dedicated to this well Unit well	13. State Utah	18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 1,600'
19. Proposed Depth 10,800'	20. BLM/ BIA Bond No. on file WYB000291	21. Elevations (Show whether DF, RT, GR, etc.) 4,762' GR KB
22. Aproximate date work will start* ASAP	23. Estimated duration 10 days	24. Attachments

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

- | | |
|---|---|
| <ol style="list-style-type: none"> 1. Well plat certified by a registered surveyor. 2. A Drilling Plan. 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office). | <ol style="list-style-type: none"> 4. Bond to cover the operations unless covered by existing bond on file (see item 20 above). 5. Operator certification. 6. Such other site specific information and/ or plans as may be required by the a authorized officer. |
|---|---|

25. Signature 	Name (Printed/ Typed) Raleen White	Date 12-13-2009
Title Sr Regulatory Analyst	E-mail: raleen.white@anadarko.com	Phone: 720-929-6666
Approved By (Signature) 	Name (Printed/ Typed) BRADLEY G. HILL	Date 03-02-09
Title	Office 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 page 2)

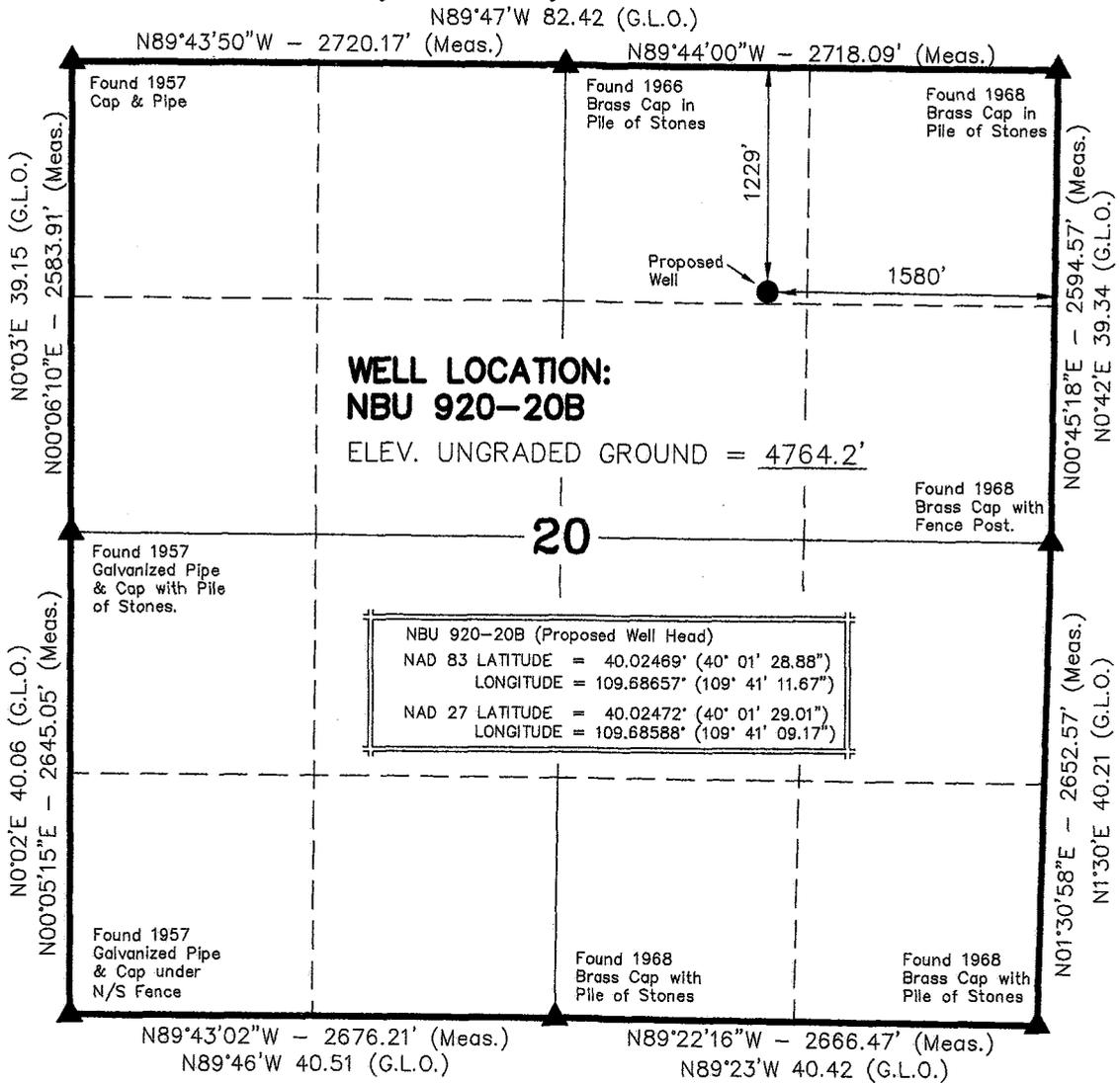
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DIV. OF OIL, GAS & MINING

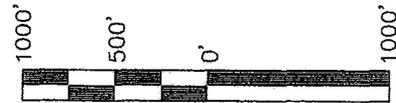
*Federal Approval of this
Action is Necessary*

T9S, R20E, S.L.B.&M.



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 the Northwest Corner of Section 12, T9S, R20E, S.L.B.&M. The elevation of this Section Corner is shown on the Ouray SE 7.5 Min. Quadrangle as being 4676'.



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.

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

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

1099 18th Street - Denver, Colorado 80202

**NBU 920-20B
WELL PLAT
1229' FNL, 1580' FEL
NW ¼ NE ¼ OF SECTION 20, T9S, R20E,
S.L.B.&M. UTAH 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: 11-07-08	SURVEYED BY: D.J.S.	SHEET
DATE DRAWN: 12-09-08	DRAWN BY: E.M.S.	1
SCALE: 1" = 1000'	Date Last Revised:	OF 9

**NBU 920-20B
NWNE Sec. 20, T9S R20E
UINTAH COUNTY, UTAH
UTU-144869A**

ONSHORE ORDER NO. 1

DRILLING PROGRAM

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

<u>Formation</u>	<u>Depth</u>	<u>Resource</u>
Uinta	0 – Surface	
Green River	1,726'	
Birds Nest	1,961'	Water
Mahogany	2,477'	Water
Wasatch	5,186'	Gas
Mesaverde	8,694'	Gas
MVU2	9,635'	Gas
MVL1	10,082'	Gas
TD	10,800'	

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. See attached drilling diagram.

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 10,800' TD, approximately equals 6,897 psi (calculated at 0.64 psi/foot).

Maximum anticipated surface pressure equals approximately 4,521 psi (bottomhole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

8. Anticipated Starting Dates:

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

9. Variances:

Please see Natural Buttes Unit SOP Onshore Order #2 – Air Drilling Variance

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

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

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

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

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

Background

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

Before the surface air rig is mobilized, a rathole rig is utilized to set and cement conductor pipe through a competent surface formation. Generally, the conductor is set at 40 feet. In some cases, conductor may be set deeper in areas that the surface formation is not found competent. This rig also drills the rat and mouse holes in preparation for the surface casing and production string drilling operations.

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

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

Variance for BOPE Requirements

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

Variance for Mud Material Requirements

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

Variance for Special Drilling Operation (surface equipment placement) Requirements

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

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

Typically the air rig compressors are required to be located in the opposite direction from the blooie line and a minimum of 100 feet from the well bore. At the KMG locations, the air rig compressors are approximately 40 feet from the well bore and approximately 60 feet from the blooie line discharge due to the unique air rig design. The air compressors (see attachment) are located on the rig (1250 cfm) and on a standby trailer (1170 cfm). A booster sits between the two compressors and boosts the output from 350 psi to 2000 psi. The design does put the booster and standby compressor opposite from the blooie line.

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

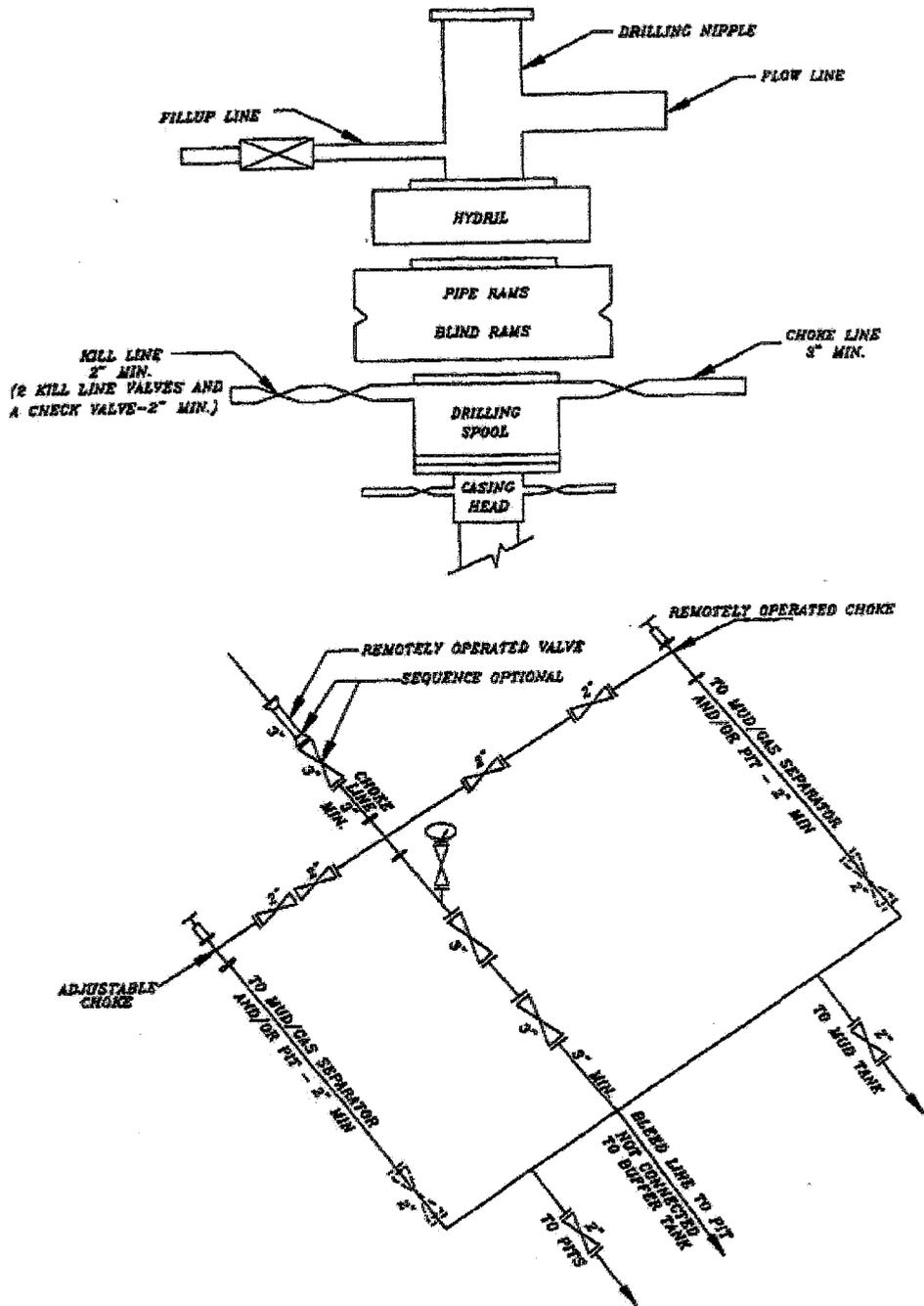
Conclusion

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

10. Other Information:

Please see Natural Buttes Unit SOP.

EXHIBIT A
NBU 920-20B



SCHEMATIC DIAGRAM OF 5,000 PSI BOP STACK

NBU 920-20B
NWNE Sec. 20 T9S R20E
UINTAH COUNTY, UTAH
UTU-144869A

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:**

Approximately $\pm 440'$ of 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.

Refer to Topo Map D for the location of the proposed pipelines.

Variations to Best Management Practices (BMPs) Requested:

This exception to the BMP should be granted by the BLM Authorized Officer because indurated bedrock, such as sandstone, is at or within 2 feet of the surface and the soil has a poor history for successful rehabilitation.

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 Shadow gray (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.

Operator shall call the BIA for the seed mixture when the final reclamation occurs.

11. Surface/Mineral Ownership:

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

Ute Indian Tribe
P.O. Box 70
Fort Duchesne, Utah 84026
(435) 722-5141

The mineral ownership is listed below:

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

12. Stipulations/Notices/Mitigation:

There are no stipulations or notices for this location.

13. Other Information:

A Class III archaeological survey and Paleo Survey has been performed and will be submitted upon receipt.

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

Raleen White
Sr. Regulatory Analyst
Kerr-McGee Oil & Gas Onshore LP
P.O. Box 173779
Denver, CO 80217-3779
(720) 929-6666

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

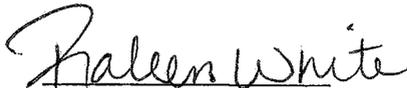
Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

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 Bureau of Land Management Nationwide Bond #WYB000211.

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

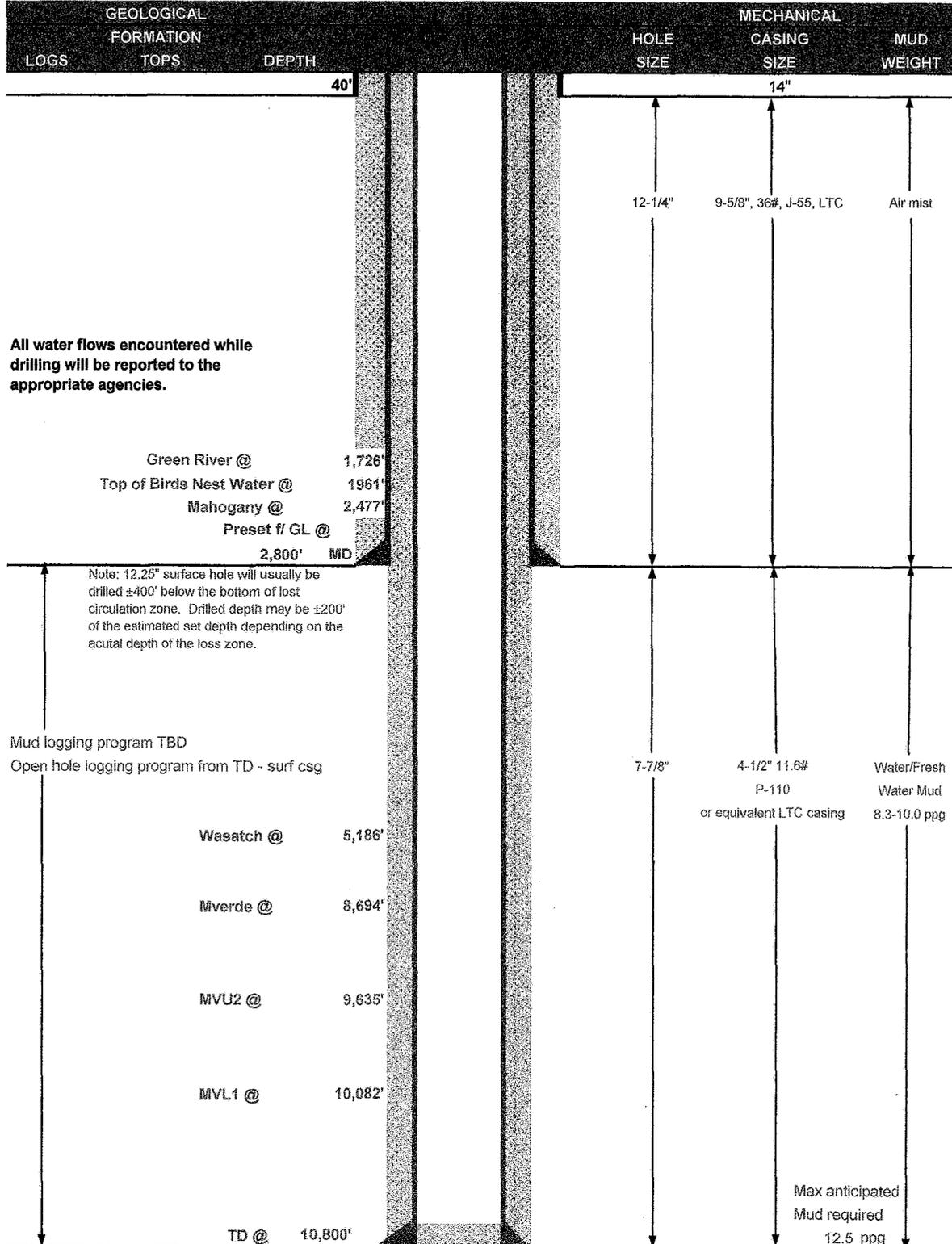

Raleen White

2/3/2009
Date



KERR-McGEE OIL & GAS ONSHORE LP DRILLING PROGRAM

COMPANY NAME KERR-McGEE OIL & GAS ONSHORE LP DATE February 5, 2009
 WELL NAME NBU 920-20B TD 10,800' MD/TVD
 FIELD Natural Buttes COUNTY Uintah STATE Utah ELEVATION 4,762' GL KB 4,777'
 SURFACE LOCATION NW/4 NE/4 1,229' FNL 1,580' FEL Sec 20 T 9S R 20E BHL Straight Hole
 Latitude: 40.024690 Longitude: -109.686570 NAD 83
 OBJECTIVE ZONE(S) Wasatch/Mesaverde
 ADDITIONAL INFO Regulatory Agencies: BLM (MINERALS), BIA (SURFACE), UDOGM, Tri-County Health Dept.



CASING PROGRAM

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS		
						BURST	COLLAPSE	TENSION
CONDUCTOR	14"	0-40'				3,520	2,020	453,000
SURFACE	9-5/8"	0 to 2800	36.00	J-55	LTC	0.76	1.54	5.72
PRODUCTION	4-1/2"	0 to 10800	11.60	P-110	LTC	2.30	1.08	2.55

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 - (0.22 psi/ft-partial evac gradient x TD)
 (Burst Assumptions: TD = 12.5 ppg) 0.22 psi/ft = gradient for partially evac wellbore
 (Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoys.Fact. of water)
 MASP 4,521 psi

3) Maximum Anticipated Bottom Hole Pressure (MABHP) = Pore Pressure at TD
 (Burst Assumptions: TD = 12.5 ppg) 0.64 psi/ft = bottomhole gradient
 (Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoys.Fact. of water)
 MABHP 6,897 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	4,680'	Premium Lite II + 3% KCl + 0.25 pps cellorflake + 5 pps gilsonite + 10% gel + 0.5% extender	510	60%	11.00	3.38
	TAIL	6,120'	50/50 Poz/G + 10% salt + 2% gel + .1% R-3	1710	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. The BOPE will be installed before the production hole is drilled and tested to 5,000 psi (annular to 2,500 psi) prior to drilling out the surface casing shoe. Record on chart recorder and tour sheet. Function test rams on each trip.

Maintain safety valve and inside BOP on rig floor at all times. Most rigs have top drives; however, if used, the Kelly is to be equipped with upper and lower kelly valves.

Drop Totco surveys every 2000'. Maximum allowable hole angle is 5 degrees.

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

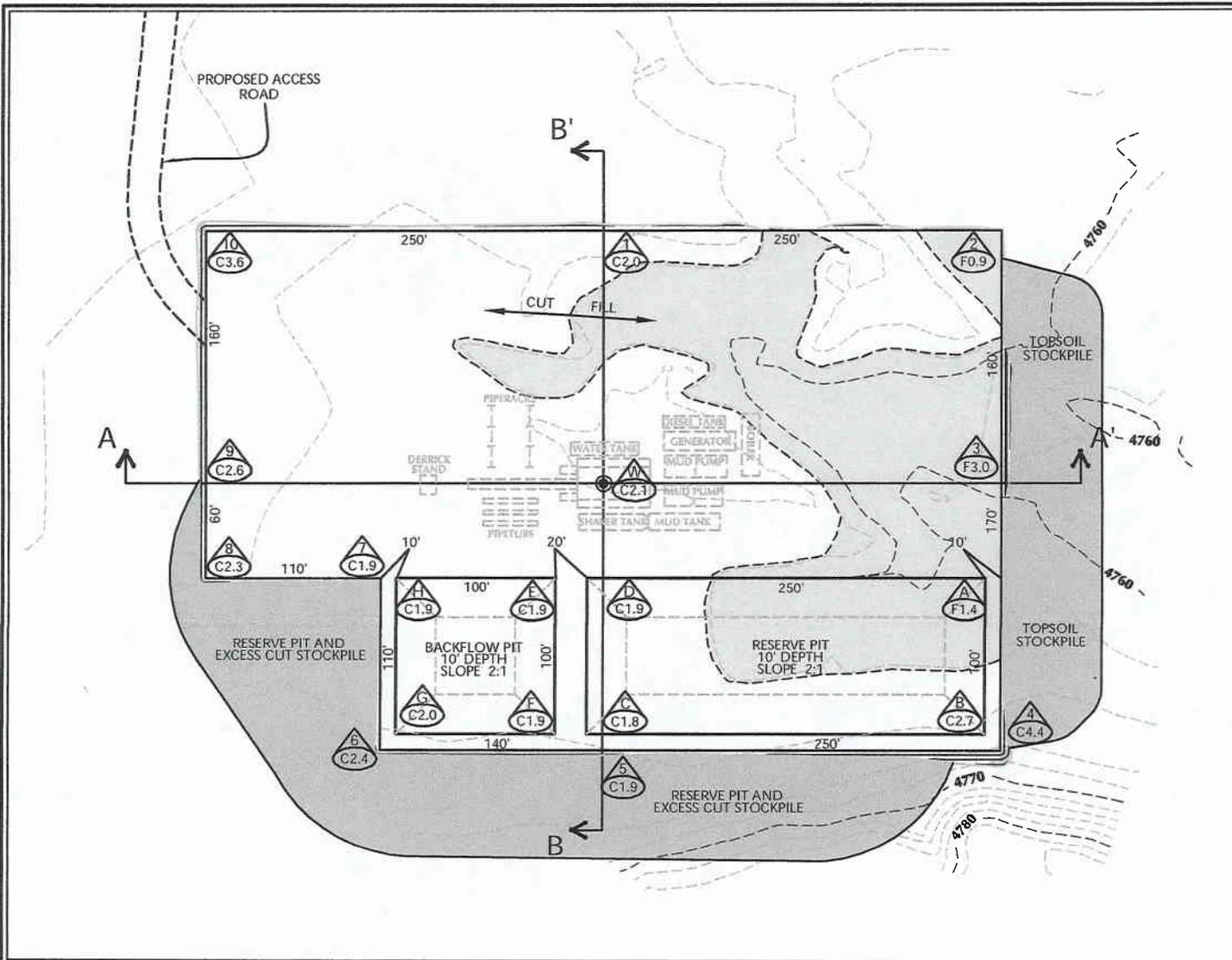
DRILLING ENGINEER: _____
John Huycke / Grant Schluender

DATE: _____

DRILLING SUPERINTENDENT: _____
John Merkel / Lovel Young

DATE: _____

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WELL PAD LEGEND

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

WELL PAD NBU 920-20B QUANTITIES

EXISTING GRADE @ LOC. STAKE = 4,764.2'
 FINISHED GRADE ELEVATION = 4,762.1'
 CUT SLOPES = 1.5:1
 FILL SLOPES = 1.5:1

TOTAL CUT FOR WELL PAD = 4,090 C.Y.
 TOTAL FILL FOR WELL PAD = 3,446 C.Y.
 TOPSOIL @ 6" DEPTH = 2,937 C.Y.
 EXCESS MATERIAL = 644 C.Y.
 TOTAL DISTURBANCE = 3.64 ACRES
 SHRINKAGE FACTOR = 1.10
 SWELL FACTOR = 1.00
 RESERVE PIT CAPACITY (2' OF FREEBOARD)
 +/- 25,880 BARRELS
 RESERVE PIT VOLUME
 +/- 7,185 CY
 BACKFLOW PIT CAPACITY (2' OF FREEBOARD)
 +/- 8,780 BARRELS
 BACKFLOW PIT VOLUME
 +/- 2,520 CY

**KERR-MCGEE OIL & GAS
 ONSHORE L.P.**
 1099 18th Street - Denver, Colorado 80202



**NBU 920-20B
 WELL PAD - LOCATION LAYOUT**
 1229' FNL, 1580' FEL
 NW1/4 NE1/4 SECTION 20, T9S, R20E,
 S.L.B.&M., UINTAH COUNTY, UTAH

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

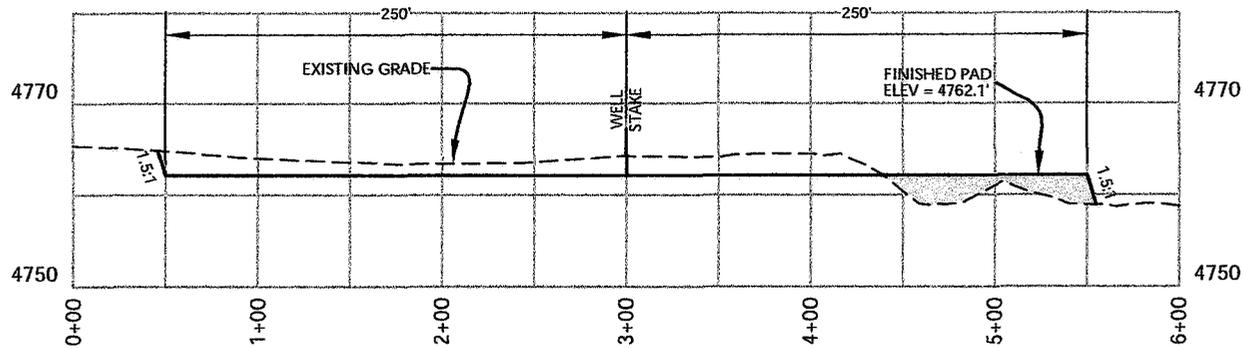
Scale: 1"=100'	Date: 12/29/08	SHEET NO:
REVISED:	BY DATE	2 2 OF 9



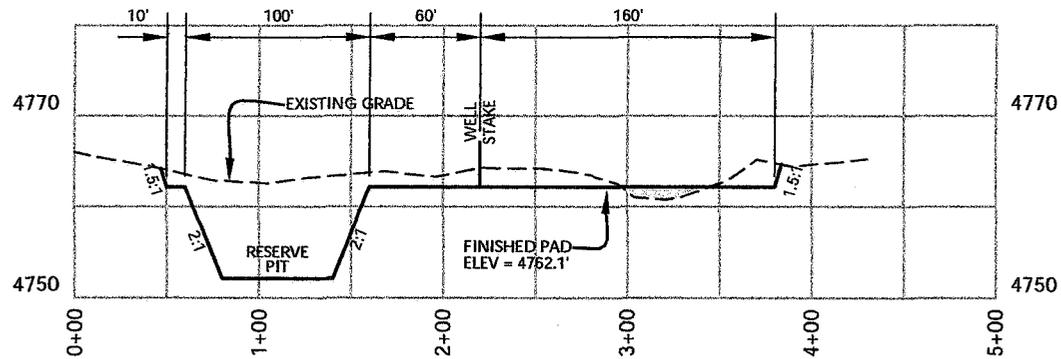
HORIZONTAL 0 50 100 1" = 100'
 2' CONTOURS

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

K:\ANADARKO\2008_31_NBU_TRIBAL_2\DWGS\NBU_SEC-20,27,34.dwg, 12/29/2008 2:21:25 PM



CROSS SECTION A-A'



CROSS SECTION B-B'

**KERR-MCGEE OIL & GAS
ONSHORE L.P.**

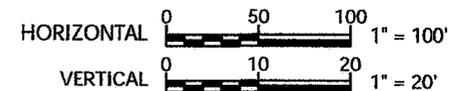
1099 18th Street - Denver, Colorado 80202



**NBU 920-20B
WELL PAD - CROSS SECTIONS
1229' FNL, 1580' FEL
NW1/4 NE1/4 SECTION 20, T9S, R20E,
S.L.B.&M., UINTAH COUNTY, UTAH**

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

Scale: 1"=100'	Date: 12/29/08	SHEET NO:
REVISED:	BY DATE	3 3 OF 9



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

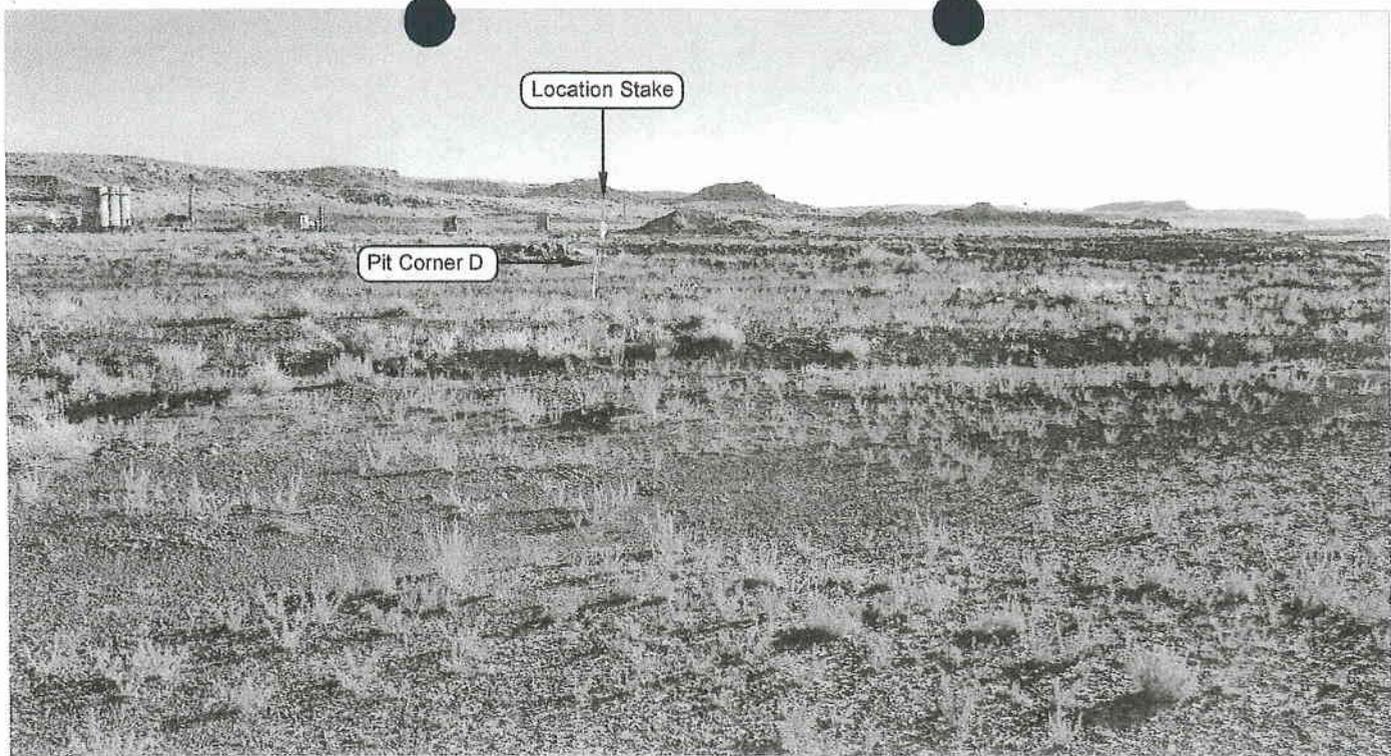


PHOTO VIEW: FROM PIT CORNER D TO LOCATION STAKE

CAMERA ANGLE: EASTERLY

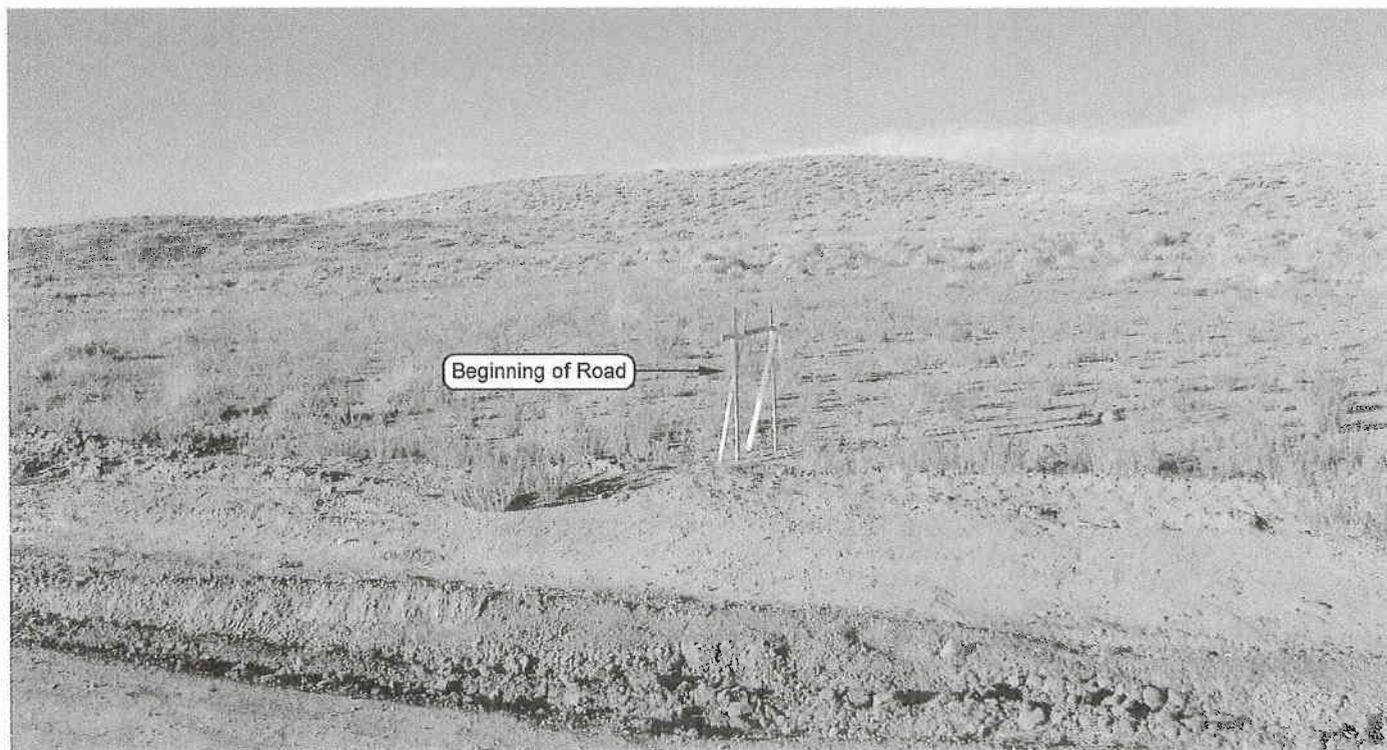
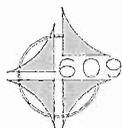


PHOTO VIEW: FROM BEGINNING OF PROPOSED ROAD

CAMERA ANGLE: WESTERLY

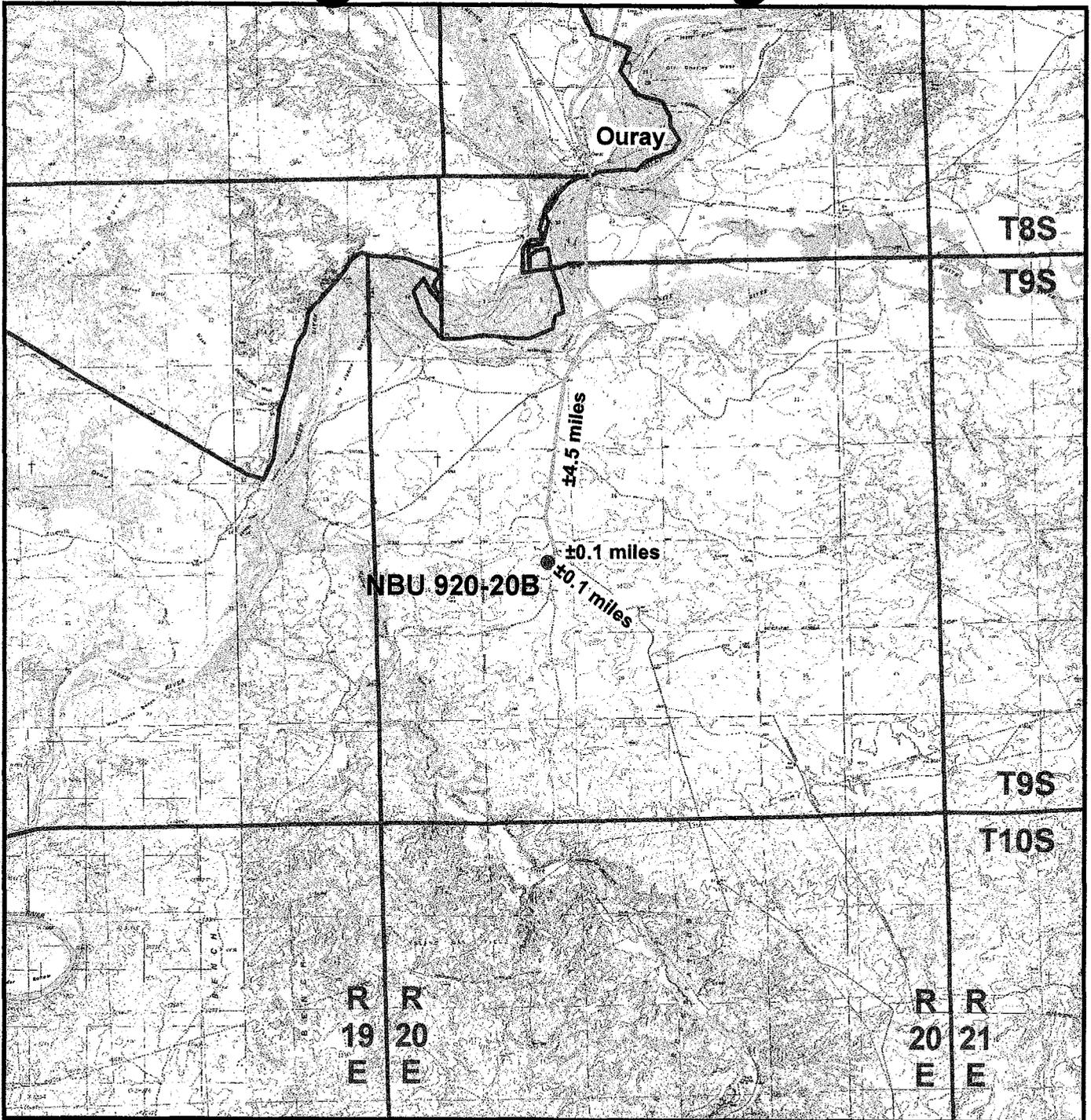
Kerr-McGee
Oil & Gas Onshore, LP
 1099 18th Street - Denver, Colorado 80202

NBU 920-20B
 1229' FNL, 1580' FEL
 NW $\frac{1}{4}$ NE $\frac{1}{4}$ OF SECTION 20, T9S, R20E,
 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		DATE TAKEN: 11-07-08
		DATE DRAWN: 12-10-08
TAKEN BY: D.J.S.	DRAWN BY: E.M.S.	REVISED:
Timberline <i>Engineering & Land Surveying, Inc.</i> 38 WEST 100 NORTH VERNAL, UTAH 84078		(435) 789-1365 SHEET 4 OF 9



Legend

- Proposed NBU 920-20B Well Location
- - - Access Route - Proposed

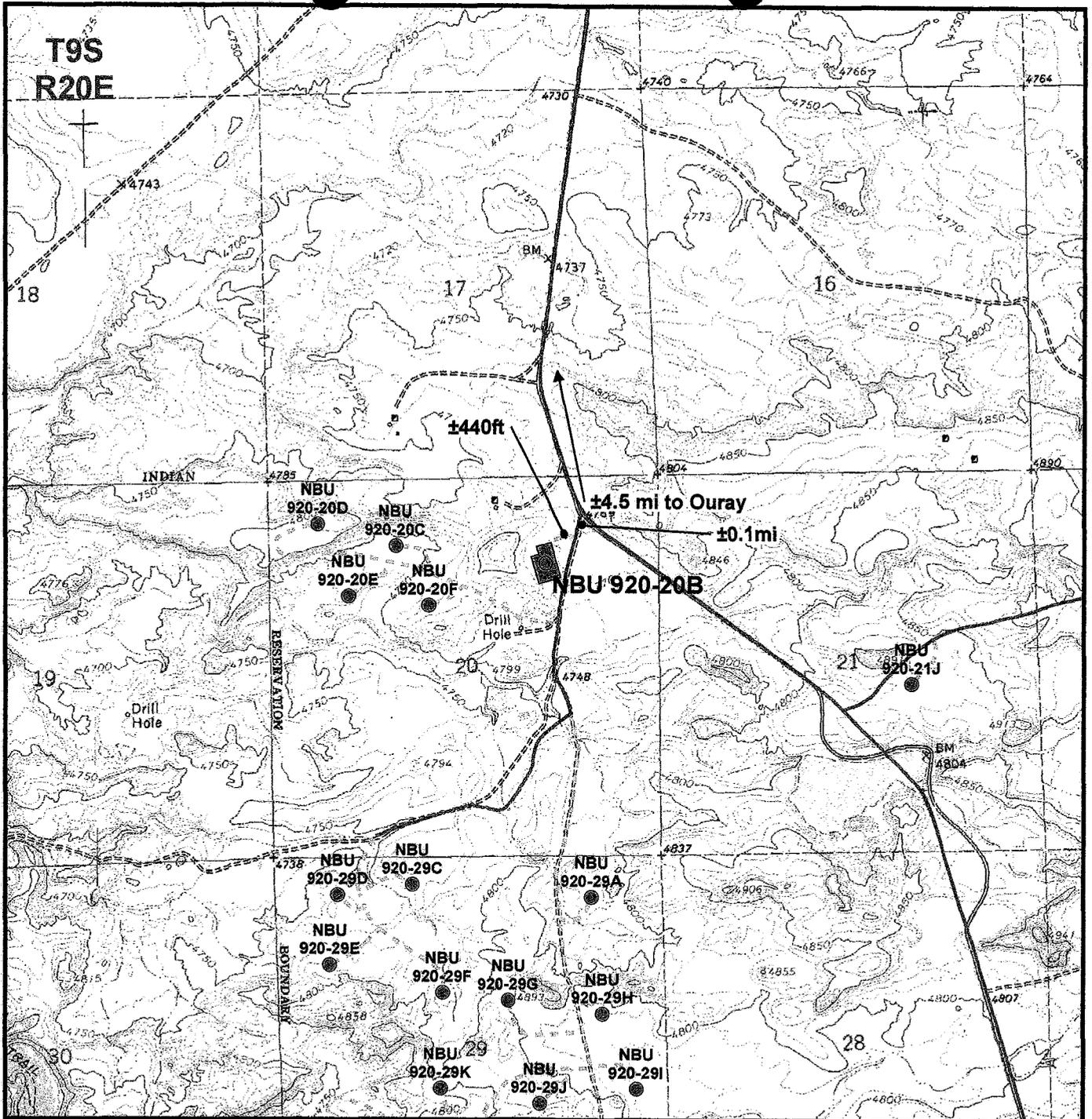
Kerr-McGee Oil & Gas Onshore, LP
 1099 18th Street, Denver, Colorado 80202

NBU 920-20B
 Topo A
 1229' FNL, 1580' FEL
 NW¼ NE¼, Section 20, T9S, R20E
 S.L.B.&M., Uintah County, Utah

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



Scale: 1:100,000	NAD83 USP Central	Sheet No:
Drawn: JELo	Date: 5 Jan 2009	5 5 of 9
Revised:	Date:	



Legend

- Well - Proposed
- Well Pad
- - - Road - Proposed
- Road - Existing

Total Proposed Road Length: ±440ft

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

NBU 920-20B
 Topo B
 1229' FNL, 1580' FEL
 NW¼ NE¼, Section 20, T9S, R20E
 S.L.B.&M., Uintah County, Utah

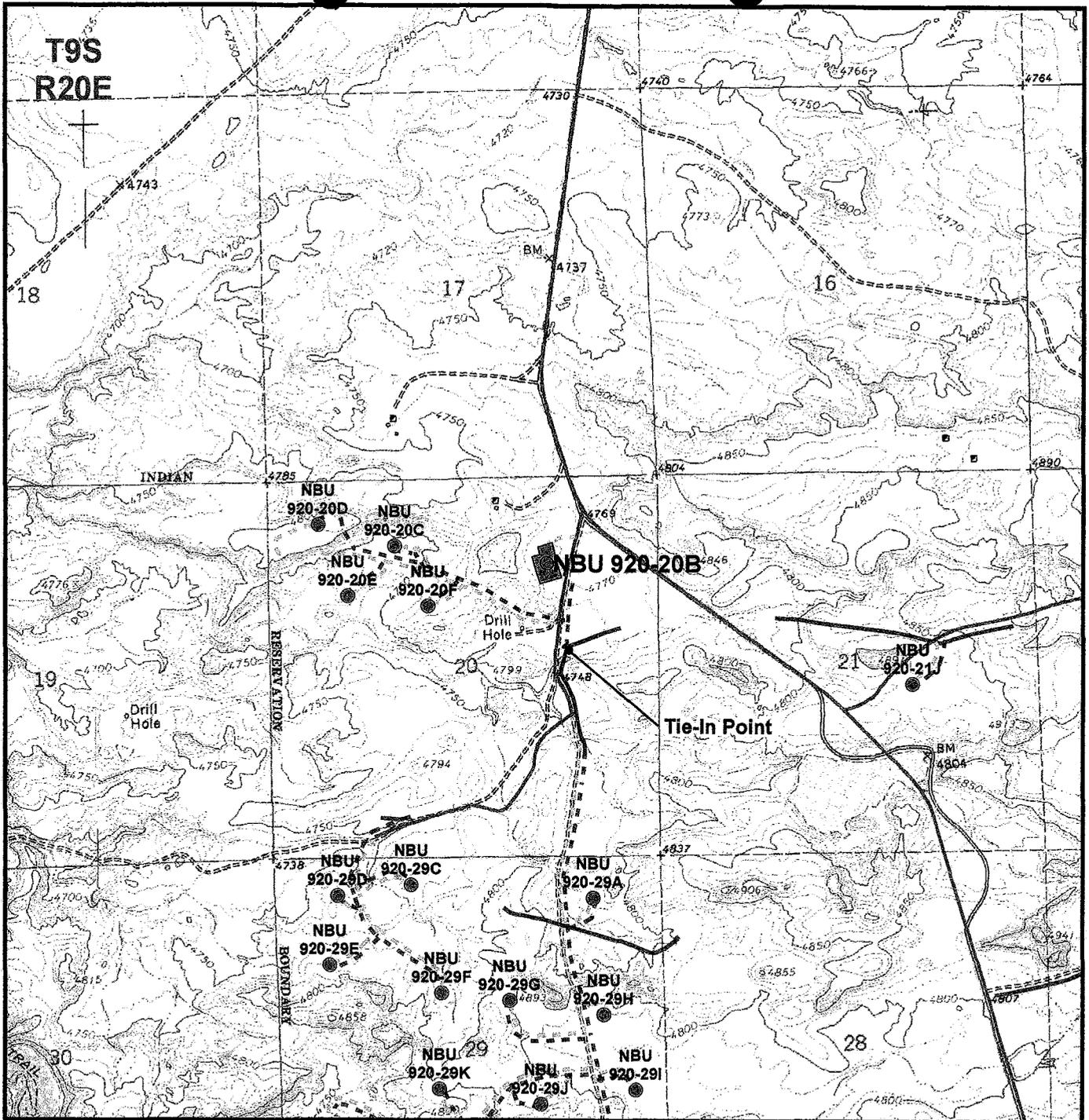
609
 CONSULTING, LLC
 371 Coffeen Avenue
 Sheridan, WY 82801
 Phone (307) 674-0609
 Fax (307) 674-0182



Scale: 1" = 2000ft
 Drawn: JELo
 Revised:

NAD83 USP Central
 Date: 5 Jan 2009
 Date:

Sheet No:
6 6 of 9



Legend

- Well - Proposed
- Well Pad
- Pipeline - Proposed
- Road - Proposed
- Pipeline - Existing
- Road - Existing

Total Proposed Pipeline Length: ±1,290ft

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

NBU 920-20B
 Topo D
 1229' FNL, 1580' FEL
 NW¼ NE¼, Section 20, T9S, R20E
 S.L.B.&M., Uintah County, Utah



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



Scale: 1" = 2000ft
 Drawn: JELO
 Revised: _____
 NAD83 USP Central
 Date: 5 Jan 2009
 Date: _____

Sheet No:
8
 8 of 9

Kerr-McGee Oil & Gas Onshore, LP
NBU 920-20B
Section 20, T9S, R20E, S.L.B.&M.

PROCEED IN A WESTERLY DIRECTION FROM VERNAL, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 13.9 MILES TO THE JUNCTION OF STATE HIGHWAY 88. EXIT LEFT AND PROCEED IN A SOUTHERLY DIRECTION ALONG STATE HIGHWAY 88 APPROXIMATELY 16.8 MILES TO OURAY, UTAH. FROM OURAY, PROCEED IN A SOUTHERLY DIRECTION ALONG THE SEEP RIDGE ROAD (COUNTY B ROAD 2810) APPROXIMATELY 4.5 MILES TO THE INTERSECTION OF THE WILD HORSE BENCH ROAD (A CLASS D COUNTY ROAD). EXIT RIGHT AND PROCEED IN A SOUTHERLY DIRECTION ALONG THE WILD HORSE BENCH ROAD APPROXIMATELY 0.1 MILES TO THE PROPOSED ACCESS ROAD. FOLLOW ROAD FLAGS IN A WESTERLY DIRECTION APPROXIMATELY 440 FEET TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 35.4 MILES IN A SOUTHERLY DIRECTION.

**WORKSHEET
APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 02/17/2009

API NO. ASSIGNED: 43-047-40538

WELL NAME: NBU 920-20B
 OPERATOR: KERR-MCGEE OIL & GAS (N2995)
 CONTACT: RALEEN WHITE

PHONE NUMBER: 720-929-6666

PROPOSED LOCATION:

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

NWNE 20 090S 200E
 SURFACE: 1229 FNL 1580 FEL
 BOTTOM: 1229 FNL 1580 FEL
 COUNTY: UINTAH
 LATITUDE: 40.02465 LONGITUDE: -109.6859
 UTM SURF EASTINGS: 612134 NORTHINGS: 4431111
 FIELD NAME: NATURAL BUTTES (630)

LEASE TYPE: 1 - Federal
 LEASE NUMBER: UTU-144869A
 SURFACE OWNER: 2 - Indian

PROPOSED FORMATION: WSMVD
 COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

- Plat
- Bond: Fed[1] Ind[] Sta[] Fee[]
(No. WYB000291)
- Potash (Y/N)
- Oil Shale 190-5 (B) or 190-3 or 190-13
- Water Permit
(No. 43-8496)
- RDCC Review (Y/N)
(Date: _____)
- Fee Surf Agreement (Y/N)
- 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 b d r g & uncomm. Tracts
- R649-3-11. Directional Drill

COMMENTS:

See Separate File

STIPULATIONS:

*1- Federal Approval
2- OIL SHALE*

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)

March 2, 2009

Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

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

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

API #	WELL NAME	LOCATION
(Proposed PZ Wasatch/MesaVerde)		
43-047-40553	NBU 920-290	Sec 29 T09S R20E 0746 FSL 2465 FEL
43-047-40554	NBU 920-29L	Sec 29 T09S R20E 1572 FSL 0754 FWL
43-047-40555	NBU 920-29M	Sec 29 T09S R20E 0159 FSL 0757 FWL
43-047-40556	NBU 920-29I	Sec 29 T09S R20E 2164 FSL 0400 FEL
43-047-40557	NBU 920-29K	Sec 29 T09S R20E 2208 FSL 2197 FWL
43-047-40558	NBU 920-29P	Sec 29 T09S R20E 1038 FSL 0018 FEL
43-047-40559	NBU 920-29J	Sec 29 T09S R20E 1977 FSL 1747 FEL
43-047-40560	NBU 920-29N	Sec 29 T09S R20E 1254 FSL 2098 FWL
43-047-40542	NBU 920-22O	Sec 22 T09S R20E 0198 FSL 2487 FEL
43-047-40543	NBU 920-22K	Sec 22 T09S R20E 2128 FSL 2497 FWL
43-047-40544	NBU 920-22I	Sec 22 T09S R20E 1965 FSL 0599 FEL
43-047-40545	NBU 920-22J	Sec 22 T09S R20E 2086 FSL 1575 FEL
43-047-40538	NBU 920-20B	Sec 20 T09S R20E 1229 FNL 1580 FEL
43-047-40536	NBU 920-20C	Sec 20 T09S R20E 0963 FNL 1754 FWL
43-047-40537	NBU 920-20F	Sec 20 T09S R20E 1794 FNL 2199 FWL
43-047-40539	NBU 920-20E	Sec 20 T09S R20E 1644 FNL 1084 FWL
43-047-40540	NBU 920-20D	Sec 20 T09S R20E 0646 FNL 0686 FWL
43-047-40541	NBU 920-21J	Sec 21 T09S R20E 2346 FSL 1748 FEL
43-047-40561	NBU 920-32E	Sec 32 T09S R20E 2052 FNL 0707 FWL
43-047-40562	NBU 920-32K	Sec 32 T09S R20E 2095 FSL 1813 FWL
43-047-40567	NBU 920-33D	Sec 33 T09S R20E 0821 FNL 0925 FWL
43-047-40568	NBU 920-33L	Sec 33 T09S R20E 2299 FSL 0625 FWL
43-047-40574	NBU 920-33E	Sec 33 T09S R20E 2079 FNL 0611 FWL
43-047-40575	NBU 920-33C	Sec 33 T09S R20E 0971 FNL 1851 FWL

43-047-40576 NBU 920-33F Sec 33 T09S R20E 2048 FNL 1845 FWL
43-047-40535 NBU 920-15PT Sec 15 T09S R20E 0591 FSL 0696 FEL

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

/s/ Michael L. Coulthard

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

MCoulthard:mc:3-2-09



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

March 2, 2009

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

Re: NBU 920-20B Well, 1229' FNL, 1580' FEL, NW NE, Sec. 20, T. 9 South, R. 20 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 43-047-40538.

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 920-20B
API Number: 43-047-40538
Lease: UTU-144869A

Location: NW NE Sec. 20 T. 9 South R. 20 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.

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-144869A
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE 7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: NBU 920-20B
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047405380000
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: 1229 FNL 1580 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNE Section: 20 Township: 09.0S Range: 20.0E 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: 3/2/2010 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input checked="" type="checkbox"/> APD EXTENSION 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: March 01, 2010

By:

NAME (PLEASE PRINT) Danielle Piernot	PHONE NUMBER 720 929-6156	TITLE Regulatory Analyst
SIGNATURE N/A		DATE 2/25/2010



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43047405380000

API: 43047405380000

Well Name: NBU 920-20B

Location: 1229 FNL 1580 FEL QTR NWNE SEC 20 TWNP 090S RNG 200E MER S

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

Date Original Permit Issued: 3/2/2009

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

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

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

Signature: Danielle Piernot

Date: 2/25/2010

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

Date: March 01, 2010

By: 

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-144869A
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE 7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: NBU 920-20B
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047405380000
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: 1229 FNL 1580 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNE Section: 20 Township: 09.0S Range: 20.0E Meridian: S	9. FIELD and POOL or WILDCAT: NATURAL BUTTES COUNTY: UINTAH STATE: UTAH

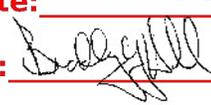
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 3/1/2011 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input checked="" type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>

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

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: 03/01/2011
 By: 

NAME (PLEASE PRINT) Danielle Piernot	PHONE NUMBER 720 929-6156	TITLE Regulatory Analyst
SIGNATURE N/A		DATE 3/1/2011



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 43047405380000

API: 43047405380000

Well Name: NBU 920-20B

Location: 1229 FNL 1580 FEL QTR NWNE SEC 20 TWP 090S RNG 200E MER S

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

Date Original Permit Issued: 3/2/2009

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

- If located on private land, has the ownership changed, if so, has the surface agreement been updated? Yes No

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- 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

Signature: Danielle Piernot

Date: 3/1/2011

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

RECEIVED

FEB 17 2009

Form 3160-3
(August 2007)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No. UTU-144869A 0144869A
6. If Indian, Allottee or Tribe Name Ute Tribe
7. If Unit or CA Agreement, Name and No. 891008900A
8. Lease Name and Well No. NBU 920-20B
9. API Well No. 43 047 40538
10. Field and Pool, or Exploratory Natural Buttes Field
11. Sec., T., R., M., or Blk. and Survey or Area 20 T 9S R 20E S.L.B. & M.

1a. Type of Work: DRILL REENTER

1b. 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 80217-3779	3b. Phone No. (include area code) Raleen White 720-929-6666
---	---

4. Location of well (Report location clearly and in accordance with any State requirements.)* NAD 83
At surface 1,229' FNL 1,580' FEL NW/4 NE/4 Lat. 40.02469 Long. -109.68657
At proposed prod. zone

14. Distance in miles and direction from the nearest town or post office*
Approximately 35 miles south of Vernal, Utah

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drlg. unit line, if any) 1,229'	16. No. of acres in lease 40.00	17. Spacing Unit dedicated to this well Unit well
---	------------------------------------	--

18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 1,600'	19. Proposed Depth 10,800'	20. BLM/ BIA Bond No. on file WYB000291
--	-------------------------------	--

21. Elevations (Show whether DF, RT, GR, etc.) 4,762' GR KB	22. Approximate date work will start* ASAP	23. Estimated duration 10 days
--	---	-----------------------------------

24. Attachments

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

- | | |
|---|---|
| 1. Well plat certified by a registered surveyor. | 4. Bond to cover the operations unless covered by existing bond on file (see item 20 above). |
| 2. A Drilling Plan. | 5. Operator certification. |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/ or plans as may be required by the a authorized officer. |

25. Signature <i>Raleen White</i>	Name (Printed/ Typed) Raleen White	Date 12-13-2009
Title Sr Regulatory Analyst	E-mail: raleen.white@anadarko.com	Phone: 720-929-6666

Approved By (Signature) <i>Jerry Kenczka</i>	Name (Printed/ Typed) Jerry Kenczka	Date JUN 16 2011
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

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 page 2)



NOTICE OF APPROVAL

RECEIVED

JUN 20 2011

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:	NWNE, Sec. 20, T9S, R20
Well No:	NBU 920-20B	Lease No:	UTU-0144869A
API No:	43-047- 5 0538 4	Agreement:	Natural Buttes Unit

OFFICE NUMBER: (435) 781-4400

OFFICE FAX NUMBER: (435) 781-3420

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

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

NOTIFICATION REQUIREMENTS

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

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

Site-Specific Conditions of Approval:

- Paint new and old (existing) facilities “Shadow Gray.”
- Monitor construction operations by a permitted archaeologist.
- Construct a low-water crossing on the access road at drainage.
- Rout drainages around the well pad, from west to east.
- Conduct a raptor survey prior to initiating any surface disturbing activity, including construction of the propose location, pipeline, or access road or drilling or completion operation if any such operation will take place during the raptor nesting season (January 1 through September 30). If an active raptor nest is identified during a survey, conduct the construction , drilling , and/or completion operation according to the seasonal restrictions detailed in the Uinta Basin-specific RMP guidelines and spatial offsets specified by the USFWS Utah Raptor Guidelines (See Appendix D).
- Conduct a new biological survey in accordance with the guidelines specified in the USFWS Rare Plant Conservation Measures for Uinta Basin hookless cactus and the 2008 BLM RMP ROD, to include a 300-foot buffer from proposed construction operations (See Appendix D), and conduct operations according to agency specifications and the requirements of the BO issued a result for Section 7 USFWS consultation.

BIA Standard Conditions of Approval:

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

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

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

SITE SPECIFIC DOWNHOLE COAs:

- Surface casing cement shall be brought up and into the surface. Top of Cmnt is to reach surf. For surface casing cement program, to reach surface with Top of Cement, operator is required to pump additional cement beyond the stated amounts in application.
- The operator must notify any active gilsonite operation located within 2 miles of the location 48 hours prior to any surface blasting for this well.
- Conductor casing shall be set into competent formation.

toc_1800_operDrlgPlan#4
CsgSurf_set_2700 to 2800
KerrMcGee_apd_coa Downhole

- Production casing cement shall be brought up and into the surface casing. Production casing minimum cement top is 1800 ft. The minimum cement top is approximately 0700 ft above the surface casing shoe.
Cmnt Top (TOC) standard will place cmnt behind casing across formation lost circulation zone, Birds Nest Zone.
Surface casing setting depth stated in APD is 2700 to 2800 ft.
COA specification fulfills operators performance standard stated in APD (where operators toc is calc'd with an excess to reach surface).
- Operator is to notify BLM Vernal Field Office and active gilsonite mining operator (or lease holder) located within a 2 mile radius, 48 hours prior to pad explosives blasting. Well is not close to gilsonite vein, but on trend to gilsonite vein deposits.
- A copy of Kerr McGee's Standard Operating Practices (SOP version: dated 7/17/08 and approved 7/28/08) shall be on location.
- Drilling plan specifics and practices are referenced in the Kerr McGee Oil & Gas Standard Operating Procedures (SOP version: July 28, 2008). The operators drilling plan items 3 to 9 reference the SOP. Kerr McGee shall adhere to the referenced requirements in the SOP. Kerr McGee and their contractors shall adhere to 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.
- Covering air/gas drilling operations, requirements will be adhered to covering air/gas drilling operations as described in Onshore Order #2 III. E. 1. Drilling Operations, Special Drilling Operations, air/gas drilling.
- A Gamma Ray well Log shall be run from the well Total Depth to the surface.
A copy of the Gamma Ray well Log shall be submitted to the BLM Vernal Field Office.
- A variance is granted for Onshore Order #2 Drilling Operations III. E. "Blooie line discharge 100 feet from well bore and securely anchored" Blooie line can be 45 feet.
All requirements will be adhered to covering air/gas drilling operations as described in Onshore Order #2 III. E. 1. Drilling Operations, Special Drilling Operations, air/gas drilling.

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_Wellogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.**
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

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

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-144869A
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE 7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: NBU 920-20B
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047405380000
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: 1229 FNL 1580 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNE Section: 20 Township: 09.0S Range: 20.0E 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: 10/27/2011 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input checked="" type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 50px;" type="text"/>

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

The operator requests approval to change the total depth to include the Blackhawk formation. This request also includes changes to the production casing program to Ultra DQX/LTC, and the drilling program to allow for the use of a Closed Loop system (please refer to page 8 in the attachment). Included in the attached drilling plan you will find a request for a variance for FIT requirements (please refer to page 4 in the attachment). Thank you.

Approved by the Utah Division of Oil, Gas and Mining
Date: 11/01/2011
By:

NAME (PLEASE PRINT) Jaime Scharnowske	PHONE NUMBER 720 929-6304	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 10/27/2011	

Kerr-McGee Oil & Gas Onshore. L.P.**NBU 920-20B**

Surface: 1229 FNL / 1580 FEL NWNE

Section 20 T9S R20E

Unitah County, Utah

Mineral Lease: UTU-0144869A

ONSHORE ORDER NO. 1**DRILLING PROGRAM**

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

<u>Formation</u>	<u>Depth</u>	<u>Resource</u>
Uinta	0 - Surface	
Green River	1,728'	
Birds Nest	1,950'	Water
Mahogany	2,461'	Water
Wasatch	5,171'	Gas
Mesaverde	8,654'	Gas
Sego	10,882'	Gas
Castlegate	11,018'	Gas
MN5	11,289'	Gas
TVD	11,889'	
TD	11,889'	

3. **Pressure Control Equipment** (Schematic Attached)

Please refer to the attached Drilling Program

4. **Proposed Casing & Cementing Program:**

Please refer to the attached Drilling Program

5. Drilling Fluids Program:

Please refer to the attached Drilling Program

6. Evaluation Program:

Please refer to the attached Drilling Program

7. Abnormal Conditions:

Maximum anticipated bottom hole pressure calculated at 11889' TVD, approximately equals
7,847 psi (0.66 psi/ft = actual bottomhole gradient)

Maximum Anticipated Bottom Hole Pressure (MABHP) = Pore Pressure at TD

Maximum anticipated surface pressure equals approximately 5,285 psi (bottom hole pressure
minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot, per Onshore Order No. 2).

Per Onshore Order No. 2 - Max Anticipated Surf. Press.(MASP) = (Pore Pressure at next csg point-
(0.22 psi/ft-partial evac gradient x TVD of next csg point))

8. Anticipated Starting Dates:

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

9. Variances:

Please refer to the attached Drilling Program.
Onshore Order #2 – Air Drilling Variance

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

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

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

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

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

Background

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

Before the surface air rig is mobilized, a rathole rig is utilized to set and cement conductor pipe through a competent surface formation. Generally, the conductor is set at 40 feet. In some cases, conductor may be set deeper in areas that the surface formation is not found competent. This rig also drills the rat and mouse holes in preparation for the surface casing and production string drilling operations.

The air rig is then mobilized to drill the surface casing hole by drilling a 12 1/4 inch hole for the first 200 feet, then will drill a 11 inch hole to just above the Bird's Nest interval with an air hammer. The hammer is then tripped and replaced with a 11 inch tri-cone bit. The tri-cone bit is used to drill to the surface casing point, approximately 500 feet below the loss circulation zone (Bird's Nest). The 8-5/8 inch surface casing is then run and cemented in place, thereby isolating the lost circulation zone.

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

Variance for BOPE Requirements

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

Variance for Mud Material Requirements

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

Variance for Special Drilling Operation (surface equipment placement) Requirements

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

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

Typically the air rig compressors are required to be located in the opposite direction from the blooie line and a minimum of 100 feet from the well bore. At the KMG locations, the air rig compressors are approximately 40 feet from the well bore and approximately 60 feet from the blooie line discharge due to the unique air rig design. The air compressors (see attachment) are located on the rig (1250 cfm) and on a standby trailer (1170 cfm). A booster sits between the two compressors and boosts the output from 350 psi to 2000 psi. The design does put the booster and standby compressor opposite from the blooie line.

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

Variance for FIT Requirements

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

Conclusion

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

10. Other Information:

Please refer to the attached Drilling Program.



KERR-McGEE OIL & GAS ONSHORE LP
DRILLING PROGRAM

CASING PROGRAM

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS			
						BURST	COLLAPSE	LTC	DQX
								TENSION	
CONDUCTOR	14"	0-40'				3,390	1,880	348,000	N/A
SURFACE	8-5/8"	0 to 2,910	28.00	IJ-55	LTC	1.85	1.38	4.88	N/A
PRODUCTION	4-1/2"	0 to 5,000	11.60	HCP-110	DQX	1.19	1.08	279,000	367,000
	4-1/2"	5,000 to 11,889'	11.60	HCP-110	LTC	1.19	1.08	4.36	

Surface Casing:

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

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

(Collapse Assumption: Fully Evacuated Casing, Max MW)

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

Production casing:

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

(Collapse Assumption: Fully Evacuated Casing, Max MW)

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

CEMENT PROGRAM

	FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE Option 1	LEAD 500'	Premium cmt + 2% CaCl + 0.25 pps flocele	180	60%	15.80	1.15
	TOP OUT CMT (6 jobs) 1,200'	20 gals sodium silicate + Premium cmt + 2% CaCl + 0.25 pps flocele	270	0%	15.80	1.15
NOTE: If well will circulate water to surface, option 2 will be utilized						
SURFACE Option 2	LEAD 2,410'	65/35 Poz + 6% Gel + 10 pps gilsonite + 0.25 pps Flocele + 3% salt BWOW	220	35%	11.00	3.82
	TAIL 500'	Premium cmt + 2% CaCl + 0.25 pps flocele	150	35%	15.80	1.15
	TOP OUT CMT as required	Premium cmt + 2% CaCl	as req.		15.80	1.15
PRODUCTION	LEAD 4,669'	Premium Lite II +0.25 pps celloflake + 5 pps gilsonite + 10% gel + 0.5% extender	370	35%	11.00	3.38
	TAIL 7,220'	50/50 Poz/G + 10% salt + 2% gel + 0.1% R-3	1,700	35%	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. No centralizers will be used.

ADDITIONAL INFORMATION

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

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

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

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

DRILLING ENGINEER:

Nick Spence / Danny Showers / Chad Loesel

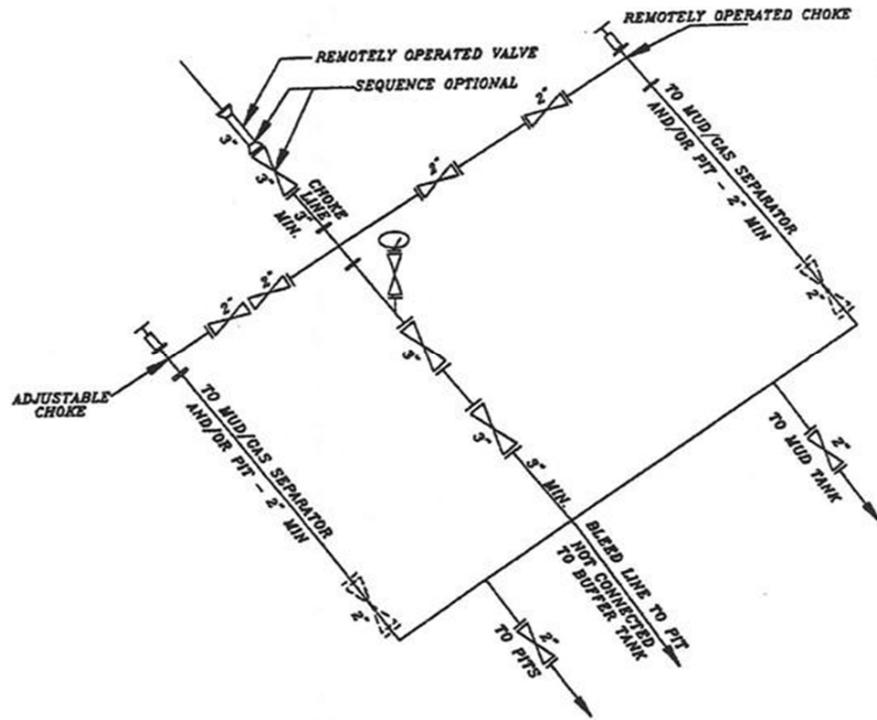
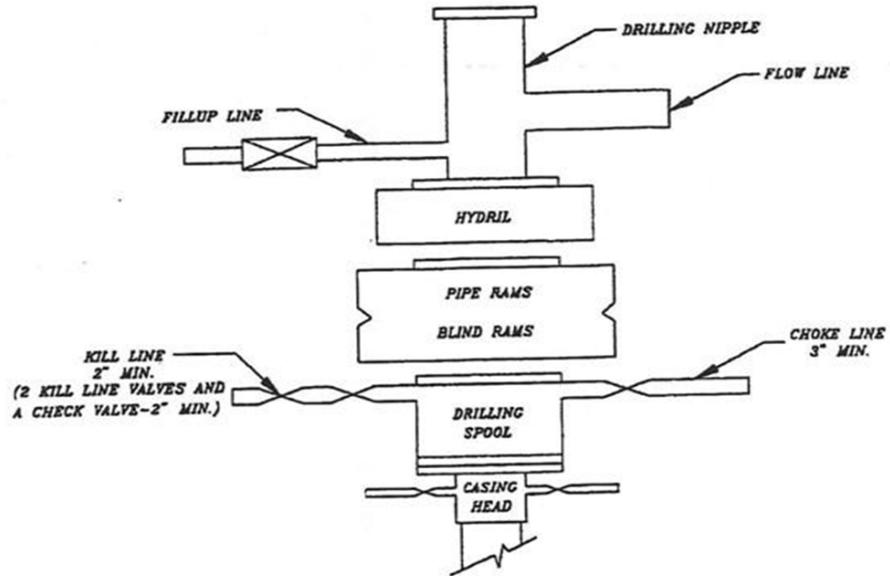
DATE:

DRILLING SUPERINTENDENT:

Kenny Gathings / Lovel Young

DATE:

EXHIBIT A NBU 920-20B



SCHEMATIC DIAGRAM OF 5,000 PSI BOP STACK

Requested Drilling Options:

Kerr-McGee will use either a closed loop drilling system that will require one pit and one cuttings storage area to be constructed on the drilling pad or a traditional drilling operation with one pit used for drilling and completion operations. The cuttings storage area will be used to contain only the de-watered drill cuttings and will be lined and bermed to prevent any liquid runoff. The drill cuttings will be buried in the completion pit once completion operations are completed according to traditional pit closure standards. The pit will be constructed to allow for completion operations. The completion operations pit will be lined with a synthetic material 20 mil or thicker and will be used for the completing of the wells on the pad or used as part of our Aandarko Completions Transportation System (ACTS). Using the closed loop drilling system will allow Kerr-McGee to decrease the amount of disturbance/footprint on location compared to a single large drilling/completions pit.

If Kerr-McGee does not use a closed loop drilling system, it will construct a traditional drilling/completions pit to contain drill cuttings and for use in completion operations. The pit will be lined with a synthetic material 20 mil or thicker. The drill cuttings will be buried in the pit using traditional pit closure standards.

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

FORM 9

5. LEASE DESIGNATION AND SERIAL NUMBER:
UTU-144869A

SUNDRY NOTICES AND REPORTS ON WELLS

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

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
UTE

7. UNIT or CA AGREEMENT NAME:
NATURAL BUTTES

1. TYPE OF WELL
Gas Well

8. WELL NAME and NUMBER:
NBU 920-20B

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

9. API NUMBER:
43047405380000

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

9. FIELD and POOL or WILDCAT:
NATURAL BUTTES

4. LOCATION OF WELL FOOTAGES AT SURFACE:
1229 FNL 1580 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
Qtr/Qtr: NWNE Section: 20 Township: 09.0S Range: 20.0E 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"/> 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: 12/14/2011	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input type="text"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.
MIRU PETE MARTIN BUCKET RIG. DRILLED 20" CONDUCTOR HOLE TO 40".
RAN 14" 36.7# SCHEUDLE 10 PIPE. CMT W/28 SX READY MIX. SPUD WELL ON
12/14/2011 AT 0900 HRS.

NAME (PLEASE PRINT) Sheila Wopsock	PHONE NUMBER 435 781-7024	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 12/15/2011	

BLM - Vernal Field Office - Notification Form

Operator KERR-McGEE OIL & GAS Rig Name/# BUCKET RIG
 Submitted By SHEILA WOPSOCK Phone Number 435.781.7024
 Well Name/Number NBU 920-20B
 Qtr/Qtr NW/NE Section 20 Township 9S Range 20E
 Lease Serial Number UTU-0144869A
 API Number 4304740538

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

Date/Time 12/12/2011 0800 HRS AM PM

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

- Surface Casing
 Intermediate Casing
 Production Casing
 Liner
 Other

Date/Time 01/14/2012 0800 HRS AM PM

BOPE

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

Date/Time _____ AM PM

Remarks ESTIMATED DATE AND TIME. PLEASE CONTACT
LOVEL YOUNG AT 435.781.7051 FOR MORE

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

FORM 6

ENTITY ACTION FORM

Operator: KERR McGEE OIL & GAS ONSHORE LP Operator Account Number: N 2995
 Address: 1368 SOUTH 1200 EAST
city VERNAL
state UT zip 84078 Phone Number: (435) 781-7024

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304740538	NBU 920-20B		NWNE	20	9S	20E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
B	99999	2900	12/14/2011		12/21/11		
Comments: MIRU PETE MARTIN BUCKET RIG. <i>BLKHK = MVRD = WSTMVD</i> SPUD WELL ON 12/14/2011 AT 0900 HRS							

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
Comments:							

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
Comments:							

ACTION CODES:

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

SHEILA WOPSOCK

Name (Please Print)

Signature

REGULATORY ANALYST

12/15/2011

Title

Date

(5/2000)

RECEIVED

DEC 15 2011

DIV. OF OIL, GAS & MINING

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-144869A
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE
		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: NBU 920-20B	
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047405380000	
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6514	9. FIELD and POOL or WILDCAT: NATURAL BUTTES
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1229 FNL 1580 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNE Section: 20 Township: 09.0S Range: 20.0E Meridian: S	COUNTY: UINTAH	
	STATE: UTAH	
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start: <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input checked="" type="checkbox"/> DRILLING REPORT Report Date: 2/6/2012	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	
	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.		
MIRU AIR RIG ON FEBRUARY 3, 2012. DRILLED SURFACE HOLE TO 2934'. RAN SURFACE CASING AND CEMENTED. WELL IS WAITING ON ROTARY RIG. DETAILS OF CEMENT JOB WILL BE INCLUDED WITH WELL COMPLETION REPORT.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY February 08, 2012		
NAME (PLEASE PRINT) Jaime Scharnowske	PHONE NUMBER 720 929-6304	TITLE Regularatory Analyst
SIGNATURE N/A	DATE 2/7/2012	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-144869A
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE
		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: NBU 920-20B	
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047405380000	
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6514	9. FIELD and POOL or WILDCAT: NATURAL BUTTES
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1229 FNL 1580 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNE Section: 20 Township: 09.0S Range: 20.0E Meridian: S	COUNTY: UINTAH	
	STATE: UTAH	
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start: <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input checked="" type="checkbox"/> DRILLING REPORT Report Date: 3/2/2012	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	
	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.		
<p>MIRU ROTARY RIG. FINISHED DRILLING FROM 2,934' TO 11,889' ON FEBRUARY 28, 2012. RAN 4-1/2" 11.6#P-110 PRODUCTION CASING. CEMENTED PRODUCTION CASING. RELEASED SST 54 RIG ON MARCH 2, 2012 @ 16:00 HRS. DETAILS OF CEMENT JOB WILL BE INCLUDED WITH THE WELL COMPLETION REPORT. WELL IS WAITING ON FINAL COMPLETION ACTIVITIES.</p>		
<p>Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY March 06, 2012</p>		
NAME (PLEASE PRINT) Jaime Scharnowske	PHONE NUMBER 720 929-6304	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 3/5/2012	

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-144869A
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: NBU 920-20B
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1229 FNL 1580 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNE Section: 20 Township: 09.0S Range: 20.0E Meridian: S		9. API NUMBER: 43047405380000
PHONE NUMBER: 720 929-6514		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"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> CONVERT WELL TYPE <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 checked="" 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 style="width: 100px;" type="text"/>	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<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"/> 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"/> WILDCAT WELL DETERMINATION	
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 3/22/2012	<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"/> WILDCAT WELL DETERMINATION	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. THE SUBJECT WELL WAS PLACED ON PRODUCTION ON MARCH 22, 2012 AT 1:30 P.M. THE CHRONOLOGICAL WELL HISTORY WILL BE SUBMITTED WITH THE WELL COMPLETION REPORT.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY April 02, 2012		
NAME (PLEASE PRINT) Jaime Scharnowske	PHONE NUMBER 720 929-6304	TITLE Regularatory Analyst
SIGNATURE N/A	DATE 4/2/2012	

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.
UTU0144869A

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

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.
UTU63047A

2. Name of Operator
KERR MCGEE OIL & GAS ONSHORE
Contact: CARA MAHLER
Mail: cara.mahler@anadarko.com

8. Lease Name and Well No.
NBU 920-20B

3. Address 1099 18TH STREET, SUITE 1800
DENVER, CO 80202

3a. Phone No. (include area code)
Ph: 720-929-6029

9. API Well No.
43-047-40538

4. Location of Well (Report location clearly and in accordance with Federal requirements)*
At surface NWNE 1229FNL 1580FEL 40.024684 N Lat, 109.686574 W Lon
At top prod interval reported below NWNE 1229FNL 1580FEL 40.024684 N Lat, 109.686574 W Lon
At total depth NWNE 1229FNL 1580FEL 40.024684 N Lat, 109.686574 W Lon

10. Field and Pool, or Exploratory
NATURAL BUTTES

11. Sec., T., R., M., or Block and Survey
or Area Sec 20 T9S R20E Mer SLB

12. County or Parish
UINTAH

13. State
UT

14. Date Spudded
12/14/2011

15. Date T.D. Reached
02/28/2012

16. Date Completed
 D & A Ready to Prod.
03/22/2012

17. Elevations (DF, KB, RT, GL)*
4762 GL

18. Total Depth: MD 11889
TVD 11887

19. Plug Back T.D.: MD 11846
TVD 11844

20. Depth Bridge Plug Set: MD
TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
BHV-SD/DSN/ACTR-CBL/GR/COLLARS

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 Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
20.000	14.000 STL	36.7	0	40		28			
11.000	8.625 IJ-55	28.0	0	2868		625		0	
7.875	4.500 P-110	11.6	0	11889		2594		1950	

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	11406							

25. Producing Intervals

26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) MESAVERDE	11462	11669	11462 TO 11669	0.360	48	OPEN
B)						
C)						
D)						

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

Depth Interval	Amount and Type of Material
11462 TO 11669	8,292 BBLs SLICK H2O & 182,256 LBS 30/50 OTTAWA SAND

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
03/22/2012	03/24/2012	24	→	0.0	1243.0	250.0			FLows FROM WELL
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
20/64	SI 550	1600.0	→	0	1243	250		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		→						

RECEIVED

MAY 15 2012

(See Instructions and spaces for additional data on reverse side)

ELECTRONIC SUBMISSION #137394 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

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

28b. Production - Interval C

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

28c. Production - Interval D

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

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

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
				GREEN RIVER BIRD'S NEST MAHOGANY WASATCH MESAVARDE	1710 1874 2354 5190 8661

32. Additional remarks (include plugging procedure):

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

33. Circle enclosed attachments:

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

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

**Electronic Submission #137394 Verified by the BLM Well Information System.
For KERR MCGEE OIL & GAS ONSHORE L, sent to the Vernal**

Name (please print) CARA MAHLER Title AUTHORIZED REPRESENTATIVE

Signature _____ (Electronic Submission) Date 05/10/2012

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.

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**US ROCKIES REGION
Operation Summary Report**

Well: NBU 920-20B		Spud Date: 2/4/2012	
Project: UTAH-UJINTAH		Site: NBU 920-20B	Rig Name No: PROPETRO 11/11, SST 54/54
Event: DRILLING		Start Date: 11/10/2011	End Date: 3/2/2012
Active Datum: RKB @4,780.01ft (above Mean Sea Level)		UWI: NW/NE/0/9/S/20/E/20/0/0/26/PM/N/1229/E/0/1580/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
2/3/2012	17:30 - 21:00	3.50	RDMO	01	A	P		MOVE RIG F/LOVE 1121-8J
	21:00 - 0:00	3.00	MIRU	01	B	P		RU
2/4/2012	0:00 - 2:30	2.50	MIRU	01	B	P		RU
	2:30 - 4:00	1.50	MIRU	02	B	P		SPUD @ 02:30 DRILL 12.25" HOLE 44'- 210'. (166', 83'/HR) RPM=45, WOB 5-15K. PSI ON/OFF 600/400. UP/DOWN/ ROT 20/20/20 K. DRAG 0 K. CIRC RESERVE W. 8.3# WATER. DRILL DOWN TO 210' W/ 6" COLLARS.
	4:00 - 8:00	4.00	MIRU	06	A	P		POOH, PU, 11" BIT AND DIRECTIONAL TOOLS, TIH T/ 210'
	8:00 - 12:00	4.00	MIRU	02	B	P		DRILL F/210 T/820 (610' @ 152.5' PER HR) WOB 20K, PSI ON/OFF 1100/900, RPM 40 UP/DWN/ROT 52/44/48
	12:00 - 19:30	7.50	MIRU	02	B	P		DRILL F/820-1690 (870' @ 116' PER HR) WOB 18K, PSI ON/OFF 1450/1240, RPM 45 UP/DWN/ROT 72/50/61
	19:30 - 20:30	1.00	MIRU	08	A	Z		CHANGE LINER GASKET ON PUMP
	20:30 - 0:00	3.50	MIRU	02	B	P		DRILL F/1690-2050' (360' @ 102.85' PER HR) WOB 18K, PSI ON/OFF 1570/1400, RPM 45 UP/DWN/ROT 75/61/70
2/5/2012	0:00 - 3:00	3.00	DRLSUR	02	B	P		DRILL F/2050'-2350 (300' @ 100' PER HR) WOB 18K, PSI ON/OFF 1570/1400, RPM 45 UP/DWN/ROT 75/61/70
	3:00 - 7:30	4.50	DRLSUR	08	A	Z		WORK ON PUMP
	7:30 - 16:00	8.50	DRLSUR	02	B	P		DRILL F/2350'-2934' (584' @ 68.7' PER HR) WOB 20K, PSI ON/OFF 1900/1650, RPM 40 UP/DWN/ROT 85/75/82 TD @ 16:00
	16:00 - 18:00	2.00	DRLSUR	05	F	P		CIRC F/CSNG
	18:00 - 21:30	3.50	DRLSUR	06	D	P		LDDS, BHA & DIR TOOLS
	21:30 - 23:00	1.50	DRLSUR	12	A	P		MOVE PIPE RACKS AND CATWALK. PULL DIVERTER HEAD. RIG UP TO RUN CSG. AND MOVE CSG INTO POSITION TO P/U
	23:00 - 0:00	1.00	DRLSUR	12	C	P		RUN65 JTS 8 5/8, 28# CSNG. SHOE SET @ 2894", BAFFLE SET @ 2848'
2/6/2012	0:00 - 1:30	1.50	DRLSUR	12	C	P		RUN 42 JTS 8 5/8, 28# CSNG. SHOE SET @ 1873', BAFFLE SET @ 1825'
	1:30 - 2:00	0.50	DRLSUR	12	B	P		HOLD SAFETY MEETING, RUN 200' OF 1". RIG DOWN RIG MOVE OFF WELL, REBUILD DITCH. RIG UP CEMENT TRUCK, 2" HARD LINES,. CEMENT HEAD, LOAD PLUG. LAND CSNG @ 01:30

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Event: DRILLING		Start Date: 11/10/2011	End Date: 3/2/2012
Active Datum: RKB @4,780.01ft (above Mean Sea Level)		UWI: NW/NE/0/9/S/20/E/20/0/0/26/PM/N/1229/E/0/1580/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	2:00 - 4:00	2.00	DRLSUR	12	E	P		PRESSURE TEST LINES TO 2000 PSI. PUMP 30 BBLs OF WATER AHEAD. PUMP 20 BBLs OF 8.3# GEL WATER AHEAD. PUMP (230 SX)156.4 BBLs OF 11.0# 3.82 YD. PUMP 170 SX (34.8 BBLs) TAIL, 15.8#, 1.15 YD. DROP PLUG ON FLY. DISPLACE WITH 177.7 BBLs OF H2O. 40 BBLs CMT T/SURFACE. FINAL LIFT 600PSI AT 4 BBLs MIN. BUMP PLUG WITH 800 PSI HELD FOR 5 MIN. FLOAT HELD. PUMP 125 SX (25.6 BBLs) OF SAME TAIL CEMENT WITH 2% CACL DOWN 1". SHUT DOWN AND CLEAN TRUCK. CEMENT TO SURFACE. FELL BACK RELEASE RIG 04:00
	4:00 - 4:00	0.00	DRLSUR	13	A	P		WOC
	4:00 - 4:00	0.00	DRLSUR	12	E	P		PUMP 100 SKS (20.4 BLS) 15.8 # 1.15 YD DWN BACK SIDE. CMT T/SURFACE CMT STAYED @ SURFACE
2/16/2012	18:00 - 0:00	6.00	DRLPRO	01	E	P		TEAR DOWN & MOVE RIG. MOUNTAIN WEST HAD 3 TRUCKS, TWO 1 TONS, 10 MEN. RW JONES TRUCKING HAD 3 TRUCKS, 1 FORKLIFT, 6 MEN. SST HAD 6 EXTRA HANDS.
2/17/2012	0:00 - 7:00	7.00	DRLPRO	01	E	P		TEAR DOWN & PREPARE TO MOVE RIG
	7:00 - 18:00	11.00	DRLPRO	01	B	P		PJSM. MOVE IN AND RIG UP. STOOD DERRICK @ 18:00 HRS. RW JONES HAD 7 TRUCKS, 4 SWAMPERS, 2 FORKLIFTS, 2 PUSHERS, 1 SAFETYMAN. VALLEY CREST CRANE HAD 4 MEN. SST HAD 6 EXTRA HANDS & 1 PUSHER.
2/18/2012	18:00 - 0:00	6.00	DRLPRO	01	B	P		RIG UP WINTER SHED & FLOOR.
	0:00 - 7:00	7.00	DRLPRO	01	B	P		RIG UP FLOOR, WINTER SHED, MUD LINE, FLOW LINE.
	7:00 - 12:30	5.50	DRLPRO	01	B	P		PICK UP TOP DRIVE & SET IN FRONT END. RIG UP. RW JONES HAD 1 TRUCK, 1 FORKLIFT, 1 PUSHER, & 2 SWAMPERS. TRUCKS OFF LOCATION @ 09:30.
	12:30 - 13:00	0.50	DRLPRO	23		P		SAFETY MEETING & RIG INSPECTION.
	13:00 - 15:00	2.00	DRLPRO	14	A	P		NIPPLE UP STRADA
	15:00 - 17:00	2.00	DRLPRO	14	A	P		NIPPLE UP BOPE
	17:00 - 21:00	4.00	DRLPRO	15	A	P		TEST BOPE AND CASING TO 1500 PSI FOR 30 MINUTES. TEST FLOOR VALVES & IBOP. PIPE & BLIND RAMS, KILL LINE VALVES, CHOKE LINE VALVES, CHOKE LINE, & CHOKE MANIFOLD VALVES. 250 PSI LOW 5000 PSI HIGH FOR 10 MINUTES. TEST ANNULAR 250 LOW 2500 PSI HIGH FOR 10 MINUTES.
	21:00 - 22:00	1.00	DRLPRO	15	A	P		TEST STRATA. CHOKE MANIFOLD, CHOKE LINE, & ORBIT & MANUAL VALVES. 250 LOW 3000 PSI HIGH FOR 10 MINUTES.
2/19/2012	22:00 - 0:00	2.00	DRLPRO	06	A	P		PICK UP WEATHERFORD BHA.
	0:00 - 0:30	0.50	DRLPRO	06	A	P		PICK UP BHA
	0:30 - 1:00	0.50	DRLPRO	06	A	Z		WORK ON MWD. INTERNAL STABILIZERS ON INNER TOOL WOULD NOT FIT INSIDE TOOL CARRIER
	1:00 - 1:30	0.50	DRLPRO	06	A	P		PICK UP BHA
	1:30 - 2:30	1.00	DRLPRO	06	A	P		PJSM WITH KIMZEY LAY DOWN MACHINE & RIG UP
	2:30 - 6:30	4.00	DRLPRO	06	A	P		TRIP IN HOLE PICKING UP DP. TAG CEMENT @ 2763'. RIG DOWN KIMZEY LAY DOWN MACHINE.

US ROCKIES REGION
Operation Summary Report

Well: NBU 920-20B

Spud Date: 2/4/2012

Project: UTAH-UJINTAH

Site: NBU 920-20B

Rig Name No: PROPETRO 11/11, SST 54/54

Event: DRILLING

Start Date: 11/10/2011

End Date: 3/2/2012

Active Datum: RKB @4,780.01ft (above Mean Sea Level)

UWI: NW/NE/0/9/S/20/E/20/0/0/26/PM/N/1229/E/0/1580/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	6:30 - 9:00	2.50	DRLPRO	02	F	P		DRKG CEMENT & SHOE TRACK. 2762' TO 2904' CLEAN OUT TO 2934'
	9:00 - 17:00	8.00	DRLPRO	02	B	P		DRLG ROTATE/SLIDE/SURVEY. 2934' TO 3758'. 824' @ 103 FPH. WOB 18 TO 22K TD RPM 50. MM RPM 78 PUMPING 100 SPM 490 GPM. PSI ON/OFF 1250/1095. DIFF 155 TORQUE ON/OFF 6570/3250 ON GAS BUSTER @ 3500' 8 TO 10' FLARE ON STRATA @ 3750'. BACK PRESSURE 85 PSI. VIS 27 WT 8.4 PU/SO/RT 132/125/128 SLIDE 12' .16HRS 75 FPH. ROT 812' 7.84 HRS 103.6 FPH 42' NORTH & 28' WEST OF CENTER NOV DEWATERING. RIG SERVICE. FUNCTION BOP.
	17:00 - 17:30	0.50	DRLPRO	07	A	P		DRLG. ROTATE/SURVEY. 3758' TO 4380'. 622' @ 95.7 FPH. WOB 20 TO 22K. TD RPM 55. MM RPM 78. PUMPING 100 SPM. 490 GPM. PSI ON/OFF 1450/1365. DIFF 45. TORQUE ON/OFF 5640/3250. STRATA BACK PRESSURE 151 PSI 15 TO 20' FLARE PU/SO/RT 132/125/127. NOV DEWATERING
	17:30 - 0:00	6.50	DRLPRO	02	B	P		42' NORTH. 27' WEST OF CENTER DRLG. ROTATE/SLIDE/SURVEY. 4380' TO 5093'. 713' @ 101.8 FPH. WOB 20 TO 22K. TD RPM 53. MM RPM 78 PUMPING 490 GPM. 100 SPM. PSI ON/OFF. 1690/1520. DIFF. 170 TORQUE ON/OFF 6435/3250 MUD WT 8.4 VIS 27 STRATA BACK PRESSURE 116 PSI. 10 TO 15' FLARE SLIDE 15' IN .28 HRS = 53.5 FPH. ROTATE 698' IN 6.72 HRS = 103.9 FPH. NOV DEWATERING PU = 132. SO = 125. ROT = 127.
2/20/2012	0:00 - 7:00	7.00	DRLPRO	02	B	P		40' NORTH & 27' EAST OF CENTER. PUMP POPPED OFF. WHILE REPLACING NAIL IN POP OFF TOOK GAS KICK. CIRCULATE OUT GAS KICK.
	7:00 - 8:00	1.00	DRLPRO	22	A	Z		

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Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	8:00 - 16:00	8.00	DRLPRO	02	B	P		DRLG. ROTATE/SLIDE/SURVEY. 5093' TO 5855'. 762' @ 95.2 FPH. WOB 20 TO 22K. TD RPM 50. MM RPM 75. PUMPING 466 GPM. 95 SPM. PSI ON/OFF 1550/1364. DIFF 186. TORQUE ON/OFF 6075/3250. MUD WT 8.4. VIS 27. STRATA BACK PRESSURE: 163 PSI. FLARE 8 TO 10'. SLIDE 15' IN .16 HR = 93.7 FPH. ROTATE 747' IN 7.84 HRS = 95.3 FPH. NOV DEWATERING PU 155. SO 125. ROT 150 56' NORTH & 22' EAST OF CENTER RIG SERVICE. FUNCTION BOP.
	16:00 - 16:30	0.50	DRLPRO	07	A	P		DRLG. ROTATE/SLIDE/SURVEY. 5855' TO 6520'. 665' @ 88.6 FPH. WOB 20 TO 22K. TD RPM 50. MM RPM 78. PUMPING 490 GPM. 100 SPM. PSI ON/OFF 1780/1620. DIFF 160. TORQUE ON/OFF 6610/3420. MUD WT 8.4. VIS 27. STRATA BACK PRESSURE. 90 PSI. FLARE 12 TO 15'. SLIDE 25' IN .35 HRS = 71.4 FPH. ROTATE 640' IN 7.15 HRS = 89.5 FPH. NOV DEWATERING. PU 175. SO 140. ROT 160. 65' NORTH & 32' EAST OF CENTER.
	16:30 - 0:00	7.50	DRLPRO	02	B	P		DRLG. ROTATE/SLIDE/SURVEY. 6520' TO 7762'. 1242' @ 77.6 FPH. WOB 18 TO 22K. TD RPM 45. MM RPM 78. PUMPING 490 GPM. 100 SPM. PSI ON/OFF 1950/1800. DIFF 150. TORQUE ON/OFF 7510/5065. MUD WT 8.7. VIS 30. STRATA BACK PRESSURE 75 PSI. 4 TO 6' FLARE. SLIDE 8' IN .17 HRS. = 47 FPH. ROTATE 1234' IN 15.83 HRS = 77.9 FPH. NOV DEWATERING TO MUD UP, THEN CONVENTIONAL. PU 180. SO 150. ROT 175. 75' N & 43' W OF CENTER. HOLE SEEPING. LOST APP 160 BBL. MIXING LCM SWEEPS. RIG SERVICE. FUNCTION BOP.
2/21/2012	0:00 - 16:00	16.00	DRLPRO	02	B	P		DRLG. ROTATE/SLIDE/SURVEY. 6520' TO 7762'. 1242' @ 77.6 FPH. WOB 18 TO 22K. TD RPM 45. MM RPM 78. PUMPING 490 GPM. 100 SPM. PSI ON/OFF 1950/1800. DIFF 150. TORQUE ON/OFF 7510/5065. MUD WT 8.7. VIS 30. STRATA BACK PRESSURE 75 PSI. 4 TO 6' FLARE. SLIDE 8' IN .17 HRS. = 47 FPH. ROTATE 1234' IN 15.83 HRS = 77.9 FPH. NOV DEWATERING TO MUD UP, THEN CONVENTIONAL. PU 180. SO 150. ROT 175. 75' N & 43' W OF CENTER. HOLE SEEPING. LOST APP 160 BBL. MIXING LCM SWEEPS. RIG SERVICE. FUNCTION BOP.
	16:00 - 16:30	0.50	DRLPRO	07	A	P		DRLG. ROTATE/SLIDE/SURVEY. 6520' TO 7762'. 1242' @ 77.6 FPH. WOB 18 TO 22K. TD RPM 45. MM RPM 78. PUMPING 490 GPM. 100 SPM. PSI ON/OFF 1950/1800. DIFF 150. TORQUE ON/OFF 7510/5065. MUD WT 8.7. VIS 30. STRATA BACK PRESSURE 75 PSI. 4 TO 6' FLARE. SLIDE 8' IN .17 HRS. = 47 FPH. ROTATE 1234' IN 15.83 HRS = 77.9 FPH. NOV DEWATERING TO MUD UP, THEN CONVENTIONAL. PU 180. SO 150. ROT 175. 75' N & 43' W OF CENTER. HOLE SEEPING. LOST APP 160 BBL. MIXING LCM SWEEPS. RIG SERVICE. FUNCTION BOP.

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 920-20B		Spud Date: 2/4/2012	
Project: UTAH-UJINTAH		Site: NBU 920-20B	Rig Name No: PROPETRO 11/11, SST 54/54
Event: DRILLING		Start Date: 11/10/2011	End Date: 3/2/2012
Active Datum: RKB @4,780.01ft (above Mean Sea Level)		UWI: NW/NE/0/9/S/20/E/20/0/0/26/PM/N/1229/E/0/1580/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	16:30 - 0:00	7.50	DRLPRO	02	B	P		DRLG. ROTATE/SLIDE/SURVEY. 7762' TO 8205' 443' @ 59 FPH. WOB 22K. TD RPM 50. MM RPM 78. PUMPING 490 GPM. 100 SPM. PSI ON/OFF 2000/1800 DIFF 200 TORQUE ON/OFF 7830/5075 MUD WT 8.7. VIS 30 STRATA BACK PRESSURE 70 PSI. 2 TO 4' FLARE. SLIDE 8' IN .17 HRS = 47 FPH. ROTATE 435' IN 7.33 HRS = 59.3 FPH. NOV RUNNING CONVENTIONAL ON ONE CENTRIFUGE. PU 200. SO 165. ROT 180. 71' N & 39' W OF CENTER. HOLE SEEPING. LOST APP 75 BBLs. MIXING LCM SWEEPS.
2/22/2012	0:00 - 14:30	14.50	DRLPRO	02	B	P		DRLG. ROTATE/SURVEY / 8205' TO 8906' / 48.3 FPH. WOB 22K / TD RPM 45 / MM RPM 78. PUMPING 490 GPM / 100 SPM. PSI ON/OFF 2030 / 1840 / DIFF 190. TORQUE ON/OFF 8450 / 7810. MUD WT 9.1 / VIS 39. STRATA BACK PRESSURE: DRLG / 38 PSI CONN / OPEN / NO FLARE. NO SLIDE. ROTATE 701' IN 14.5 HRS = 48.3 FPH NOV RUNNING 1 CENTRIFUGE CONVENTIONAL / I DEWATERING. PU 215 / SO 180 / ROT 195. 65' N AND 27' WEST OF CENTER. HOLE SEEPING. LOOSING 10 BBL PER HR. RIG SERVICE. FUNCTION BOP.
	14:30 - 15:00	0.50	DRLPRO	07	A	P		
	15:00 - 0:00	9.00	DRLPRO	02	B	P		DRLG. ROTATE/SLIDE/SURVEY / 8906' TO 9321' / 415' @ 46.1 FPH. WOB 22K / TD RPM 50 / MM RPM 75. PUMPING 466 GPM / 95 SPM. PSI ON/OFF 2200 / 1950. DIFF 250. TORQUE ON/OFF 8810 / 4010. MUD WT 8.8 / VIS 42. STRATA BACK PRESSURE: DRLG 80 / CONN OPEN. 6 TO 10' FLARE SLIDE 77' IN 3 HRS = 25.6 FPH. ROTATE 338' IN 6 HRS = 56.3 FPH. NOV RUNNING 1 CENTRIFUGE CONVENTIONAL / 1 DEWATERING. PU 215 / SO 175 / ROT 190. 61' N AND 22' W OF CENTER. HOLE LOOSING 10 BBL/HR. MIX LCM SWEEPS

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Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
2/23/2012	0:00 - 14:30	14.50	DRLPRO	02	B	P		DRLG. ROTATE/SLIDE/SURVEY / 9321' TO 10,049' / 728' @ 50.2 FPH. WOB 18 TO 22K / TD RPM 45 TO 50 / MM RPM 78. PUMPING 490 GPM / 100 SPM. PSI ON/OFF 2420/2300 / DIFF 120 TORQUE ON/OFF 8100/6750 MUD WT 9.3 / VIS 43 STRATA BACK PRESSURE: DRLG 96 PSI / CONN O PSI / FLARE 5 TO 20'. SLIDE 35' IN 1.34 HRS = 26.1 FPH ROTATE 693' IN 13.16 HR = 52.7 FPH NOV RUNNING 1 CENTRIIFUGE CONVENTIONAL. 1 ON DEWATER. PU 215 / SO 175 / ROT 190 59' N & 9' W OF CENTER HOLE SEEPING LOOSING 6 BBL/HR. RIG SERVICE. FUNCTION BOP.
	14:30 - 15:00	0.50	DRLPRO	07	A	P		
	15:00 - 0:00	9.00	DRLPRO	02	B	P		DRLG. ROTATE/SURVEY / 10,049' TO 10,396' / 347' @ 57.8 FPH. WOB 18K / TD RPM 45 / MM RPM 75 PUMPING 466 GPM / 95 SPM PSI ON/OFF 2500/2380 / DIFF 120 TORQUE ON/OFF 9000/6673 MUD WT 9.2 / VIS 42 STRATA BACK PRESSURE: DRLG 98 / CONN 198 / FLARE 5 TO 20' SLIDE 0 ROTATE 347' IN 9 HR = 57.8 FPH NOV RUNNING 1 CENTRIFUGE CONVENTIONAL / 1 ON DEWATER. PU 230 / SO 190 / ROT 200 57' N & 5' W OF CENTER HOLE SEEPING / LOOSING 8 BBL/HR.
2/24/2012	0:00 - 9:00	9.00	DRLPRO	02	B	P		DRLG ROTATE/SURVEY / 10,396' TO 10,713' / 317' @ 35.2 FPH WOB 18K / TD RPM 45 / MM RPM 75 PUMPING 466 GPM / 95 SPM PSI ON/OFF 2450/2350 TORQUE ON/OFF 9930/7540 MUD WT IN 9.3 / OUT 9.2 / VIS 47 STRATA BACK PRESSURE 101 DRLG / 125 CONN. SLIDE = 0 ROTATE 317' IN 9 HR = 35.2 FPH NOV RUNNING BOTH CENTRIFUGES CONVENTIONAL PU 240 / SO 210 / ROT 225 54' N & 4' E OF CENTER. HOLE SEEPING 4 BBL/HR.
	9:00 - 11:30	2.50	DRLPRO	22	O	Z		LOST COMMUNICATION WITH MWD. PULL 7 STD DP TO 9950'. COULD NOT COMMICATE WITH TOOL TO INCRESAE AMPS. TRIP IN HOLE. BOTTOMS UP FLARE 50'.

US ROCKIES REGION
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Project: UTAH-UINTAH		Site: NBU 920-20B	Rig Name No: PROPETRO 11/11, SST 54/54
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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 ROTATE / 10,713 TO 10,996' / 283' @ 22.6 FPH. WOB 18K / TD RPM 45 / MM RPM 75. PUMPING 466 GPM / 95 SPM PSI ON/OFF 2500/2350 / DIFF 150 TORQUE ON/OFF 8810/7530 MUD WT IN 9.4 / OUT 9.3 / VIS 42 STRATA BACK PRESSURE DRLG 84 TO 110. / CONN 200 SLIDE 0 ROTATE 283' IN 12.5 HR = 22.6 FPH NOV RUNNING BOTH CENTRIFUGES CONVENTIONAL. PU 245 / SO 205 / ROT 225 NO SURVEYS
2/25/2012	0:00 - 1:30	1.50	DRLPRO	02	B	P		HOLE SEEPING 2 BBL/HR. DRLG ROTATE / 10,996' TO 11,001' / 5' @ 3.3 FPH. WOB 18K / TD RPM 45 / MM RPM 75 PUMPING 466 GPM / 95 SPM PSI ON/OFF 2350/2350 TORQUE ON/OFF 8510/8065 MUD WT IN 9.3 / OUT 9.3 / VIS 42 STRATA BACK PRESSURE DRLG 90 TO 198 / CONN 200 SLIDE 0 ROTATE 5' IN 1.5 HRS = 3.3 FPH NOV RUNNING BOTH CENTRIFUGES CONVENTIONAL. PU 250 / SO 205 / ROT 225 NO SURVEYS. HOLE SEEPAGE 0
	1:30 - 6:30	5.00	DRLPRO	05	B	P		CIRCULATE & RAISE MUD WT / 9.3 TO 10.8
	6:30 - 14:00	7.50	DRLPRO	06	A	P		PUMP DRY JOB & TRIP OUT OF HOLE
	14:00 - 15:00	1.00	DRLPRO	06	A	P		LAY DOWN MOTOR / PICK UP NEW BIT & MOTOR.
	15:00 - 15:30	0.50	DRLPRO	07	A	P		RIG SERVICE / FUNCTION BLIND RAMS
	15:30 - 16:30	1.00	DRLPRO	06	A	P		ADJ MUD MOTOR / PROGRAM MWD
	16:30 - 18:00	1.50	DRLPRO	06	A	P		TRIP IN HOLE TO 2900'
	18:00 - 19:00	1.00	DRLPRO	09	A	P		SLIP & CUT 94' DRLG LINE
	19:00 - 0:00	5.00	DRLPRO	08	B	Z		REPACK SWIVEL ON TOP DRIVE. HAVING TROUBLE GETTING OLD WASH PIPE OUT
2/26/2012	0:00 - 7:00	7.00	DRLPRO	08	B	Z		REPACK SWIVEL IN TOP DRIVE
	7:00 - 12:30	5.50	DRLPRO	06	A	P		TRIP IN HOLE / BREAK CIRCULATION @ 5690' & 8550' / WASH 287' TO BOTTOM. 30' FLARE BOTTOMS UP.

US ROCKIES REGION
Operation Summary Report

Well: NBU 920-20B		Spud Date: 2/4/2012	
Project: UTAH-UINTAH		Site: NBU 920-20B	Rig Name No: PROPETRO 11/11, SST 54/54
Event: DRILLING		Start Date: 11/10/2011	End Date: 3/2/2012
Active Datum: RKB @4,780.01ft (above Mean Sea Level)		UWI: NW/NE/0/9/S/20/E/20/0/0/26/PM/N/1229/E/0/1580/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	12:30 - 0:00	11.50	DRLPRO	02	B	P		DRLG ROTATE/SURVEY / 11,001' TO 11,215' / 214' @ 18.6 FPH. WOB 18 TO 22K / TD RPM 45 / MM RPM 75 PSI ON/OFF 2450/2300. TORQUE ON/OFF 11,189/7650 MUD WT IN 10.5 OUT 10.5 / VIS 40 / NO FLARE STRATA BACK PRESSURE DRLG 50 / CONN 0 SLIDE 0 ROTATE 214' IN 11.5 HRS = 18.6 FPH NOV RUNNING 1 CENTRIFUGE CONVENTIONAL TO KEEP WT BELOW 10.8 PU 245 / SO 195 / ROT 210 52' N & 27' E OF CENTER HOLE TOOK 40 BBL MUD AFTER TRIP THEN 0 LOSS
2/27/2012	0:00 - 17:30	17.50	DRLPRO	02	B	P		DRLG ROTATE/SURVEY / 11,215' TO 11568' / 353' @ 20.2 FPH WOB 22 TO 24K / TD RPM 45 / MM RPM 75 PUMPING 466 GPM / 95 SPM PSI ON/OFF 2700/2540 / DIFF 160 TORQUE ON/OFF 8702/7470 MUD WT IN 10.6 / OUT 10.3 / VIS 43 STRATA BACK PRESSURE DRLG 85 / CONN 200 / STEADY 4' FLARE WITH OCCASIONAL 12' FLARE SLIDE = 0 ROTATE 353' IN 17.5 HRS = 20.2 FPH NOV OFF LINE - WEIGHTING UP PU 250 / SO 220 / ROT 230 49' N & 37' E OF CENTER NO LOSSES
	17:30 - 18:00	0.50	DRLPRO	07	A	P		RIG SERVICE / FUNCTION BOP
	18:00 - 0:00	6.00	DRLPRO	02	B	P		DRLG ROTATE/SURVEY / 11568' TO 11670' / 102' @ 17 FPH WOB 24 TO 25K / TD RPM 45 / MM RPM 70 PUMPING 436 GPM / 89 SPM PSI ON/OFF 2700/2540 / DIFF 230 TORQUE ON/OFF 8637/7460 MUD WT IN 10.9 OUT 10.8 / VIS 45 STRATA BACK PRESSURE DRLG 84 / CONN 97 / STEADY 4 TO 12' FLARE SLIDE = 0 ROTATE 102' IN 6 HRS = 17 FPH NOV OFF LINE / WEIGHTING UP 49' N & 37' EAST OF CENTER PU 250 / SO 220 / ROT 215 NO LOSSES

US ROCKIES REGION
Operation Summary Report

Well: NBU 920-20B

Spud Date: 2/4/2012

Project: UTAH-UINTAH

Site: NBU 920-20B

Rig Name No: PROPETRO 11/11, SST 54/54

Event: DRILLING

Start Date: 11/10/2011

End Date: 3/2/2012

Active Datum: RKB @4,780.01ft (above Mean Sea Level)

UWI: NW/NE/0/9/S/20/E/20/0/0/26/PM/N/1229/E/0/1580/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
2/28/2012	0:00 - 10:30	10.50	DRLPRO	02	B	P		DRLG ROTATE 11,670' TO 11,844' / 174' @ 16.6 FPH WOB 25K / TD RPM 47 / MM RPM 66 PUMPING 412 GPM / 84 SPM PSI ON/OFF 2750/2630 / DIFF 120 TORQUE ON/OFF 10340/8080 MUD WT IN 11.5 / OUT 11.4 / VIS 44 STRATA BACK PRESSURE DRLG 75 / CON 220 SLIDE 0 ROTATE 174' IN 10.5 HRS = 16.6 FPH NOV OFF LINE PU 255 / SO 215 / ROT 234 LAST SURVEY @ 11,508' / 49' N & 37' E OF CENTER. NO LOSSES
	10:30 - 11:00	0.50	DRLPRO	07	A	P		RIG SERVICE / FUNCTION BOP
	11:00 - 13:00	2.00	DRLPRO	02	B	P		DRLG ROTATE 11,844' TO 11,889' TD / 45' @ 22.5 FPH WOB 25K / TD RPM 47 / MM RPM 66 PUMPING 412 GPM / 84 SPM PSI ON/OFF 2750/2630 / DIFF 120 TORQUE ON/OFF 2750/2630 MUD WT IN 11.5 / OUT 11.4 / VIS 44 STRATA BACK PRESSURE DRLG 70 / CON 170 SLIDE 0 ROTATE 45' IN 2 HRS = 22.5 FPH NOV OFF LINE PU 255 / SO 215 / ROT 234 NO SURVEYS NO LOSSES
	13:00 - 14:30	1.50	DRLPRO	05	A	P		CIRCULATE & CONDITION MUD FOR TRIP
	14:30 - 0:00	9.50	DRLPRO	05	B	P		CHECK FLOW / WELL FLOWING / CIRCULATE & RAISE MUD WT / HOLE SEEPING / LOST 90 BBL MUD / BY PASS SHAKERS / BUILD VOLUME MIXING MUD & LCM
2/29/2012	0:00 - 0:30	0.50	DRLPRO	05	B	P		CIRCULATE & CONDITION MUD. SPOT 12.5# PILL ON BOTTOM
	0:30 - 6:30	6.00	DRLPRO	06	A	P		TRIP OUT OF HOLE. NO TIGHT SPOTS.
	6:30 - 8:00	1.50	DRLPRO	06	A	P		LAY DOWN DIRECTIONAL TOOLS, BIT & MOTOR,CLEAN RIG FLOOR
	8:00 - 13:00	5.00	DRLPRO	06	B	P		TRIP IN HOLE OPEN END DRILL PIPE TO 11,853 BREAKING CIRC.
	13:00 - 15:30	2.50	DRLPRO	05	A	P		CIRC.COND.FOR LOG RECIPROCATATE DP MUD WT. IN AND OUT 12.3,GAS 640 UNITS NO FLAIR.
	15:30 - 19:00	3.50	DRLPRO	06	B	P		TRIP OUT TO 6,505 FOR LOG THROUGH DRILL PIPE
	19:00 - 19:30	0.50	DRLPRO	11	G	P		SAFETY MEETING W/ HALLIBURTON & RIG CREW,RIG UP FOR LOG
	19:30 - 0:00	4.50	DRLPRO	11	G	P		RIH W/ TRIPLE COMBO AND LOG IN F/ 6:505 TO 11,889 LOGGERS TD 11,873
3/1/2012	0:00 - 2:00	2.00	DRLPRO	11	G	P		FINISH LOGGING W/ TRIPPLE COMBO THROUGH DP F/ 11,889 TO 200', POOH RIG DOWN HALLIBURTON WIRE LINE.
	2:00 - 3:30	1.50	DRLPRO	06	A	P		TRIP IN HOLE WITH DRILL PIPE TO 10,955
	3:30 - 4:30	1.00	DRLPRO	06	A	P		SAFETY MEETING RIG UP TO LAY DOWN DRILL PIPE.

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 920-20B

Spud Date: 2/4/2012

Project: UTAH-UINTAH

Site: NBU 920-20B

Rig Name No: PROPETRO 11/11, SST 54/54

Event: DRILLING

Start Date: 11/10/2011

End Date: 3/2/2012

Active Datum: RKB @4,780.01ft (above Mean Sea Level)

UWI: NW/NE/0/9/S/20/E/20/0/0/26/PM/N/1229/E/0/1580/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	4:30 - 12:30	8.00	DRLPRO	06	A	P		LAY DOWN DRILL PIPE.
	12:30 - 13:00	0.50	DRLPRO	06	A	P		PULL WEAR BUSHING.
	13:00 - 14:30	1.50	DRLPRO	06	A	P		TRIP IN WITH HWDP AND LAY DOWN SAME.
	14:30 - 16:30	2.00	DRLPRO	12	A	P		SAFETY MEETING, RIG UP TO RUN 4 1/2 CASING.
	16:30 - 17:00	0.50	DRLPRO	12	C	P		MAKE UP SHOE TRACK RUN IN HOLE AND CIRC. CHECK FLOATS ALL OK.
	17:00 - 0:00	7.00	DRLPRO	12	C	P		RUN CSG. 4 1/2 11.6, P-110 LT&C & DQX + TWO PUP JTS & XO JT. @00:00 RAN 217 JTS. OF 278 JTS.
3/2/2012	0:00 - 3:30	3.50	CSGPRO	12	C	P		FINISH RUNNING 4.5 CASING WASH LAST 4 JT. DOWN NO FILL PICK UP TAG JT. TAG 12' IN @ 11,889 LAY DOWN TAG JT. CASING RAN AS FOLLOWS RAN 162 JTS OF 4.5", 11.6#, P-110, LT&C CASING & 112 JTS OF 4.5", 11.6#, P-110, DQX CASING TOTAL JTS. 274, WITH WEATHERFORD FLOAT SHOE & FLOAT COLLAR 20 CENTRALIZERS SPACED @ 15' ABOVE SHOE, TOP OF SECOUND COLLARS, & EVERY 3RD COLLAR TO 9,689' 2 MARKER JOINTS AT 11,082' & 8,438' + X-OVER AT 5,030 LAND CASING @ 11,870' PU 150K. SO 112K. STRING WT 135K
	3:30 - 4:30	1.00	CSGPRO	22	L	Z		ROTATING HEAD RUBBER SPLIT CHG. OUT ROTATING HEAD BEARING ACC.
	4:30 - 6:00	1.50	CSGPRO	05	A	P		CIRC. OUT GAS FOR CEMENT JOB. BTTS.UP GAS 680 U.FLARE 10 TO 15' MUD WT OUT 11.6 IN 12.2
	6:00 - 9:00	3.00	CSGPRO	12	E	P		CEMENT 4.5 CASING.PRESSURE TEST LINES 5000 PSI. CEMENT 4 1/2 CASING AS FOLLOWS PUMP 25 BBLs OF FRESH WATER SPACER MIX AND PUMP LEAD CEMENT 201 Bbls.634 SKS.@13. PPG YLD 1.78 MIX WATER GPS 8.85. MIX AND PUMP TAIL CEMENT 457 Bbls.1,960,SKS @14.3 PPG. YLD 1.31 MIX WATER GPS 5.9,SHUT DOWN. WASH LINES. DROP TOP PLUG DISPLACE @ 7 BPM W/ 183 Bbls.FRESH WATER + CLAYCARE + 1 GAL. MAGNACIDE. BUMP PLUG 3000 TO 3800 PSI HOLD 5 MINS.BLEAD BACK 2 Bbls. FLOATS HELD. SLOWED RATE TO 3 BPM,LOST RETURNS AT 165 Bbls. INTO DISP. AT 15 Bbls.REGAIN SMALL RETURNES 1/2" TOTAL DISPLACEMENT 184 Bbls. RIG DOWN B J SERVICE. LIFT PRESSURE 3000 PSI. ADD.PL2+6%Gel+5#KOL+0.4%SMS+0.25#CF+0.3% R-3 50:50:2+10%NaCl+0.2%R-3+0.05#SF+0.002FP-6L + CLAYCARE + 1 GAL. MAGNACIDE.
	9:00 - 10:00	1.00	CSGPRO	12	E	P		R W JONES ON LOCATION 5 HRS. HAUL DRILL PIPE AND MISCELLANEOUS 4 TRUCKS 2 LOWBOYS 2 HALL TRUCKS, 1 FORLIFT, 4 DRIVERS, 2 SWAMPERS, 1 OPERATOR, 1 PUSHER.
	10:00 - 11:00	1.00	CSGPRO	12	E	P		RIG DOWN BJ
	11:00 - 14:00	3.00	CSGPRO	14	A	P		SET SLIPS W/ 140K NIPPLE DOWN/ ROUGH CUT 4.5 CSG.SET HOLE COVER.

US ROCKIES REGION
Operation Summary Report

Well: NBU 920-20B

Spud Date: 2/4/2012

Project: UTAH-UJINTAH

Site: NBU 920-20B

Rig Name No: PROPETRO 11/11, SST 54/54

Event: DRILLING

Start Date: 11/10/2011

End Date: 3/2/2012

Active Datum: RKB @4,780.01ft (above Mean Sea Level)

UWI: NW/NE/0/9/S/20/E/20/0/0/26/PM/N/1229/E/0/1580/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	14:00 - 16:00	2.00	CSGPRO	01	E	P		CLEAN MUD PITS, TEAR DOWN. RELEASE RIG 3/2/2012@ 16:00

1 General

1.1 Customer Information

Company	US ROCKIES REGION
Representative	
Address	

1.2 Well/Wellbore Information

Well	NBU 920-20B	Wellbore No.	OH
Well Name	NBU 920-20B	Wellbore Name	NBU 920-20B
Report No.	1	Report Date	3/16/2012
Project	UTAH-UINTAH	Site	NBU 920-20B
Rig Name/No.		Event	COMPLETION
Start Date	3/16/2012	End Date	3/22/2012
Spud Date	2/4/2012	Active Datum	RKB @4,780.01ft (above Mean Sea Level)
UWI	NW/NE/0/9/S/20/E/20/0/0/26/PM/N/1229/E/0/1580/0/0		

1.3 General

Contractor		Job Method		Supervisor	
Perforated Assembly	PRODUCTION CASING	Conveyed Method			

1.4 Initial Conditions

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

1.5 Summary

Gross Interval	11,462.0 (ft)-11,669.0 (ft)	Start Date/Time	3/19/2012 12:00AM
No. of Intervals	7	End Date/Time	3/19/2012 12:00AM
Total Shots	48	Net Perforation Interval	13.00 (ft)
Avg Shot Density	3.69 (shot/ft)	Final Surface Pressure	
		Final Press Date	

2 Intervals

2.1 Perforated Interval

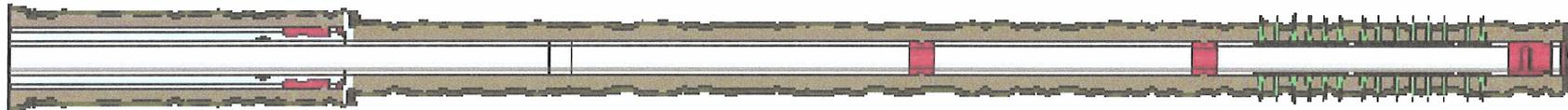
Date	Formation/ Reservoir	CCL@ (ft)	CCL-T S (ft)	MD Top (ft)	MD Base (ft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diamete r (in)	Carr Type /Carr Manuf	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
3/19/2012 12:00AM	MESAVERDE/			11,462.0	11,464.0	4.00		0.360	EXP/	3.375	90.00				23.00 PRODUCTIO N

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (ft)	CCL-T S (ft)	MD Top (ft)	MD Base (ft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diamete r (in)	Carr Type /Carr Manuf	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
3/19/2012 12:00AM	MESAVERDE/			11,476.0	11,478.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
3/19/2012 12:00AM	MESAVERDE/			11,487.0	11,489.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
3/19/2012 12:00AM	MESAVERDE/			11,560.0	11,562.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/19/2012 12:00AM	MESAVERDE/			11,590.0	11,592.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/19/2012 12:00AM	MESAVERDE/			11,602.0	11,604.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
3/19/2012 12:00AM	MESAVERDE/			11,668.0	11,669.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	

3 Plots

3.1 Wellbore Schematic



US ROCKIES REGION
Operation Summary Report

Well: NBU 920-20B		Spud Date: 2/4/2012	
Project: UTAH-UINTAH		Site: NBU 920-20B	Rig Name No: GWS 1/1
Event: COMPLETION		Start Date: 3/16/2012	End Date: 3/22/2012
Active Datum: RKB @4,780.01ft (above Mean Sea Level)		UWI: NW/NE/0/9/S/20/E/20/0/0/26/PM/N/1229/E/0/1580/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
3/14/2012	-							
3/16/2012	6:45 - 7:00	0.25	COMP	48		P		HELD SAFETY MEETING : SAFETY SIGNS
	7:00 - 9:00	2.00	COMP	33		P		FILL SURFACE CSG. MIRU B&C QUICK TEST. PSI TEST T/ 1000 PSI. HELD FOR 15 MIN LOST 12 PSI. PSI TEST T/ 3500 PSI. HELD FOR 15 MIN LOST 25 PSI. 1ST PSI TEST T/ 9000 PSI. HELD FOR 30 MIN LOST 65 PSI. NO COMMUNICATION OR MIGRATION WITH SURFACE CSG BLEED OFF PSI. SWIFN
3/19/2012	7:00 - 7:15	0.25	COMP	48		P		HSM. SLIPS, TRIPS & FALLS, PU & RABBITING TBG
	7:15 - 17:00	9.75	COMP	31	I	P		MIRU, SPOT EQUIP, ND WH, NU BOP, RU FLOOR & TBG EQUIP, SPOT TBG TRAILER, INSTAL HAND RAILS ON TRAILER, P/U 3 7/8" BIT, POBS, XN S/N, P/U TBG, REMOVE THREAD PROTECTORS, TALLY & DRIFT L-80 TBG, SURFACE CSG VALVE OPEN & LOCKED, SWI, SDFN.
3/20/2012	7:00 - 7:15	0.25	COMP	48		P		HSM, SLIPS, TRIPS & FALLS, TRIPPING & PRESS TEST
	7:15 - 14:00	6.75	COMP	31	I	P		PREP TO POOH, POOH, RD FLOOR & TBG EQUIP, ND BOP, NU FV, RU FLOOR.
	14:00 - 16:00	2.00	COMP	33	D	P		MIRU B & C QUICK TEST, PRESS TEST FRAC VALVE'S, SURFACE CSG VALVE OPEN & LOCKED. FILL SURFACE CSG & 4 1/2" CSG. INSTALL HANGER IN TBG HEAD & PRESS TEST FRAC VALVE'S TO 9,000 PSI FOR 10 MIN, TEST GOOD, NO VISIBLE LEAKS, 4 1/2" CSG HAS ALREADY BEEN TESTED 3/16/2012. NO COMMUNICATION WITH SURFACE CSG, RDMO B & C QUICK TEST. MIRU JW WIRELINE, PERF STG 1) PU 3 1/8 EXP GUN, 23 GRM, .36 HOLE SIZE, 90 & 120 DEG PHASING, RIH PERF AS PER DESIGN, POOH, DRAIN & WINTERIZE EQUIP, SWI.
3/21/2012	7:00 - 7:15	0.25	COMP	48		P		MIRU SUPERIOR, PREP TO FRAC IN AM, SDFN. HSM, SLIPS, TRIPS & FALLS, PRESS & WIRELINE

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 920-20B		Spud Date: 2/4/2012	
Project: UTAH-UINTAH		Site: NBU 920-20B	Rig Name No: GWS 1/1
Event: COMPLETION		Start Date: 3/16/2012	End Date: 3/22/2012
Active Datum: RKB @4,780.01ft (above Mean Sea Level)		UWI: NW/NE/O/9/S/20/E/20/O/0/26/PM/N/1229/E/O/1580/O/O	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	7:15 - 13:00	5.75	COMP	36	E	P		<p>PRIME UP PUMPS & PRESS TEST LINES TO 9,300 PSI, LOST 230 PSI, NO VISIBLE LEAKS, MANUAL POPOFF SET @ 8,800 PSI, SURFACE CSG VALVE OPEN & LOCKED.</p> <p>FRAC STG 1) WHP 1,885 PSI, BRK 4,350 PSI @ 4.0 BPM, ISIP 3,970 PSI, FG .78. CALC PERFS OPEN INJ RATE 50.2 BPM @ 7,650 PSI = 19/24 HOLES OPEN 81%. ISIP 3,969 PSI, FG .78, NPI -1 PSI. MP 8,280 PSI, MR 54 BPM, AP 6,837 PSI, AR 51.9 BPM, PUMPED 30/50 PRIME PLUS SAND. SWI, X-OVER FOR WL.</p> <p>PERF STG 2) PU 4 1/2" BEAR CLAW 10K CBP & 3 1/8 EXP GUN, 23 GRM, .36 HOLE SIZE. 90 DEG PHASING, RIH SET 10K CBP @ 11,519' P/U PERF AS PER DESIGN, POOH, X-OVER FOR FRAC CREW.</p> <p>FRAC STG 2) WHP 3,715 PSI, BRK 4,358 PSI @ 3.5 BPM, ISIP 3,875 PSI, FG .78. CALC PERFS OPEN INJ RATE 47.9 BPM @ 6.281 PSI = 24/24 HOLES OPEN 100%. ISIP 4,202 PSI, FG .80, NPI 327 PSI. MP 7,169 PSI, MR 52.6 BPM, AP 6,568 PSI, AR 50.6 BPM, PUMPED 30/50 PRIME PLUS SAND. SWI, X-OVER FOR WL.</p> <p>PU 4 1/2" BEAR CLAW 8K CBP, RIH & SET TOP KILL @ 11,412', POOH, RD SUPERIOR & JW WIRELINE.</p> <p>TOTAL SAND = 182,256 LBS TOTAL CLFL = 8,292 BBLS BIOCIDE = 72 GALLONS SCALE = 375 GALLONS</p>
	13:00 - 17:00	4.00	COMP	31	I	P		<p>RD FLOOR, ND FV, NU BOP, RU FLOOR & TBG EQUIP, PU 3 7/8" BIT, POBS, XN S/N, RIH W/ TBG, SVM, DRAIN & WINTERIZE EQUIP, D/O PLUGS IN AM, SDFN.</p>
3/22/2012	7:00 - 7:15	0.25	COMP	48		P		<p>HSM, SLIPS, TRIPS & FALLS, D/O PLUGS LANDING TBG</p>

US ROCKIES REGION
Operation Summary Report

Well: NBU 920-20B		Spud Date: 2/4/2012	
Project: UTAH-UINTAH		Site: NBU 920-20B	Rig Name No: GWS 1/1
Event: COMPLETION		Start Date: 3/16/2012	End Date: 3/22/2012
Active Datum: RKB @4,780.01ft (above Mean Sea Level)		UWI: NW/NE/0/9/S/20/E/20/0/0/26/PM/N/1229/E/0/1580/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	7:15 - 15:00	7.75	COMP	44	C	P		<p>RU P/S, FILL TBG BREAK CIRC, P/T BOP TO 4,500 PSI W/ RIG PUMP, TEST GOOD NO VISIBLE LEAKS, D/O PLUGS, SURFACE CSG VALVE OPEN & LOCKED.</p> <p>C/O 0' SAND, TAG 1ST PLUG @ 11,412' DRL PLUG IN 20 MIN. 2,000 PSI INCREASE RIH, CSG PRESS 400 PSI.</p> <p>C/O 20' SAND, TAG 2ND PLUG @ 11,519' DRL PLUG IN 15 MIN. 700 PSI INCREASE RIH, CSG PRESS 500 PSI.</p> <p>BEAR CLAW PLUGS, SLIPS OFF PLUGS KEPT HANGING UP TRYING TO GO IN HOLE, PLUGGED FLOWLINE 5 TIMES W/ PLUG PARTS & BROKEN SLIP PIECES.</p> <p>PBTD @ 11,844', BTM PERF @ 11,669', RIH TAGGED @ 11,1690', C/O OUT TO 11,819, 150' PAST BTM PERF W/ 372 JTS 2 3/8" L-80 TBG, LD 13 JTS, PU & STRIP IN TBG HANGER & LAND TBG W/ 359 JTS 2 3/8" L-80, EOT 11,405.97'.</p> <p>RD POWER SWIVEL, FLOOR & TBG EQUIP, ND BOPS, NU WH, DROP BALL TO SHEAR OFF BIT W/ 4,800 PSI, LET BIT FALL FOR 20 MIN. P/T FLOW LINE FROM WH TO HAL 9000 TO 4,500 PSI, W/ RIG PUMP, TEST GOOD, NO VISIBLE LEAKS.</p> <p>TURN OVER TO FLOW BACK CREW. RD TO MOVE TO LOVE 1121-8L IN AM, LOCATION NOT READY TO RIG UP ON, SDFN.</p> <p>KB= 18' 4 1/16" WEATHERFORD HANGER= .83' TBG DELIVERED 377 JTS 359 JTS 2 3/8" L-80 = 11,384.94' TBG USED 359 JTS POBS= 2.20' TBG RETURNED 18 JTS EOT @ 11,405.97' 1 JT W/ BAD THREADS</p> <p>TWTR= 8,292 BBLS TWR= 2,850 BBLS TWLTR= 5,442 BBLS</p>
	13:30 -		COMP	50				<p>WELL TURNED TO SALES AT 1330 HR ON 3/22/2012 - 360 MCFD, 2880 BWP, FCP 3300#, FTP 2850#, 20/64 CK</p>
3/24/2012	7:00 -		PROD	50				<p>WELL IP'D ON 3/24/12 - 1243 MCFD, 0 BOPD, 250 BWP, CP 1600#, FTP 550#, CK 20/64", LP 70#, 24 HRS</p>

1 General

1.1 Customer Information

Company	US ROCKIES REGION
Representative	
Address	

1.2 Well Information

Well	NBU 920-20B	Wellbore No.	OH
Well Name	NBU 920-20B	Common Name	NBU 920-20B
Project	UTAH-UINTAH	Site	NBU 920-20B
Vertical Section	0.00 (°)	North Reference	True
Azimuth		Origin E/W	
Origin N/S		UWI	NW/NE/0/9/S/20/E/20/0/0/26/PM/N/1229/E/0/158 0/0/0
Spud Date	2/4/2012	Active Datum	RKB @4,780.01ft (above Mean Sea Level)

2 Survey Name

2.1 Survey Name: Survey #1

Survey Name	Survey #1	Company	WEATHERFORD
Started	2/3/2012	Ended	
Tool Name	MWD	Engineer	Anadarko Employee

2.1.1 Tie On Point

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)
14.00	0.00	0.00	14.00	0.00	0.00

2.1.2 Survey Stations

Date	Type	MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Build (°/100ft)	Turn (°/100ft)	TFace (°)
2/3/2012	Tie On	14.00	0.00	0.00	14.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/4/2012	NORMAL	182.00	0.93	117.10	181.99	-0.62	1.21	-0.62	0.55	0.55	0.00	117.10
	NORMAL	265.00	1.02	185.13	264.98	-1.66	1.75	-1.66	1.32	0.11	81.96	120.10
	NORMAL	354.00	1.49	255.57	353.97	-2.74	0.56	-2.74	1.68	0.53	79.15	110.36
	NORMAL	444.00	1.94	283.36	443.93	-2.68	-2.06	-2.68	1.04	0.50	30.88	75.95
	NORMAL	534.00	2.25	283.74	533.87	-1.91	-5.26	-1.91	0.34	0.34	0.42	2.76
	NORMAL	624.00	2.50	296.74	623.79	-0.61	-8.73	-0.61	0.66	0.28	14.44	71.69
	NORMAL	714.00	2.50	316.99	713.71	1.71	-11.82	1.71	0.98	0.00	22.50	100.12
	NORMAL	804.00	2.75	334.74	803.61	5.10	-14.08	5.10	0.94	0.28	19.72	81.90
	NORMAL	894.00	3.06	323.99	893.50	9.00	-16.41	9.00	0.69	0.34	-11.94	-65.80
	NORMAL	984.00	2.63	318.86	983.39	12.49	-19.18	12.49	0.55	-0.48	-5.70	-151.91
	NORMAL	1,074.00	2.13	331.11	1,073.31	15.51	-21.35	15.51	0.79	-0.56	13.61	140.52
	NORMAL	1,164.00	2.19	351.61	1,163.25	18.68	-22.41	18.68	0.86	0.07	22.78	95.85
	NORMAL	1,254.00	2.06	357.49	1,253.19	22.00	-22.73	22.00	0.28	-0.14	6.53	123.72
	NORMAL	1,344.00	1.69	359.86	1,343.14	24.94	-22.81	24.94	0.42	-0.41	2.63	169.35
	NORMAL	1,434.00	1.56	0.24	1,433.10	27.49	-22.80	27.49	0.14	-0.14	0.42	175.45
	NORMAL	1,524.00	1.31	357.36	1,523.08	29.74	-22.85	29.74	0.29	-0.28	-3.20	-165.34
	NORMAL	1,614.00	0.94	346.99	1,613.06	31.49	-23.06	31.49	0.47	-0.41	-11.52	-156.29
	NORMAL	1,704.00	0.94	335.86	1,703.05	32.88	-23.53	32.88	0.20	0.00	-12.37	-95.56

2.1.2 Survey Stations (Continued)

Date	Type	MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Build (°/100ft)	Turn (°/100ft)	TFace (°)
2/4/2012	NORMAL	1,854.00	0.81	343.86	1,853.03	35.03	-24.33	35.03	0.12	-0.09	5.33	140.73
	NORMAL	1,884.00	0.81	349.99	1,883.03	35.44	-24.42	35.44	0.29	0.00	20.43	93.06
	NORMAL	1,974.00	0.69	348.69	1,973.02	36.60	-24.64	36.60	0.13	-0.13	-1.44	-172.58
2/5/2012	NORMAL	2,064.00	1.19	327.11	2,063.01	37.91	-25.25	37.91	0.67	0.56	-23.98	-46.41
	NORMAL	2,154.00	1.31	331.36	2,152.99	39.60	-26.25	39.60	0.17	0.13	4.72	39.83
	NORMAL	2,244.00	1.31	335.74	2,242.96	41.44	-27.17	41.44	0.11	0.00	4.87	92.19
	NORMAL	2,334.00	1.00	331.11	2,332.94	43.07	-27.97	43.07	0.36	-0.34	-5.14	-165.55
	NORMAL	2,424.00	0.69	317.36	2,422.93	44.15	-28.72	44.15	0.41	-0.34	-15.28	-153.56
	NORMAL	2,514.01	0.38	310.61	2,512.93	44.75	-29.31	44.75	0.35	-0.34	-7.50	-171.87
	NORMAL	2,604.01	0.38	311.24	2,602.93	45.14	-29.76	45.14	0.00	0.00	0.70	90.31
	NORMAL	2,694.01	0.31	312.36	2,692.93	45.50	-30.17	45.50	0.08	-0.08	1.24	175.06
	NORMAL	2,784.01	0.25	269.49	2,782.93	45.66	-30.54	45.66	0.24	-0.07	-47.63	-126.70
	NORMAL	2,888.01	0.23	238.61	2,886.93	45.55	-30.95	45.55	0.12	-0.02	-29.69	-114.02

2.2 Survey Name: Survey #2

Survey Name	Survey #2	Company	WEATHERFORD
Started	2/19/2012	Ended	
Tool Name	MWD	Engineer	Anadarko Employee

2.2.1 Tie On Point

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)
14.00	0.00	183.35	14.00	0.00	0.00

2.2.2 Survey Stations

Date	Type	MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Build (°/100ft)	Turn (°/100ft)	TFace (°)
2/19/2012	NORMAL	2,936.01	0.21	183.35	2,936.01	45.38	-30.91	45.38	0.43	-0.04	-115.12	-122.59
	NORMAL	3,031.01	0.26	152.82	3,031.01	45.02	-30.82	45.02	0.14	0.05	-32.14	-83.97
	NORMAL	3,126.01	0.34	150.87	3,126.00	44.58	-30.58	44.58	0.08	0.08	-2.05	-8.25
	NORMAL	3,221.01	0.31	139.49	3,221.00	44.14	-30.28	44.14	0.07	-0.03	-11.98	-120.54
	NORMAL	3,317.01	0.31	152.61	3,317.00	43.71	-29.99	43.71	0.07	0.00	13.67	96.56
	NORMAL	3,412.01	0.44	139.11	3,412.00	43.20	-29.63	43.20	0.16	0.14	-14.21	-41.08
	NORMAL	3,508.01	0.50	128.86	3,508.00	42.66	-29.07	42.66	0.11	0.06	-10.68	-59.69
	NORMAL	3,603.01	0.13	287.61	3,603.00	42.44	-28.85	42.44	0.66	-0.39	167.10	175.66
	NORMAL	3,699.01	0.13	285.61	3,699.00	42.50	-29.06	42.50	0.00	0.00	-2.08	-91.00
	NORMAL	3,794.01	0.19	315.11	3,794.00	42.64	-29.27	42.64	0.11	0.06	31.05	69.29
	NORMAL	3,889.01	0.06	48.24	3,889.00	42.78	-29.34	42.78	0.21	-0.14	98.03	162.78
	NORMAL	3,984.01	0.13	101.11	3,984.00	42.80	-29.20	42.80	0.11	0.07	55.65	79.89
	NORMAL	4,080.01	0.25	123.24	4,080.00	42.66	-28.92	42.66	0.14	0.12	23.05	42.83
	NORMAL	4,176.01	0.38	128.49	4,175.99	42.35	-28.50	42.35	0.14	0.14	5.47	15.15
	NORMAL	4,271.01	0.44	133.24	4,270.99	41.90	-27.98	41.90	0.07	0.06	5.00	31.92
	NORMAL	4,366.01	0.44	135.61	4,365.99	41.39	-27.46	41.39	0.02	0.00	2.49	91.18
	NORMAL	4,462.01	0.50	134.74	4,461.99	40.83	-26.91	40.83	0.06	0.06	-0.91	-7.22
	NORMAL	4,557.01	0.50	138.99	4,556.98	40.23	-26.34	40.23	0.04	0.00	4.47	92.12
	NORMAL	4,652.01	0.50	136.24	4,651.98	39.62	-25.78	39.62	0.03	0.00	-2.89	-91.37
	NORMAL	4,747.01	1.00	347.99	4,746.98	40.13	-25.67	40.13	1.53	0.53	-156.05	-158.71
	NORMAL	4,843.01	1.31	346.11	4,842.96	42.01	-26.10	42.01	0.33	0.32	-1.96	-7.91
	NORMAL	4,937.01	1.13	355.49	4,936.93	43.98	-26.44	43.98	0.29	-0.19	9.98	136.65
	NORMAL	5,033.01	1.13	7.36	5,032.92	45.86	-26.39	45.86	0.24	0.00	12.36	95.93
	NORMAL	5,128.01	0.94	16.24	5,127.90	47.54	-26.05	47.54	0.26	-0.20	9.35	144.21
	NORMAL	5,223.01	0.88	26.61	5,222.89	48.94	-25.51	48.94	0.18	-0.06	10.92	115.15
	NORMAL	5,319.01	0.81	30.86	5,318.88	50.18	-24.83	50.18	0.10	-0.07	4.43	140.27

2.2.2 Survey Stations (Continued)

Date	Type	MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (%/100ft)	Build (%/100ft)	Turn (%/100ft)	TFace (°)	
2/19/2012	NORMAL	5,414.01	0.88	30.61	5,413.87	51.39	-24.11	51.39	0.07	0.07	-0.26	-3.14	
	NORMAL	5,509.01	1.06	26.36	5,508.86	52.80	-23.35	52.80	0.20	0.19	-4.47	-23.92	
	NORMAL	5,605.01	0.88	32.11	5,604.84	54.22	-22.56	54.22	0.21	-0.19	5.99	154.45	
2/19/2012	Tie On	2,888.01	0.23	238.61	2,888.01	45.52	-30.82	45.52	0.00	0.00	0.00	0.00	
2/20/2012	NORMAL	5,700.01	0.81	34.24	5,699.83	55.39	-21.80	55.39	0.08	-0.07	2.24	156.89	
	NORMAL	5,795.01	0.88	31.36	5,794.82	56.57	-21.04	56.57	0.09	0.07	-3.03	-32.69	
	NORMAL	5,891.01	0.50	5.24	5,890.80	57.62	-20.62	57.62	0.50	-0.40	-27.21	-152.95	
	NORMAL	5,986.01	1.69	328.99	5,985.80	59.23	-21.30	59.23	1.39	1.25	-38.16	-49.19	
	NORMAL	6,081.01	1.81	332.99	6,080.75	61.77	-22.71	61.77	0.18	0.13	4.21	47.52	
	NORMAL	6,177.01	1.81	338.61	6,176.71	64.53	-23.95	64.53	0.18	0.00	5.85	92.81	
	NORMAL	6,272.01	1.38	313.74	6,271.67	66.72	-25.32	66.72	0.85	-0.45	-26.18	-133.87	
	NORMAL	6,368.01	1.19	312.86	6,367.65	68.20	-26.89	68.20	0.20	-0.20	-0.92	-174.51	
	NORMAL	6,463.01	1.13	310.49	6,462.63	69.48	-28.32	69.48	0.08	-0.06	-2.49	-142.53	
	2/21/2012	NORMAL	6,559.01	1.00	312.86	6,558.61	70.66	-29.66	70.66	0.14	-0.14	2.47	162.46
NORMAL		6,654.01	1.63	285.49	6,653.59	71.58	-31.57	71.58	0.92	0.66	-28.81	-59.15	
NORMAL		6,749.01	1.69	280.11	6,748.55	72.19	-34.25	72.19	0.18	0.06	-5.66	-71.65	
NORMAL		6,845.01	1.25	288.99	6,844.51	72.78	-36.63	72.78	0.51	-0.46	9.25	157.02	
NORMAL		6,940.01	1.00	288.11	6,939.50	73.38	-38.40	73.38	0.26	-0.26	-0.93	-176.49	
NORMAL		7,036.01	0.75	276.74	7,035.49	73.71	-39.82	73.71	0.32	-0.26	-11.84	-150.81	
NORMAL		7,131.01	0.63	286.49	7,130.48	73.93	-40.94	73.93	0.18	-0.13	10.26	140.43	
NORMAL		7,226.01	0.44	285.11	7,225.47	74.17	-41.79	74.17	0.20	-0.20	-1.45	-176.81	
NORMAL		7,321.01	0.31	257.24	7,320.47	74.21	-42.39	74.21	0.23	-0.14	-29.34	-138.87	
NORMAL		7,417.01	0.19	262.86	7,416.47	74.14	-42.80	74.14	0.13	-0.12	5.85	171.25	
NORMAL		7,512.02	0.13	310.36	7,511.47	74.19	-43.04	74.19	0.15	-0.06	50.00	136.83	
NORMAL		7,607.02	0.19	297.99	7,606.47	74.33	-43.26	74.33	0.07	0.06	-13.02	-36.21	
NORMAL		7,702.02	0.25	99.11	7,701.47	74.37	-43.20	74.37	0.46	0.06	169.60	169.26	
NORMAL		7,798.02	0.88	133.99	7,797.47	73.83	-42.46	73.83	0.72	0.66	36.33	46.84	
NORMAL		7,893.02	0.81	135.40	7,892.46	72.84	-41.47	72.84	0.08	-0.07	1.48	164.16	
NORMAL		7,988.02	0.81	123.74	7,987.45	71.99	-40.44	71.99	0.17	0.00	-12.27	-95.83	
NORMAL		8,084.02	0.81	121.11	8,083.44	71.26	-39.29	71.26	0.04	0.00	-2.74	-91.31	
NORMAL		8,179.02	0.94	130.11	8,178.43	70.41	-38.12	70.41	0.20	0.14	9.47	51.15	
2/22/2012		NORMAL	8,179.02	0.94	130.11	8,178.43	70.41	-38.12	70.41	0.00	0.00	0.00	0.00
		NORMAL	8,275.02	1.00	122.61	8,274.41	69.45	-36.81	69.45	0.15	0.06	-7.81	-68.49
	NORMAL	8,370.02	1.06	123.11	8,369.40	68.53	-35.38	68.53	0.06	0.06	0.53	8.77	
	NORMAL	8,465.02	1.00	117.99	8,464.38	67.66	-33.91	67.66	0.12	-0.06	-5.39	-125.64	
	NORMAL	8,561.02	1.00	119.24	8,560.37	66.86	-32.44	66.86	0.02	0.00	1.30	90.62	
	NORMAL	8,655.02	1.06	104.86	8,654.35	66.23	-30.88	66.23	0.28	0.06	-15.30	-84.19	
	NORMAL	8,750.02	1.19	104.74	8,749.34	65.76	-29.08	65.76	0.14	0.14	-0.13	-1.10	
	NORMAL	8,846.02	1.38	107.11	8,845.31	65.16	-27.01	65.16	0.21	0.20	2.47	18.81	
	NORMAL	8,940.02	1.06	128.49	8,939.29	64.29	-25.25	64.29	0.59	-0.34	22.74	135.48	
	NORMAL	9,035.02	1.25	137.99	9,034.27	62.97	-23.87	62.97	0.28	0.20	10.00	50.04	
	NORMAL	9,130.02	1.50	140.61	9,129.24	61.24	-22.38	61.24	0.27	0.26	2.76	15.43	
	NORMAL	9,226.02	1.38	110.74	9,225.22	59.86	-20.51	59.86	0.78	-0.12	-31.11	-113.81	
	2/23/2012	NORMAL	9,322.02	0.88	123.61	9,321.20	59.04	-18.81	59.04	0.58	-0.52	13.41	159.42
		NORMAL	9,416.02	0.63	110.61	9,415.19	58.46	-17.73	58.46	0.32	-0.27	-13.83	-151.97
		NORMAL	9,512.02	1.00	104.74	9,511.18	58.06	-16.42	58.06	0.39	0.39	-6.11	-15.66
NORMAL		9,607.02	0.81	74.36	9,606.17	58.03	-14.97	58.03	0.54	-0.20	-31.98	-126.33	
NORMAL		9,703.02	0.94	78.49	9,702.16	58.37	-13.55	58.37	0.15	0.14	4.30	27.95	
NORMAL		9,798.02	1.00	77.49	9,797.14	58.71	-11.97	58.71	0.07	0.06	-1.05	-16.26	
NORMAL		9,893.02	0.94	79.36	9,892.13	59.03	-10.40	59.03	0.07	-0.06	1.97	153.12	
NORMAL		9,989.02	0.88	95.74	9,988.12	59.10	-8.89	59.10	0.28	-0.06	17.06	111.09	
NORMAL		10,083.02	0.88	115.99	10,082.11	58.71	-7.53	58.71	0.33	0.00	21.54	100.12	
NORMAL		10,179.02	1.13	120.11	10,178.09	57.92	-6.04	57.92	0.27	0.26	4.29	18.19	
NORMAL		10,273.02	1.44	112.11	10,272.07	57.01	-4.15	57.01	0.38	0.33	-8.51	-34.10	
2/24/2012		NORMAL	10,368.02	1.75	110.36	10,367.03	56.05	-1.68	56.05	0.33	0.33	-1.84	-9.81
	NORMAL	10,463.02	1.88	106.74	10,461.99	55.10	1.17	55.10	0.18	0.14	-3.81	-43.23	

2.2.2 Survey Stations (Continued)

Date	Type	MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	EW (ft)	V. Sec (ft)	DLeg (°/100ft)	Build (°/100ft)	Turn (°/100ft)	TFace (°)
2/24/2012	NORMAL	10,558.02	2.00	104.36	10,556.93	54.24	4.27	54.24	0.15	0.13	-2.51	-35.07
2/26/2012	NORMAL	10,654.02	2.13	103.11	10,652.87	53.42	7.63	53.42	0.14	0.14	-1.30	-19.74
	NORMAL	10,749.02	2.25	98.99	10,747.80	52.73	11.19	52.73	0.21	0.13	-4.34	-54.76
	NORMAL	10,844.02	2.31	95.24	10,842.73	52.26	14.94	52.26	0.17	0.06	-3.95	-69.97
	NORMAL	10,939.02	2.38	86.36	10,937.65	52.21	18.81	52.21	0.39	0.07	-9.35	-83.55
	NORMAL	11,034.02	2.31	89.74	11,032.57	52.35	22.70	52.35	0.16	-0.07	3.56	118.53
	NORMAL	11,128.02	2.00	99.86	11,126.50	52.07	26.21	52.07	0.52	-0.33	10.77	134.15
2/27/2012	NORMAL	11,224.02	1.81	98.36	11,222.45	51.57	29.36	51.57	0.20	-0.20	-1.56	-166.04
	NORMAL	11,318.02	1.75	101.36	11,316.40	51.07	32.23	51.07	0.12	-0.06	3.19	124.27
	NORMAL	11,413.02	1.63	108.11	11,411.36	50.36	34.94	50.36	0.24	-0.13	7.11	124.43
	NORMAL	11,508.02	1.69	111.24	11,506.32	49.43	37.53	49.43	0.11	0.06	3.29	58.08
2/29/2012	NORMAL	11,889.02	1.69	111.24	11,887.16	45.36	48.00	45.36	0.00	0.00	0.00	0.00

Alexis Huefner - Re: NEWFIELD SPUD NOTICE Sulser 10-30-3-2W

From: Rachel Medina
To: Branden Arnold
Date: 5/18/2012 9:05 AM
Subject: Re: NEWFIELD SPUD NOTICE Sulser 10-30-3-2W
CC: Alexis Huefner

Hi Branden,

Please have Newfield replace notifications that are addressed to myself to now be addressed to Alexis Huefner. Alexis, will working with Carol Daniels with the regulatory work. The Division is excited to have Alexis as our new employee.

alexisheufner@utah.gov

Thanks!
Rachel

>>> Branden Arnold <barnold@newfield.com> 5/18/2012 6:55 AM >>>

Operator: Newfield Production Company
Well Name: Sulser 10-30-3-2W
Rig: Ross # 26
Legals: NW/SE Sec. 30 T3S R2W
Lease #: Patented
API #: 43-013-51387
Contact: Branden Arnold

Est. spud time: 9:00 AM 5/18/12
Est. run 8-5/8" csg: 3:00 PM 5/18/12

Branden Arnold
Foreman.Drilling
Office: 435-646-4804
Mobile: 435-401-0223



STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-144869A
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SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE 7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
--	---

1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: NBU 920-20B
------------------------------------	--

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047405380000
---	---

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6514	9. FIELD and POOL or WILDCAT: NATURAL BUTTES
---	--------------------------------------	--

4. LOCATION OF WELL FOOTAGES AT SURFACE: 1229 FNL 1580 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNE Section: 20 Township: 09.0S Range: 20.0E Meridian: S	COUNTY: UINTAH STATE: UTAH
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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: 11/9/2012 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input checked="" type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>

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

The operator requests approval to abandon the existing Mesaverde formation. The operator plans to recomplete the well in the future, and will submit a sundry for this subsequent work. Please see the attached procedure. Thank you.

Accepted by the Utah Division of Oil, Gas and Mining

Date: November 15, 2012

By: *Derek Quist*

NAME (PLEASE PRINT) Jaime Scharnowske	PHONE NUMBER 720 929-6304	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 11/9/2012	



Greater Natural Buttes Unit

NBU 920-20B

PLUGBACK PROCEDURE BLACKHAWK FORMATION

DATE: 11/06/2012
AFE#: 2029057
API#: 4304740538
USER ID: WIU473 (Frac Invoices Only)

COMPLETIONS ENGINEER: Kevin Lammers, Denver, CO
(720) 929-6109 (Office)
(713) 829-7143 (Cell)

REMEMBER SAFETY FIRST!

Name: NBU 920-20B
Location: NW NE Sec 20 T9S R20E
LAT: 40.02469 **LONG: -109.68657** **COORDINATE: NAD27 (Surface Location)**
Uintah County, UT
Date: 11/6/2012

ELEVATIONS: 4762' GL 4780' KB *Frac Registry TVD: 11887'*

TOTAL DEPTH: 11889' **PBTD:** 11844'
SURFACE CASING: 8 5/8", 28# J-55 LT&C @ 2868'
PRODUCTION CASING: 4 1/2", 11.6#, P-110 DQX LTC @ 4986'
4 1/2", 11.6#, P-110 LTC @ 4986 - 11889'
Marker Joint **4931-4945, 8378-8400, and 11024-11044'**

TUBULAR PROPERTIES:

	BURST (psi)	COLLAPSE (psi)	DRIFT DIA. (in.)	CAPACITIES	
				(bbl/ft)	(gal/ft)
2 3/8" 4.7# N-80 tbg	11,200	11,780	1.901"	0.00387	0.1624
4 1/2" 11.6# I-80 (See above)	7780	6350	3.875"	0.0155	0.6528
4 1/2" 11.6# P-110	10691	7580	3.875"	0.0155	0.6528
2 3/8" by 4 1/2" Annulus				0.0101	0.4227

TOPS:

1710' Green River Top
1874' Bird's Nest Top
2354' Mahogany Top
5190' Wasatch Top
8661' Mesaverde Top

BOTTOMS:

8661' Wasatch Bottom
11889' Mesaverde Bottom (TD)

T.O.C. @ 1950'

Hydraulic Isolation @ 2385' Schlumberger CBL - 3/5/12

GENERAL:

- Procedure calls for 2 CIBP's (**10,000 psi**) .
- Originally completed on 3/21/12
- Tubing landed @ 11406'
- **Plug calculations are based on Class G cement with No Bentonite. Adjust the cement slurry volumes if a different cement type will be used.**

Existing Perforations (from OpenWells):

<u>PERFORATIONS</u>							
<u>Formation</u>	<u>Zone</u>	<u>Top</u>	<u>Btm</u>	<u>spf</u>	<u>Shots</u>	<u>Date</u>	<u>Reason</u>
MESAVERDE	BLACKHAWK	11462	11464	4	8	03/19/2012	PRODUCTION
MESAVERDE	BLACKHAWK	11476	11478	4	8	03/19/2012	PRODUCTION
MESAVERDE	BLACKHAWK	11487	11489	4	8	03/19/2012	PRODUCTION
MESAVERDE	BLACKHAWK	11560	11562	3	6	03/19/2012	PRODUCTION
MESAVERDE	BLACKHAWK	11590	11592	3	6	03/19/2012	PRODUCTION
MESAVERDE	BLACKHAWK	11602	11604	4	8	03/19/2012	PRODUCTION
MESAVERDE	BLACKHAWK	11668	11669	4	4	03/19/2012	PRODUCTION

Relevant History:

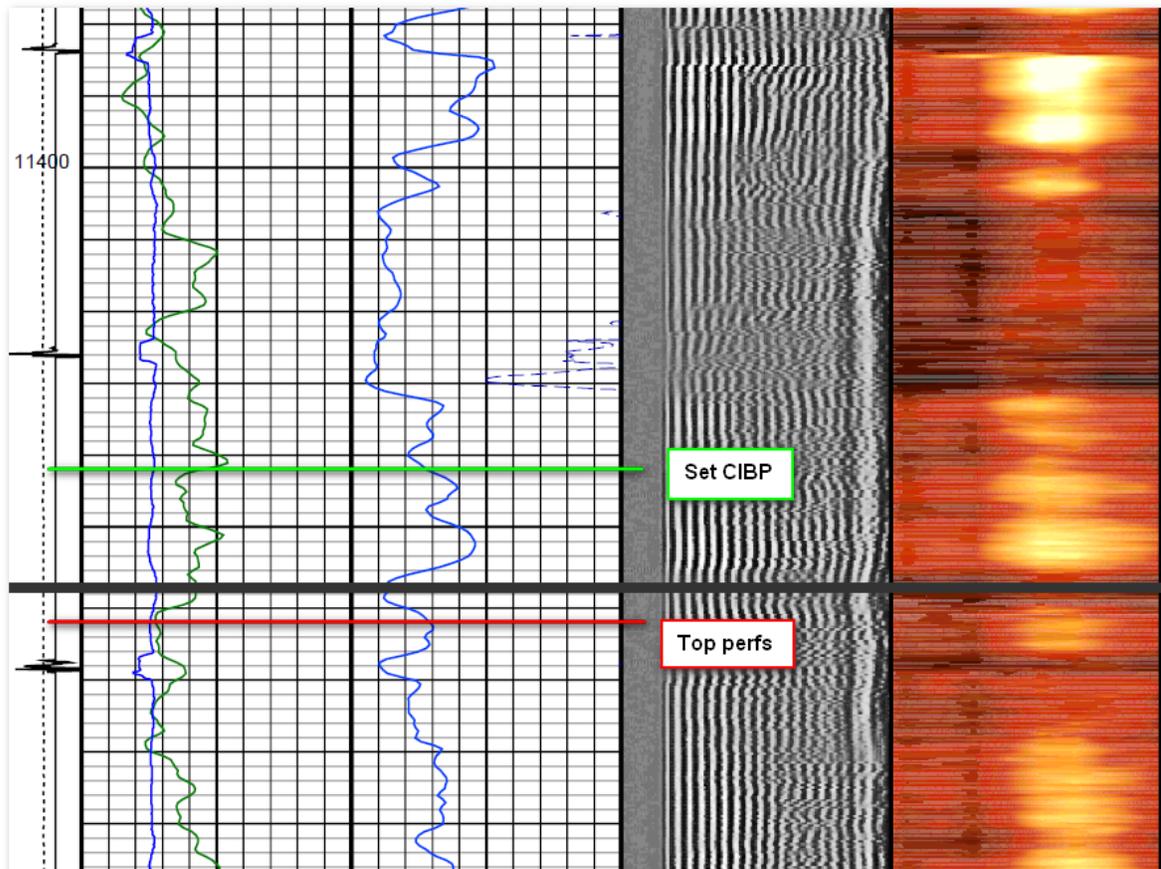
- 3/2/2012: New drill, cemented w/ Class G Premium Lite (Lead) and Class G 50/50 POZ-Mix (Tail).
- 3/21/2012: Completed in Blackhawk Formation (Discrete Blackhawk test, see perfs above).
- 10/15/2012: Well had been logged off for a few weeks due to high water production. During this time, casing pressure built up to 3700 psi. Cycling these high pressures on the casing has the potential to result in a failure like what occurred on the 35L1CS which resulted in a 600 BBL spill. According to the well P&L's the EBITDA for this well is -\$38,000 YTD. Leaving this well until next year to be recompleted will result in a larger negative cash flow as well as potential EH&S concern.

H2S History:

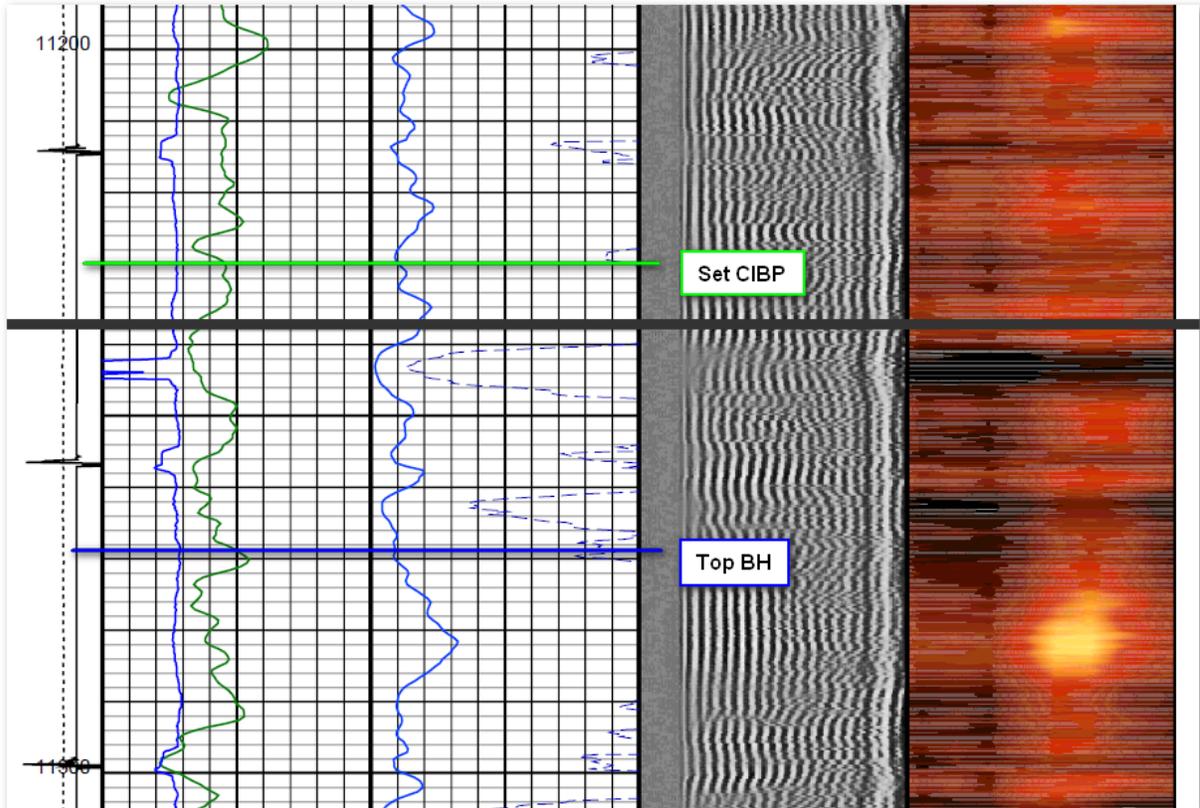
Production Date	Gas (avg mcf/day)	Water (avg bbl/day)	Oil (avg bbl/day)	LGR (bbl/Mmcf)	Max H2S Seperator (ppm)
9/30/2012	69.63	45.37	0.20	654.38	
8/31/2012	79.97	54.13	0.35	681.32	
7/31/2012	113.55	76.29	0.23	673.86	
6/30/2012	152.93	81.07	0.27	531.82	
5/31/2012	211.71	114.19	0.77	543.04	0.00
4/30/2012	349.63	158.07	0.77	454.29	
3/31/2012	248.81	10.61	0.00	42.66	

PROCEDURE:

1. MIRU. Control well with recycled water and biocide as required. ND WH, NU and test BOP.
2. POOH w/tubing.
3. **PLUG - ISOLATE BLACKHAWK PERFORATIONS (11462' - 11669')**: RIH W/ 4 ½' CIBP. SET @ ~ 11442' (~20' above top perfs). Release CIBP, PUH 10', break circulation with fresh water. Pressure test casing to 6200 psi. Inform engineering if it doesn't test. Displace a minimum of **7 SX/ 0.8 BBL/ 4.4 CUFT** of cement on top of plug. PUH above TOC (~11392', equivalent to 50' COVERAGE). REVERSE CIRCULATE W/ TREATED FRESH WATER.



- 4. PLUG #2 - PROTECT TOP OF BLACKHAWK (11269')**: RIH W/ 4 ½" CIBP. SET @ ~11230' (~39' above top perfs). Release CIBP, PUH 10', break circulation with fresh water. Displace a minimum of **7 SX/ 0.8 BBL/ 4.4 CUFT** of cement on top of plug. PUH above TOC (~11180', equivalent to 50' COVERAGE). REVERSE CIRCULATE W/ TREATED FRESH WATER.



- 5. ND BOPs.**

**For design questions, please call
Kevin Lammers, Denver, CO
(720) 929-6109 (Office)
(713) 829-7143 (Cell)**

**For field implementation questions, please call
Jeff Samuels, Vernal, UT
(435)-781-7046 (Office)**

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-144869A
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE 7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: NBU 920-20B
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047405380000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6511 9. FIELD and POOL or WILDCAT: NATURAL BUTTES
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1229 FNL 1580 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNE Section: 20 Township: 09.0S Range: 20.0E 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 checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 3/26/2013 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input checked="" type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>

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

The subject well was recently plugged back to permanently abandon the perforations. The operator requests authorization to recomplete the subject in the Wasatch and Mesaverde formations. Please see the attached procedure.

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

Date: March 28, 2013

By: *Derek Quist*

NAME (PLEASE PRINT) Luke Urban	PHONE NUMBER 720 929-6501	TITLE Regulatory Specialist
SIGNATURE N/A	DATE 3/26/2013	



Greater Natural Buttes Unit

NBU 920-20B RE-COMPLETIONS PROCEDURE

FIELD ID: N/A

DATE: 3/21/13
AFE#:
API#: 4304740538
USER ID: VYI537 (Frac Invoices Only)

COMPLETIONS ENGINEER: **Paul Ryza , Denver, CO**
(720) 929-6915 (Office)
(936) 499-6895 (Cell)

REMEMBER SAFETY FIRST!

Name: NBU 920-20B
Location: NW NE Sec 20 T9S R20E
LAT: 40.02469 **LONG:** -109.68657 **COORDINATE:** NAD83 (Surface Location)
Uintah County, UT
Date: 3/21/13

ELEVATIONS: 4762' GL 4780' KB *Frac Registry TVD: 11887'*

TOTAL DEPTH: 11889' **PBTD:** 11230' (CIBP w/ 7 sks cmt on top)
SURFACE CASING: 8 5/8", 28# J-55 STC @ 2868'
PRODUCTION CASING: 4 1/2", 11.6#, P-110 BTC @ 4986'
4 1/2", 11.6#, P-110 LTC @ 4986-11889'
Marker Joint **4931-4945', 8378-8400' & 11023-11044'**

TUBULAR PROPERTIES:

	BURST (psi)	COLLAPSE (psi)	DRIFT DIA. (in.)	CAPACITIES	
				(bbl./ft)	(gal/ft)
2 3/8" 4.7# L-80 tbg	11,200	11,780	1.901"	0.00387	0.1624
4 1/2" 11.6# I-80 (See above)	7780	6350	3.875"	0.0155	0.6528
4 1/2" 11.6# P-110	10691	7580	3.875"	0.0155	0.6528
2 3/8" by 4 1/2" Annulus				0.0101	0.4227

TOPS:

1710' Green River Top
1874' Bird's Nest Top
2354' Mahogany Top
5190' Wasatch Top
8661' Mesaverde Top
*Based on latest geological interpretation

BOTTOMS:

8661' Wasatch Bottom
11889' Mesaverde Bottom (TD)

T.O.C. @ 1950'

**Based on latest interpretation of CBL

GENERAL NOTES:

- **Please note that:**
 - **All stages on this procedure may or may not be completed due to low frac gradients, timing, or other possible reasons. Total stages completed can be found in the post-job-report.**
 - **CBP depth on this procedure is only to be used as a reference. This depth is subject to change as per field operations and the discretion of the wireline supervisor and field foreman.**
- A minimum of **20** tanks (cleaned lined 500 bbl) of recycled water will be required. Note: Use biocide in tanks and the water needs to be at least 45°F at pump time.
- All perforation depths are from Schlumberger's CBL log dated **3/5/12**.
- **10** fracturing stages required for coverage.
- Hydraulic isolation estimated at **2100'** based upon Schlumberger's CBL dated 3/5/12.
- Procedure calls for **10** CBP's (**8000** psi) .
- Calculate open perforations after each breakdown. If less than 60% of the perforations appear to be open, ball out with 15% HCl.

- **Pump scale inhibitor at 0.5 gpt. Remember to pre-load the casing with scale inhibitor.**
- **This is a NO Clay stabilizer pilot *** Please Do NOT pump Clay Stabilizer *****
- **This is a Reduced Surfactant pilot *** Please pump Surfactant at 0.75 gpt *****
- FR will be pumped at 0.3 gpt for this well. This concentration will be raised or lowered on the job at the discretion of the APC foreman per the well's treating pressure.
- 30/50 mesh Ottawa sand, **Slickwater frac.**
- Maximum surface pressure **7000 psi.**
- **If casing pressure test fails (pressure loss of 1.5% psi or more), retest for 15 minutes. If pressure loss of 1.5% more on second test, notify Denver engineers. Record in Openwells. MIRU with tubing and packer. Isolate leak by pressure testing above and below the packer. RIH and set appropriate casing leak remediation. Re-pressure test to 1000 and 3500 psi for 15 minutes each and to 7000 psi for 30 minutes (specific details on remediation should be documented in OpenWells).**
- Flush volumes are the sum of slick water and acid used during displacement (include scale inhibitor as mentioned above). Stage acid and scale inhibitor if necessary to cover the next perforated interval.
- Call flush at 0 PPG @ inline densimeters. Slow to 5 bbl/min over last 10-20 bbls of flush. Flush to top perf.
- Max Sand Concentration: Mesaverde 1 ppg; Wasatch 2 ppg;
- If distance between plug and top perf of previous stage is less than 50', it is considered to be tight spacing - over flush stage by 5 bbls (from top perf)
- **TIGHT SPACING ON STAGE 1, 2, 3 & 8- OVERFLUSH BY 5 BBLs**
- **If using any chemicals for pickling tubing or H2S Scavenging, have MSDS for all chemicals prior to starting work**

Existing Perforations:

PERFORATIONS						
Formation	Zone	Top	Btm	spf	Shots	Date
MESAVERDE	BLACKHAWK	11462	11464	4	8	03/19/2012
MESAVERDE	BLACKHAWK	11476	11478	4	8	03/19/2012
MESAVERDE	BLACKHAWK	11487	11489	4	8	03/19/2012
MESAVERDE	BLACKHAWK	11560	11562	3	6	03/19/2012
MESAVERDE	BLACKHAWK	11590	11592	3	6	03/19/2012
MESAVERDE	BLACKHAWK	11602	11604	4	8	03/19/2012
MESAVERDE	BLACKHAWK	11668	11669	4	4	03/19/2012

Relevant History:

- 3/21/12: Originally completed in Lower Mesaverde formation (2 stages) with ~ 348,256 gallons of Slickwater, 182,256 lbs of 30/50 Resin coated sand.
- 1/30/13: Well plugged back. CIBPs with cement on top @ 11,442' and 11,230'
- 3/21/13: Tubing Currently Landed @~11,058'

H2S History:

Production Date	Gas (avg mcf/day)	Water (avg bbl/day)	Oil (avg bb/day)	LGR (bb/Mmcf)	Max H2S Seperator (ppm)
3/31/2012	248.77	10.61	0.00	42.66	
4/30/2012	349.63	158.07	0.77	454.29	
5/31/2012	211.71	114.19	0.77	543.04	0.00
6/30/2012	152.93	81.07	0.27	531.82	
7/31/2012	113.55	76.29	0.23	673.86	
8/31/2012	79.97	54.13	0.35	681.32	
9/30/2012	69.63	45.37	0.20	654.38	
10/31/2012	67.84	45.26	0.42	673.32	
11/30/2012	44.10	40.37	0.17	919.12	
12/31/2012	49.68	26.29	0.03	529.87	0.00
1/31/2013	31.71	21.81	0.23	694.81	0.00
2/28/2013	0.00	0.00	0.00	#NA	

PROCEDURE: (If using any chemicals for pickling tubing or H2S Scavenging, have MSDS for all chemicals prior to starting work.)

- MIRU. Control well with recycled water and biocide as required. ND WH, NU BOP's and test.
- TOOH with 2-3/8", 4.7#, J-55 tubing. Visually inspect for scale and consider replacing if needed.
- ND BOPs and NU frac valves Test frac valves and casing to to **7000 psi** for 15 minutes; if pressure test fails contact Denver engineer and see notes above. **Lock OPEN the Braden head valve**. Flow from annulus will be visually monitored throughout stimulation. If release occurs, stimulation will be shut down. Well conditions will be assessed and actions taken as necessary to secure the well. UDOGM will be notified if a release to the annulus occurs.
- Pressure test frac lines to max surface pressure + 1000 psi for 15 minutes. Pressure loss should be less than 10% to be considered acceptable. Check and correct for existing leaks.
- Perf the following with 3-3/8" gun, 23 gm, 0.36"hole:

Zone	From	To	spf	# of shots
MESAVERDE	10404	10405	3	3
MESAVERDE	10522	10524	3	6
MESAVERDE	10580	10582	3	6
MESAVERDE	10592	10594	3	6
- Breakdown perfs and establish injection rate (include scale inhibitor in fluid). Spot 250 gals of 15% HCL and let soak 5-10 min. Fracture as outlined in Stage 1 on attached listing. Under-displace to ~10404' and trickle 250gal 15%HCL w/ scale inhibitor in flush .
NOTE: TIGHT SPACING THIS STAGE, OVERFLUSH BY 5BBLs
- Set 8000 psi CBP at ~10367'. Perf the following 3-3/8" gun, 23 gm, 0.36"hole:

Zone	From	To	spf	# of shots
------	------	----	-----	------------

MESAVERDE	10171	10172	3	3
MESAVERDE	10186	10187	3	3
MESAVERDE	10201	10202	3	3
MESAVERDE	10238	10239	3	3
MESAVERDE	10304	10305	3	3
MESAVERDE	10335	10337	3	6

8. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 2 on attached listing. Under-displace to ~10171' and trickle 250gal 15%HCL w/ scale inhibitor in flush.

NOTE: TIGHT SPACING THIS STAGE, OVERFLUSH BY 5BBLs

9. Set 8000 psi CBP at ~10136'. Perf the following with 3-3/8" gun, 23 gm, 0.36" hole:

Zone	From	To	spf	# of shots
MESAVERDE	9961	9962	3	3
MESAVERDE	9974	9975	3	3
MESAVERDE	9993	9994	3	3
MESAVERDE	10015	10016	3	3
MESAVERDE	10076	10077	3	3
MESAVERDE	10095	10096	3	3
MESAVERDE	10105	10106	3	3

10. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 3 on attached listing. Under-displace to ~9961' and trickle 250gal 15%HCL w/ scale inhibitor in flush.

NOTE: TIGHT SPACING THIS STAGE, OVERFLUSH BY 5BBLs

11. Set 8000 psi CBP at ~9921'. Perf the following with 3-3/8" gun, 23 gm, 0.36" hole:

Zone	From	To	spf	# of shots
MESAVERDE	9795	9796	4	4
MESAVERDE	9863	9864	4	4
MESAVERDE	9873	9875	3	6
MESAVERDE	9889	9891	3	6

12. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 4 on attached listing. Under-displace to ~9795' and trickle 250gal 15%HCL w/ scale inhibitor in flush.

13. Set 8000 psi CBP at ~9487'. Perf the following with 3-3/8" gun, 23 gm, 0.36" hole:

Zone	From	To	spf	# of shots
MESAVERDE	9271	9272	3	3
MESAVERDE	9289	9290	3	3
MESAVERDE	9336	9337	3	3
MESAVERDE	9357	9358	3	3
MESAVERDE	9385	9386	3	3
MESAVERDE	9405	9406	3	3
MESAVERDE	9456	9457	3	3

14. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 5 on attached listing. Under-displace to ~9271' and trickle 250gal 15%HCL w/ scale inhibitor in flush.

15. Set 8000 psi CBP at ~9076'. Perf the following with 3-3/8" gun, 23 gm, 0.36" hole:

Zone	From	To	spf	# of shots
MESAVERDE	8804	8805	3	3

MESAVERDE	8968	8970	3	6
MESAVERDE	9011	9013	3	6
MESAVERDE	9044	9046	3	6

16. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 6 on attached listing. Under-displace to ~8804' and trickle 250gal 15%HCL w/ scale inhibitor in flush.

17. Set 8000 psi CBP at ~8366'. Perf the following with 3-3/8" gun, 23 gm, 0.36" hole:

Zone	From	To	spf	# of shots
WASATCH	8102	8103	4	4
WASATCH	8118	8119	4	4
WASATCH	8211	8213	3	6
WASATCH	8334	8336	3	6

18. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 7 on attached listing. Under-displace to ~8102' and flush only with recycled water.

19. Set 8000 psi CBP at ~7887'. Perf the following with 3-3/8" gun, 23 gm, 0.36" hole:

Zone	From	To	spf	# of shots
WASATCH	7608	7609	4	4
WASATCH	7644	7645	4	4
WASATCH	7799	7801	3	6
WASATCH	7855	7857	3	6

20. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 8 on attached listing. Under-displace to ~7608' and trickle 250gal 15%HCL w/ scale inhibitor in flush.

NOTE: TIGHT SPACING THIS STAGE, OVERFLUSH BY 5BBLs

21. Set 8000 psi CBP at ~7594'. Perf the following with 3-3/8" gun, 23 gm, 0.36" hole:

Zone	From	To	spf	# of shots
WASATCH	7399	7400	4	4
WASATCH	7507	7508	4	4
WASATCH	7547	7549	3	6
WASATCH	7582	7584	3	6

22. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 9 on attached listing. Under-displace to ~7399' and trickle 250gal 15%HCL w/ scale inhibitor in flush.

23. Set 8000 psi CBP at ~6672'. Perf the following with 3-3/8" gun, 23 gm, 0.36" hole:

Zone	From	To	spf	# of shots
WASATCH	6598	6600	4	8
WASATCH	6639	6642	4	12

24. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 10 on attached listing. Under-displace to ~6598' and flush only with recycled water.

25. Set 8000 psi CBP at ~6548'.

26. ND Frac Valves, NU and Test BOPs.

27. TIH with 3 7/8" bit, pump off sub, SN and tubing.

28. Clean out to top of cement plug (Please tag and record in OpenWells). Shear off bit and land tubing at $\pm 10374'$.
29. Clean out well with foam and/or swabbing unit until steady flow has been established from completion.
30. **Leave surface casing valve open.** Monitor and report any flow from surface casing. RDMO

Completion Engineer

Paul Ryza: 936/499-6895, 720/929-6915

Production Engineer

Jesse Markeveys: 215/380-0781, 435/781-7055

Laura M. Wellman: 435/781-9748, 435/322-0118

Completion Supervisor Foreman

Jeff Samuels: 435/828-6515, 435/781-7046

Completion Manager

Jeff Dufresne: 720/929-6281, 303/241-8428

Vernal Main Office

435/789-3342

Emergency Contact Information—Call 911

Vernal Regional Hospital Emergency: 435-789-3342

Police: (435) 789-5835

Fire: 435-789-4222

Acid Pickling and H2S Procedures (If Required)

****PROCEDURE FOR PUMPING ACID DOWN TBG**

WHEN FINDING SCALE IN TUBING THAT IS ACID SOLUBLE, ENSURE THAT PLUNGER EQUIPMENT IS REMOVED AND ABLE TO PUMP DOWN TBG. INSTALL A 'T' IN PUMP LINE W/2" VALVE THAT NALCO CAN TIE INTO. HAVE 60 BBL 2% KCL MIXED W/ 10-15 GAL H2S SCAVENGER IN RIG FLAT TANK. (WE USED THE RIG FLAT TANK FOR MIXING CHEMICAL SO WE DIDN'T HAVE THE CHEMICAL IN ALL FLUIDS ON LOCATION, ONLY WHAT WE NEEDED TO PUMP DOWN HOLE)

1. PUMP 5-10 BBL 2% KCL DOWN TBG (NALCO CANNOT PUMP AGAINST PRESSURE)
2. NALCO WILL PUMP 3 DRUMS HCL (31%) INTO PUMP LINE.
3. FLUSH BEHIND ACID WITH 10-15 BBL 2% KCL
4. PUMP 2—30 BBL 2% W/ H2S SCAVENGER DOWN TBG.
5. PUMP REMAINDER OF 2% W/ H2S SCAVENGER DOWN CASING AND SHUT WELL IN FOR MINIMUM OF 2 HRS.
6. OVER DISPLACE DOWN TBG AND CSG TO FLUSH ACID AND SCAVENGER INTO FORMATION
7. MONITOR TUBING FOR FLOW AND CASING FOR H2S NOW AS POOH W/ TUBING.

**** PROCEDURE FOR PUMPING H2S SCAVENGER WITHOUT ACID**

PRIOR TO RIG MOVING ON OR AS RIG PULLS ONTO LOCATION. TEST CASING, TUBING AND SEPARATOR FOR H2S. IF FOUND MAKE SURE THAT PLUNGER SYSTEM IS REMOVED (IT IS POSSIBLE TO PUMP AROUND PLUNGERS BUT SOME WILL HAVE A STANDING VALVE IN SEATING NIPPLE).

1. MIX 10-15 GAL H2S SCAVENGER WITH 60-100 BBL 2% KCL IN RIG FLAT TANK.
2. PUMP 25 BBL MIXTURE DOWN TUBING AND REST DOWN CASING. SHUT WELL IN FOR 2 HOURS.
3. IF WELL HAS PRESSURE AFTER 2 HOURS – RETEST CASING AND TUBING FOR H2S.
4. FLUSH TUBING AND CASING PUSHING H2S SCAVENGER INTO FORMATION.
5. MONITOR TUBING FOR FLOW AND CASING FOR H2S NOW AS POOH W/ TUBING.

** As per APC standard operating procedure, APC foreman will verify ALL volumes pumped and record on APC Volume Report Form

Name NBU 920-20B
Perforation and CBP Summary

Stage	Zones	Perforations		SPF	Holes	Fracture Coverage		
		Top, ft	Bottom, ft					
1	MESAVERDE	10404	10405	3	3	10396	to	10591
	MESAVERDE	10522	10524	3	6			
	MESAVERDE	10580	10582	3	6			
	MESAVERDE	10592	10594	3	6			
	# of Perfs/stage				21	CBP DEPTH	10,367	
2	MESAVERDE	10171	10172	3	3	10169	to	10338
	MESAVERDE	10186	10187	3	3			
	MESAVERDE	10201	10202	3	3			
	MESAVERDE	10238	10239	3	3			
	MESAVERDE	10304	10305	3	3			
	MESAVERDE	10335	10337	3	6			
	# of Perfs/stage				21	CBP DEPTH	10,136	
3	MESAVERDE	9961	9962	3	3	9957	to	10117
	MESAVERDE	9974	9975	3	3			
	MESAVERDE	9993	9994	3	3			
	MESAVERDE	10015	10016	3	3			
	MESAVERDE	10076	10077	3	3			
	MESAVERDE	10095	10096	3	3			
	MESAVERDE	10105	10106	3	3			
	# of Perfs/stage				21	CBP DEPTH	9,921	
4	MESAVERDE	9795	9796	4	4	9788	to	9892
	MESAVERDE	9863	9864	4	4			
	MESAVERDE	9873	9875	3	6			
	MESAVERDE	9889	9891	3	6			
	# of Perfs/stage				20	CBP DEPTH	9,487	
5	MESAVERDE	9271	9272	3	3	9269	to	9460
	MESAVERDE	9289	9290	3	3			
	MESAVERDE	9336	9337	3	3			
	MESAVERDE	9357	9358	3	3			
	MESAVERDE	9385	9386	3	3			
	MESAVERDE	9405	9406	3	3			
	MESAVERDE	9456	9457	3	3			
	# of Perfs/stage				21	CBP DEPTH	9,076	
6	MESAVERDE	8804	8805	3	3	8800	to	9051
	MESAVERDE	8968	8970	3	6			
	MESAVERDE	9011	9013	3	6			
	MESAVERDE	9044	9046	3	6			
	# of Perfs/stage				21	CBP DEPTH	8,366	
7	WASATCH	8102	8103	4	4	8102	to	8342
	WASATCH	8118	8119	4	4			
	WASATCH	8211	8213	3	6			
	WASATCH	8334	8336	3	6			
	# of Perfs/stage				20	CBP DEPTH	7,887	
8	WASATCH	7608	7609	4	4	7608	to	7861
	WASATCH	7644	7645	4	4			
	WASATCH	7799	7801	3	6			
	WASATCH	7855	7857	3	6			
	# of Perfs/stage				20	CBP DEPTH	7,594	
9	WASATCH	7399	7400	4	4	7399	to	7593
	WASATCH	7507	7508	4	4			
	WASATCH	7547	7549	3	6			
	WASATCH	7582	7584	3	6			
	# of Perfs/stage				20	CBP DEPTH	6,672	
10	WASATCH	6598	6600	4	8	6598	to	6647
	WASATCH	6639	6642	4	12			
	# of Perfs/stage				20	CBP DEPTH	6,548	
	Totals				205	Total Pay		452.0

Enter Number of swabbing days here for recompletes
 Enter 1 if running a Production Log
 Enter Number of DRITs
 Enter Y if only Gamma Ray log was run
 Enter Y if a LOW concentration of Scale Inhibitor will be pumped
 Enter N if there will be NO Clay stabilizer

Casing Size 4.5
 Recomplete? Y
 Pad? N
 ACTS? N
 Days on Pad? 2
 Wells on Pad? 1

Fracturing Schedules
 Name: NEU 920-208
 Slickwater Frac

Copy to new book

Stage	Zone	Perfs		Rate BPM	Fluid Type	Initial ppg	Final ppg	Fluid	Volume gals	Cum Vol gals	Volume BBLs	Cum Vol BBLs	Fluid % of frac	Sand % of frac	Sand lbs	Cum. Sand lbs	Footage from CBP to Flush	Scale Inhib., gal.	
		Top. ft.	Bct. ft.																
1	MESAVERDE	10404	10405	3	Pre-Pad & Pump-in test	0	0	Slickwater	6,792	6,792	162	162	15.0%	0.0%	0	0		3	
	MESAVERDE	10522	10524	6	0 ISIP and 5 min ISIP	0.25	0.625	Slickwater	3,110	9,902	74	236	28.3%	0.0%	2,570	2,570	0	2	
	MESAVERDE	10580	10592	6	50 Slickwater Ramp	0	0	Slickwater	5,875	15,777	140	376	28.3%	0.0%	4,039	6,618	0	3	
	MESAVERDE	10594	10594	3	50 SW Sweep	0.63	0.75	Slickwater	5,875	21,652	140	516	28.3%	0.0%	6,609	13,227	0	0	
	MESAVERDE			3	50 SW Sweep	0.25	0.75	Slickwater	21,652	43,304	0	516	28.3%	0.0%	6,609	19,836	0	0	
	MESAVERDE			3	50 Slickwater Ramp	0.25	0.75	Slickwater	21,652	64,956	0	516	28.3%	0.0%	6,609	26,445	0	0	
	MESAVERDE			3	50 Slickwater Ramp	0.75	1	Slickwater	5,875	70,831	140	655	28.3%	43.8%	5,141	31,586	0	3	
	MESAVERDE			3	50 Flush (4-1/2)			Slickwater	6,792	77,623	162	817			11,750	43,336	0	3	
	MESAVERDE			3	50 ISDP and 5 min ISDP			Sand laden Volume	34,318	111,941	162				11,750	55,086	0	17	
	MESAVERDE			21					20,735						275,000	155,833	lbs sand/md-ft	37	
	2	MESAVERDE	10171	10172	3	<< Above pump time (min)	16.3		Slickwater	0	0	0	0			0	0		
		MESAVERDE	10186	10187	3	Pump-in test			Slickwater	2,754	2,754	66	66	15.0%	0.0%	2,276	2,276	0	1
		MESAVERDE	10201	10202	3	50 ISIP and 5 min ISIP	0.25	0.625	Slickwater	5,202	7,956	124	189	28.3%	0.0%	2,276	4,552	0	3
		MESAVERDE	10239	10239	3	50 Slickwater Ramp	0.63	0.75	Slickwater	5,202	13,158	124	313	28.3%	0.0%	3,576	8,128	0	0
		MESAVERDE	10304	10305	3	50 SW Sweep	0.25	0.75	Slickwater	5,202	18,360	0	313	28.3%	0.0%	5,852	14,010	0	3
		MESAVERDE	10337	10337	3	50 SW Sweep	0.75	1	Slickwater	5,202	23,562	0	313	28.3%	0.0%	5,852	19,862	0	0
		MESAVERDE			3	50 Slickwater Ramp			Slickwater	5,202	28,764	124	437	28.3%	43.8%	4,552	24,414	0	3
MESAVERDE				3	50 Flush (4-1/2)			Slickwater	6,640	35,404	158	595			10,404	34,808	0	3	
MESAVERDE				3	50 ISDP and 5 min ISDP			Sand laden Volume	18,360	53,764	158				10,404	45,208	0	13	
MESAVERDE				21					18,360						59,534	33,736	lbs sand/md-ft	35	
3		MESAVERDE	9961	9962	3	<< Above pump time (min)	11.9		Slickwater	0	0	0	0			0	0		
		MESAVERDE	9974	9975	3	Pump-in test			Slickwater	5,921	5,921	141	141	15.0%	0.0%	4,893	4,893	0	3
		MESAVERDE	9994	9994	3	0 ISIP and 5 min ISIP	0.25	0.625	Slickwater	11,185	17,106	266	407	28.3%	0.0%	4,893	9,786	0	6
		MESAVERDE	10016	10017	3	50 Slickwater Ramp	0.63	0.75	Slickwater	11,185	28,291	266	674	28.3%	0.0%	7,689	17,475	0	0
		MESAVERDE	10096	10096	3	50 SW Sweep	0.25	0.75	Slickwater	11,185	39,476	0	674	28.3%	0.0%	12,583	30,058	0	6
		MESAVERDE	10106	10106	3	50 SW Sweep	0.75	1	Slickwater	11,185	50,661	0	674	28.3%	0.0%	12,583	42,641	0	0
		MESAVERDE			3	50 Slickwater Ramp			Slickwater	6,503	57,164	159	1,095			9,787	52,377	0	6
	MESAVERDE			3	50 ISDP and 5 min ISDP			Sand laden Volume	39,475	96,639	159				22,369	74,006	0	6	
	MESAVERDE			21					39,475						250,000	141,667	lbs sand/md-ft	40	
	4	MESAVERDE	9796	9796	4	<< Above pump time (min)	21.9		Slickwater	0	0	0	0			0	0		
		MESAVERDE	9863	9864	4	Pump-in test			Slickwater	2,791	2,791	66	66	15.0%	0.0%	2,306	2,306	0	1
		MESAVERDE	9873	9875	3	0 ISIP and 5 min ISIP	0.25	0.625	Slickwater	5,272	8,063	126	192	28.3%	0.0%	4,039	6,348	0	3
		MESAVERDE	9889	9891	3	50 Slickwater Ramp	0.63	0.75	Slickwater	5,272	13,335	126	317	28.3%	0.0%	3,624	9,972	0	0
		MESAVERDE			3	50 SW Sweep	0.25	0.75	Slickwater	5,272	18,607	0	317	28.3%	0.0%	5,931	15,903	0	3
		MESAVERDE			3	50 Slickwater Ramp	0.75	1	Slickwater	5,272	23,879	126	443	28.3%	0.0%	5,931	21,834	0	0
		MESAVERDE			3	50 Flush (4-1/2)			Slickwater	6,394	30,273	152	595			10,543	32,377	0	3
		MESAVERDE			3	50 ISDP and 5 min ISDP			Sand laden Volume	18,606	48,879	152				10,543	59,422	0	3
MESAVERDE				20					18,606						555,398	314,725	lbs sand/md-ft	308	

Stage	Zone	Perfs		SPF	Holes	Rate BPM	Fluid Type	Initial ppg	Final ppg	Fluid	Volume gals	Cum Vol gals	Volume BBLs	Cum Vol BBLs	Fluid % of frac	Sand % of frac	Sand lbs	Cum. Sand lbs	Footage from CBP to Flush	Scale Inhib., gal.	
		Top, ft.	Bot. ft.																		
5	MESAVERDE	9271	9272	3	21	Varied	Pump-in test 0 ISIP and 5 min ISIP	0.25	0.625	Slickwater	0	0	0	0	0.0%	0.0%	0	0	0	4	
	MESAVERDE	9289	9290	3																	
	MESAVERDE	9336	9337	3																	
	MESAVERDE	9357	9358	3																	
	MESAVERDE	9385	9386	3																	
	MESAVERDE	9405	9406	3																	
	MESAVERDE	9456	9457	3																	
	MESAVERDE			3																	
	MESAVERDE			3																	
	MESAVERDE			3																	
6	MESAVERDE	# of Perfs/range		21	27.7	Varied	Pump-in test 0 ISIP and 5 min ISIP	0.25	0.625	Slickwater	0	0	0	0	15.0%	0.0%	0	0	0	3	
	MESAVERDE	8804	8805																		3
	MESAVERDE	8866	8870																		3
	MESAVERDE	8911	8913																		3
	MESAVERDE	9044	9046																		3
	MESAVERDE																				3
	MESAVERDE																				3
	MESAVERDE																				3
	MESAVERDE																				3
	MESAVERDE																				3
7	MESAVERDE	# of Perfs/range		21	20.2	Varied	Pump-in test 0 ISIP and 5 min ISIP	0.25	1	Slickwater	0	0	0	0	15.0%	0.0%	0	0	0	2	
	MESAVERDE	8102	8103																		4
	MESAVERDE	8118	8119																		4
	MESAVERDE	8211	8213																		3
	MESAVERDE	8334	8336																		3
	MESAVERDE																				3
	MESAVERDE																				3
	MESAVERDE																				3
	MESAVERDE																				3
	MESAVERDE																				3
8	MESAVERDE	# of Perfs/range		20	12.9	Varied	Pump-in test 0 ISIP and 5 min ISIP	0.25	1	Slickwater	0	0	0	0	15.0%	0.0%	0	0	0	2	
	MESAVERDE	7608	7609																		4
	MESAVERDE	7644	7645																		4
	MESAVERDE	7799	7801																		3
	MESAVERDE	7855	7857																		3
	MESAVERDE																				3
	MESAVERDE																				3
	MESAVERDE																				3
	MESAVERDE																				3
	MESAVERDE																				3
9	MESAVERDE	# of Perfs/range		20	16.8	Varied	Pump-in test 0 ISIP and 5 min ISIP	0.25	1	Slickwater	0	0	0	0	15.0%	0.0%	0	0	0	2	
	MESAVERDE	8102	8103																		4
	MESAVERDE	8118	8119																		4
	MESAVERDE	8211	8213																		3
	MESAVERDE	8334	8336																		3
	MESAVERDE																				3
	MESAVERDE																				3
	MESAVERDE																				3
	MESAVERDE																				3
	MESAVERDE																				3

NBU 920-20B Directional Survey												
MD	TVD	EW	NS	INC	AZI		MD	TVD	EW	NS	INC	AZI
0	0	0.0	0.0	0.0	0.0		5700	5700	-21.8	55.4	0.8	34.2
14	14	0.0	0.0	0.0	0.0		5795	5795	-21.0	56.6	0.9	31.4
182	182	1.2	-0.6	0.9	117.1		5891	5891	-20.6	57.6	0.5	5.2
265	265	1.8	-1.7	1.0	185.1		5986	5986	-21.3	59.2	1.7	329.0
354	354	0.6	-2.7	1.5	255.6		6081	6081	-22.7	61.8	1.8	333.0
444	444	-2.1	-2.7	1.9	283.4		6177	6177	-24.0	64.5	1.8	338.6
534	534	-5.3	-1.9	2.3	283.7		6272	6272	-25.3	66.7	1.4	313.7
624	624	-8.7	-0.6	2.5	296.7		6368	6368	-26.9	68.2	1.2	312.9
714	714	-11.8	1.7	2.5	317.0		6463	6463	-28.3	69.5	1.1	310.5
804	804	-14.1	5.1	2.8	334.7		6559	6559	-29.7	70.7	1.0	312.9
894	894	-16.4	9.0	3.1	324.0		6654	6654	-31.6	71.6	1.6	285.5
984	983	-19.2	12.5	2.6	318.9		6749	6749	-34.3	72.2	1.7	280.1
1074	1073	-21.4	15.5	2.1	331.1		6845	6845	-36.6	72.8	1.3	289.0
1164	1163	-22.4	18.7	2.2	351.6		6940	6939	-38.4	73.4	1.0	288.1
1254	1253	-22.7	22.0	2.1	357.5		7036	7035	-39.8	73.7	0.8	276.7
1344	1343	-22.8	24.9	1.7	359.9		7131	7130	-40.9	73.9	0.6	286.5
1434	1433	-22.8	27.5	1.6	0.2		7226	7225	-41.8	74.2	0.4	285.1
1524	1523	-22.9	29.7	1.3	357.4		7321	7320	-42.4	74.2	0.3	257.2
1614	1613	-23.1	31.5	0.9	347.0		7417	7416	-42.8	74.1	0.2	262.9
1704	1703	-23.5	32.9	0.9	335.9		7512	7511	-43.0	74.2	0.1	310.4
1794	1793	-24.0	34.2	0.8	343.9		7607	7606	-43.3	74.3	0.2	298.0
1854	1853	-24.4	35.0	0.8	343.9		7702	7701	-43.2	74.4	0.3	99.1
1884	1883	-24.3	35.4	0.8	350.0		7798	7797	-42.5	73.8	0.9	134.0
1974	1973	-24.5	36.6	0.7	348.7		7893	7892	-41.5	72.8	0.8	135.2
2064	2063	-25.1	37.9	1.2	327.1		7988	7987	-40.4	72.0	0.8	123.7
2154	2153	-26.1	39.6	1.3	331.4		8084	8083	-39.3	71.3	0.8	121.1
2244	2243	-27.0	41.4	1.3	335.7		8179	8178	-38.1	70.4	0.9	130.1
2334	2333	-27.8	43.0	1.0	331.1		8275	8274	-36.8	69.5	1.0	122.6
2424	2423	-28.6	44.1	0.7	317.4		8370	8369	-35.4	68.5	1.1	123.1
2514	2513	-29.2	44.7	0.4	310.6		8465	8464	-33.9	67.7	1.0	118.0
2604	2603	-29.6	45.1	0.4	311.2		8561	8560	-32.4	66.9	1.0	119.2
2694	2693	-30.0	45.5	0.3	312.4		8655	8654	-30.9	66.2	1.1	104.9
2784	2783	-30.4	45.6	0.3	269.5		8750	8749	-29.1	65.8	1.2	104.7
2888	2887	-30.8	45.5	0.2	238.6		8846	8845	-27.0	65.2	1.4	107.1
2936	2936	-30.9	45.4	0.2	183.4		8940	8939	-25.2	64.3	1.1	128.5
3031	3031	-30.8	45.0	0.3	152.8		9035	9034	-23.9	63.0	1.3	138.0
3126	3126	-30.6	44.6	0.3	150.9		9130	9129	-22.4	61.2	1.5	140.6
3221	3221	-30.3	44.1	0.3	139.5		9226	9225	-20.5	59.9	1.4	110.7
3317	3317	-30.0	43.7	0.3	152.6		9322	9321	-18.8	59.0	0.9	123.6
3412	3412	-29.6	43.2	0.4	139.1		9416	9415	-17.7	58.5	0.6	110.6
3508	3508	-29.1	42.7	0.5	128.9		9512	9511	-16.4	58.1	1.0	104.7
3603	3603	-28.9	42.4	0.1	287.6		9607	9606	-15.0	58.0	0.8	74.4
3699	3699	-29.1	42.5	0.1	285.6		9703	9702	-13.5	58.4	0.9	78.5
3794	3794	-29.3	42.6	0.2	315.1		9798	9797	-12.0	58.7	1.0	77.5
3889	3889	-29.3	42.8	0.1	48.2		9893	9892	-10.4	59.0	0.9	79.4
3984	3984	-29.2	42.8	0.1	101.1		9989	9988	-8.9	59.1	0.9	95.7
4080	4080	-28.9	42.7	0.3	123.2		10083	10082	-7.5	58.7	0.9	116.0
4176	4176	-28.5	42.3	0.4	128.5		10179	10178	-6.0	57.9	1.1	120.1
4271	4271	-28.0	41.9	0.4	133.2		10273	10272	-4.1	57.0	1.4	112.1
4366	4366	-27.5	41.4	0.4	135.6		10368	10367	-1.7	56.1	1.8	110.4
4462	4462	-26.9	40.8	0.5	134.7		10463	10462	1.2	55.1	1.9	106.7
4557	4557	-26.3	40.2	0.5	139.0		10558	10557	4.3	54.2	2.0	104.4
4652	4652	-25.8	39.6	0.5	136.2		10654	10653	7.6	53.4	2.1	103.1
4747	4747	-25.7	40.1	1.0	348.0		10749	10748	11.2	52.7	2.3	99.0
4843	4843	-26.1	42.0	1.3	346.1		10844	10843	14.9	52.3	2.3	95.2
4937	4937	-26.4	44.0	1.1	355.5		10939	10938	18.8	52.2	2.4	86.4
5033	5033	-26.4	45.9	1.1	7.4		11034	11033	22.7	52.4	2.3	89.7
5128	5128	-26.1	47.5	0.9	16.2		11128	11126	26.2	52.1	2.0	99.9
5223	5223	-25.5	48.9	0.9	26.6		11224	11222	29.4	51.6	1.8	98.4
5319	5319	-24.8	50.2	0.8	30.9		11318	11316	32.2	51.1	1.8	101.4
5414	5414	-24.1	51.4	0.9	30.6		11413	11411	34.9	50.4	1.6	108.1
5509	5509	-23.4	52.8	1.1	26.4		11508	11506	37.5	49.4	1.7	111.2
5605	5605	-22.6	54.2	0.9	32.1		11889	11887	48.0	45.4	1.7	111.2

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0137
Expires: October 31, 2014

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.
UTU0144869A

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.
UTU63047A

8. Lease Name and Well No.
NBU 920-20B

9. API Well No.
4304740538

10. Field and Pool or Exploratory
NATURAL BUTTES

11. Sec., T., R., M., on Block and
Survey or Area
SEC 20, T9S, R20E SLB

12. County or Parish
UINTAH

13. State
UT

17. Elevations (DF, RKB, RT, GL)*
RKB

1a. Type of Well Oil Well Gas Well Dry Other

b. Type of Completion: New Well Work Over Deepen Plug Back Diff. Resrv.,
Other: **RECOMPLETION**

2. Name of Operator
KERR MCGEE OIL & GAS ONSHORE, L.P.

3. Address PO BOX 173779
DENVER, CO 80217

3a. Phone No. (include area code)
720-929-6000

4. Location of Well (Report location clearly and in accordance with Federal requirements)*

At surface NWNE 1229 FNL 1580 FEL SEC 20, T9S, R20E LAT. 40.02469 LONG. 109.68657

At top prod. interval reported below

At total depth

14. Date Spudded 12/14/2011

15. Date T.D. Reached 02/28/2012

16. Date Completed 05/01/2013
 D & A Ready to Prod.

18. Total Depth: MD 11,889
TVD 11,887

19. Plug Back T.D.: MD 11,846
TVD 11,844

20. Depth Bridge Plug Set: MD
TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
BHV-SD/DSN/ACTR-CBL/GR/COLLARS

22. Was well cored? No Yes (Submit analysis)
Was DST run? No Yes (Submit report)
Directional Survey? No Yes (Submit copy)

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 Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled

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	10,387							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) WASATCH	6598	8336	6598-8336	0.36	80	OPEN
B) MESAVERDE	8804	10,594	8804-10,594	0.36	125	OPEN
C)						
D)						

26. Perforation Record

Depth Interval	Amount and Type of Material
6598-10,594	PUMP 8,461 BBLs SLICK H2O & 191,820 LBS 30/50 OTTAWA SAND 10 STAGES

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

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
5/1/13	5/11/13	24	➔	27	1779	274			FLOWING
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
20/64	769	1390	➔	27	1779	274		PRODUCING	

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. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			➔						

*(See instructions and spaces for additional data on page 2)

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 (Solid, 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	1710
				BIRD'S NEST	1874
				MAHOGANY	2354
				WASATCH	5190
				MESAVERDE	8661

32. Additional remarks (include plugging procedure):

Attached is the recompletion history and perforation report. Casing in the well is as previously reported on the original Completion Report. New recompletion perforations are: Wasatch 6598-8336 and Mesaverde 8804-10,594 ; existing perforations: Mesaverde 11,462-11,669 ft . Test information is production from commingled zones.

33. Indicate which items have been attached by placing a check in the appropriate boxes:

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

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

Name (please print) TEENA PAULO Title STAFF REGULATORY SPECIALIST
 Signature  Date 05/30/2013

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

US ROCKIES REGION								
Operation Summary Report								
Well: NBU 920-20B					Spud Date: 2/4/2012			
Project: UTAH-UINTAH			Site: NBU 920-20B			Rig Name No: MILES-GRAY 1/1		
Event: RECOMPL/RESEREVEADD			Start Date: 4/25/2013		End Date: 5/1/2013			
Active Datum: RKB @4,780.00usft (above Mean Sea Level)				UWI: NWN/E/0/9/S/20/E/20/0/0/26/PM/N/1229/E/0/1580/0/0				
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
4/25/2013	7:00 - 7:15	0.25	SUBSPR	48		P		HSM-JSA
	7:15 - 15:00	7.75	SUBSPR	31	I	P		MOVE EQUIP FROM NB U 920-20B, MIRU SPOT EQUIP, NDWH, NUBOP, POOH TALLY & STD BACK 349 JTS 2 3/8" TBG, RD FLOOR & TBG EQUIP, NDBOP, NUFV, FILL WELL W/ 20 BBLS TMAC, SWI, SDFN.
4/26/2013	7:00 - 7:15	0.25	SUBSPR	48		P		HSM-JSA
	7:15 - 15:00	7.75	SUBSPR	52	A	P		MIRU CAMERON PRESS TEST CSG & FRAC VALVES TO 7,000 PSI FOR 15 MIN, LOST 57 PSI IN 15 MIN, RD CAMERON, MIRU CASD HOLE SOLUTIONS. PERF STG 1)PU 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 120 DEG PHASING. RIH PERF AS PER PERF DESIGN. POOH, SWI, SDFWE.
4/29/2013	7:00 - 7:15	0.25	FRAC	48		P		HSM-JSA

US ROCKIES REGION									
Operation Summary Report									
Well: NBU 920-20B					Spud Date: 2/4/2012				
Project: UTAH-UINTAH			Site: NBU 920-20B			Rig Name No: MILES-GRAY 1/1			
Event: RECOMPL/RESEREVEADD			Start Date: 4/25/2013			End Date: 5/1/2013			
Active Datum: RKB @4,780.00usft (above Mean Sea Level)			UWI: NWNE/0/9/S/20/E/20/0/0/26/PM/N/1229/E/0/1580/0/0						
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation	
	7:15 - 18:30	11.25	FRAC	36	B	P		PSI TEST FRAC LINES TO 8000 PSI. LOST 200 PSI. GOOD TEST. BLEED OFF PSI. BEG FRACING. FRAC STG 1)WHP 1,904 PSI, BRK 3,918 PSI @ 3.2 BPM. ISIP 3,127 PSI, FG .74 ISIP 3,361 PSI, FG .76, NPI 234 PSI. SWI, XO TO WL. PERF STG 2)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM. .36 HOLE SIZE. 120 DEG PHASING. RIH SET CBP @ 10,367' P/U PERF AS PER DESIGN. POOH, XO TO FRAC. FRAC STG 2)WHP 1,882 PSI, BRK 4,600 PSI @ 3.7 BPM. ISIP 3,377 PSI, FG .77 ISIP 3,487 PSI, FG .78, NPI 110 PSI. SWI, XO TO WL. PERF STG 3)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM. .36 HOLE SIZE. 120 DEG PHASING. RIH SET CBP @ 10,136' P/U PERF AS PER DESIGN. POOH, XO TO FRAC. FRAC STG 3)WHP 1,509 PSI, BRK 4,878 PSI @ 4.2 BPM. ISIP 2,848 PSI, FG .72 ISIP 3,281 PSI, FG .77, NPI 433 PSI. SWI, XO TO WL. PERF STG 4)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM. .36 HOLE SIZE. 90 & 120 DEG PHASING. RIH SET CBP @ 9,921' P/U PERF AS PER DESIGN. POOH, XO TO FRAC. FRAC STG 4)WHP 1,370 PSI, BRK 4,065 PSI @ 3.4 BPM. ISIP 3,026 PSI, FG .75 ISIP 3,142 PSI, FG .76, NPI 116 PSI. SWI, XO TO WL. PERF STG 5)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM. .36 HOLE SIZE. 120 DEG PHASING. RIH SET CBP @ 9,487' P/U PERF AS PER DESIGN. POOH, XO TO FRAC. FRAC STG 5)WHP 1,384PSI, BRK 4,885 PSI @ 4.6 BPM. ISIP 2,506 PSI, FG .71 ISIP 3,158 PSI, FG .78, NPI 652 PSI. SWI, XO TO WL. PERF STG 6)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM. .36 HOLE SIZE. 120 DEG PHASING. RIH SET CBP @ 9,076' P/U PERF AS PER DESIGN. POOH, XO TO FRAC. FRAC STG 6)WHP 1,208PSI, BRK 6,372 PSI @ 4.1 BPM. ISIP 2,754 PSI, FG .75 ISIP 3,041 PSI, FG .78, NPI 287 PSI. SWI, XO TO WL. PERF STG 7)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM. .36 HOLE SIZE. 90 & 120 DEG PHASING. RIH SET CBP @ 8,366' P/U PERF AS PER DESIGN. POOH, XO TO FRAC.	

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 920-20B		Spud Date: 2/4/2012	
Project: UTAH-UINTAH		Site: NBU 920-20B	Rig Name No: MILES-GRAY 1/1
Event: RECOMPL/RESEREVEADD		Start Date: 4/25/2013	End Date: 5/1/2013
Active Datum: RKB @4,780.00usft (above Mean Sea Level)		UWI: NWWNE/0/9/S/20/E/20/0/0/26/PM/N/1229/E/0/1580/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
								FRAC STG 7)WHP 1,069PSI, BRK 6,491 PSI @ 3.9 BPM. ISIP 2,809 PSI, FG .78 ISIP 3,142 PSI, FG .82, NPI 333 PSI. SWI, XO TO WL.
								PERF STG 8)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM. .36 HOLE SIZE. 90 & 120 DEG PHASING. RIH SET CBP @ 7,887' P/U PERF AS PER DESIGN. POOH, SWI, SDFN.
4/30/2013	7:00 - 7:15	0.25	FRAC	48		P		HSM-JSA
	7:15 - 12:00	4.75	FRAC	36	B	P		FRAC STG 8)WHP 1,970 PSI, BRK 4,196 PSI @ 3.8 BPM. ISIP 2,382 PSI, FG .75 ISIP 2,701 PSI, FG .79, NPI 319 PSI. SWI, XO TO WL.
								PERF STG 9)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM. .36 HOLE SIZE. 90 & 120 DEG PHASING. RIH SET CBP @ 7,594' P/U PERF AS PER DESIGN. POOH, XO TO FRAC.
								FRAC STG 9)WHP 1,809 PSI, BRK 4,504 PSI @ 3.9 BPM. ISIP 2,662 PSI, FG .79 ISIP 2,754 PSI, FG .81, NPI 92 PSI. SWI, XO TO WL.
								PERF STG 10)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM. .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 6,672' P/U PERF AS PER DESIGN. POOH, XO TO FRAC.
								FRAC STG 10)WHP 439 PSI, BRK 2,671 PSI @ 4.2 BPM. ISIP 1,781 PSI, FG .71 ISIP 2,319 PSI, FG .79, NPI 538 PSI. SWI, XO TO WL.
								PU 4 1/2 8K HAL CBP. RIH SET KILL PLUG @ 6,548'. POOH. SWI. RDMO FRAC EQUIP & WIRELINE.
								TOTAL SAND = 191,820 LBS TOTAL CLFL = 8,461 BBLS
	12:00 - 15:00	3.00	DRLOUT	31	I	P		NDFV, NUBOP, RIH W/ 205 JTS 2 3/8" L-80 EOT @ 6,512', RU PWR SWWL, SWI, SDFN.
5/1/2013	7:00 - 7:15	0.25	DRLOUT	48		P		HSM-JSA

US ROCKIES REGION									
Operation Summary Report									
Well: NBU 920-20B					Spud Date: 2/4/2012				
Project: UTAH-UINTAH			Site: NBU 920-20B			Rig Name No: MILES-GRAY 1/1			
Event: RECOMPL/RESEREVEADD			Start Date: 4/25/2013			End Date: 5/1/2013			
Active Datum: RKB @4,780.00usft (above Mean Sea Level)				UWI: NW/NE/0/9/S/20/E/20/0/0/26/PM/N/1229/E/0/1580/0/0					
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation	
	7:15 - 17:30	10.25	DRLOUT	44	C	P		BRK CIRC PRESS TEST BOP TO 3,000 PSI, LOST 0 PSI IN 15 MIN, RIH TAG FILL @ 6,533'. C/O 15' SAND TAG PLUG #1 @ 6,548', DRL HAL 8K CBP IN 10 MIN, 300 PSI INC, FCP 50 PSI, RIH TAG FILL @ 6,652'. C/O 20' SAND TAG PLUG #2 @ 6,672', DRL HAL 8K CBP IN 8 MIN, 500 PSI INC, FCP 300 PSI, RIH TAG FILL @ 7,579'. C/O 15' SAND TAG PLUG #3 @ 7,594', DRL HAL 8K CBP IN 7 MIN, 600 PSI INC, FCP 300 PSI, RIH TAG FILL @ 7,837'. C/O 50' SAND TAG PLUG #4 @ 7,387', DRL HAL 8K CBP IN 7 MIN, 500 PSI INC, FCP 300 PSI, RIH TAG FILL @ 8,336'. C/O 30' SAND TAG PLUG #5 @ 8,366', DRL HAL 8K CBP IN 5 MIN, 600 PSI INC, FCP 350 PSI, RIH TAG FILL @ 9,046'. C/O 30' SAND TAG PLUG #6 @ 9,076', DRL HAL 8K CBP IN 6 MIN, 600 PSI INC, FCP 450 PSI, RIH TAG FILL @ 9,457'. C/O 30' SAND TAG PLUG #7 @ 9,487', DRL HAL 8K CBP IN 7 MIN, 600 PSI INC, FCP 500 PSI, RIH TAG FILL @ 9,891'. C/O 30' SAND TAG PLUG #8 @ 9,921', DRL HAL 8K CBP IN 7 MIN, 700 PSI INC, FCP 650 PSI, RIH TAG FILL @ 10,101'. C/O 35' SAND TAG PLUG #9 @ 10,136', DRL HAL 8K CBP IN 9 MIN, 300 PSI INC, FCP 700 PSI, RIH TAG FILL @ 10,337'. C/O 30' SAND TAG PLUG #10 @ 10,367', DRL HAL 8K CBP IN 10 MIN, 800 PSI INC, FCP 800 PSI, RIH TAG FILL @ 10,902' (308' BLW BTM PERF). CIRC CLEAN, RD PWR SWWL, POOH LD 17 JTS TBG, LAND TBG W/ 327 JTS 2 3/8" L-80 EOT @ 10,387.03', RD FLOOR & TBG EQUIP, NDBOP, NUWH, DROP BALL POBS @ 2,500 PSI, TURN OVER TO FBC, SDFN. KB-18' HANGER-83' 327 JTS 2 3/8" L-80-10,366.00 POBS-2.20 EOT-10,387.03 TLTR=8,721 BBLS	

US ROCKIES REGION								
Operation Summary Report								
Well: NBU 920-20B				Spud Date: 2/4/2012				
Project: UTAH-UINTAH			Site: NBU 920-20B			Rig Name No: MILES-GRAY 1/1		
Event: RECOMPL/RESEREVEADD			Start Date: 4/25/2013		End Date: 5/1/2013			
Active Datum: RKB @4,780.00usft (above Mean Sea Level)				UWI: NW/NE/0/9/S/20/E/20/0/0/26/PM/N/1229/E/0/1580/0/0				
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	17:30 - 17:30	0.00	DRLOUT	50				LR=3,170 BBLS TWLTR=5,551 BBLS WELL TURNED TO SALES @ 1745 HR ON 5/1/2013. 900 MCFD, 1560 BWPD, FCP 1300#, FTP 2000#, 20/64" CK.

US ROCKIES REGION

1 General

1.1 Customer Information

Company	US ROCKIES REGION
Representative	
Address	

1.2 Well/Wellbore Information

Well	NBU 920-20B	Wellbore No.	OH
Well Name	NBU 920-20B	Wellbore Name	NBU 920-20B
Report No.	1	Report Date	4/29/2013
Project	UTAH-UJINTAH	Site	NBU 920-20B
Rig Name/No.	MILES-GRAY 1/1	Event	RECOMPLURESEREVEADD
Start Date	4/25/2013	End Date	5/1/2013
Spud Date	2/4/2012	Active Datum	FKB @4,780.00usft (above Mean Sea Level)
UWI	NW/NE/09/S/20/E/20/0/0/26/PM/N/1229/E/0/1580/0/0		

1.3 General

Contractor		Job Method		Supervisor	
Perforated Assembly		Conveyed Method			

1.4 Initial Conditions

Fluid Type	Fluid Density	Gross Interval	6,598.0 (usft)-10,594.0 (us)	Start Date/Time	4/29/2013 12:00AM
Surface Press	Estimate Res Press	No. of Intervals	46	End Date/Time	4/29/2013 12:00AM
TVD Fluid Top	Fluid Head	Total Shots	205	Net Perforation Interval	64.00 (usft)
Hydrostatic Press	Press Difference	Avg Shot Density	3.20 (shot/ft)	Final Surface Pressure	
Balance Cond	NEUTRAL			Final Press Date	

1.5 Summary

2 Intervals

2.1 Perforated Interval

Date	Formation/Reservoir	CCL@ (usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/Add. Shot	Diameter (in)	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
4/29/2013 12:00AM	WASATCH/			6,598.0	6,600.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO	N

US ROCKIES REGION

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diamete r (in)	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc./Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
4/29/2013 12:00AM	WASATCH/			6,639.0	6,642.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
4/29/2013 12:00AM	WASATCH/			7,399.0	7,400.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
4/29/2013 12:00AM	WASATCH/			7,507.0	7,508.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
4/29/2013 12:00AM	WASATCH/			7,547.0	7,549.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/29/2013 12:00AM	WASATCH/			7,582.0	7,584.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/29/2013 12:00AM	WASATCH/			7,608.0	7,609.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
4/29/2013 12:00AM	WASATCH/			7,644.0	7,645.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
4/29/2013 12:00AM	WASATCH/			7,799.0	7,801.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/29/2013 12:00AM	WASATCH/			7,855.0	7,857.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/29/2013 12:00AM	WASATCH/			8,102.0	8,103.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
4/29/2013 12:00AM	WASATCH/			8,118.0	8,119.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
4/29/2013 12:00AM	WASATCH/			8,211.0	8,213.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/29/2013 12:00AM	WASATCH/			8,334.0	8,336.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/29/2013 12:00AM	MESAVERDE/			8,804.0	8,805.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/29/2013 12:00AM	MESAVERDE/			8,968.0	8,970.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/29/2013 12:00AM	MESAVERDE/			9,011.0	9,013.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/29/2013 12:00AM	MESAVERDE/			9,044.0	9,046.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/29/2013 12:00AM	MESAVERDE/			9,271.0	9,272.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/29/2013 12:00AM	MESAVERDE/			9,289.0	9,290.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/29/2013 12:00AM	MESAVERDE/			9,336.0	9,337.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/29/2013 12:00AM	MESAVERDE/			9,357.0	9,358.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	

US ROCKIES REGION

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diamete r (in)	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Mistun
4/29/2013 12:00AM	MESAVERDE/			9,385.0	9,386.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/29/2013 12:00AM	MESAVERDE/			9,405.0	9,406.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/29/2013 12:00AM	MESAVERDE/			9,456.0	9,457.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/29/2013 12:00AM	MESAVERDE/			9,795.0	9,796.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
4/29/2013 12:00AM	MESAVERDE/			9,863.0	9,864.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
4/29/2013 12:00AM	MESAVERDE/			9,873.0	9,875.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/29/2013 12:00AM	MESAVERDE/			9,889.0	9,891.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/29/2013 12:00AM	MESAVERDE/			9,961.0	9,962.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/29/2013 12:00AM	MESAVERDE/			9,974.0	9,975.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/29/2013 12:00AM	MESAVERDE/			9,993.0	9,994.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/29/2013 12:00AM	MESAVERDE/			10,015.0	10,016.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/29/2013 12:00AM	MESAVERDE/			10,076.0	10,077.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/29/2013 12:00AM	MESAVERDE/			10,095.0	10,096.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/29/2013 12:00AM	MESAVERDE/			10,105.0	10,106.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/29/2013 12:00AM	MESAVERDE/			10,171.0	10,172.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/29/2013 12:00AM	MESAVERDE/			10,186.0	10,187.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/29/2013 12:00AM	MESAVERDE/			10,201.0	10,202.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/29/2013 12:00AM	MESAVERDE/			10,238.0	10,239.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/29/2013 12:00AM	MESAVERDE/			10,304.0	10,305.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/29/2013 12:00AM	MESAVERDE/			10,335.0	10,337.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/29/2013 12:00AM	MESAVERDE/			10,404.0	10,405.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	

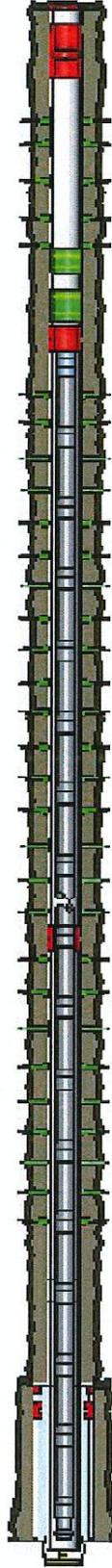
US ROCKIES REGION

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diamete r (in)	Carr. Type /Stage No	Carr. Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
4/29/2013 12:00AM	MESAVERDE/			10,522.0	10,524.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/29/2013 12:00AM	MESAVERDE/			10,580.0	10,582.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/29/2013 12:00AM	MESAVERDE/			10,592.0	10,594.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	

3 Plots

3.1 Wellbore Schematic



MARCH 25, 2014

PLEASE FIND ATTACHED THE AMENDED RECOMPLETION REPORT FOR THE NBU 920-20B.

THE ORIGINAL RECOMPLETION REPORT FILED 5/30/2013 INCORRECTLY STATED THAT TEST PRODUCTION INFORMATION WAS FROM ALL PERFORATIONS, INCLUDING DEEP BLACKHAWK PERFORATIONS FROM THE ORIGINAL COMPLETION. THE ORIGINAL ZONE WAS ABANDONED WITH TWO CIBP'S IN JANUARY, 2013, WHICH WERE NOT REPORTED ON THE ORIGINAL RECOMPLETION REPORT.

THIS AMENDED RECOMPLETION REPORT SHOWS THE DEPTH FOR EACH CIBP AND STATES THAT PRODUCTION IS FROM THE NEW RECOMPLETION PERFORATIONS ONLY. ABANDONMENT CHRONO OF LOWER MESAVERDE AND RECOMPLETION CHRONO ATTACHED.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0137
Expires: October 31, 2014

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.
UTU0144869A

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.
UTU63047A

8. Lease Name and Well No.
NBU 920-20B

9. API Well No.
4304740538

10. Field and Pool or Exploratory
NATURAL BUTTES

11. Sec., T., R., M., on Block and
Survey or Area
SEC 20, T9S, R20E SLB

12. County or Parish
UINTAH

13. State
UT

17. Elevations (DF, RKB, RT, GL)*
RKB

14. Date Spudded
12/14/2011

15. Date T.D. Reached
02/28/2012

16. Date Completed
05/01/2013
 D & A Ready to Prod.

18. Total Depth: MD 11,889
TVD 11,887

19. Plug Back T.D.: MD 11,846
TVD 11,844

20. Depth Bridge Plug Set: MD 11,230 & 11,442
TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
BHV-SD/DSN/ACTR-CBL/GR/COLLARS

22. Was well cored? No Yes (Submit analysis)
Was DST run? No Yes (Submit report)
Directional Survey? No Yes (Submit copy)

Other: **RECOMPLETION (AMENDED)**

2. Name of Operator
KERR MCGEE OIL & GAS ONSHORE, L.P.

3. Address PO BOX 173779
DENVER, CO 80217

3a. Phone No. (include area code)
720-929-6000

4. Location of Well (Report location clearly and in accordance with Federal requirements)*
At surface NWNE 1229 FNL 1580 FEL SEC 20, T9S, R20E LAT. 40.02469 LONG. 109.68657
At top prod. interval reported below
At total depth

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

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cemen- ter Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled

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	10,387							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) WASATCH	6598	8336	6598-8336	0.36	80	OPEN
B) MESAVERDE	8804	10,594	8804-10,594	0.36	125	OPEN
C)						
D)						

26. Perforation Record

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

Depth Interval	Amount and Type of Material
6598-10,594	PUMP 8,461 BBLs SLICK H2O & 191,820 LBS 30/50 OTTAWA SAND 10 STAGES

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
5/1/13	5/11/13	24	→	27	1779	274			FLOWING
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
20/64	769	1390	→	27	1779	274		PRODUCING	

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. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

*(See instructions and spaces for additional data on page 2)

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 (Solid, 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	1710
				BIRD'S NEST	1874
				MAHOGANY	2354
				WASATCH	5190
				MESAVERDE	8661

32. Additional remarks (include plugging procedure):

Attached is the recompletion history and perforation report. Casing in the well is as previously reported on the original Completion Report. Existing perforations: Mesaverde 11,462-11,669 ft. were abandoned and isolated with a CIBP set at 11,442 with 7 sx cement on top and another CIBP set at 11,230 with 7 sx cement on top. New recompletion perforations are: Wasatch 6598-8336 and Mesaverde 8804-10,594. Test information is from new perforations.

33. Indicate which items have been attached by placing a check in the appropriate boxes:

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

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

Name (please print) KAY KELLY Title SR. STAFF REGULATORY SPECIALIST
 Signature *Kay Kelly* Date 3-25-2014

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.

(Continued on page 3)

(Form 3160-4, page 2)

US ROCKIES REGION									
Operation Summary Report									
Well: NBU 920-20B					Spud Date: 2/4/2012				
Project: UTAH-UINTAH			Site: NBU 920-20B			Rig Name No: SWABBCO 8/8			
Event: ABANDONMENT			Start Date: 1/29/2013		End Date: 1/31/2013				
Active Datum: RKB @4,780.00usft (above Mean Sea Level)				UWI: NW/NE/0/9/S/20/E/20/0/0/26/PM/N/1229/E/0/1580/0/0					
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation	
1/29/2013	9:30 - 11:30	2.00		30	A	P		MIRU F/ NBU 920-20D,	
	11:30 - 17:00	5.50		31	I	P		FTP & FCP 40 PSI, OPEN TO TNK, CONTROL TBG W/ 30 BBLS T-MAC, ND WH NU BOPS, CONTROL CSG W/ 30 BBLS. UNLAND TBG L/D HANGER, POOH S.L.M W/ 220 JTS 23/8 L-80. SWI DRAIN EQUIP SDFN.	
1/30/2013	7:00 - 7:30	0.50		48		P		HSM,	
	7:30 - 9:00	1.50		31	I	P		SICP & SITP 1000 PSI, PUMP 20 BBLS DWN TBG, POOH W/ REM 129 JTS 23/8 L-80 S.L.M & CHECKING W/ BROACH, L/D X/N. TOTAL 359 JTS TBG LOOKED GOOD.	
	9:00 - 18:00	9.00		34	I	P		RU CUTTERS RIH W/ 41/2 GAUGE RING TO 11,460', POOH RIH & SET 10K CIBP @ 11,442', POOH.FILL HOLE W/ BBLS T-MAC TEST CSG TO 3,000# W/ RIG PUMP OK. RIH MADE 3 DUMP BAILER RUNS TO DUMP 7 SKS CMT ON CIBP. RIH SET 2ND 10K CIBP @ 11,230' POOH, RIH MADE 3 BAILER RUNS TO DUMP 7 SKS CMT ON PLUG, POOH RD WL.	
1/31/2013	7:00 - 7:30	0.50		48		P		HSM, TRIPPING TBG OUT OF DERICK.	
	7:30 - 12:00	4.50		31	I	P		SICP & SITP 600 PSI, BLEW DWN WELL, RIH W/ X/N & NOTCHED NIPPLE & 349 JTS 23/8 L-80 OUT OF DERICK, LAND TBG, ND BOPS NU WH SWI, RDMOL.	
		KB=18' 41/16 HANGER = .83' 349 JTS 23/8 L-80 = 11,058.19' X/N & NOTCHED NIPPLE = 2.20' EOT @ 11,058.19'							

US ROCKIES REGION									
Operation Summary Report									
Well: NBU 920-20B					Spud Date: 2/4/2012				
Project: UTAH-UINTAH			Site: NBU 920-20B			Rig Name No: MILES-GRAY 1/1			
Event: RECOMPL/RESEREVEADD			Start Date: 4/25/2013		End Date: 5/1/2013				
Active Datum: RKB @4,780.00usft (above Mean Sea Level)			UWI: NW/NE/0/9/S/20/E/20/0/0/26/PM/N/1229/E/0/1580/0/0						
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation	
4/25/2013	7:00 - 7:15	0.25	SUBSPR	48		P		HSM-JSA	
	7:15 - 15:00	7.75	SUBSPR	31	I	P		MOVE EQUIP FROM NB U 920-20B, MIRU SPOT EQUIP, NDWH, NUBOP, POOH TALLY & STD BACK 349 JTS 2 3/8" TBG, RD FLOOR & TBG EQUIP, NDBOP, NUFV, FILL WELL W/ 20 BBLS TMAC, SWI, SDFN.	
4/26/2013	7:00 - 7:15	0.25	SUBSPR	48		P		HSM-JSA	
	7:15 - 15:00	7.75	SUBSPR	52	A	P		MIRU CAMERON PRESS TEST CSG & FRAC VALVES TO 7,000 PSI FOR 15 MIN, LOST 57 PSI IN 15 MIN, RD CAMERON, MIRU CASED HOLE SOLUTIONS. PERF STG 1)PU 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 120 DEG PHASING. RIH PERF AS PER PERF DESIGN. POOH, SWI, SDFWE.	
4/29/2013	7:00 - 7:15	0.25	FRAC	48		P		HSM-JSA	

US ROCKIES REGION

Operation Summary Report

Well: NBU 920-20B		Spud Date: 2/4/2012	
Project: UTAH-UINTAH		Site: NBU 920-20B	Rig Name No: MILES-GRAY 1/1
Event: RECOMPL/RESEREVEADD		Start Date: 4/25/2013	End Date: 5/1/2013
Active Datum: RKB @4,780.00usft (above Mean Sea Level)		UWI: NW/NE/0/9/S/20/E/20/0/0/26/PM/N/1229/E/0/1580/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	7:15 - 18:30	11.25	FRAC	36	B	P		<p>PSI TEST FRAC LINES TO 8000 PSI. LOST 200 PSI. GOOD TEST. BLEED OFF PSI. BEG FRACING.</p> <p>FRAC STG 1)WHP 1,904 PSI, BRK 3,918 PSI @ 3.2 BPM. ISIP 3,127 PSI, FG .74 ISIP 3,361 PSI, FG .76, NPI 234 PSI. SWI, XO TO WL.</p> <p>PERF STG 2)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM. .36 HOLE SIZE. 120 DEG PHASING. RIH SET CBP @ 10,367' P/U PERF AS PER DESIGN. POOH, XO TO FRAC.</p> <p>FRAC STG 2)WHP 1,882 PSI, BRK 4,600 PSI @ 3.7 BPM. ISIP 3,377 PSI, FG .77 ISIP 3,487 PSI, FG .78, NPI 110 PSI. SWI, XO TO WL.</p> <p>PERF STG 3)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM. .36 HOLE SIZE. 120 DEG PHASING. RIH SET CBP @ 10,136' P/U PERF AS PER DESIGN. POOH, XO TO FRAC.</p> <p>FRAC STG 3)WHP 1,509 PSI, BRK 4,878 PSI @ 4.2 BPM. ISIP 2,848 PSI, FG .72 ISIP 3,281 PSI, FG .77, NPI 433 PSI. SWI, XO TO WL.</p> <p>PERF STG 4)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM. .36 HOLE SIZE. 90 & 120 DEG PHASING. RIH SET CBP @ 9,921' P/U PERF AS PER DESIGN. POOH, XO TO FRAC.</p> <p>FRAC STG 4)WHP 1,370 PSI, BRK 4,065 PSI @ 3.4 BPM. ISIP 3,026 PSI, FG .75 ISIP 3,142 PSI, FG .76, NPI 116 PSI. SWI, XO TO WL.</p> <p>PERF STG 5)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM. .36 HOLE SIZE. 120 DEG PHASING. RIH SET CBP @ 9,487' P/U PERF AS PER DESIGN. POOH, XO TO FRAC.</p> <p>FRAC STG 5)WHP 1,384PSI, BRK 4,885 PSI @ 4.6 BPM. ISIP 2,506 PSI, FG .71 ISIP 3,158 PSI, FG .78, NPI 652 PSI. SWI, XO TO WL.</p> <p>PERF STG 6)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM. .36 HOLE SIZE. 120 DEG PHASING. RIH SET CBP @ 9,076' P/U PERF AS PER DESIGN. POOH, XO TO FRAC.</p> <p>FRAC STG 6)WHP 1,208PSI, BRK 6,372 PSI @ 4.1 BPM. ISIP 2,754 PSI, FG .75 ISIP 3,041 PSI, FG .78, NPI 287 PSI. SWI, XO TO WL.</p> <p>PERF STG 7)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM. .36 HOLE SIZE. 90 & 120 DEG PHASING. RIH SET CBP @ 8,366' P/U PERF AS PER DESIGN. POOH, XO TO FRAC.</p>

US ROCKIES REGION

Operation Summary Report

Well: NBU 920-20B		Spud Date: 2/4/2012	
Project: UTAH-UINTAH		Site: NBU 920-20B	Rig Name No: MILES-GRAY 1/1
Event: RECOMPL/RESEREVEADD		Start Date: 4/25/2013	End Date: 5/1/2013
Active Datum: RKB @4,780.00usft (above Mean Sea Level)		UWI: NW/NE/0/9/S/20/E/20/0/0/26/PM/N/1229/E/0/1580/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
								FRAC STG 7)WHP 1,069PSI, BRK 6,491 PSI @ 3.9 BPM. ISIP 2,809 PSI, FG .78 ISIP 3,142 PSI, FG .82, NPI 333 PSI. SWI, XO TO WL.
								PERF STG 8)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM. .36 HOLE SIZE. 90 & 120 DEG PHASING. RIH SET CBP @ 7,887' P/U PERF AS PER DESIGN. POOH, SWI, SDFN.
4/30/2013	7:00 - 7:15	0.25	FRAC	48		P		HSM-JSA
	7:15 - 12:00	4.75	FRAC	36	B	P		FRAC STG 8)WHP 1,970 PSI, BRK 4,196 PSI @ 3.8 BPM. ISIP 2,382 PSI, FG .75 ISIP 2,701 PSI, FG .79, NPI 319 PSI. SWI, XO TO WL.
								PERF STG 9)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM. .36 HOLE SIZE. 90 & 120 DEG PHASING. RIH SET CBP @ 7,594' P/U PERF AS PER DESIGN. POOH, XO TO FRAC.
								FRAC STG 9)WHP 1,809 PSI, BRK 4,504 PSI @ 3.9 BPM. ISIP 2,662 PSI, FG .79 ISIP 2,754 PSI, FG .81, NPI 92 PSI. SWI, XO TO WL.
								PERF STG 10)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM. .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 6,672' P/U PERF AS PER DESIGN. POOH, XO TO FRAC.
								FRAC STG 10)WHP 439 PSI, BRK 2,671 PSI @ 4.2 BPM. ISIP 1,781 PSI, FG .71 ISIP 2,319 PSI, FG .79, NPI 538 PSI. SWI, XO TO WL.
								PU 4 1/2 8K HAL CBP. RIH SET KILL PLUG @ 6,548'. POOH. SWI. RDMO FRAC EQUIP & WIRELINE.
								TOTAL SAND = 191,820 LBS TOTAL CLFL = 8,461 BBLS
	12:00 - 15:00	3.00	DRLOUT	31	I	P		NDFV, NUBOP, RIH W/ 205 JTS 2 3/8" L-80 EOT @ 6,512', RU PWR SWWL, SWI, SDFN.
5/1/2013	7:00 - 7:15	0.25	DRLOUT	48		P		HSM-JSA

US ROCKIES REGION

Operation Summary Report

Well: NBU 920-20B		Spud Date: 2/4/2012	
Project: UTAH-UINTAH		Site: NBU 920-20B	Rig Name No: MILES-GRAY 1/1
Event: RECOMPL/RESEREVEADD		Start Date: 4/25/2013	End Date: 5/1/2013
Active Datum: RKB @4,780.00usft (above Mean Sea Level)		UWI: NW/NE/0/9/S/20/E/20/0/0/26/PM/N/1229/E/0/1580/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	7:15 - 17:30	10.25	DRLOUT	44	C	P		<p>BRK CIRC PRESS TEST BOP TO 3,000 PSI, LOST 0 PSI IN 15 MIN, RIH TAG FILL @ 6,533'.</p> <p>C/O 15' SAND TAG PLUG #1 @ 6,548', DRL HAL 8K CBP IN 10 MIN, 300 PSI INC, FCP 50 PSI, RIH TAG FILL @ 6,652'.</p> <p>C/O 20' SAND TAG PLUG #2 @ 6,672', DRL HAL 8K CBP IN 8 MIN, 500 PSI INC, FCP 300 PSI, RIH TAG FILL @ 7,579'.</p> <p>C/O 15' SAND TAG PLUG #3 @ 7,594', DRL HAL 8K CBP IN 7 MIN, 600 PSI INC, FCP 300 PSI, RIH TAG FILL @ 7,837'.</p> <p>C/O 50' SAND TAG PLUG #4 @ 7,387', DRL HAL 8K CBP IN 7 MIN, 500 PSI INC, FCP 300 PSI, RIH TAG FILL @ 8,336'.</p> <p>C/O 30' SAND TAG PLUG #5 @ 8,366', DRL HAL 8K CBP IN 5 MIN, 600 PSI INC, FCP 350 PSI, RIH TAG FILL @ 9,046'.</p> <p>C/O 30' SAND TAG PLUG #6 @ 9,076', DRL HAL 8K CBP IN 6 MIN, 600 PSI INC, FCP 450 PSI, RIH TAG FILL @ 9,457'.</p> <p>C/O 30' SAND TAG PLUG #7 @ 9,487', DRL HAL 8K CBP IN 7 MIN, 600 PSI INC, FCP 500 PSI, RIH TAG FILL @ 9,891'.</p> <p>C/O 30' SAND TAG PLUG #8 @ 9,921', DRL HAL 8K CBP IN 7 MIN, 700 PSI INC, FCP 650 PSI, RIH TAG FILL @ 10,101'.</p> <p>C/O 35' SAND TAG PLUG #9 @ 10,136', DRL HAL 8K CBP IN 9 MIN, 300 PSI INC, FCP 700 PSI, RIH TAG FILL @ 10,337'.</p> <p>C/O 30' SAND TAG PLUG #10 @ 10,367', DRL HAL 8K CBP IN 10 MIN, 800 PSI INC, FCP 800 PSI, RIH TAG FILL @ 10,902' (308' BLW BTM PERF).</p> <p>CIRC CLEAN, RD PWR SWL, POOH LD 17 JTS TBG, LAND TBG W/ 327 JTS 2 3/8" L-80 EOT @ 10,387.03', RD FLOOR & TBG EQUIP, NDBOP, NUWH, DROP BALL POBS @ 2,500 PSI, TURN OVER TO FBC, SDFN.</p> <p>KB-18' HANGER-.83' 327 JTS 2 3/8" L-80-10,366.00 POBS-2.20 EOT-10,387.03 TLTR=8,721 BBLs</p>

US ROCKIES REGION								
Operation Summary Report								
Well: NBU 920-20B			Spud Date: 2/4/2012					
Project: UTAH-UINTAH			Site: NBU 920-20B			Rig Name No: MILES-GRAY 1/1		
Event: RECOMPL/RESEREVEADD			Start Date: 4/25/2013			End Date: 5/1/2013		
Active Datum: RKB @4,780.00usft (above Mean Sea Level)			UWI: NW/NE/0/9/S/20/E/20/0/0/26/PM/N/1229/E/0/1580/0/0					
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	17:30 - 17:30	0.00	DRLOUT	50				LR=3,170 BBLs TWLTR=5,551 BBLs WELL TURNED TO SALES @ 1745 HR ON 5/1/2013. 900 MCFD, 1560 BWPD, FCP 1300#, FTP 2000#, 20/64" CK.