

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

5a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. UTU-000577B
5b. 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 920-22J
3b. Phone No. (include area code) Raleen White 720-929-6666		9. API Well No. 4304740545
4. Location of well (Report location clearly and in accordance with any State requirements. *) At surface 2,086' FSL 1,575' FEL NW/4 SE/4 Lat. 40.019233 Long. -109.648816 At proposed prod. zone 615362X 4430555Y 40.019214 -109.648203		10. Field and Pool, or Exploratory Natural Buttes Field
14. Distance in miles and direction from the nearest town or post office* Approximately 37 miles south of Vernal, Utah		11. Sec., T., R., M., or Blk. and Survey or Area 22 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) 1,575'	16. No. of acres in lease 400.00	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. ±900'	19. Proposed Depth 10,700'	20. BLM/ BIA Bond No. on file WFB000291
21. Elevations (Show whether DF, RT, GR, etc.) 4,951' 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 authorized officer. |

25. Signature <i>Raleen White</i>	Name (Printed/ Typed) Raleen White	Date 2-13-2009
Title Sr Regulatory Analyst	E-mail: raleen.white@anadarko.com	Phone: 720-929-6666
Approved By (Signature) <i>Bradley G Hill</i>	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.

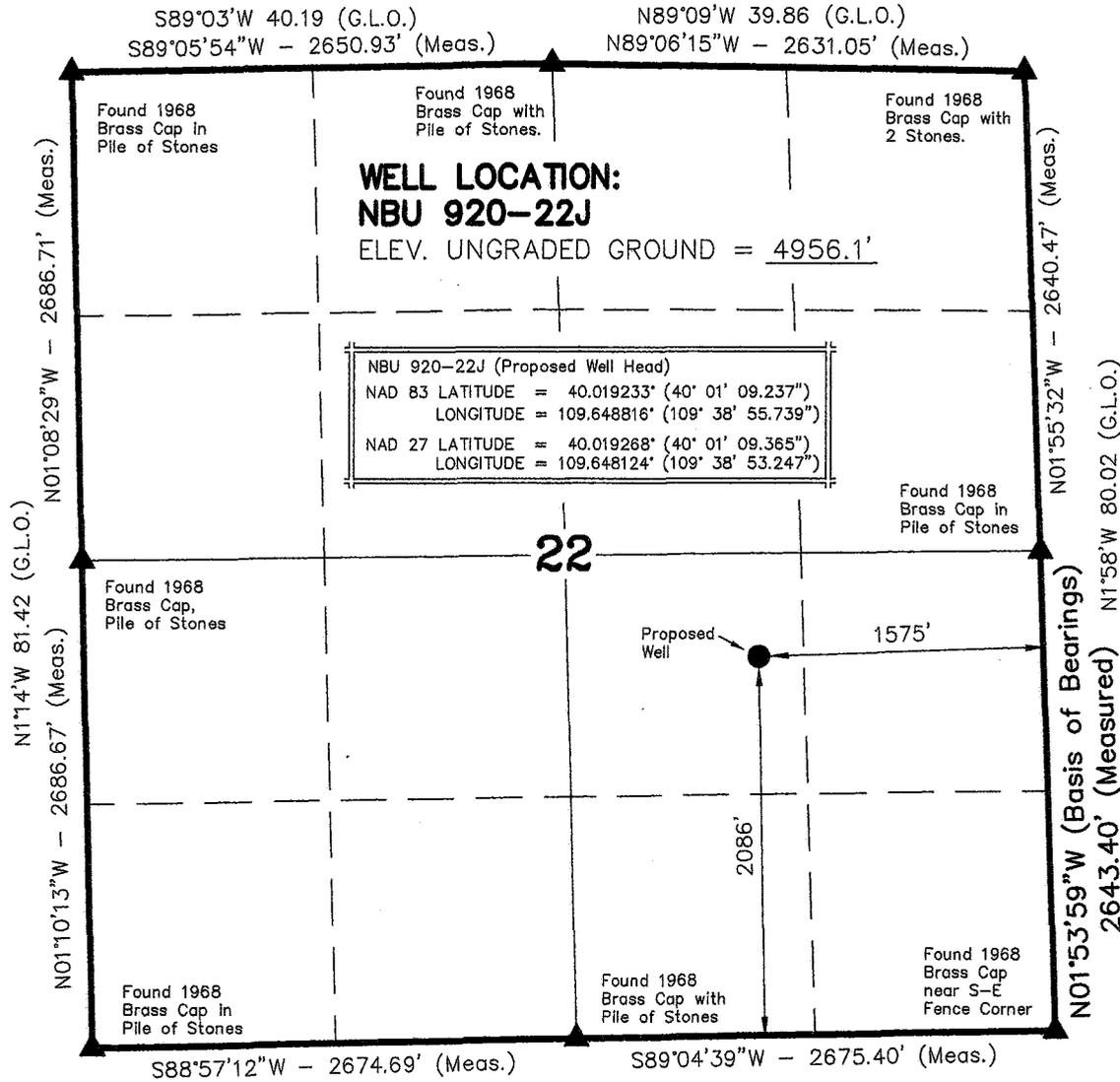
\*(Instructions on page 2)

**RECEIVED**  
**FEB 17 2009**

DIV. OF OIL, GAS & MINING

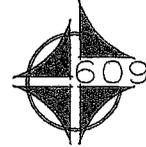
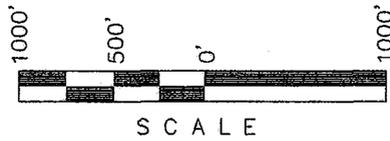
**Federal Approval of this  
Action is Necessary**

# 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'.



**SURVEYOR'S CERTIFICATE**

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

*Kolby R. Kay*  
 REGISTERED LAND SURVEYOR  
 REGISTRATION NO. 362251  
 STATE OF UTAH

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

**NBU 920-22J**  
**WELL PLAT**  
**2086' FSL, 1575' FEL**  
**NW ¼ SE ¼ OF SECTION 22, 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

<b>TIMBERLINE</b> (435) 789-1365		<b>SHEET</b> <b>1</b> <b>OF 9</b>
<b>ENGINEERING &amp; LAND SURVEYING, INC.</b>		
38 WEST 100 NORTH - VERNAL, UTAH 84078		
DATE SURVEYED: 12-04-08	SURVEYED BY: D.J.S.	
DATE DRAWN: 12-08-08	DRAWN BY: E.M.S.	
SCALE: 1" = 1000'	Date Last Revised: 1-22-09	

**NBU 920-22J  
NWSE Sec. 22, T9S R20E  
UINTAH COUNTY, UTAH  
UTU-000577B**

**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	1,814'	
Birds Nest	2,053'	Water
Mahogany	2,565'	Water
Wasatch	5,218'	Gas
Mesaverde	8,518'	Gas
MVU2	9,492'	Gas
MVL1	9,967'	Gas
TD	10,700'	

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 10,700' TD, approximately equals 6,833 psi (calculated at 0.64 psi/foot).

Maximum anticipated surface pressure equals approximately 4,479 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.

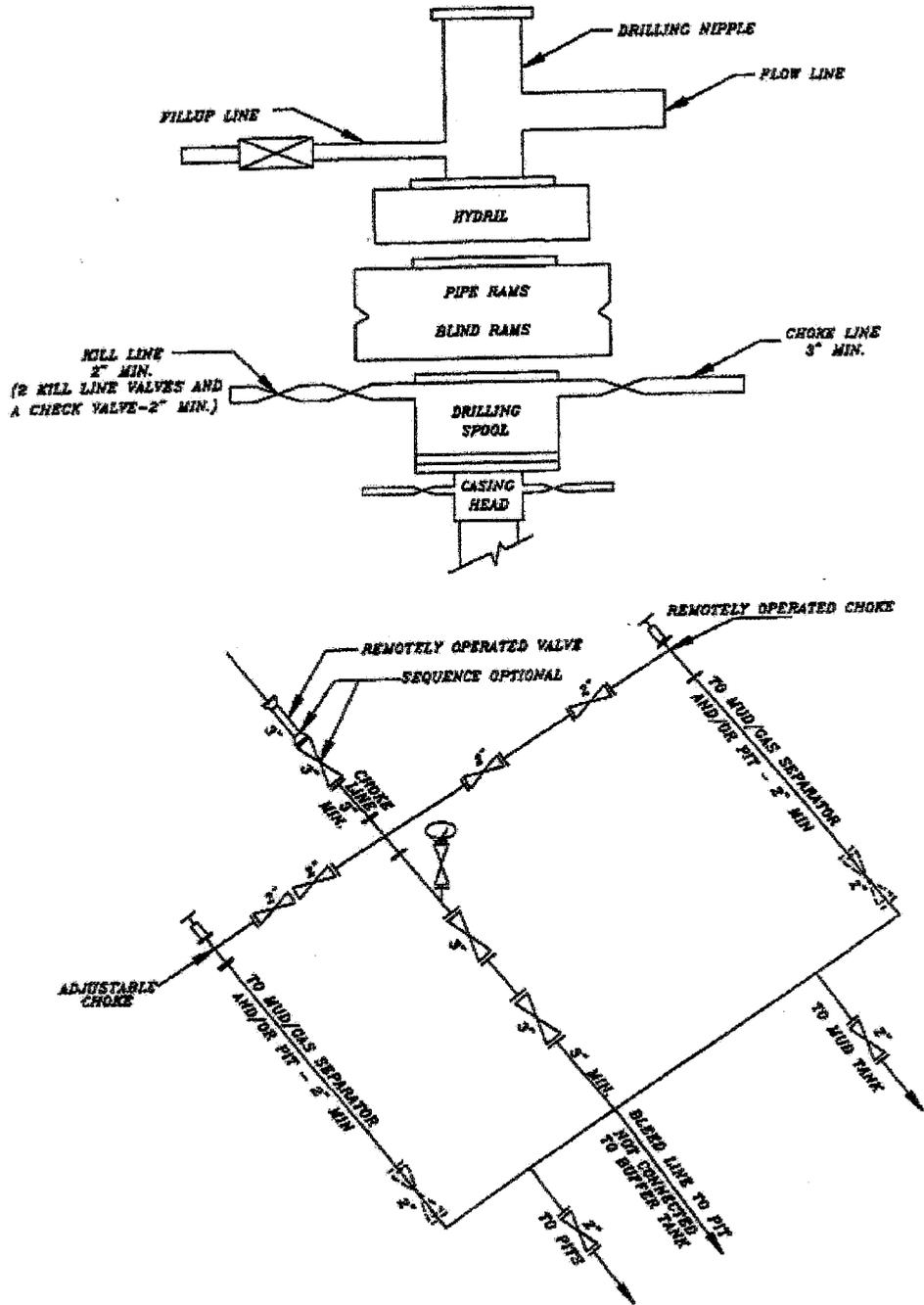
**Conclusion**

*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 920-22J



SCHEMATIC DIAGRAM OF 5,000 PSI BOP STACK

**NBU 920-22J  
NWSE Sec. 22 T9S R20E  
UINTAH COUNTY, UTAH  
UTU-000577B**

**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  $\pm 1,260'$  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

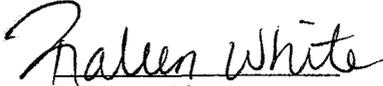
Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

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 # WYB000291.

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

  
Raleen White

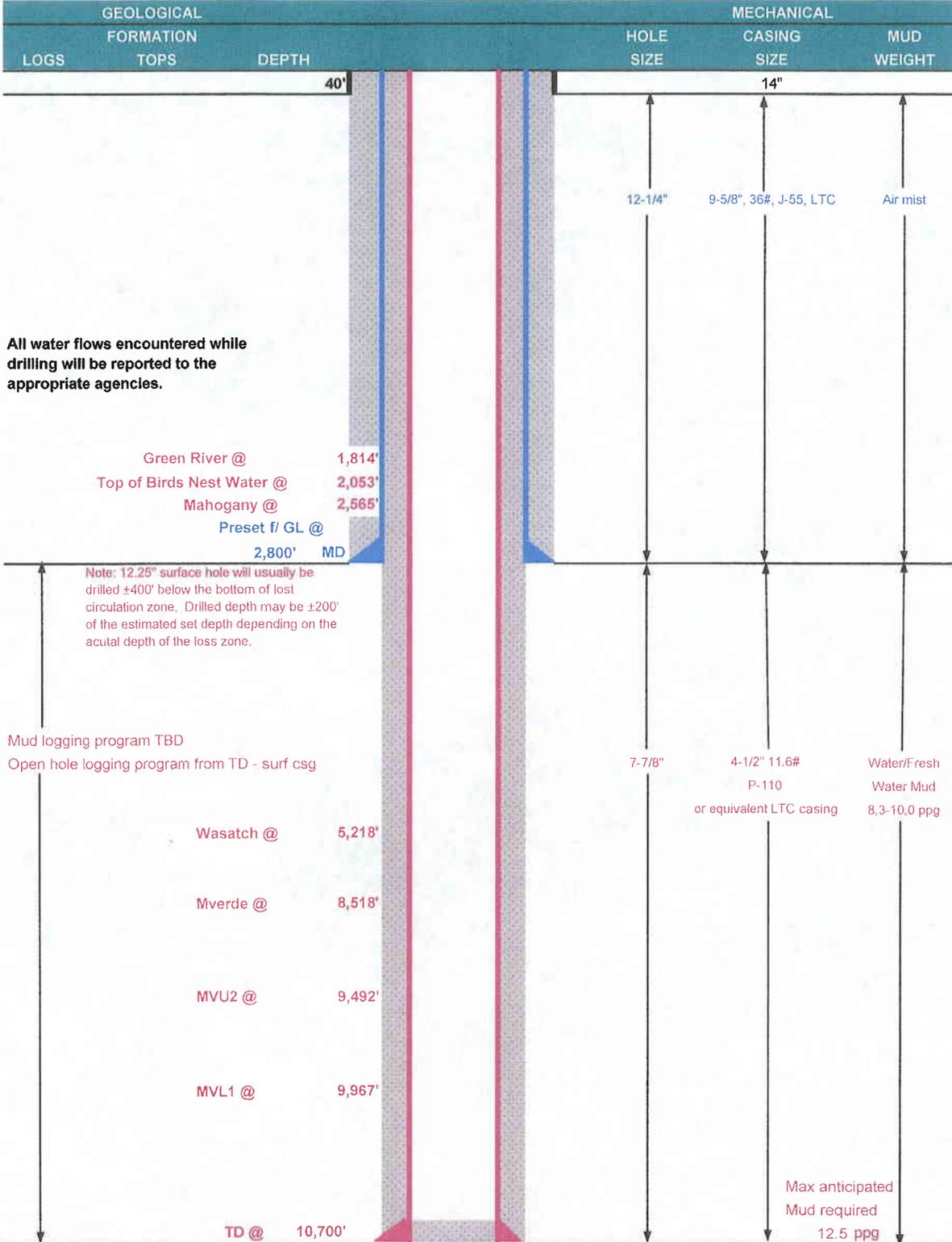
2/9/2009

Date



# KERR-McGEE OIL & GAS ONSHORE LP DRILLING PROGRAM

COMPANY NAME	KERR-McGEE OIL & GAS ONSHORE LP		DATE	February 9, 2009	
WELL NAME	NBU 920-22J		TD	10,700' MD/TVD	
FIELD	Natural Buttes	COUNTY	Uintah	STATE	Utah
		ELEVATION	4,951' GL		KB 4,966'
SURFACE LOCATION	NW/4 SE/4	2,086' FSL	1,575' FEL	Sec 22 T 9S R 20E	BHL Straight Hole
	Latitude:	40.019233	Longitude:	-109.648816	NAD 83
OBJECTIVE ZONE(S)	Wasatch/Mesaverde				
ADDITIONAL INFO	Regulatory Agencies: BLM (MINERALS), BIA (SURFACE), UDOGM, Tri-County Health Dept.				



**All water flows encountered while drilling will be reported to the appropriate agencies.**



# KERR-McGEE OIL & GAS ONSHORE LP DRILLING PROGRAM

## CASING PROGRAM

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS		
						BURST	COLLAPSE	TENSION
CONDUCTOR	14"	0-40'				3,520	2,020	453,000
SURFACE	9-5/8"	0 to 2800	36.00	J-55	LTC	0.77	1.54	5.72
PRODUCTION	4-1/2"	0 to 10700	11.60	P-110	LTC	10,690	7,580	279,000
						2.32	1.09	2.58

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 4,479 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 6,833 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 BWOOC	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	4,710'	Premium Lite II + 3% KCl + 0.25 pps celloflake + 5 pps gilsonite + 10% gel + 0.5% extender	510	60%	11.00	3.38
	TAIL	5,990'	50/50 Poz/G + 10% salt + 2% gel + .1% R-3	1670	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:

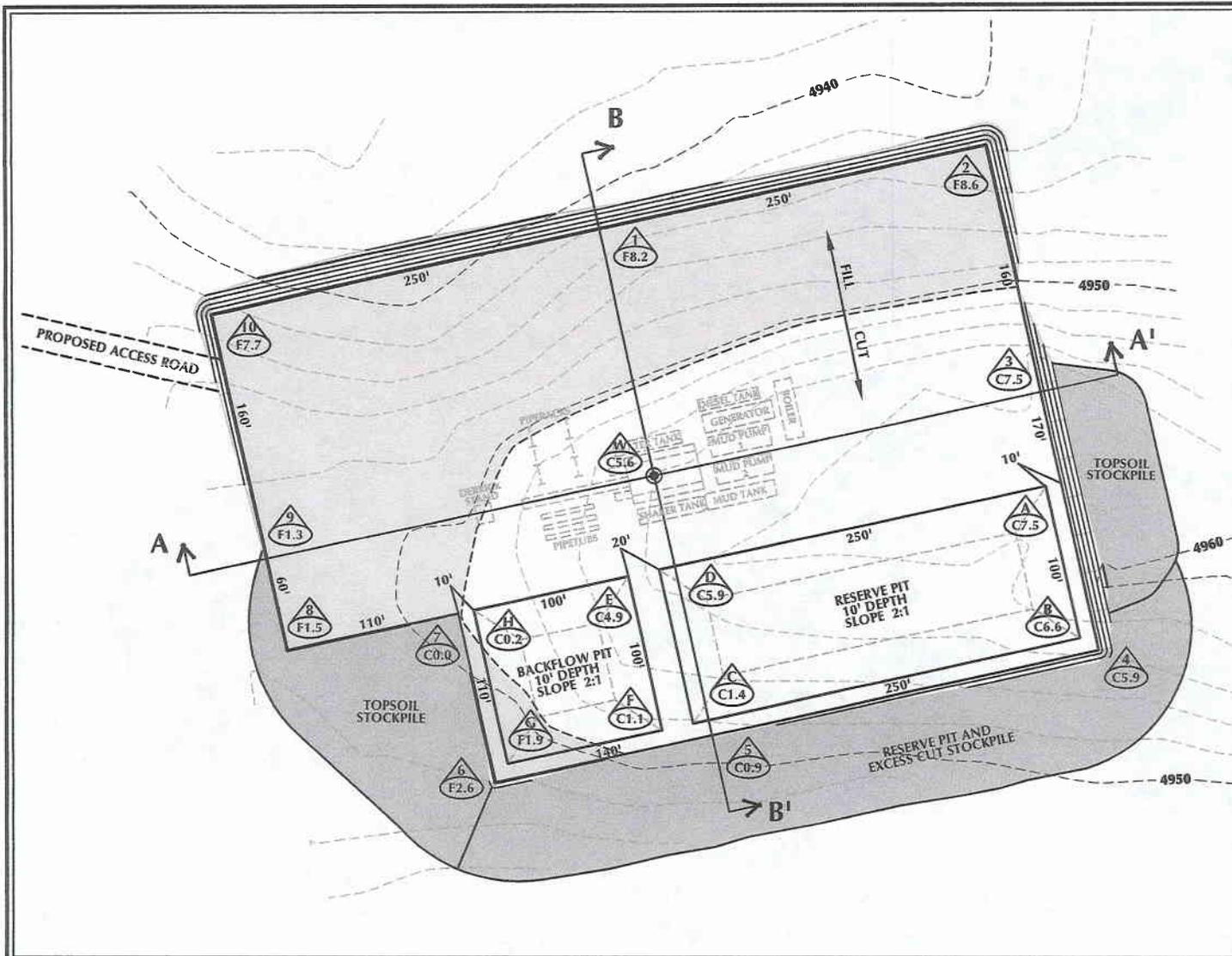
John Huycke / Grant Schluender

DATE:

DRILLING SUPERINTENDENT:

John Merkel / Lovel Young

DATE:



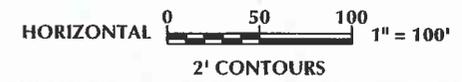
**WELL PAD LEGEND**

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

**WELL PAD NBU 920-22J QUANTITIES**

EXISTING GRADE @ LOC. STAKE = 4,956.1'  
 FINISHED GRADE ELEVATION = 4,950.5'  
 CUT SLOPES = 1.5:1  
 FILL SLOPES = 1.5:1

TOTAL CUT FOR WELL PAD = 14,484 C.Y.  
 TOTAL FILL FOR WELL PAD = 14,227 C.Y.  
 TOPSOIL @ 6" DEPTH = 3,085 C.Y.  
 EXCESS MATERIAL = 257 C.Y.  
 TOTAL DISTURBANCE = 3.82 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

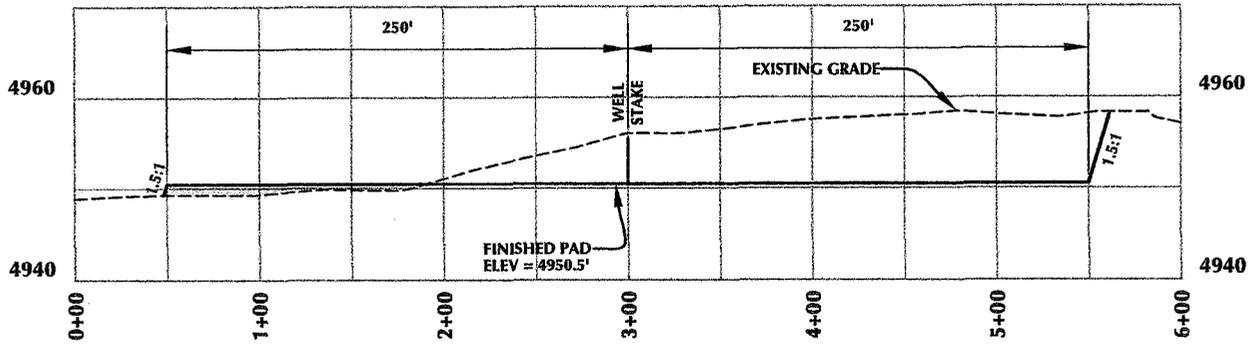


**CONSULTING, LLC**  
 371 Coffeen Avenue  
 Sheridan WY 82801  
 Phone 307-674-0609  
 Fax 307-674-0182

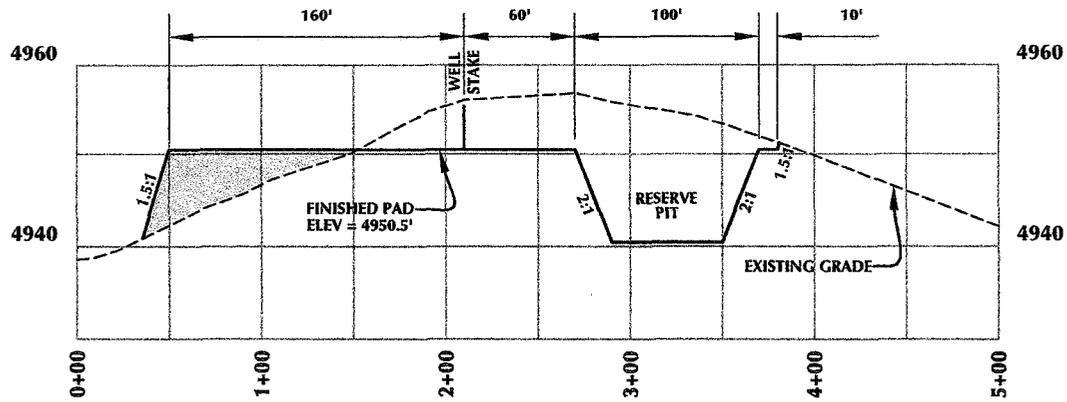
**NBU 920-22J**  
**WELL PAD - LOCATION LAYOUT**  
 2086' FSL, 1575' FEL  
 NW1/4SE1/4, SECTION 22, T.9S., R.20E.  
 S.L.B.&M., UTAH COUNTY, UTAH

Scale: 1"=100'	Date: 1/22/09	SHEET NO:
REVISED:	BY DATE	<b>2</b> OF 9

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



**CROSS SECTION A-A'**



**CROSS SECTION B-B'**

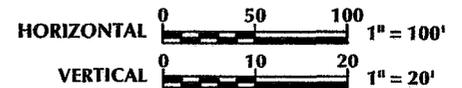
NOTE: CROSS SECTION B-B' DEPICTS  
MAXIMUM RESERVE PIT DEPTH.

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

1099 18th Street - Denver, Colorado 80202



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



**NBU 920-22J  
WELL PAD - CROSS SECTIONS  
2086' FSL, 1575' FEL  
NW1/4SE1/4, SECTION 22, T.9S., R.20E.  
S.L.B.&M., UINTAH COUNTY, UTAH**

Scale: 1"=100'	Date: 1/22/09	SHEET NO:
REVISED:	BY DATE	<b>3</b> 3 OF 9

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

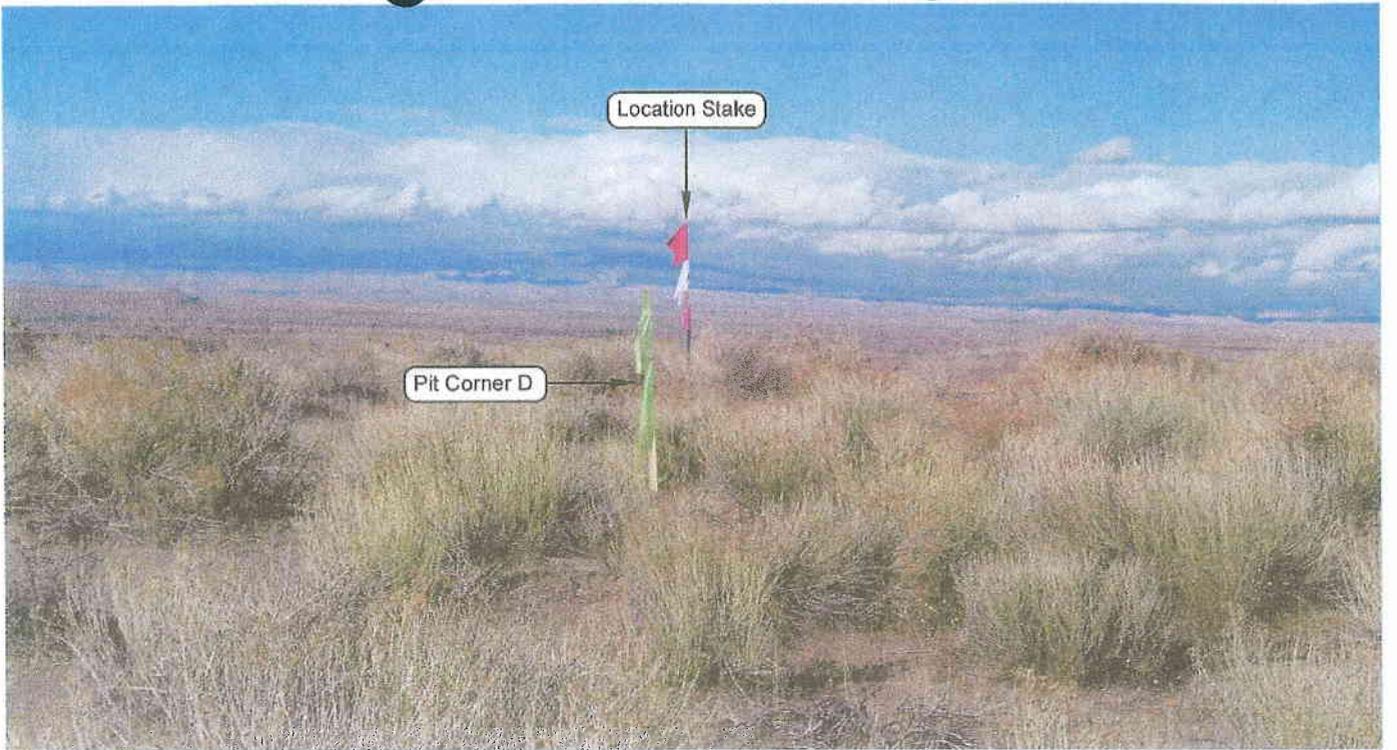


PHOTO VIEW: FROM PIT CORNER D TO LOCATION STAKE

CAMERA ANGLE: NORTHERLY

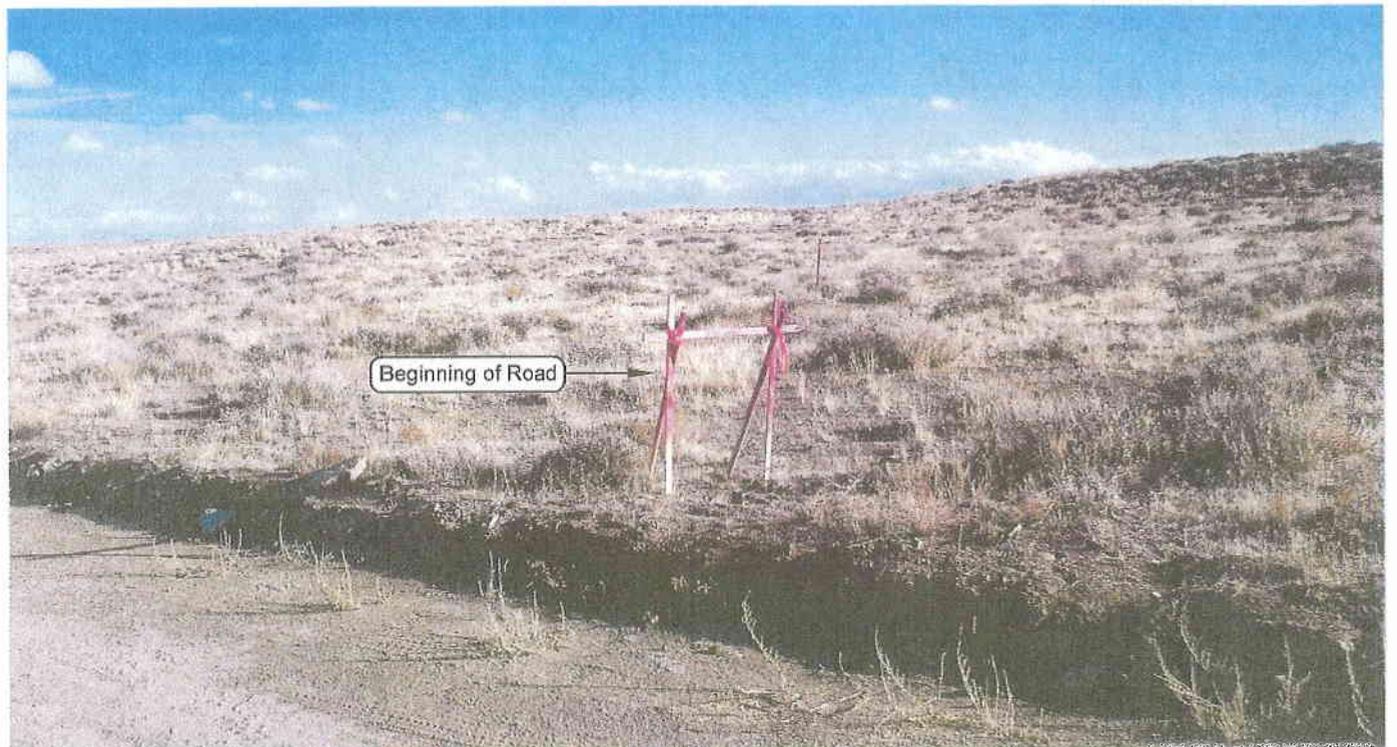


PHOTO VIEW: FROM BEGINNING OF PROPOSED ROAD

CAMERA ANGLE: SOUTHEASTERLY

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

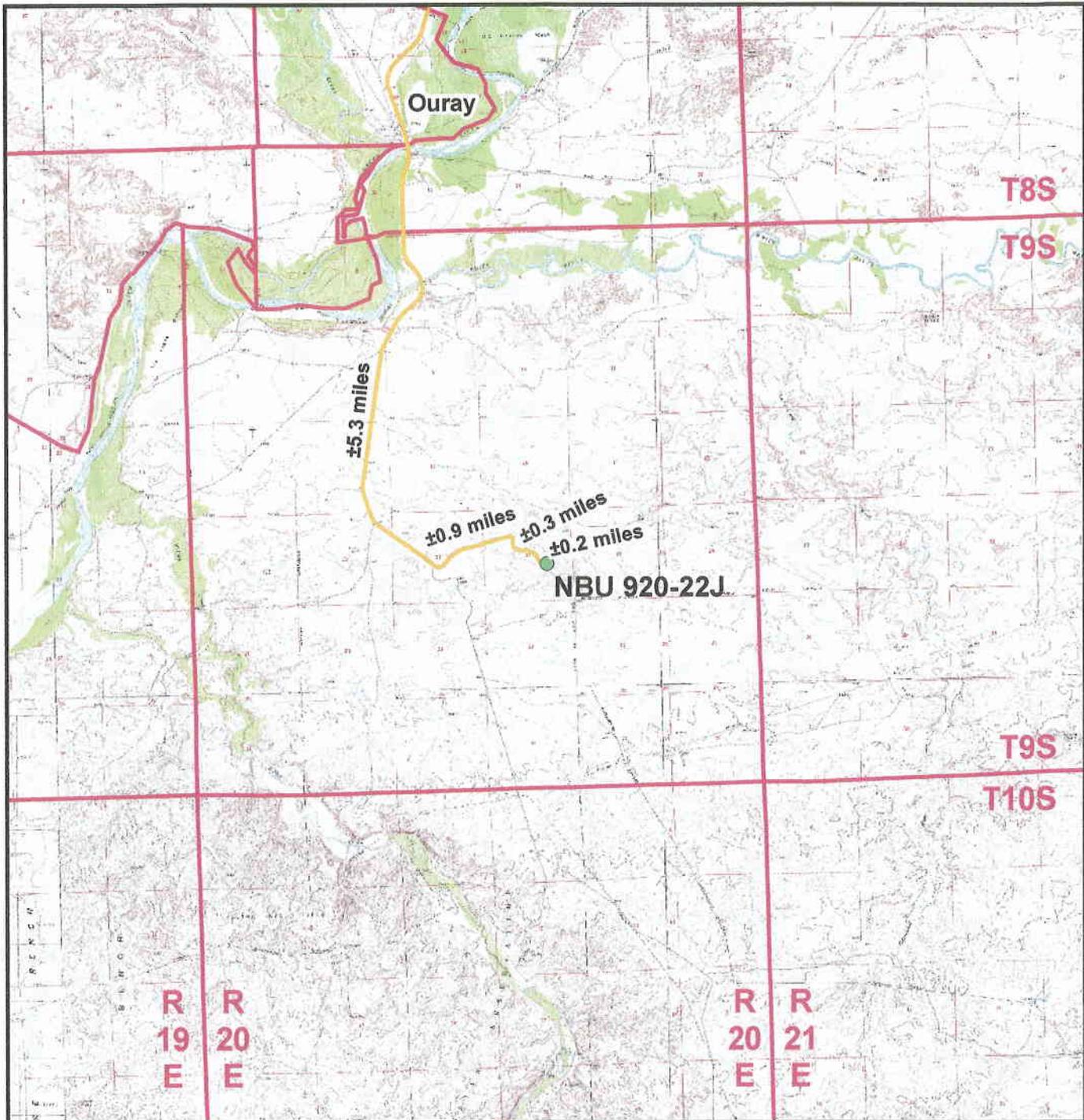
NBU 920-22J  
 2086' FSL, 1575' FEL  
 NW ¼ SE ¼ OF SECTION 22, T9S, R20E,  
 S.L.B.&M. UINTAH COUNTY, UTAH.



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

LOCATION PHOTOS		DATE TAKEN: 12-04-08
		DATE DRAWN: 12-08-08
TAKEN BY: D.J.S.	DRAWN BY: E.M.S.	REVISED:

<b>Timberline</b> Engineering & Land Surveying, Inc. 38 WEST 100 NORTH VERNAL, UTAH 84078	(435) 789-1363	SHEET <b>4</b> OF 9
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**Legend**

- Proposed NBU 920-22J Well Location
- Access Route - Proposed

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

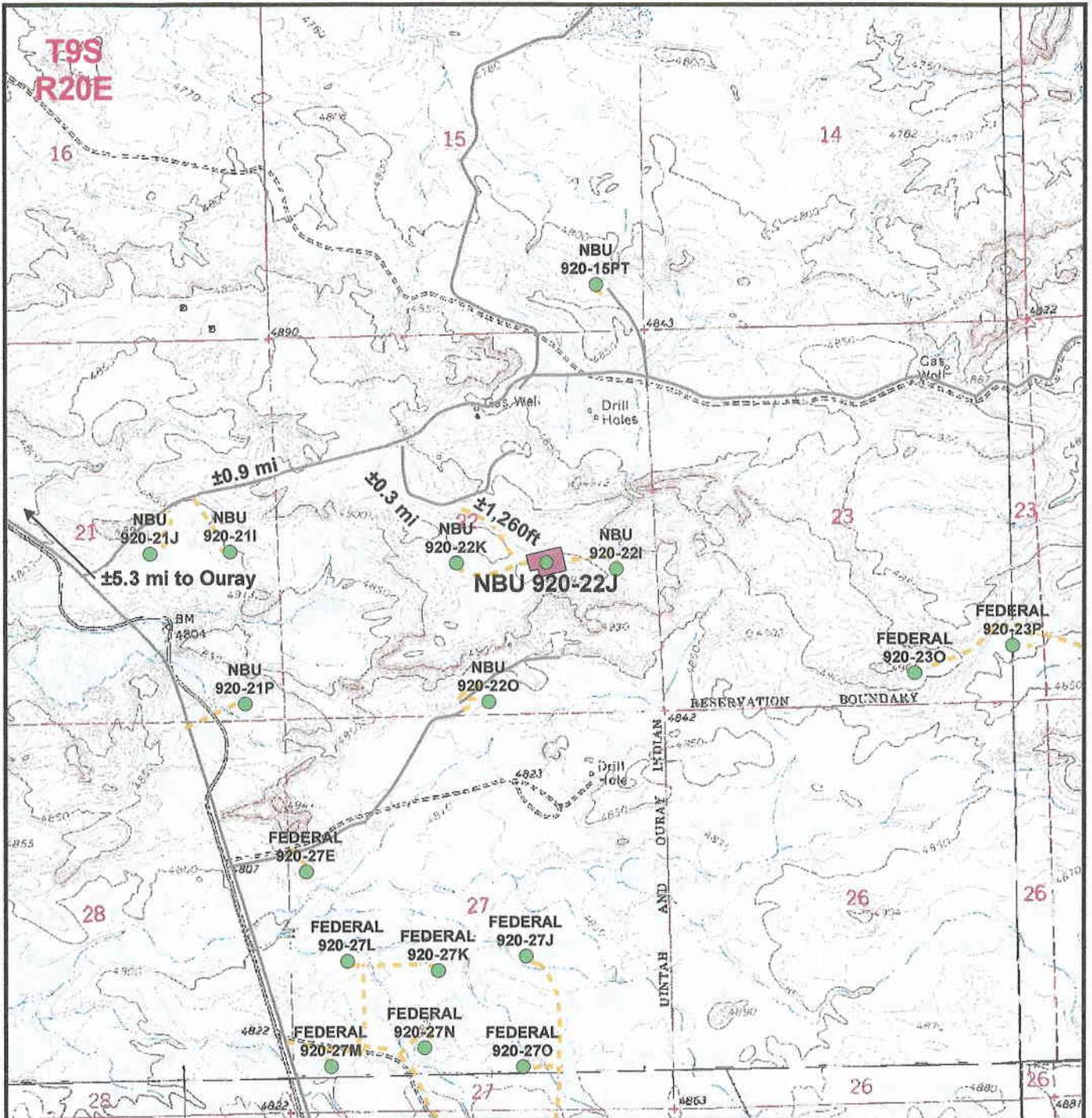
**NBU 920-22J**  
 Topo A  
 2086' FSL, 1575' FEL  
 NW¼ SE¼, Section 22, T9S, R20E  
 S.L.B.&M., Uintah County, Utah



**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: 21 Jan 2009	5
Revised:	Date:	



**Legend**

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

Total Proposed Road Length: ±1,260ft

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

**NBU 920-22J**  
**Topo B**  
 2086' FSL, 1575' FEL  
 NW¼ SE¼, Section 22, T9S, R20E  
 S.L.B.&M., Uintah County, Utah

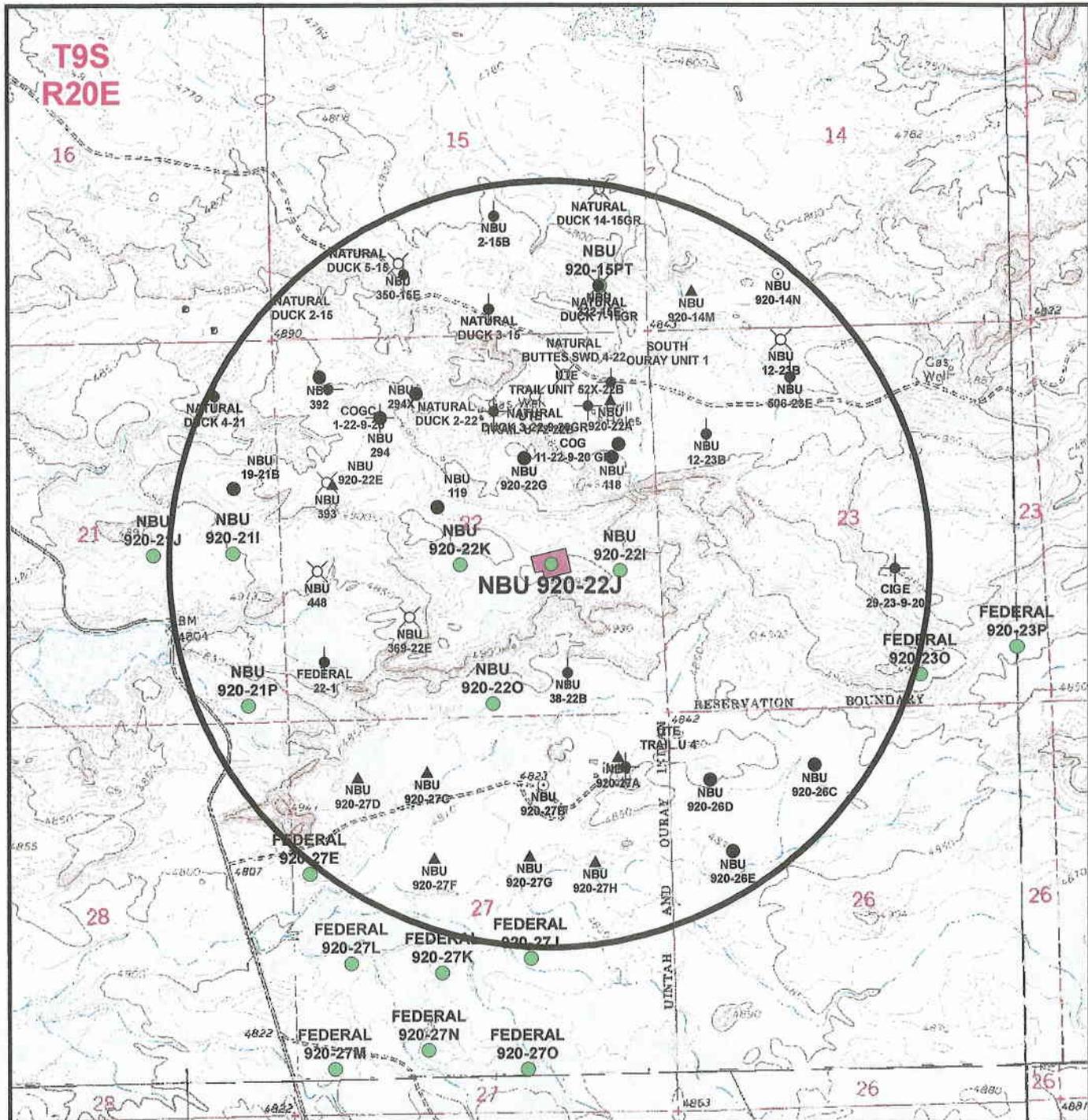


**CONSULTING, LLC**  
 371 Coffeen Avenue  
 Sheridan, WY 82801  
 Phone (307) 674-0609  
 Fax (307) 674-0182



Scale: 1" = 2000ft	NAD83 USP Central
Drawn: JELO	Date: 21 Jan 2009
Revised:	Date:

Sheet No:  
**6** 6 of 9



- Legend** Well locations derived from State of Utah, Dept. of Natural Resources, Division of Oil, Gas and Mining
- Well - Proposed
  - ◻ Well - 1 Mile Radius
  - Producing
  - ✕ Location Abandoned
  - Well Pad
  - ▲ Approved permit (APD); not yet spudded
  - Spudded (Drilling commenced: Not yet comple
  - Temporarily-Abandoned
  - Plugged and Abandoned
  - Shut-In

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

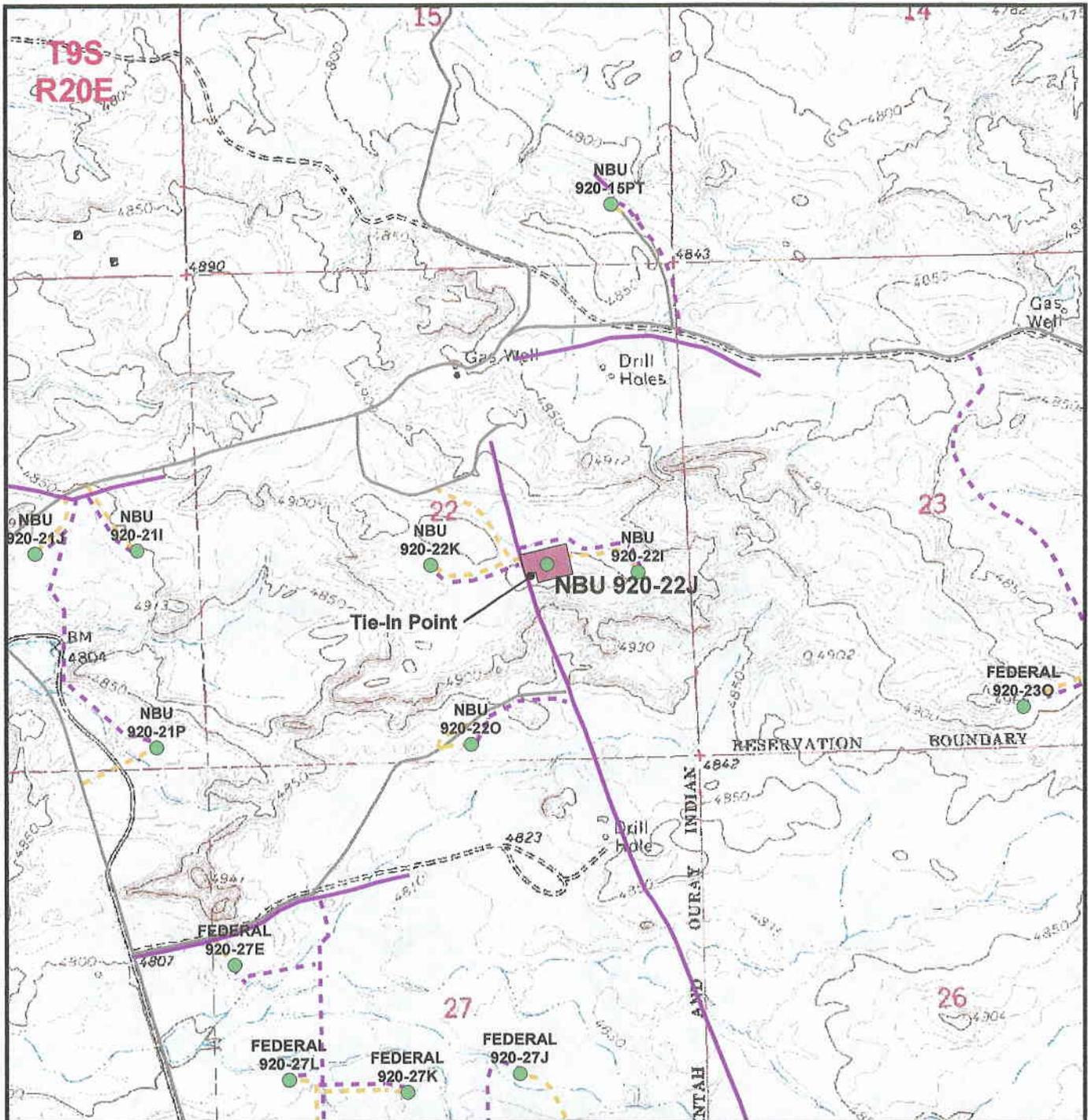
**NBU 920-22J**  
 Topo C  
 2086' FSL, 1575' FEL  
 NW¼ SE¼, Section 22, T9S, R20E  
 S.L.B.&M., Uintah County, Utah

**609**

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



Scale: 1" = 2000ft	NAD83 USP Central	Sheet No:
Drawn: JELO	Date: 21 Jan 2009	<b>7</b>
Revised:	Date:	7 of 9



**Legend**

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

Proposed Pipeline Length From Tie-In Point To Edge Of Pad: ±35ft  
 Proposed Pipeline Length Around Pad: ±660ft

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

**NBU 920-22J**  
 Topo D  
 2086' FSL, 1575' FEL  
 NW¼ SE¼, Section 22, 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	NAD83 USP Central	Sheet No:
Drawn: JELo	Date: 21 Jan 2009	<b>8</b> 8 of 9
Revised:	Date:	

**Kerr-McGee Oil & Gas Onshore, LP**  
**NBU 920-22J**  
**Section 22, 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 5.3 MILES TO THE INTERSECTION OF A SERVICE ROAD TO THE EAST. EXIT LEFT AND PROCEED IN AN EAST BY NORTHEAST DIRECTION ALONG THE SERVICE ROAD APPROXIMATELY 0.9 MILES TO A SECOND SERVICE ROAD TO THE SOUTH. EXIT RIGHT AND PROCEED IN A SOUTHERLY, THEN EASTERLY DIRECTION ALONG THE SECOND SERVICE ROAD APPROXIMATELY 0.3 MILES TO THE PROPOSED ACCESS ROAD. FOLLOW ROAD FLAGS IN A SOUTHEASTERLY DIRECTION APPROXIMATELY 1,260 FEET TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 37.4 MILES IN A SOUTHERLY DIRECTION.

**WORKSHEET  
APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 02/17/2009

API NO. ASSIGNED: 43-047-40545

WELL NAME: NBU 920-22J  
 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		

NWSE 22 090S 200E  
 SURFACE: 2086 FSL 1575 FEL  
 BOTTOM: 2086 FSL 1575 FEL  
 COUNTY: UINTAH  
 LATITUDE: 40.01921 LONGITUDE: -109.6482  
 UTM SURF EASTINGS: 615362 NORTHINGS: 4430555  
 FIELD NAME: NATURAL BUTTES ( 630 )

LEASE TYPE: 1 - Federal  
 LEASE NUMBER: UTU-000577B  
 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' from wellbore? uncomm. tract
- R649-3-11. Directional Drill

COMMENTS: See Separate BU

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 920-22J Well, 2086' FSL, 1575' FEL, NW SE, Sec. 22, 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 43-047-40545.

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 920-22J

API Number: 43-047-40545

Lease: UTU-000577B

Location: NW SE                      Sec. 22              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.

FEB 17 2009

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**

BLM VERNAL, UTAH

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. UTU-000577B
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 920-22J
3b. Phone No. (include area code) Raleen White 720-929-6666		9. API Well No. 43 047 40545
4. Location of well (Report location clearly and in accordance with any State requirements.)* At surface 2,086' FSL 1,575' FEL NW/4 SE/4 Lat. 40.019233 Long. -109.648816 At proposed prod. zone		10. Field and Pool, or Exploratory Natural Buttes Field
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drlg. unit line, if any) 1,575'		11. Sec., T., R., M., or Blk. and Survey or Area 22 T 9S R 20E S.L.B. & M.
16. No. of acres in lease 400.00		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. ±900'		20. BLM/ BIA Bond No. on file NFB000291
19. Proposed Depth 10,700'		21. Elevations (Show whether DF, RT, GR, etc.) 4,951' 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 authorized officer. |

25. Signature <i>Raleen White</i>	Name (Printed/ Typed) Raleen White	Date 2-13-2009
Title Sr Regulatory Analyst	E-mail: raleen.white@anadarko.com	Phone: 720-929-6666
Approved By (Signature) <i>Stephanie J Howard</i>	Name (Printed/ Typed) Stephanie J Howard	Date 10/16/09
Title Acting Assistant Field Manager Lands & Mineral Resources	Office VERNAL FIELD OFFICE	

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

**CONDITIONS OF APPROVAL ATTACHED**

Conditions of approval, if any, are attached.

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

\* (Instructions on page 2)

NOTICE OF APPROVAL

UDOGM

RECEIVED

OCT 27 2009

NOS and posted 2/18/09

DIV. OF OIL, GAS & MINING # 095XS0711A



**UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
VERNAL FIELD OFFICE  
VERNAL, UT 84078**



170 South 500 East

(435) 781-4400

**CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL**

<b>Company:</b>	<b>Kerr McGee Oil &amp; Gas Onshore, LP</b>	<b>Location:</b>	<b>NWSE, Sec. 22, T9S, R20E</b>
<b>Well No:</b>	<b>NBU 920-22J</b>	<b>Lease No:</b>	<b>UTU-0577B</b>
<b>API No:</b>	<b>43-047-40545</b>	<b>Agreement:</b>	<b>Natural Buttes Unit</b>

**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: <a href="mailto:ut_vn_opreport@blm.gov">ut_vn_opreport@blm.gov</a> .
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:**

1. Paint facilities "shadow gray."
2. Utilize pit-run/gravel for well pad and access road support.
3. Monitor location by a permitted archaeologist during the construction process.
4. If project construction operations are scheduled to occur after December 31, 2009, KMG will conduct additional raptor surveys in accordance with the guidelines specified in the Utah Field Office Guidelines for Raptor Protection for Human and Land Use Disturbances, 2002 and conduct its operations according to applicable seasonal restrictions and spatial offsets.
5. If project construction operation are scheduled to occur after June 16, 2010, KMG will conduct additional biological surveys in accordance with the guidelines specified I the USFWS Rare Plant Conservation Measures for Uinta Basin hookless cactus and conduct its operation according to its specifications.

**BIA Standard Conditions of Approval:**

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

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

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

**SITE SPECIFIC DOWNHOLE COAs:**

1. 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.
2. 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.
3. Conductor casing shall be set into competent formation.

toc\_1800\_operDrlgPlan#4  
CsgSurf\_set\_2600 to 2800  
Kerr McGee apd coa Downhole

4. 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).
5. 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.
6. A copy of Kerr McGee's Standard Operating Practices (SOP version: dated 7/17/08 and approved 7/28/08) shall be on location.
7. 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.
8. 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.

9. 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.
10. 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.
- 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.

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>  <b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-000577B
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<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  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.	<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b> UTE  <b>7. UNIT or CA AGREEMENT NAME:</b> NATURAL BUTTES
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<b>1. TYPE OF WELL</b> Gas Well	<b>8. WELL NAME and NUMBER:</b> NBU 920-22J
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<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.	<b>9. API NUMBER:</b> 43047405450000
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<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	<b>PHONE NUMBER:</b> 720 929-6007 Ext	<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES
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<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 2086 FSL 1575 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWSE Section: 22 Township: 09.0S Range: 20.0E Meridian: S	<b>COUNTY:</b> UINTAH  <b>STATE:</b> 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"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 11/19/2009  <input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:  <input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:  <input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<input type="checkbox"/> ACIDIZE <input checked="" type="checkbox"/> <b>CHANGE TO PREVIOUS PLANS</b> <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 checked="" type="checkbox"/> <b>ALTER CASING</b> <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:

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

Kerr-McGee Oil & Gas Onshore LP (KMG) respectfully requests to change the surface casing size for this well. The surface casing size is changing FROM: 9-5/8" TO: 8-5/8". Please see the attached drilling program for additional details. If you have any questions, please contact the undersigned. Thank you.

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

Date: November 23, 2009

By: *Danielle Piernot*

<b>NAME (PLEASE PRINT)</b> Danielle Piernot	<b>PHONE NUMBER</b> 720 929-6156	<b>TITLE</b> Regulatory Analyst
<b>SIGNATURE</b> N/A		<b>DATE</b> 11/18/2009





**KERR-McGEE OIL & GAS ONSHORE LP  
DRILLING PROGRAM**

**CASING PROGRAM**

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS		
						BURST	COLLAPSE	TENSION
CONDUCTOR	14"	0-40'				3,390	1,880	437,000
SURFACE	8-5/8"	0 to 2765	28.00	J-55	LTC	0.76*	1.45	5.64
PRODUCTION	4-1/2"	0 to 9600	11.60	I-80	BTC	7,780	6,350	278,000
		9600 to 10700	11.60	HCP-110	LTC	1.75	1.04	2.75
						10,690	8,650	279,000
						2.41	1.27	26.88

\*Burst on surface casing is controlled by fracture gradient as shoe with gas gradient above. D.F. = 1.95

- 1) Max Anticipated Surf. Press. (MASP) (Surf Csg) = (Pore Pressure at next csg point - (0.22 psi/ft-partial evac grad x TVD of next csg point))  
 (Burst Assumptions: TD = 12.2 ppg) 0.22 psi/ft = gradient for partially evac wellbore  
 (Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing\*Buoy.Fact. of water)  
**MASP 4,312 psi**
- 3) Maximum Anticipated Bottom Hole Pressure (MABHP) = Pore Pressure at TD  
 (Burst Assumptions: TD = 12.2 ppg) 0.62 psi/ft = bottomhole gradient  
 (Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing\*Buoy.Fact. of water)  
**MABHP 6,666 psi**

**CEMENT PROGRAM**

	FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE LEAD	500'	Premium cmt + 2% CaCl + 0.25 pps flocele	215	60%	15.60	1.18
Option 1 TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt + 2% CaCl + 0.25 pps flocele Premium cmt + 2% CaCl	260	0%	15.60	1.18
<b>NOTE: If well will circulate water to surface, option 2 will be utilized</b>						
SURFACE LEAD	2,265'	Prem cmt + 16% Gel + 10 pps gilsonite + 0.25 pps Flocele + 3% salt BWOC	210	35%	11.00	3.82
TAIL	500'	Premium cmt + 2% CaCl + 0.25 pps flocele	150	35%	15.60	1.18
TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
PRODUCTION LEAD	4,710'	Premium Lite II + 0.25 pps celloflake + 5 pps gilsonite + 10% gel ' + 1% Retarder	380	40%	11.00	3.38
TAIL	5,990'	50/50 Poz/G + 10% salt + 2% gel + 0.1% R-3	1,470	40%	14.30	1.31

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

**FLOAT EQUIPMENT & CENTRALIZERS**

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

**ADDITIONAL INFORMATION**

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

DRILLING ENGINEER: \_\_\_\_\_ DATE: \_\_\_\_\_  
 John Huycke / Emile Goodwin  
 DRILLING SUPERINTENDENT: \_\_\_\_\_ DATE: \_\_\_\_\_  
 John Merkel / Lovel Young

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>  <b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-000577B
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<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  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.	<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b> UTE  <b>7. UNIT or CA AGREEMENT NAME:</b> NATURAL BUTTES
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<b>1. TYPE OF WELL</b> Gas Well	<b>8. WELL NAME and NUMBER:</b> NBU 920-22J
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<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.	<b>9. API NUMBER:</b> 43047405450000
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<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	<b>PHONE NUMBER:</b> 720 929-6007 Ext	<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES
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<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 2086 FSL 1575 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWSE Section: 22 Township: 09.0S Range: 20.0E Meridian: S	<b>COUNTY:</b> UINTAH  <b>STATE:</b> 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"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 11/30/2009  <input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:  <input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:  <input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<input type="checkbox"/> ACIDIZE <input checked="" type="checkbox"/> <b>CHANGE TO PREVIOUS PLANS</b> <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:

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

Kerr-McGee Oil & Gas Onshore LP (KMG) respectfully requests to change the grade of surface drilling pipe for this well. The surface pipe grade is changing FROM: J-55 LT&C TO: IJ-55 LT&C. Please see the attached drilling program for additional details. If you have any questions, please contact the undersigned. Thank you.

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

Date: November 25, 2009

By: *Danielle Piernot*

<b>NAME (PLEASE PRINT)</b> Danielle Piernot	<b>PHONE NUMBER</b> 720 929-6156	<b>TITLE</b> Regulatory Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 11/24/2009	





## KERR-McGEE OIL & GAS ONSHORE LP DRILLING PROGRAM

### CASING PROGRAM

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS		
						BURST	COLLAPSE	TENSION
CONDUCTOR	14"	0-40'				3,390	1,880	348,000
SURFACE	8-5/8"	0 to 2765	28.00	IJ-55	LTC	0.76*	1.45	4.49
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		9600 to 10700	11.60	HCP-110	LTC	1.75	1.04	2.75
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\*Burst on surface casing is controlled by fracture gradient as shoe with gas gradient above. D.F. = 1.95

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**MASP 4,312 psi**
- 3) Maximum Anticipated Bottom Hole Pressure (MABHP) = Pore Pressure at TD  
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**MABHP 6,666 psi**

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DRILLING ENGINEER: \_\_\_\_\_ DATE: \_\_\_\_\_  
 John Huycke / Emile Goodwin

DRILLING SUPERINTENDENT: \_\_\_\_\_ DATE: \_\_\_\_\_  
 John Merkel / Lovel Young



<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>  <b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-000577B
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  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.	<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b> UTE  <b>7. UNIT or CA AGREEMENT NAME:</b> NATURAL BUTTES
<b>1. TYPE OF WELL</b> Gas Well	<b>8. WELL NAME and NUMBER:</b> NBU 920-22J
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.	<b>9. API NUMBER:</b> 43047405450000
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	<b>PHONE NUMBER:</b> 720 929-6007 Ext
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 2086 FSL 1575 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWSE Section: 22 Township: 09.0S Range: 20.0E Meridian: S	<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES  <b>COUNTY:</b> UINTAH  <b>STATE:</b> UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> 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"/> <b>SPUD REPORT</b> Date of Spud: 12/12/2009	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> <b>DRILLING REPORT</b> 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: _____

**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" SCHEDULE 10 PIPE. CMT W/28 SX READY MIX. SPUD WELL LOCATION ON 12/12/2009 AT 12:30 HRS.

**Accepted by the**  
**Utah Division of**  
**Oil, Gas and Mining**  
**FOR RECORD ONLY**  
 December 21, 2009

<b>NAME (PLEASE PRINT)</b> Andy Lytle	<b>PHONE NUMBER</b> 720 929-6100	<b>TITLE</b> Regulatory Analyst
<b>SIGNATURE</b> N/A		<b>DATE</b> 12/14/2009

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: P.O. Box 173779  
city DENVER  
state CO zip 80217 Phone Number: (720) 929-6100

**Well 1**

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304740545	NBU 920-22J		NWSE	22	9S	20E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
B	99999	2900	12/12/2009			12/22/09	
<b>Comments:</b> MIRU PETE MARTIN BUCKET RIG. <i>WSTMVD</i> SPUD WELL LOCATION ON 12/12/2009 AT 12:30 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	
<b>Comments:</b>							

**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	
<b>Comments:</b>							

**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)

ANDY LYTLE

Name (Please Print)

Signature

REGULATORY ANALYST

Title

12/14/2009

Date

**RECEIVED**

**DEC 15 2009**

DIV. OF OIL, GAS & MINING

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>  <b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-000577B
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  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.	<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b> UTE  <b>7. UNIT or CA AGREEMENT NAME:</b> NATURAL BUTTES
<b>1. TYPE OF WELL</b> Gas Well	<b>8. WELL NAME and NUMBER:</b> NBU 920-22J
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.	<b>9. API NUMBER:</b> 43047405450000
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	<b>PHONE NUMBER:</b> 720 929-6007 Ext
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 2086 FSL 1575 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWSE Section: 22 Township: 09.0S Range: 20.0E Meridian: S	<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES  <b>COUNTY:</b> UINTAH  <b>STATE:</b> UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input checked="" type="checkbox"/> <b>DRILLING REPORT</b> Report Date: 1/12/2010	<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: _____

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

FINISHED DRILLING FROM 2,760' TO 10,732' ON 1/10/2010. PUMP 20 BBLS OF WATER. LEAD CMT W/630 SX CLASS G PREM LITE @ 12.8 PPG, 1.85 YIELD. TAILED CMT W/1187 SX CLASS G 50/50 POZ MIX @ 14.3 PPG, 1.31 YIELD. WASH LINES, DROP PLUG & DISPLACE W/166 BBLS WATER W/CLAYTREAT & MAGNACIDE TO BUMP PLUG W/3775 PSI. NO CEMENT CIRCULATED TO SURFACE. WASH STACK, RIG DOWN CEMENTERS. CLEAN PITS. RELEASE ENSIGN 145 RIG ON 01/12/2010 AT 05:00 HRS.

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

<b>NAME (PLEASE PRINT)</b> Andy Lytle	<b>PHONE NUMBER</b> 720 929-6100	<b>TITLE</b> Regulatory Analyst
<b>SIGNATURE</b> N/A		<b>DATE</b> 1/12/2010

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>  <b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-000577B
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  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.	<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b> UTE  <b>7. UNIT or CA AGREEMENT NAME:</b> NATURAL BUTTES
<b>1. TYPE OF WELL</b> Gas Well	<b>8. WELL NAME and NUMBER:</b> NBU 920-22J
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.	<b>9. API NUMBER:</b> 43047405450000
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	<b>PHONE NUMBER:</b> 720 929-6007 Ext
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 2086 FSL 1575 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWSE Section: 22 Township: 09.0S Range: 20.0E Meridian: S	<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES  <b>COUNTY:</b> UINTAH  <b>STATE:</b> UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input checked="" type="checkbox"/> <b>DRILLING REPORT</b> Report Date: 2/19/2010	<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"/> <b>PRODUCTION START OR RESUME</b>	<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
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	<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: _____

**12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.**  
 THE SUBJECT WELL WAS PLACED ON PRODUCTION ON 2/19/2010 AT 10:00 A.M.

Accepted by the  
 Utah Division of  
 Oil, Gas and Mining  
**FOR RECORD ONLY**  
 February 24, 2010

<b>NAME (PLEASE PRINT)</b> Andy Lytle	<b>PHONE NUMBER</b> 720 929-6100	<b>TITLE</b> Regulatory Analyst
<b>SIGNATURE</b> N/A		<b>DATE</b> 2/22/2010

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.  
UTU0577B

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

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

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

4. Location of Well (Report location clearly and in accordance with Federal requirements)\*  
 At surface NWSE 2086FSL 1575FEL 40.01927 N Lat, 109.64812 W Lon  
 At top prod interval reported below NWSE 2086FSL 1575FEL 40.01927 N Lat, 109.64812 W Lon  
 At total depth NWSE 1991FSL 1506FEL 1575FEL 40.01927 N Lat, 109.64812 W Lon

6. If Indian, Allottee or Tribe Name  
7. Unit or CA Agreement Name and No.  
UTU63047A  
8. Lease Name and Well No.  
NBU 920-22J  
9. API Well No.  
43-047-40545  
10. Field and Pool, or Exploratory  
NATURAL BUTTES  
11. Sec., T., R., M., or Block and Survey  
or Area Sec 22 T9S R20E Mer SLB  
12. County or Parish  
UINTAH  
13. State  
UT  
14. Date Spudded  
12/12/2009  
15. Date T.D. Reached  
01/10/2010  
16. Date Completed  
 D & A  Ready to Prod.  
02/19/2010  
17. Elevations (DF, KB, RT, GL)\*  
4951 GL  
18. Total Depth: MD 10732  
TVD 10731  
19. Plug Back T.D.: MD 10673  
TVD 10672  
20. Depth Bridge Plug Set: MD  
TVD  
21. Type Electric & Other Mechanical Logs Run (Submit copy of each)  
 GR/CBL-BHV  SDL/DSN/ACTR  
22. Was well cored?  No  Yes (Submit analysis)  
Was DST run?  No  Yes (Submit analysis)  
Directional Survey?  No  Yes (Submit analysis)

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

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cement Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
20.000	14.000 STEEL	36.7		40		28			
11.000	8.625 J-55	28.0		2729		810			
7.875	4.500 I-80	11.6		10717		1817		590	

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	9912							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) WASATCH	6396	8074	6396 TO 8074	0.360	120	OPEN
B) MESAVERDE	8816	10654	8816 TO 10654	0.360	205	OPEN
C)						
D)						

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

Depth Interval	Amount and Type of Material
6396 TO 8074	PMP 2422 BBLs SLICK H2O & 104,081 LBS 30/50 SD.
8816 TO 10654	PMP 5757 BBLs SLICK H2O & 215,838 30/50 SD.

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
02/19/2010	02/21/2010	24	→	0.0	1950.0	465.0			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 1274	2027.0	→	0	1950	465		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		→						

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

ELECTRONIC SUBMISSION #82920 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

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

RECEIVED  
MAR 23 2010

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	1839				
MAHOGANY	2545				
WASATCH	5231	8466			
MESAVERDE	8507	10732			

32. Additional remarks (include plugging procedure):

ATTACHED TO THIS WELL COMPLETION REPORT IS THE CHRONOLOGICAL WELL HISTORY AND 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 #82920 Verified by the BLM Well Information System.  
For KERR-MCGEE OIL&GAS ONSHORE, LP, sent to the Vernal**

Name (please print) ANDY LYTLE Title REGULATORY ANALYST

Signature  (Electronic Submission) Date 03/18/2010

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

# 1 General

## 1.1 Customer Information

Company	US ROCKIES REGION
Representative	
Address	

## 1.2 Well Information

Well	NBU 920-22J	Wellbore No.	OH
Well Name	NBU 920-22J	Common Name	NBU 920-22J
Project	UTAH-UINTAH	Site	NBU 920-22J
Vertical Section		North Reference	True
Azimuth		Origin E/W	
Origin N/S		UWI	NW/SE/0/9/S/20/E/22/0/0/26/PM/S/2,086.00/E/0/1,575.00/0/0
Spud Date	12/13/2009		
Active Datum	RKB @4,955.00ft (above Mean Sea Level)		

# 2 Survey Name

## 2.1 Survey Name: Survey #1

Survey Name	Survey #1	Company	PROPETRO, LAST SUR. MULTISHOT
Started	12/13/2009	Ended	12/16/2009
Tool Name	INC	Engineer	Anadarko

### 2.1.1 Tie On Point

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)
0.00	0.00	0.00	0.00	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 (°)
12/13/2009	Tie On	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/14/2009	NORMAL	1,050.00	0.75		1,049.97	6.87	0.00	6.87	0.07	0.07	0.00	0.00
	NORMAL	1,550.00	0.90		1,549.92	14.07	0.00	14.07	0.03	0.03	0.00	0.00
	NORMAL	2,210.00	1.00		2,209.83	25.01	0.00	25.01	0.02	0.02	0.00	0.00
12/15/2009	NORMAL	2,700.00	1.10	131.61	2,699.79	26.17	3.52	26.17	0.39	0.02	26.86	154.58

## 2.2 Survey Name: Survey #2

Survey Name	Survey #2	Company	APC
Started	1/1/2010	Ended	
Tool Name	MWD	Engineer	Anadarko

### 2.2.1 Tie On Point

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)
2,700.00	1.10	131.61	2,700.00	26.17	3.52

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 (°)
1/1/2010	Tie On	2,700.00	1.10	131.61	2,700.00	26.17	3.52	26.17	0.00	0.00	0.00	0.00
1/1/2010	NORMAL	3,000.00	0.62	158.50	2,999.97	22.75	6.27	22.75	0.20	-0.16	8.96	152.86
	NORMAL	3,445.00	1.14	186.71	3,444.91	16.11	6.63	16.11	0.15	0.12	6.34	54.48
1/2/2010	NORMAL	3,988.00	1.23	167.20	3,987.80	5.06	7.29	5.06	0.08	0.02	-3.59	272.70
	NORMAL	4,411.00	1.41	165.35	4,410.69	-4.40	9.62	-4.40	0.04	0.04	-0.44	345.75
	NORMAL	4,960.00	1.14	163.16	4,959.55	-16.16	12.91	-16.16	0.05	-0.05	-0.40	189.14
	NORMAL	5,483.00	0.88	130.80	5,482.47	-23.77	17.45	-23.77	0.12	-0.05	-6.19	229.90
1/3/2010	NORMAL	6,027.00	0.88	137.67	6,026.41	-29.58	23.43	-29.58	0.02	0.00	1.26	93.43
	NORMAL	6,450.00	0.62	147.80	6,449.37	-33.92	26.84	-33.92	0.07	-0.06	2.39	157.98
	NORMAL	7,013.00	1.14	142.77	7,012.31	-40.96	31.85	-40.96	0.09	0.09	-0.89	349.03
	NORMAL	7,520.00	1.14	154.28	7,519.21	-49.52	37.09	-49.52	0.05	0.00	2.27	95.75
1/4/2010	NORMAL	7,944.00	1.41	133.80	7,943.10	-56.93	42.68	-56.93	0.12	0.06	-4.83	290.14
1/6/2010	NORMAL	8,477.00	0.79	147.07	8,476.00	-64.55	49.41	-64.55	0.12	-0.12	2.49	164.21
	NORMAL	9,021.00	0.79	140.66	9,019.95	-70.60	53.83	-70.60	0.02	0.00	-1.18	266.80
1/7/2010	NORMAL	9,564.00	1.05	164.12	9,562.88	-78.28	57.56	-78.28	0.08	0.05	4.32	67.49
1/9/2010	NORMAL	10,282.80	1.20	143.67	10,281.55	-90.68	63.83	-90.68	0.06	0.02	-2.85	280.06
1/10/2010	NORMAL	10,465.00	1.00	128.27	10,463.71	-93.20	66.20	-93.20	0.19	-0.11	-8.45	228.38
	NORMAL	10,646.00	0.60	130.27	10,644.70	-94.79	68.17	-94.79	0.22	-0.22	1.10	177.01
1/12/2010	NORMAL	10,732.00	0.60	130.27	10,730.69	-95.37	68.85	-95.37	0.00	0.00	0.00	0.00

**US ROCKIES REGION**  
**Operation Summary Report**

Well: NBU 920-22J		Spud Conductor: 12/12/2009		Spud Date: 12/13/2009	
Project: UTAH-UINTAH			Site: NBU 920-22J		Rig Name No: PROPETRO/, ENSIGN 145/145
Event: DRILLING			Start Date: 12/11/2009		End Date: 1/12/2010
Active Datum: RKB @4,955.00ft (above Mean Sea Level)			UWI: NW/SE/0/9/S/20/E/22/0/0/26/PM/S/2,086.00/E/0/1,575.00/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
12/13/2009	13:00 - 17:00	4.00	MIRU	01	B	P		DRESS CONDUCTOR, INSTALL AIR BOWL, RIG UP BOWIE LINE, RIG UP RIG., BUILD DITCH, RIG UP PUMPS, DOG HOUSE, AIR COMPRESSOR AND BOOSTER.
	17:00 - 17:30	0.50	DRLSUR	06	A	P		P/U MOTOR STRAIGHT 7/8 LOBE .16 RPPG (SN 8019 HR 79.5 HRS) MAKE UP BIT #1 RR 11" Q507 (2ND RUN).
	17:30 - 0:00	6.50	DRLSUR	02	B	P		SPUD SURFACE 12/13/2009 17:30 DRILL 44'- 860' (816',126'/HR) . WOB 20K, ROT 45, DH ROT 104, GPM 650, ON/OFF PSI =1300/1000, UP/DOWN/ROT= 62/62/62. FULL CIRC W/ NO GAINS.
12/14/2009	0:00 - 2:00	2.00	DRLSUR	02	B	P		DRILL 860'- 1110' (250, 125'/HR) WOB 20K, ROT 45, DH ROT 104, GPM 650, ON/OFF PSI =1300/1000, UP/DOWN/ROT= 64/64/64. NO LOSSES, FULL CIRC.
	2:00 - 2:30	0.50	DRLSUR	10	A	P		WIRELINE SURVEY 1050'= .75 DEG. INC. ONLY
	2:30 - 6:00	3.50	DRLSUR	02	B	P		DRILL 1110'- 1450' (340', 97'/HR) WOB 20K, ROT 45, DH ROT 104, GPM 650, ON/OFF PSI =1350/1100, UP/DOWN/ROT= 66/66/66. HOLE STARTED TAKING LOSSES @ APPROX 1200'
	6:00 - 8:30	2.50	MAINT	08	B	Z		VOLUME IN PIT LOW, WORK ON BOOSTER. BOOSTER SHUTTING DOWN FREQUENTLY. CHANGE OUT BOOSTERS.
	8:30 - 11:00	2.50	DRLSUR	02	B	P		DRILL 1450'- 1620' (170', 68'/HR) WOB 20K, ROT 45, DH ROT 104, GPM 650, ON/OFF PSI =1350/1100, UP/DOWN/ROT= 67/67/67. AERATE WATER TO CIRC.
	11:00 - 11:30	0.50	DRLSUR	10	A	P		WIRELINE SURVEY 1550'= 1 DEGREE. INC. ONLY
	11:30 - 19:00	7.50	DRLSUR	02	B	P		DRILL 1620'-2280' (660', 88'/HR)WOB 20K, ROT 45, DH ROT 104, GPM 650, ON/OFF PSI =1500/1200, UP/DOWN/ROT= 69/69/69. AERATE WATER TO CIRC.
	19:00 - 19:30	0.50	DRLSUR	10	A	P		WIRELINE SURVEY 2210'= 1 DEG INC. ONLY
	19:30 - 0:00	4.50	DRLSUR	02	B	P		DRILL 2280'- 2610'. ( 330', 73'/HR) WOB 23-25K ROT 45, DH ROT 104, GPM 650, ON/OFF PSI =1600/1300, UP/DOWN/ROT= 74/72/73 1K DRAG. AERATE WATER TO CIRC.
	12/15/2009	0:00 - 3:00	3.00	DRLSUR	02	B	P	
3:00 - 4:00		1.00	CSG	05	F	P		CIRC HOLE CLEAN WITH AERATED WATER AND POLYMER, FILL HOLE W/ WATER. PATIAL CIRC. DROP MULTISHOT TOOL. BLOW PIPE AND STANDPIPE DRY.
4:00 - 8:30		4.50	CSG	06	D	P		LDDS, LD BHA, RETRIEVE MULTI SHOT TOOL 2700'= 1.1 DEG, 131.61 CORRECTED AZI. LD MONEL AND MUD MOTOR. BREAK BIT. MOVE FLOAT.
8:30 - 12:00		3.50	CSG	12	C	P		HOLD SAFETY MEETING. RUN 62 JTS OF 8-5/8" IJ-55 28# W/ LTC 8 RD THREADS, LAND CSG @ 2729 KB, BAFFLE PLATE RAN IN TOP OF SHOE JT LANDED @ 2685' KB.
12:00 - 13:00		1.00	RDMO	01	E	P		RIG DOWN RIG, READY RIG TO ROAD. RELEASE RIG 12/15/2009 15:00

**US ROCKIES REGION  
Operation Summary Report**

Well: NBU 920-22J		Spud Conductor: 12/12/2009		Spud Date: 12/13/2009	
Project: UTAH-UINTAH		Site: NBU 920-22J		Rig Name No: PROPETRO/, ENSIGN 145/145	
Event: DRILLING		Start Date: 12/1/2009		End Date: 1/12/2010	
Active Datum: RKB @4,955.00ft (above Mean Sea Level)		UWI: NW/SE/0/9/S/20/E/22/0/0/26/PM/S/2,086.00/E/0/1,575.00/0/0			

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	13:00 - 18:00	5.00	CSG	12	E	P		HOLD SAFETY MEETING TEST LINES TO 2000' PSI, PUMP 155 BBLs OF H2O , PUMP 20 BBLs OF GEL WATER. PUMP 210 (142.8 BBLs) SX OF 11#, 3.82 YD, 23 GAL SX HI FILL LEAD CEMENT. PUMP 200 SX (40.9 BBLs) OF 15.8#, 1.15 YD, 5 GAL/SK 2% CALC TAIL CEMENT, DROP PLUG ON FLY AND DISPLACE W/ 170.5 BBLs OF 8.3# H2O, LOSS CIRC 80 BBLs INTO DISPLACEMENT W/ 300 PSI OF LIFT @ 5 BBLs/MIN. LAND PLUG 1000 PSI AND CHECK FLOAT. FLOAT HELD. PUMP 125 SX (25.6 BBLs) OF 4% CALC 15.8# 1.15 YD, 5 GAL/SK CEMENT DOWN BACKSIDE. NO CEMENT TO SURFACE. WAIT 2 HR AND PUMP 125 SX (25.6 BBLs) OF SAME CEMENT, NO CEMENT TO SURFACE. WAIT 1.5 HRS AND PUMP 150 SX (30.7 BBLs) OF SAME CEMENT 2 BBLs OF CEMENT TO SURFACE AND STAYED. RIG DOWN CEMENTERS.
12/29/2009	18:00 - 0:00	6.00	DRLPRO	01	E	P		RD & PREP FOR MOVE
12/30/2009	0:00 - 15:00	15.00	DRLPRO	01	B	P		HOLD SAFETY MEETING, MOVE IN, RIG UP, HAD 3 FLAT TIRES DURING THE MOVE, TROUBLE GETTING THE DOLLY TO START, ALL RIG EQUIPMENT ON LOCATION AND LAST TRUCK LEFT LOCATION AT 15:00
	15:00 - 0:00	9.00	DRLPRO	01	B	P		CONTINUE TO RIG UP BACKYARD, FLOWLINES, MUD LINES, STEAM LINES, FIRE UP BOILER AND LIGHT PLANTS.
12/31/2009	0:00 - 15:00	15.00	DRLPRO	01	B	P		RAISE DERRICK, CONTINUE TO RIG UP
	15:00 - 20:30	5.50	DRLPRO	15	A	P		TEST BOPE, 250 LOW/5000 HIGH, ANNULAR-250/2500
	20:30 - 23:00	2.50	DRLPRO	01	B	P		INSTALL WEAR BUSHING, RAM COVERS ON DERRICK, DOGHOUSE & GAS BUSTER, THAW OUT FROZE VALVES & LINES
	23:00 - 0:00	1.00	DRLPRO	01	B	P		PRE SPUD CHECK LIST/ STRAP BHA
1/1/2010	0:00 - 7:30	7.50	DRLPRO	06	A	P		PU BHA, ORIENT TOOLS, TIH, TAG CMT AT 2702
	7:30 - 13:00	5.50	DRLPRO	02	F	P		DRILL CMT FLOAT & SHOE
	13:00 - 13:30	0.50	DRLPRO	02	B	P		DRILL 2729-2772, 43', WOB-10-16, PP-1210/800, GPM- 460, ROTARY RPM-40-50, MOTOR RPM-95, DIF PSI-110/350, BGG 24/280, CG 100, PEAK GAS 280. MW-9.0, VIS-36
	13:30 - 14:00	0.50	DRLPRO	07	A	P		LUBRICATE RIG
	14:00 - 0:00	10.00	DRLPRO	02	B	P		DRILL 2772- 3557, 785', WOB-12-24, PP-1640/1100, GPM- 476, ROTARY RPM-40-50, MOTOR RPM-99, DIF PSI-110/350, BGG 24/280, CG 100, PEAK GAS 280. MW-10.0, VIS-38
1/2/2010	0:00 - 13:00	13.00	DRLPRO	02	B	P		DRILL 3557 TO 4811, 1254',ROP-96, WOB-18-24,S PP-1930/1450, GPM- 476, ROTARY RPM-40-50, MOTOR RPM-95, DIF PSI-110/350, BGG 24/90, CG 70, PEAK GAS 90. MW-10.0, VIS-38
	13:00 - 13:30	0.50	DRLPRO	07	A	P		LUBRICATE RIG
	13:30 - 0:00	10.50	DRLPRO	02	B	P		DRILL 4811TO 5843, 2286',ROP-97, WOB-18-24,S PP-2313/1941, GPM- 476, ROTARY RPM-40-50, MOTOR RPM-95, DIF PSI-110/350, BGG 24/90, CG 70, PEAK GAS 600. MW-10.2, VIS-37
1/3/2010	0:00 - 11:30	11.50	DRLPRO	02	B	P		DRILL 5843TO 6849,1006',ROP-87, WOB-18-24, S PP -2460/2140, GPM- 476, ROTARY RPM-40-50, MOTOR RPM-95, DIF PSI-350/450, BGG 24/90, CG 70, PEAK GAS 469. MW-10.5, VIS-38
	11:30 - 12:00	0.50	DRLPRO	07	A	P		LUBRICATE RIG

**US ROCKIES REGION**  
**Operation Summary Report**

Well: NBU 920-22J		Spud Conductor: 12/12/2009		Spud Date: 12/13/2009	
Project: UTAH-UINTAH		Site: NBU 920-22J		Rig Name No: PROPETRO/, ENSIGN 145/145	
Event: DRILLING		Start Date: 12/1/2009		End Date: 1/12/2010	
Active Datum: RKB @4,955.00ft (above Mean Sea Level)		UWI: NW/SE/0/9/S/20/E/22/0/0/26/PM/S/2,086.00/E/0/1,575.00/0/0			

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	12:00 - 0:00	12.00	DRLPRO	02	B	P		DRILL 6849- 7606,757 ',ROP-63, WOB-18-24, S PP -2460/2140, GPM- 476, ROTARY RPM-40-50, MOTOR RPM-95, DIF PSI-350/450, BGG 24/90, CG 70, PEAK GAS 469. MW-10.6, VIS-38
1/4/2010	0:00 - 10:00	10.00	DRLPRO	02	B	P		DRILL 7606 TO 8056,450 ',ROP-45, WOB-18-24, S PP -2460/2140, GPM- 476, ROTARY RPM-40-50, MOTOR RPM-95, DIF PSI-350/450, BGG 24/90, CG 70, PEAK GAS 469. MW-11.1, VIS-42
	10:00 - 11:30	1.50	DRLPRO	05	A	X		LOST RETURNS, PUMP LCM SWEEP AND BRING MUD TO 5% LCM, REGAIN RETURNS
	11:30 - 13:30	2.00	DRLPRO	02	B	P		DRILL 8056TO 8117,61 ',ROP-31, WOB-18-24, S PP -2460/2140, GPM- 476, ROTARY RPM-40-50, MOTOR RPM-95, DIF PSI-350/450, BGG 24/90, CG 70, PEAK GAS 469. MW-11.1, VIS-42, LCM 5%
	13:30 - 14:00	0.50	DRLPRO	07	A	P		LUBRICATE RIG
	14:00 - 16:30	2.50	DRLPRO	02	B	P		DRILL 8117 TO 8208, 91',ROP-36, WOB-18-24, S PP -2460/2140, GPM- 476, ROTARY RPM-40-50, MOTOR RPM-95, DIF PSI-350/450, BGG 24/90, CG 70, PEAK GAS 469. MW-11.3, VIS-42, LCM 5%
	16:30 - 17:30	1.00	DRLPRO	05	C	P		CIRCULATE & CONDITION MUD , CLEAN HOLE
	17:30 - 0:00	6.50	DRLPRO	06	A	P		TRIP FOR BIT
1/5/2010	0:00 - 3:00	3.00	DRLPRO	06	A	P		TRIP FOR BIT
	3:00 - 4:00	1.00	DRLPRO	08	A	Z		REPAIR COLLAR GATE
	4:00 - 5:00	1.00	DRLPRO	06	A	P		LD MOTOR & BIT
	5:00 - 6:00	1.00	DRLPRO	06	A	P		PU NEW BIT & MOTOR, ORIENT TOOLS
	6:00 - 13:30	7.50	DRLPRO	06	A	P		TRIP IN HOLE, UNLOAD, RACK & TALLY 4 1/2 CSG.
	13:30 - 14:00	0.50	DRLPRO	05	A	P		CIRC OUT TRIP GAS
	14:00 - 15:00	1.00	DRLPRO	02	B	P		DRILL 8208 TO 8255, 47', WOB-18-24, S PP -2460/2140, GPM- 460, ROTARY RPM-40-50, MOTOR RPM-74, DIF PSI-250/470, BGG 24/90, CG 70, PEAK GAS 469. MW-11.2, VIS-38, LCM 5%
	15:00 - 15:30	0.50	DRLPRO	07	A	P		LUBRICATE RIG
	15:30 - 21:00	5.50	DRLPRO	02	B	P		DRILL8255 to 8459,204', WOB-18-24, S PP -2471/2273, GPM- 460, ROTARY RPM-40-50, MOTOR RPM-74, DIF PSI-300/470, BGG 24/60, CG 60, PEAK GAS 508. MW-11.3, VIS-40, LCM 5%
	21:00 - 0:00	3.00	DRLPRO	08	B	Z		WORK ON TOP DRIVE, CHANGE OUT DELTA UNIT IN TOP DRIVE
1/6/2010	0:00 - 3:00	3.00	DRLPRO	08	B	Z		CHANGE OUT DELTA IN TOP DRIVE
	3:00 - 14:30	11.50	DRLPRO	02	B	P		DRILL 8459'-8889' (430') 37.3'/HR. WOB-18-20, PP 2300-2650, GPM- 460, ROTARY RPM-40-50, MOTOR RPM-73, DIF PSI-200-50, BGG 20-35, CG 50-400, PEAK 400. MW-11.7, VIS-45
	14:30 - 15:00	0.50	DRLPRO	07	A	P		SERVICE RIG
	15:00 - 0:00	9.00	DRLPRO	02	B	P		DRILL 8889'- 9173' (284') 32.5'/HR. WOB-18-20, PP 2500-2850, GPM- 460, ROTARY RPM-40-50, MOTOR RPM-73, DIF PSI-200-350, BGG 20-45, CG 50-105, PEAK 400. MW-12.3, VIS-45
1/7/2010	0:00 - 14:30	14.50	DRLPRO	02	B	P		DRILL 9173'-9614' (441') 30.4'/HR. WOB-18-22, PP 2500-2850, GPM- 460, ROTARY RPM-40-50, MOTOR RPM-73, DIF PSI-200-350, BGG 20-45, CG 50-105, PEAK 400. MW-12.3, VIS-45, STARTED LOSING MUD AT 9236' INC LCM TO 10%, LOST TOTAL OF 47 BBLS MUD.
	14:30 - 15:00	0.50	DRLPRO	07	A	P		SERVICE RIG

**US ROCKIES REGION**  
**Operation Summary Report**

Well: NBU 920-22J		Spud Conductor: 12/12/2009		Spud Date: 12/13/2009	
Project: UTAH-UINTAH		Site: NBU 920-22J		Rig Name No: PROPETRO/, ENSIGN 145/145	
Event: DRILLING		Start Date: 12/1/2009		End Date: 1/12/2010	
Active Datum: RKB @4,955.00ft (above Mean Sea Level)			UWI: NW/SE/O/9/S/20/E/22/O/O/26/PM/S/2,086.00/E/O/1,575.00/O/O		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	15:00 - 0:00	9.00	DRLPRO	02	B	P		DRILL 9614'-9910' (296') 32.8'/HR. WOB-18-22, PP 2600-3000, GPM- 460, ROTARY RPM-40-50, MOTOR RPM-73, DIF PSI-200-350, BGG 20-65, CG 55-145, PEAK 425. MW-12.5, VIS-45, LCM 10%
1/8/2010	0:00 - 14:00	14.00	DRLPRO	02	B	P		DRILL 9910'-10247' (337') 24'/HR. WOB-18-24, PP 2600-3000, GPM- 460, ROTARY RPM-40-50, MOTOR RPM-73, DIF PSI-200-350, BGG 20-65, CG 55-145, PEAK 425. MW-12.5, VIS-45, LCM 10%
	14:00 - 14:30	0.50	DRLPRO	10	D	P		PROGRAM EM TOOL. NOT SUCCESSFUL
	14:30 - 15:00	0.50	DRLPRO	07	A	P		SERVICE RIG
	15:00 - 22:00	7.00	DRLPRO	02	B	P		DRILL 10247'- 10380' (133') 19'/HR. WOB-18-24, PP 2600-3000, GPM- 460, ROTARY RPM-40-50, MOTOR RPM-73, DIF PSI-200-350, BGG 20-65, CG 55-145, PEAK 425. MW-12.7, VIS-48, LCM 10%
	22:00 - 22:30	0.50	DRLPRO	05	C	P		CIRCULATE BOTTOMS UP. MIX SLUG
	22:30 - 23:00	0.50	DRLPRO	08	B	Z		REPAIR HYDRAULIC LEAK ON DERRICK BOARD, HOSE FITTING BROKE.
1/9/2010	23:00 - 0:00	1.00	DRLPRO	06	A	P		PUMP SLUG, DROP SURVEY, POOH FOR BIT #3,
	0:00 - 8:00	8.00	DRLPRO	06	A	P		POOH, WASH THROUGH TIGHT SPOTS @ 5377', 5333' AND 4489', FINISH OUT OF THE HOLE. LAY DOWN THE EM TOOL AND GAP SUB. FUCTION BLIND RAMS.
	8:00 - 18:00	10.00	DRLPRO	06	A	P		MAKE UP NEW Q506FX AND TIH WITH SAME. WASH THROUGH TIGHT SPOT @ 4550'. FINISH IN HOLE. REAM 50' TO BOTTOM. HAD TO MAKE UP ALL STANDS WITH CHAIN TONGS. IRON ROUGHNECK SPINNERS NON OPERATIONAL. LOST 50 BBLs ON THE TRIP.
	18:00 - 18:30	0.50	DRLPRO	07	A	P		SERVICE RIG
	18:30 - 0:00	5.50	DRLPRO	02		P		DRILL 10380'-10555' (175') 31.8'/HR. WOB-18-24, PP 2600-3000, GPM- 460, ROTARY RPM-40-50, MOTOR RPM-73, DIF PSI-200-350, BGG 30-65, CG 70-200, PEAK 210. MW-12.8, VIS-47, LCM 10%
1/10/2010	0:00 - 4:30	4.50	DRLPRO	02	B	P		DRILL 10555'-10732' (177') 39.3'/HR. WOB-18-24, PP 2600-3000, GPM- 460, ROTARY RPM-40-50, MOTOR RPM-73, DIF PSI-200-350, BGG 30-65, CG 70-200, PEAK 210. MW-12.8, VIS-47, LCM 10%
	4:30 - 6:30	2.00	DRLPRO	05	C	P		CIRCULATE BOTTOMS UP.
	6:30 - 8:00	1.50	DRLPRO	06	E	P		SHORT TRIP 10 STANDS.
	8:00 - 10:30	2.50	DRLPRO	05	C	P		CIRCULATE BOTTOMS UP, TRIP GAS 240, DROP MULTISHOT SURVEY, PUMP A SLUG.
	10:30 - 19:30	9.00	DRLPRO	06	A	P		POOH LAYING DOWN DP. LD BHA.
	19:30 - 20:00	0.50	DRLPRO	14	B	P		PULL THE WEAR BUSHING.
	20:00 - 0:00	4.00	DRLPRO	11	D	P		HELD SAFETY MEETING, RU AND RIH WITH A TRIPLE COMBO AND START LOGGING FROM 10724', TOOL CABLE HEAD FAILED, POOH FOR REPAIR.
1/11/2010	0:00 - 1:00	1.00	DRLPRO	11	D	P		LOG W/ TRIPLE COMBO FOM 10724', CABLE HEAD SHORTED OUT.
	1:00 - 4:30	3.50	DRLPRO	22	L	Z		POOH W/ WIRE LINE, CHANGE CABLE HEADS, RIH WITH TRIPLE COMBO.
	4:30 - 8:30	4.00	DRLPRO	11	D	P		LOG FROM 10724' TO 2729', LOG WITH GR TO SURFACE. RD HALLIBURTON.
	8:30 - 9:00	0.50	DRLPRO	12	A	P		HELD SAFETY MEETING WITH WEATHERFORD CASING CREW. RU SAME.

**US ROCKIES REGION  
Operation Summary Report**

Well: NBU 920-22J		Spud Conductor: 12/12/2009		Spud Date: 12/13/2009	
Project: UTAH-UINTAH			Site: NBU 920-22J		Rig Name No: PROPETRO/, ENSIGN 145/145
Event: DRILLING			Start Date: 12/1/2009		End Date: 1/12/2010
Active Datum: RKB @4,955.00ft (above Mean Sea Level)			UWI: NW/SE/0/9/S/20/E/22/0/0/26/PM/S/2,086.00/E/0/1,575.00/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	9:00 - 18:30	9.50	DRLPRO	12	C	P		RUN CSG. AS FOLLOWS: FLOAT SHOE, 1 JT. CSG. FLOAT COLLAR, 29 JTS. P-110 LTC, CSG. 20' XO, 101 JTS. I-80 BTC, MARKER JT. SET AT 5186', 122JTS. 4 1/2" 11.6 PPF I-80 BTC CSG. OAL 10717.35', SET AT 10717.35. CENTRALIZED WITH 15 BOW SPRINGS, 1 ON FIRST 3 JTS. THEN EVERY 3RD JT. LAND CSG.
	18:30 - 20:30	2.00	DRLPRO	05	D	P		INSTALL PLUG RETAINER AND CIRCULATE BOTTOMS UP WITH THE RIG PUMP.
	20:30 - 22:30	2.00	DRLPRO	12	E	P		SWITCH TO BJ, TEST LINES TO 5000 CEMENT 4 1/2" AS FOLLOWS: 20 BBLs WATER, LEAD W/ 630 SKS PL2 MIXED @ 12.9 PPG, YIELD 1.81, TAIL W/ 1186 SKS 50:50 POZ MIXED @ 14.3PPG, YIELD 1.31, WASH LINES, DROP PLUG & DISPLACE W/166 BBLs WATER W/ CLAYTREAT & MAGNACIDE TO BUMP PLUG W/ 3775 PSI. NO CEMENT CIRCULATED TO SURFACE.
	22:30 - 0:00	1.50	DRLPRO	12	B	P		WASH STACK, RIG DOWN BJ CEMENTERS
1/12/2010	0:00 - 5:00	5.00	DRLPRO	14	A	P		FINISH CLEANING THE MUD PITS. RELEASE THE RIG @ 05:00 1-12-2010

**US ROCKIES REGION**  
**Operation Summary Report**

Well: NBU 920-22J		Spud Conductor: 12/12/2009		Spud Date: 12/13/2009	
Project: UTAH-UINTAH		Site: NBU 920-22J		Rig Name No: PROPETRO/, ENSIGN 145/145	
Event: DRILLING		Start Date: 12/1/2009		End Date: 1/12/2010	
Active Datum: RKB @4,955.00ft (above Mean Sea Level)		UWI: NW/SE/0/9/S/20/E/22/0/0/26/PM/S/2,086.00/E/0/1,575.00/0/0			

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	5:00 - 5:00	0.00	DRLPRO					<p>CONDUCTOR CASING:            Depth set:            Cement sks used:</p> <p>IF SURFACE PRESET:            Spud date/time: 1/1/2010 7:30</p> <p>SURFACE HOLE:            From depth: 0            To depth: 2760            Total SURFACE hours: 29.5            Casing size: 8 5/8            # of casing joints ran: 62            Casing set MD: 2729            # of cement sks: 810            Cement blend: HI FILL            Cement yield: 3.82            # of bbls returned to surface: 0            Describe: TOP OUT- 400 SX</p> <p>PRODUCTION:            Rig Move start date/time: 12/29/2009 18:00            Rig Move finish date/time: 13/30/2009 15:00            Total MOVE hours: 21            Production Rig Spud date/time: 1/1/2010 7:30            Rig Release date/time: 1/12/2010 5:00            Total SPUD to RIG RELEASE hours: 266            Planned depth MD/TVD: 10700 / 10700            Actual MD/TVD: 10732 / 10730.7            Open Wells costs (case and suspend): 989185            AFE case and suspend: 1075547            Open wells \$/ft: 92.17</p> <p>PRODUCTION HOLE:            From depth: 2710            To depth: 10732            Total PRODUCTION hours: 15305            Casing size: 4 1/2            # of casing joints ran: 256            Casing set MD: 10717            # of cement sks: 1817            Cement blend: PREM LITE            Cement yield: 1.85            ..or 2 stage:            Estimated TOC both lead and tail or Stage 1 and 2:            LEAD TOC- 19, TAIL TOC- 4605</p> <p>DIRECTIONAL INFO:            KOP:            Max angle: 1.41            Departure: 94.79            Max dogleg MD: 0.22            Describe:</p>

**US ROCKIES REGION  
Operation Summary Report**

Well: NBU 920-22J      Spud Conductor: 12/12/2009      Spud Date: 12/13/2009  
 Project: UTAH-UINTAH      Site: NBU 920-22J      Rig Name No: GWS 1/1  
 Event: COMPLETION      Start Date: 2/11/2010      End Date: 2/17/2010  
 Active Datum: RKB @4,955.00ft (above Mean Sea Level)      UWI: NW/SE/0/9/S/20/E/22/0/0/26/PM/S/2,086.00/E/0/1,575.00/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
2/12/2010	7:00 - 7:30	0.50	COMP	48		P		HSM. RIGGING UP & PICKING UP TBG. PINCH POINTS
	7:30 - 18:00	10.50	COMP	31	I	P		ROAD RIG FROM NBU 920-25F TO NBU 920-22J. SPOT IN EQUIPMENT. RU RIG. ND WH NU BOP. TALLY & DRIFT 000 JTS OF 2 3/8" L-80 TBG. RIH W / 336 JTS. RU POWER SWIVEL BRK CIRC. RIH TAG CEMENT W / 337 JTS @ 10,656'. DRILL TO 10,688' THIS IS 16' BELOW THE FLOAT COLLAR. CICR WELL CLEAN. POOH LD 18 JTS ON TRAILER & STAND BACK 40 STANDS EOT @ 7,600'. SWI WINTERIZEWELL HEAD. SDFWE
2/15/2010	7:00 - 7:30	0.50	COMP	48		P		HSM. PRESSURE TESTING CASING & FRAC VALVES.
	7:30 - 12:00	4.50	COMP	31	I	P		SICP 0 PSI, POOH W / 120 STANDS 7,600' OF 2 3/8" L-80 TBG. ND BOP. REMOVE CASING SPOOL NU FRAC VALVES. MIRU B&C QUICK TEST. PRESSURE TEST CASING & BOTH FRAC VALVES TO 7,000 PSI. GOOD TEST. MIRU FRAC TECH & SCHLUMBERGER TO PERFORATE & FRAC.
	12:00 - 14:15	2.25	COMP	36	B	P		PRESSURE TEST SURFACE EQUIPMENT TO 8,110 PSI. STG 1 ) PU 3 1/8" EXP GNS, 23 GRM, .36 HOLES, 120 DEG PHASING. RIH PERF 10,648'-54' 3 SPF, 10,476'-80' 3SPF, 10,388'-92' 3SPF, 42 HOLES. WHP 713 PSI, BRK 3,769 PSI @ 5.2 BPM, ISIP 3,039 PSI, FG .72. PUMP 100 BBLS @ 56 BPM @ 5300 PSI = 100% HOLES OPEN.. MP 6,260 PSI, MR 53.2 BPM, AP 5,165 PSI, AR 53 BPM, ISIP 3,216 PSI, FG .74, NPI 177 PSI. PUMP 1,575 BBLS OF SW & 52,861 LBS OF 30/50 SND & 5,000 LBS OF 20/40 RESIN SAND. TOTAL PROP 57,861 LBS.
14:15 - 15:50	1.58	COMP	36	B	P		STG 2) PU 4 1/2" BAKER CBP & 3 1/8" EXP GNS, 23 GRM, .36 HOLES, 90 & 120 DEG PHASING. RIH SET CBP @ 10,182' PERF 10,150'-52' 4 SPF, 10,072'-76' 3SPF, 10,000'-04' 3SPF, 9,954'-57' 3SPF, 41 HOLES. WHP 2,030 PSI, BRK 5,100 PSI @ 6.2 BPM, ISIP 3,610 PSI, FG .79. PUMP 100 BBLS @ 41 BPM @ 5,800 PSI = 73% HOLES OPEN.. MP 6,213 PSI, MR 53.1 BPM, AP 5,530 PSI, AR 48.6 BPM, ISIP 3,310 PSI, FG .76, NPI -300 PSI. PUMP 927 BBLS OF SW & 29,393 LBS OF 30/50 SND & 5,000 LBS OF 20/40 RESIN SAND. TOTAL PROP 34,393 LBS.	
15:50 - 17:30	1.67	COMP	34	H	P		STG 3) PU 4 1/2" CBP & 3 1/8" EXP GNS, 23 GRM, .36 HOLES, 90 DEG PHASING. RIH SET BAKER CBP @ 9,914' PERF 9,880'-84' 4 SPF, 9,750'-54' 4SPF, 9,664'-66' 4SPF, 40 HOLES. POOH W WIRELINE PREPED TO FRAC IN AM. SWI WINTERIZE WELL HEAD. SDFN	
2/16/2010	6:30 - 7:00	0.50	COMP	48		P		HSM. FRACING & PERFORATING

**US ROCKIES REGION**  
**Operation Summary Report**

Well: NBU 920-22J      Spud Conductor: 12/12/2009      Spud Date: 12/13/2009  
 Project: UTAH-UINTAH      Site: NBU 920-22J      Rig Name No: GWS 1/1  
 Event: COMPLETION      Start Date: 2/11/2010      End Date: 2/17/2010  
 Active Datum: RKB @4,955.00ft (above Mean Sea Level)      UWI: NW/SE/O/9/S/20/E/22/O/O/26/PM/S/2,086.00/E/O/1,575.00/O/O

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	7:00 - 7:20	0.33	COMP	36	B	P		PRESSURE TEST SURFACE EQUIPMENT. STG 3 ) WHP 2,375 PSI, BRK 5,271 PSI @ 5.2 BPM, ISIP 2,798 PSI, FG .72. PUMP 100 BBLs @ 51 BPM @ 5,950 PSI = 68% HOLES OPEN.. MP 5,987 PSI, MR 51.4 BPM, AP 5,265 PSI, AR 51.1 BPM, ISIP 2,726 PSI, FG .71, NPI -72 PSI. PUMP 740 BBLs OF SW & 20,833 LBS OF 30/50 SND & 5,000 LBS OF 20/40 RESIN SAND. TOTAL PROP 25,833 LBS.
	7:20 - 9:07	1.78	COMP	36	B	P		STG 4) PU 4 1/2" BAKER CBP & 3 1/8" EXP GNS, 23 GRM, .36 HOLES, 90 & 120 DEG PHASING. RIH SET CBP @ 9,328' PERF 9,294'-98' 4 SPF, 9,130'-34' 3SPF, 9,084'-88' 3SPF, 40 HOLES. WHP 1,558 PSI, BRK 3,743 PSI @ 7.6 BPM, ISIP 2,592 PSI, FG .72. PUMP 100 BBLs @ 52 BPM @ 5,295 PSI = 100% HOLES OPEN.. MP 5,455 PSI, MR 52.2 BPM, AP 4,900 PSI, AR 51.6 BPM, ISIP 3,093 PSI, FG .77, NPI 501 PSI. PUMP 1,218 BBLs OF SW & 42,965 LBS OF 30/50 SND & 5,000 LBS OF 20/40 RESIN SAND. TOTAL PROP 47,965 LBS.
	9:07 - 11:00	1.88	COMP	36	B	P		STG 5) PU 4 1/2" BAKER CBP & 3 1/8" EXP GNS, 23 GRM, .36 HOLES, 90 & 120 DEG PHASING. RIH SET CBP @ 8,952' PERF 8,918'-22' 4 SPF, 8,866'-72' 3SPF, 8,816'-18' 4SPF, 42 HOLES. WHP 1,750 PSI, BRK 6,045 PSI @ 1.1 BPM, ISIP 2,946 PSI, FG .77. PUMP 100 BBLs @ 51 BPM @ 5,655 PSI = 86% HOLES OPEN.. MP 5,685 PSI, MR 52.5 BPM, AP 4,575 PSI, AR 51.4 BPM, ISIP 3,040 PSI, FG .78, NPI 94 PSI. PUMP 1,297 BBLs OF SW & 44,786 LBS OF 30/50 SND & 5,000 LBS OF 20/40 RESIN SAND. TOTAL PROP 49,786 LBS.
	11:00 - 12:24	1.40	COMP	36	B	P		STG 6) PU 4 1/2" BAKER CBP & 3 1/8" EXP GNS, 23 GRM, .36 HOLES, 90 DEG PHASING. RIH SET CBP @ 8,104' PERF 8,068'-74' 4 SPF, 7,958'-62' 4SPF, 40 HOLES. WHP 1,050 PSI, BRK 2,816 PSI @ 6.3 BPM, ISIP 2,296 PSI, FG .72. PUMP 100 BBLs @ 51 BPM @ 5,600 PSI = 65% HOLES OPEN.. MP 5,762 PSI, MR 52.7 BPM, AP 4,433 PSI, AR 50.6 BPM, ISIP 3,129 PSI, FG .82, NPI 833 PSI. PUMP 736 BBLs OF SW & 23,943 LBS OF 30/50 SND & 5,000 LBS OF 20/40 RESIN SAND. TOTAL PROP 28,943 LBS.
	12:24 - 13:40	1.27	COMP	36	B	P		STG 7 ) PU 4 1/2" BAKER CBP & 3 1/8" EXP GNS, 23 GRM, .36 HOLES, 90 DEG PHASING. RIH SET CBP @ 7,766' PERF 7,732'-36' 4 SPF, 7,686'-92' 4SPF, 40 HOLES. WHP 275 PSI, BRK 2,680 PSI @ 5.7 BPM, ISIP 2,326 PSI, FG .73. PUMP 100 BBLs @ 50 BPM @ 4,300 PSI = 100% HOLES OPEN.. MP 5,148 PSI, MR 52.9 BPM, AP 4,055 PSI, AR 52.1 BPM, ISIP 2,952 PSI, FG .82, NPI 626 PSI. PUMP 628 BBLs OF SW & 20,321 LBS OF 30/50 SND & 5,000 LBS OF 20/40 RESIN SAND. TOTAL PROP 25,321 LBS.

**US ROCKIES REGION**  
**Operation Summary Report**

Well: NBU 920-22J		Spud Conductor: 12/12/2009		Spud Date: 12/13/2009	
Project: UTAH-UINTAH		Site: NBU 920-22J		Rig Name No: GWS 1/1	
Event: COMPLETION		Start Date: 2/11/2010		End Date: 2/17/2010	
Active Datum: RKB @4,955.00ft (above Mean Sea Level)			UWI: NW/SE/O/9/S/20/E/22/O/O/26/PM/S/2,086.00/E/O/1,575.00/O/O		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	13:40 - 15:05	1.42	COMP	36	B	P		STG 8 ) PU 4 12" BAKER CBP & 3 1/8" EXP GNS, 23 GRM, .36 HOLES, 90 DEG PHASING. RIH SET CBP @ 6,450' & PERF 6,414'-20' 4 SPF, 6,396'-6,400' 4SPF, 40 HOLES. WHP 250 PSI, BRK 1,541 PSI @ 4.6 BPM, ISIP 1,163 PSI, FG .61. PUMP 100 BBLS @ 44 BPM @ 3,250 PSI = 68% HOLES OPEN. MP 4,888 PSI, MR 44 BPM, AP 2,990 PSI, AR 42.9 BPM, ISIP 2,391 PSI, FG .81, NPI 1,228 PSI. PUMP 1,058 BBLS OF SW & 45,817 LBS OF 30/50 SND & 5,000 LBS OF 20/40 RESIN SAND. TOTAL PROP 49,817 LBS.
	15:05 - 15:30	0.42	COMP	34	I	P		KILL PLG ) PU 4 1/2" BAKER CBP & RIH SET CBP @ 6,346'. RDMO FRAC TECH & SCHLUMBERGER. ND FRAC VALVES NU BOP. WINTERIZE WELL HEAD. SWI SDFN
2/17/2010	6:30 - 7:00	0.50	COMP	48		P		HSM. DRILLING OUT CBP'S UNDER PRESSURE.
	7:00 - 18:00	11.00	COMP	44	C	P		WHP 0 PSI. PU 3 7/8" BIT & POBS & RIH TO 6,333' RU POWER SWIVEL. BRK CIRCULATION W / TMAC WATER. RIH C/O 40' OF SAND & TAG PLG 1 @ 6,346' DRL PLG IN 12 MIN, 400 PSI INCREASE. RIH C/O 30' OF SAND & TAG PLG 2 @ 6,450' DRL PLG IN 14 MIN, 900 PSI INCREASE. RIH C/O 30' OF SAND & TAG PLG 3 @ 7,766' DRL PLG IN 11 MIN, 1,400 PSI INCREASE. RIH C/O 30' OF SAND & TAG PLG 4 @ 8,104' DRL PLG IN 10 MIN, 1,100 PSI INCREASE. RIH C/O 30' OF SAND & TAG PLG 5 @ 8,952' DRL PLG IN 8 MIN, 1,200 PSI INCREASE. RIH C/O 30' OF SAND & TAG PLG 6 @ 9,328' DRL PLG IN 6 MIN, 900 PSI INCREASE. RIH C/O 40' OF SAND & TAG PLG 7 @ 9,919' DRL PLG IN 7 MIN, 750 PSI INCREASE. RIH C/O 30' OF SAND & TAG PLG 8 @ 10,182' DRL PLG IN 7 MIN, 700 PSI INCREASE. RIH C/O TO 10,688' PBT. CIRCULATE WELL CLEAN. POOH LD 25 JTS. LAND TBG W 313 JTS OF 2 3/8" L-80 TBG. EOT @ 9,912.10'. ND BOP NU WH. DROP BALL TO SHEAR OFF BIT. PUMP OFF BIT @ 1,850 PSI. TURN WELL OVER TO FLOW TESTERS.
2/18/2010	7:00 -			33	A			343 JTS OUT BOUND 23/8" L-80 313 JTS LANDED 30 JTS RETURNED 7 AM FLBK REPORT: CP 2350#, TP 2025#, 20/64" CK, 60 BWPH, MEDIUM SAND, - GAS TTL BBLS RECOVERED: 4175 BBLS LEFT TO RECOVER: 3994
2/19/2010	7:00 -			33	A			7 AM FLBK REPORT: CP 2900#, TP 2000#, 20/64" CK, 45 BWPH, MEDIUM SAND, - GAS TTL BBLS RECOVERED: 5350 BBLS LEFT TO RECOVER: 2819
	10:40 -		PROD	50				WELL TURNED TO SALES @ 1040 HR ON 2/19/10 - 2067 MCFD, 1080 BWPD, CP 2850#, FTP 1800#, CK 20/64"

**US ROCKIES REGION**  
**Operation Summary Report**

Well: NBU 920-22J		Spud Conductor: 12/12/2009		Spud Date: 12/13/2009	
Project: UTAH-UINTAH			Site: NBU 920-22J		Rig Name No: GWS 1/1
Event: COMPLETION			Start Date: 2/11/2010		End Date: 2/17/2010
Active Datum: RKB @4,955.00ft (above Mean Sea Level)			UWI: NW/SE/0/9/S/20/E/22/0/0/26/PM/S/2,086.00/E/0/1,575.00/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
2/20/2010	7:00 -			33	A			7 AM FLBK REPORT: CP 2350#, TP 1675#, 20/64" CK, 38 BWPH, MEDIUM SAND, - GAS TTL BBLS RECOVERED: 6313 BBLS LEFT TO RECOVER: 1856
2/21/2010	7:00 -			33	A			7 AM FLBK REPORT: CP 2200#, TP 1500#, 20/64" CK, 30 BWPH, LIGHT SAND, - GAS TTL BBLS RECOVERED: 7102 BBLS LEFT TO RECOVER: 1067
2/22/2010	7:00 -			33	A			7 AM FLBK REPORT: CP 1900#, TP 1300#, 20/64" CK, 18 BWPH, LIGHT SAND, - GAS TTL BBLS RECOVERED: 7567 BBLS LEFT TO RECOVER: 602

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>  <b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-000577B
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  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.	<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b> UTE  <b>7. UNIT or CA AGREEMENT NAME:</b> NATURAL BUTTES
<b>1. TYPE OF WELL</b> Gas Well	<b>8. WELL NAME and NUMBER:</b> NBU 920-22J
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.	<b>9. API NUMBER:</b> 43047405450000
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	<b>PHONE NUMBER:</b> 720 929-6515 Ext
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 2086 FSL 1575 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWSE Section: 22 Township: 09.0S Range: 20.0E Meridian: S	<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES  <b>COUNTY:</b> UINTAH  <b>STATE:</b> UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 10/11/2011  <input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:  <input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:  <input type="checkbox"/> <b>DRILLING REPORT</b> 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 checked="" type="checkbox"/> OTHER	<input checked="" type="checkbox"/> <b>CASING REPAIR</b> <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" value="WELLHEAD"/>

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

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

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

Date: 10/12/2011

By: *Derek Quist*

<b>NAME (PLEASE PRINT)</b> Andy Lytle	<b>PHONE NUMBER</b> 720 929-6100	<b>TITLE</b> Regulatory Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 10/10/2011	

**WORKORDER #: 88119384**

Name: **NBU 920-22J** 7/8/2011  
 Surface Location: NWSE Sec. 22, T9S, R20E  
 Uintah County, UT

API: 4304740545 LEASE#: UTU-0577B

ELEVATIONS: 4951' GL 4964' KB

TOTAL DEPTH: 10,732' PBDT: 10,673'

SURFACE CASING: 8 5/8", 28# J-55 @ 2729'

PRODUCTION CASING: 4 1/2", 11.6#, I-80 @ 10,717'  
 TOC @ 758' per CBL (with min 50' isolation)

PERFORATIONS: Wasatch 6396' - 8074'  
 Mesaverde 8816' - 10,654'

Tubular/Borehole	Drift inches	Collapse psi	Burst psi	Capacities		
				Gal./ft.	Cuft/ft.	Bbl./ft.
2.375" 4.7# J-55 tbg.	1.901	8100	7700	0.1624	0.02171	0.00387
4.5" 11.6# I-80	3.875	6350	7780	0.6528	0.0872	0.0155
8.625" 28# J-55	8.097	1370	2950	2.6223	0.3505	0.0624
<b>Annular Capacities</b>						
2.375" tbg. X 4 1/2" 11.6# csg				0.4227	0.0565	0.01

**GEOLOGICAL TOPS:**

1839' Green River  
 2545' Mahogany  
 5231' Wasatch  
 8507' Mesaverde

## **NBU 920-22J- WELLHEAD REPAIR PROCEDURE**

### **PREP-WORK PRIOR TO MIRU:**

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

### **WORKOVER PROCEDURE:**

1. MIRU workover rig.
2. Kill well with 10# brine / KCL (dictated by well pressure ).
3. Remove tree, install double BOP with blind and 2 3/8" pipe rams, with accumulator closing unit and manual back-ups. Function test BOP system.
4. POOH w/ tubing laying down extra tubing.
5. Rig up wireline service. RIH and set CBP @ ~6346'. Dump bail 4 sx cement on top of plug. POOH and RD wireline service. TIH w/ tubing and seating nipple. Land tubing ±60' above cement. RDMO.
6. Monitor well pressures. If surface casing is dead. MIRU. ND WH and NU BOP. POOH w/ tubing.
7. Depending on conditions at wellsite, continue with either CUT/PATCH Procedure or BACK-OFF Procedure.

**CUT/PATCH PROCEDURE:**

1. PU internal casing cutters and RIH. Cut casing at +/- 30' from surface.
2. POOH, LD cutters and casing.
3. PU 7 3/8" overshoot with 4 1/2" right hand standard wicker grapple, 1 - 4 3/4" drill collar with 3 1/2" IF threads, pup joint, manual bumper sub, and crossovers. If casing cut is deeper than ±30' utilize >7000 ft-lb torque pipe as needed. Pull a minimum of 10,000# to keep grapple engaged if cement top is high (<~900'). If cement top is low (>~900'), more weight will be required to put casing in neutral. Torque casing string to ±7000 ft-lbs, count number of turns to make-up, and document in the daily report. Ensure that tongs are safely anchored to rig and that all personnel are at a safe working distance from the tongs during torque-up and torque release. After initial make-up, place pipe torque to neutral and mark pipe. Place ±7000 ft-lbs on casing a second time, count turns, then return pipe torque to neutral and count turns. Repeat if torque-up turns do not equal torque release turns. Once torque-in equals torque-out, release overshoot, POOH, and lay down.
4. TIH w/ skirted mill and dress off the fish top for approximately 1/2 hour. TOO H.
5. PU & RIH w/ 4 1/2" 10k external casing patch on 4 1/2" P-110 casing. Ensure that sliding sleeve assembly shifts ±3' and casing tags no-go portion of patch. NOTE: Shear pins will shear at 3500 to 4500 lbs.
6. Latch fish, PU to 100,000# tension. RU B&C. Cycle pressure test to 3500 psi.
7. Install slips. Land casing w/ 80,000# tension.
8. Cut-off and dress 4 1/2" casing stub.
9. NUWH. PU 3 7/8" bit, POBS and RIH. D/O cement and plug ~6296'. Clean out to PBSD (10,673').
10. POOH, land tbg and pump off POBS.
11. NUWH, RDMO. Turn well over to production ops.

**BACK-OFF PROCEDURE:**

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

6. PU new casing joint with buttress threads and entry guide and RIH. Tag casing top. Thread into casing and torque up to  $\pm 7000$  ft-lbs, count number of additional turns to make-up, and document in the daily report. Ensure that tongs are safely anchored to rig and that all personnel are at a safe working distance from the tongs during torque-up and torque release. After initial make-up, place pipe torque to neutral and mark pipe. Place  $\pm 7000$  ft-lbs on casing a second time, count turns, then return pipe torque to neutral and count turns. Repeat if torque-up turns do not equal torque release turns. Once torque-in equals torque-out go to step 7.
7. PU 100,000# tension string weight. RU B&C. Cycle pressure test to 3500 psi.
8. Install slips. Land casing w/ 80,000# tension.
9. Cut-off and dress 4 1/2" casing stub.
10. NUWH. PU 3 7/8" bit, POBS and RIH. D/O cement and plug ~6296'. Clean out to PBTD (10,673').
11. POOH, land tbg and pump off POBS.
12. NUWH, RDMO. Turn well over to production ops.

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-000577B
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  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.		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b> UTE
		<b>7. UNIT or CA AGREEMENT NAME:</b> NATURAL BUTTES
<b>1. TYPE OF WELL</b> Gas Well	<b>8. WELL NAME and NUMBER:</b> NBU 920-22J	
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.	<b>9. API NUMBER:</b> 43047405450000	
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	<b>PHONE NUMBER:</b> 720 929-6514	<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 2086 FSL 1575 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWSE Section: 22 Township: 09.0S Range: 20.0E Meridian: S	<b>COUNTY:</b> UINTAH	
	<b>STATE:</b> UTAH	
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:  <input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 11/3/2011  <input type="checkbox"/> SPUD REPORT Date of Spud:  <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input checked="" 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 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"/> WILDCAT WELL DETERMINATION <input type="checkbox"/> OTHER OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.		
<p>The operator has concluded the wellhead/casing repairs on the subject well location. Please see that attached chronological history for details of the operations.</p> <div style="text-align: right;"> <p><b>Accepted by the Utah Division of Oil, Gas and Mining</b></p> <p><b>FOR RECORD ONLY</b></p> <p>July 26, 2012</p> </div>		
<b>NAME (PLEASE PRINT)</b> Jaime Scharnowske	<b>PHONE NUMBER</b> 720 929-6304	<b>TITLE</b> Regulatory Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 7/17/2012	

US ROCKIES REGION  
Operation Summary Report

US ROCKIES REGION								
Operation Summary Report								
Well: NBU 920-22J			Spud Conductor: 12/12/2009			Spud Date: 12/13/2009		
Project: UTAH-UINTAH			Site: NBU 920-22J			Rig Name No: MONUMENT/698		
Event: WELL WORK EXPENSE			Start Date: 11/1/2011			End Date: 11/3/2011		
Active Datum: RKB @4,955.00usft (above Mean Sea Level)			UWI: NW/SE/0/9/S/20/E/22/0/0/26/PM/S/2,086.00/E/0/1,575.00/0/0					
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
10/31/2011	7:00 - 10:00	3.00	PROD	35				Tb 292 Cs 348 FL GC Got Sand Plunger up w/Well. Ran w/Up Shear Fish Tool to SN at 10013, latched and pulled Titanium Spring w/single X-cups and roll pin, pulled out. Equalized Tubing and Casing. Returned well to Production. Rigged Down.
11/1/2011	7:00 - 7:30	0.50	ALL	48		P		HSM, REVIEW BOP'S SAFETY
	7:30 - 8:30	1.00	ALL	30	A	P		SPOT & MIRU.
	8:30 - 9:30	1.00	ALL	47	A	P		FCP. 80 PSI. FTP. 80 PSI. BLEW TBG DWN, CONTROL TBG W/ 10 BBLs, ND WH, NU BOP'S, RU FLOOR & TBG EQUIPMENT,
	9:30 - 12:30	3.00	ALL	31		P		UNLAND TBG HANGER, POOH 313 JTS. 2-3/8 L-80 TBG.
	12:30 - 15:00	2.50	ALL	34	I	P		RU J-W WIRELINE COMPANY, RIH & SET 4-1/2 BAKER 10K CIBP @ 6320'. POOH. RD J-W WIRELINE COMPANY, FILL CSG W/ T-MAC, P.T. CIBP & CSG TO 3000 PSI. HELD, SWI, SDFN.
11/2/2011	7:00 - 7:30	0.50	ALL	48		P		HSM, REVIEW BACK-OFF PROCEDURE
	7:30 - 8:00	0.50	ALL	47	A	P		RD FLOOR & TBG EQUIPMENT, ND BOP'S, ND CSG BOWL, RU FLOOR, NU PWR SWVL,
	8:00 - 10:00	2.00	ALL	31	B	P		PU INTERNAL CSG CUTTER & RIH, CUT CSG 3' F/ SURFACE, POOH, ND PWR SWVL, RD FLOOR, PU 4-1/2 OVERSHOT, RIH LATCH FISH, MIRU CSG CREW & WIRELINE SERVICES, RIH & STRING SHOT CSG COLLAR, BACK-OFF CSG PUP JNT, POOH, PU NEW 10' CSG PUP JNT, RIH, TAG CSG TOP, THREAD INTO CSG, TORQUE CSG TO 6800# W/ 50 ROTATIONS ON CSG, PU CSG TO 100,000# TENSION
	10:00 - 11:00	1.00	ALL	33	C	P		RU B&C QUICK TEST, P.T. 4-1/2 CSG TO 1000 PSI. FOR 15 MINS, LOST 7.5 PSI. IN 15 MINS, P.T. 4-1/2 CSG TO 3500 PSI. FOR 30 MINS, LOST 20 PSI. IN 30 MINS, RD B&C QUICK TEST
	11:00 - 12:30	1.50	ALL	47	C	P		RU WEATHERFORD TECHNICIAN, SET C-21 SLIPS, LAND CSG W/ 90,000# TENSION, CUT-OFF & DRESS 4-1/2 CSG STUB, INSTALL "H" PLATE, FLANGE & CROSSOVER SPOOL, TORQUE ALL 1-7/8 BOLTS. INSTALL NEW WH, RD WEATHERFORD TECHNICIAN.
	12:30 - 15:00	2.50	ALL	31	I	P		NU CSG BOWL NU BOP'S, RU FLOOR & TBG EQUIPMENT, PU 3-7/8 MILL W/ 1.875 XN POBS, RIH 200 JTS. 2-3/8 L-80, TAG CIBP @ 6320', RU PWR SWVL, SWI, SDFN.
11/3/2011	7:00 - 7:30	0.50	ALL	48		P		HSM, REVIEW D/O CIBP & AIR FOAM UNIT
	7:30 - 9:00	1.50	ALL	44	C	P		RU TECH FOAM, EST CIRC IN 35 MINS, D/O CIBP @ 6320' IN 70 MINS, NO PSI. INCREASE, LD PWR SWVL.

**US ROCKIES REGION**  
**Operation Summary Report**

Well: NBU 920-22J		Spud Conductor: 12/12/2009		Spud Date: 12/13/2009	
Project: UTAH-UINTAH			Site: NBU 920-22J		Rig Name No: MONUMENT/698
Event: WELL WORK EXPENSE			Start Date: 11/1/2011		End Date: 11/3/2011
Active Datum: RKB @4,955.00usft (above Mean Sea Level)			UWI: NW/SE/0/9/S/20/E/22/0/0/26/PM/S/2,086.00/E/0/1,575.00/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	9:00 - 15:00	6.00	ALL	31	I	P		RIH TBG F/ DERRICK, PU 25 JTS. F/ TRAILER, TAG SAND @ 10,660', RU PWR SWVL, EST CIRC IN 15 MINS, C/O TO 10,673' PBTD, CIRC WELL CLEAN, KILL TBG, RD PWR SWVL, DROP BALL, PUMP-OFF MILL W/ 1750 PSI., KILL TBG, POOH LD 25 JTS. 2-3/8 L-80 TBG ON TRAILER , LAND TBG HANGER, RU SWAB EQUIPMENT, RIH & BROACH TBG TO XN, W/ 1.9 BROACH, POOH & LD SWAB EQUIPMENT, RD FLOOR & TBG EQUIPMENT, ND BOP'S, NU WH, RDMO. MOVE TO NBU 920-22K.  TBG DETAIL  KB-----13' HANGER-----83" 313 JTS. 2-3/8 L-80 TBG-----9896.07' 1.875 XN POBS-----2.20' EOT @-----9912.10' WLTR. 80 BBLS. TOP PERF @ 6396' BTM PERF @ 10,654' PBTD @ 10,673' API # 4304740545

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-000577B
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b> UTE
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.		<b>7. UNIT or CA AGREEMENT NAME:</b> NATURAL BUTTES
<b>1. TYPE OF WELL</b> Gas Well		<b>8. WELL NAME and NUMBER:</b> NBU 920-22J
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.		<b>9. API NUMBER:</b> 43047405450000
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	<b>PHONE NUMBER:</b> 720 929-6507	<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 2086 FSL 1575 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWSE Section: 22 Township: 09.0S Range: 20.0E Meridian: S		<b>COUNTY:</b> UINTAH
		<b>STATE:</b> UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:  <input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 11/20/2015  <input type="checkbox"/> SPUD REPORT Date of Spud:  <input type="checkbox"/> DRILLING REPORT Report Date:	<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 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"/> WILDCAT WELL DETERMINATION <input checked="" type="checkbox"/> OTHER	
	OTHER: TUBING FAILURE	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.		
<p>A WORKOVER FOR TUBING FAILURE HAS BEEN COMPLETED ON THE NBU 920-22J WELL. PLEASE SEE THE ATTACHED OPERATIONS SUMMARY REPORT FOR DETAILS.</p> <p style="text-align: right;"><b>Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY December 21, 2015</b></p>		
<b>NAME (PLEASE PRINT)</b> Kristina Geno	<b>PHONE NUMBER</b> 720 929-6824	<b>TITLE</b> Regulatory Analyst
<b>SIGNATURE</b> N/A		<b>DATE</b> 12/18/2015

US ROCKIES REGION  
**Operation Summary Report**

Well: NBU 920-22J		Spud Conductor: 12/12/2009		Spud date: 12/13/2009	
Project: UTAH-UINTAH			Site: NBU 920-22J		Rig name no.: GWS 1/1
Event: WELL WORK EXPENSE			Start date: 11/16/2015		End date: 11/20/2015
Active datum: RKB @4,955.00usft (above Mean Sea Level)			UWI: NW/SE/0/9/S/20/E/22/0/0/26/PM/S/2,086.00/E/0/1,575.00/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD from (usft)	Operation
11/16/2015	7:00 - 13:00	6.00	MAINT	35		P		Got to Location and rigged up with wireline truck #P1041 rigged up with JDC and ran down and was able to latch onto plunger tagged plunger @9,932 came out of well and had a double pad plunger rigged back up with JDC and latched onto Spring @9,932 jarred till jars would not go off any more and tried to beat spring out for about one hour and then tried to shear off of spring and took about 3 hours after 2 1/2 hours called other operator to bring a cutter bar he was on his way almost to my location and i let hydrolic cool down and line let it cool off for about thirty min and tried once more to shear off took about thirty min and was able to shear off. called operator back to let him know i was able to shear off and got out of well and left well how it was and rig down and move wireline truck back to savage yard.
11/17/2015	6:45 - 7:00	0.25	MAINT	48		P		HSM.
	7:00 - 8:30	1.50	MAINT	30	G	P		ROAD RIG F/ CIGE 52.
	8:30 - 10:00	1.50	MAINT	30	A	P		MIRU RIG & SPOT EQUIP.
	10:00 - 13:30	3.50	MAINT	31	I	P		SICP = 300 PSI. BLOW WELL DOWN T/ FBT. RIG PUMP T/ TBG. PUMP 20 BBLS T-MAC T/ CONT WELL. ND WH. MAKE UP 6' TBG PUP IN HNGR. TBG HNGR STUCK. WORK TBG HNGR FREE. TBG WAS NOT STUCK. RELAND TBG. NU BOP. RU RIG FLOOR & TBG EQUIP. PREP & TALLY NEW 2 3/8 P-110 TBG. RIH W/ 17 JTS TBG, TAG @ 10,450'. BTM PERF @ 10,654'. NEED T/ CO. POOH LD 17 JTS.
	13:30 - 17:00	3.50	MAINT	45	A	P		MIRU SCAM TECH. POOH SCAN TBG (BRK EVERY CONNECTION). SCAN 200 JTS 2 3/8 L-80 TBG. SWIFN. EOT @ 3350'. FINISH SCAN TBG IN THE MORNING.
11/18/2015	6:45 - 7:00	0.25	MAINT	48		P		HSM.
	7:00 - 10:00	3.00	MAINT	45	A	P		SICP = 550 PSI. BLOW WELL DOWN T/ FBT. FINISH POOH SCAN TBG. SCAN TOTAL OF 312 JTS 2 3/8 L-80. FOUND - 106 YB, 5 BB & 201 RB. HEAVY PITTING ON PIN ENDS. SOME PITTING ON ID OF TUBE. LIGHT SCALE THROUGH OUT TBG STRING. RDMO SCAM TECH.

## US ROCKIES REGION

## Operation Summary Report

Well: NBU 920-22J	Spud Conductor: 12/12/2009	Spud date: 12/13/2009
Project: UTAH-UINTAH	Site: NBU 920-22J	Rig name no.: GWS 1/1
Event: WELL WORK EXPENSE	Start date: 11/16/2015	End date: 11/20/2015
Active datum: RKB @4,955.00usft (above Mean Sea Level)	UWI: NW/SE/0/9/S/20/E/22/0/0/26/PM/S/2,086.00/E/0/1,575.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD from (usft)	Operation
	10:00 - 16:30	6.50	MAINT	31	I	P		PREP & TALLY NEW 2 3/8 P-110 TBG. PU 3 7/8 MILL, POBS & 1.875 XN. RIH W/ 210 JTS NEW 2 3/8 P-110. EOT @ 6608'. SWIFN. NOTE - SHUT DOWN DUE T/ WIND. HSM.
11/19/2015	6:45 - 7:00	0.25	MAINT	48		P		
	7:00 - 11:00	4.00	MAINT	31	I	P		SICP = 450 PSI. BLOW WELL DOWN FBT. PUMP 20 BBLS DOWN TBG. CONT RIH PU NEW 2 3/8 P-110 TBG, TAG @ 10,603'.
	11:00 - 14:00	3.00	MAINT	44	D	P		RU DRL EQUIP. BRK CONV CIRC W/ FOAM UNIT / N2 ( 1hr 10min T/ GET RETURNS ). MILL DOWN T/ 10,672' ( SOFT MILLING ) CIRC WELL CLEAN. RD DRL EQUIP.
	14:00 - 17:00	3.00	MAINT	31	I	P		POOH LD 33 EXESS JTS TBG. STD BCK 200 JTS. EOT @ 3700'. SWIFN. WINTERIZE EQUIP.
11/20/2015	6:45 - 7:00	0.25	MAINT	48		P		HSM.
	7:00 - 12:00	5.00	MAINT	31	I	P		SICP = 450 PSI. BLOW WELL DOWN T/ FBT. PUMP 20 BBLS DOWN TBG. CONT POOH W/ TBG. LD POBS, 3 7/8 MILL. PU 1.875 XN W/ NC. RIH W/ 315 JTS 2 3/8 P-110 TBG. PU 4 1/16 TBG HNGR & LAND TBG. EOT @ 9912'. RU BROACH EQUIP. RIH W/ BROACH. ALL TBG BROACH GOOD. RD BROACH EQUIP. RD RIG FLOOR. ND BOP. NU WH. RACK OUT RIG EQUIP. COULD NOT RD RIG DUE WIND CONDITIONS.
	12:00 - 15:00	3.00	MAINT	31	H	P		MIRU WEATHERFORD FOAM UNIT / N2. BRK CONV CIRC 1hr 30 min. UNLOAD WELL. RECOVERD 40 BBLS. SHUT DOWN PUMPING. RDMO WEATHERFORD FU & N2. SWI FOR PSI BUILD UP.