



Kerr-McGee Oil & Gas Onshore LP  
1999 Broadway, Suite 3700  
Denver, CO 80205

September 19, 2007

Mrs. Diana Mason  
Division of Oil, Gas and Mining  
P.O. Box 145801  
Salt Lake City, UT 84114-6100

Re: Directional Drilling R649-3-11  
NBU 922-1803AS  
T9S R22E  
Section 18: SWSE  
NWSE 1413' FSL, 2621' FEL (surface)  
SWSE 465' FSL, 1965' FEL (bottom hole)  
Uintah County, Utah

Dear Mrs. Mason:

Pursuant to the filing of Kerr-McGee Oil & Gas Onshore LP's (Kerr-McGee) Application for Permit to Drill regarding the above referenced well, we are hereby submitting this letter in accordance with Oil & Gas Conservation Rule R649-3-11 pertaining to the Exception to Location and Siting of Wells.

- Kerr-McGee's NBU 922-1803AS is located within the Natural Buttes Unit area.
- Kerr-McGee is permitting this well as a directional well in order to minimize surface disturbance. Locating the well at the surface location and directionally drilling from this location, Kerr-McGee will be able to utilize the existing road and pipelines in the area.
- Furthermore, Kerr-McGee certifies that it is the sole working interest owner within 460 feet of the entire directional well bore and the W/2, W/2NE/4 and SE/4 of Section 18 (federal leases USA UTU-0359, USA-UTU 0359-A and USA-UTU 0461).

Therefore, based on the above stated information Kerr-McGee Oil & Gas Onshore LP requests the permit be granted pursuant to R649-3-11.

Sincerely,

KERR-MCGEE OIL & GAS ONSHORE LP

A handwritten signature in black ink, appearing to read 'James C. Colligan III'.

James C. Colligan III  
Landman

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

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

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. <b>UTU-0461</b>
b. 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 <b>TRIBAL SURFACE</b>
2. Name of Operator <b>KERR MCGEE OIL AND GAS ONSHORE LP</b>		7. If Unit or CA Agreement, Name and No. <b>UNIT #891008900A</b>
3A. Address <b>1368 SOUTH 1200 EAST VERNAL, UT 84078</b>	3b. Phone No. (include area code) <b>(435) 781-7024</b>	8. Lease Name and Well No. <b>NBU 922-1803AS</b>
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface <b>NW/SE 1413'FSL, 2621'FEL</b> At proposed prod. Zone <b>SW/SE 465'FSL, 1965'FEL</b>		9. API Well No. <b>43047398 33</b>
14. Distance in miles and direction from nearest town or post office* <b>16.6 +/- MILES FROM OURAY, UTAH</b>		10. Field and Pool, or Exploratory <b>NATURAL BUTTES</b>
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) <b>1442'</b>	16. No. of Acres in lease <b>601.96</b>	11. Sec., T., R., M., or Blk, and Survey or Area <b>SEC. 18, T9S, R22E</b>
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. <b>REFER TO TOPO C</b>	19. Proposed Depth <b>9846'</b>	12. County or Parish <b>UINTAH</b>
21. Elevations (Show whether DF, KDB, RT, GL, etc.) <b>4861'GL</b>	22. Approximate date work will start* <b>UPON APPROVAL</b>	13. State <b>UTAH</b>
17. Spacing Unit dedicated to this well <b>40.00</b>		
20. BLM/BIA Bond No. on file <b>RLB0005239</b>		
23. Estimated duration <b>TO BE DETERMINED</b>		

24. Attachments

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

- |   |  |
|---|--|
| <ul style="list-style-type: none"> <li>1. Well plat certified by a registered surveyor.</li> <li>2. A Drilling Plan.</li> <li>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.</li> </ul> | <ul style="list-style-type: none"> <li>4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).</li> <li>5. Operator certification.</li> <li>6. Such other site specific information and/or plans as may be required by the authorized office.</li> </ul> |
|---|--|

25. Signature 	Name (Printed/Typed) <b>SHEILA UPCHEGO</b>	Date <b>11/16/2007</b>
Title <b>SENIOR LAND ADMIN SPECIALIST</b>		
Approved by (Signature) 	Name (Printed/Typed) <b>BRADLEY G. HILL</b>	Date <b>12-03-07</b>
Title <b>ENVIRONMENTAL MANAGER</b>		

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

Conditions of approval, if any, are attached.

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

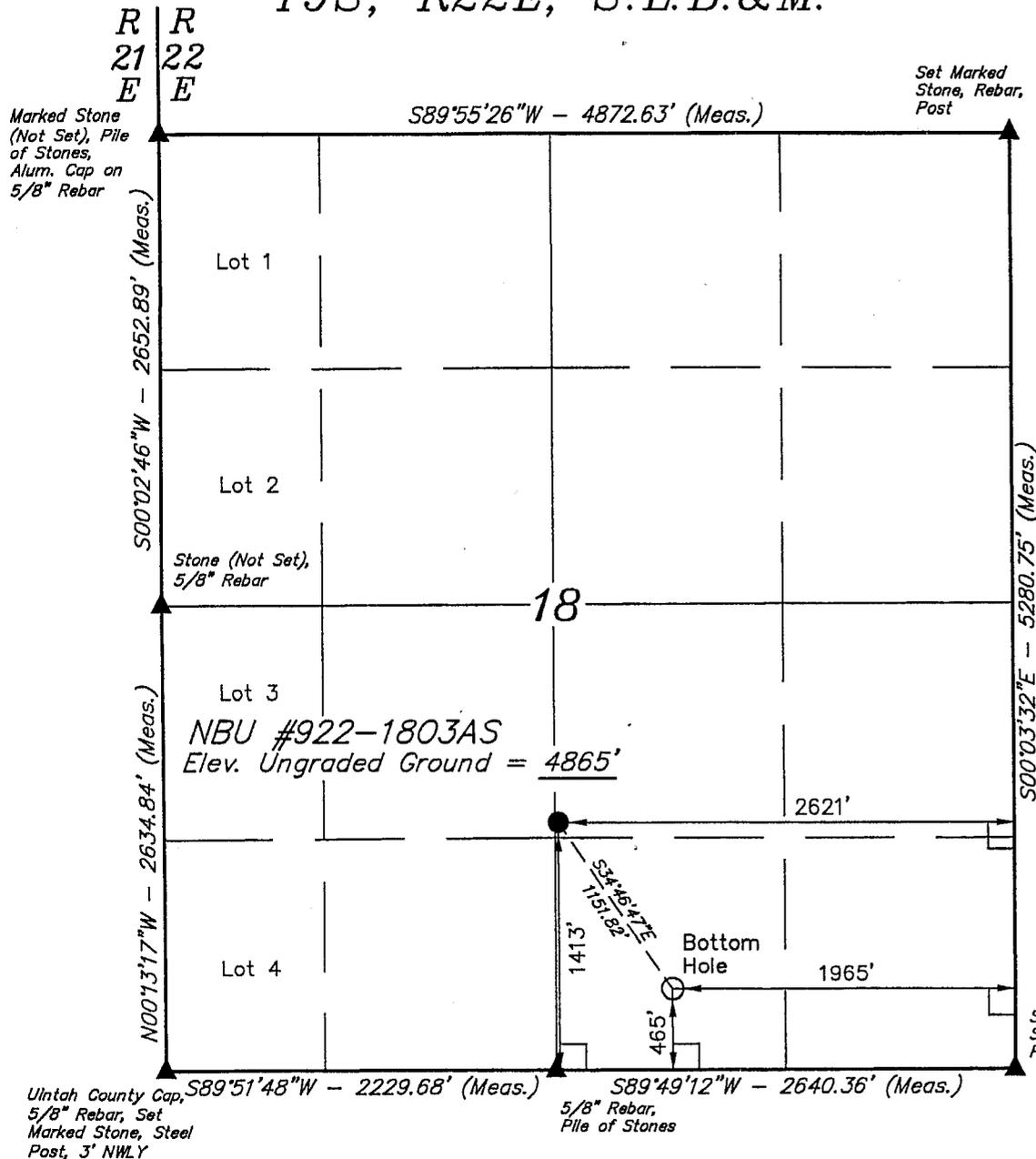
\*(Instructions on reverse)

Surf  
629524X  
44322724  
40.032624  
109.481952

BILL  
629731X  
44319884  
40.030036  
-109.479589

Federal Approval of this Action is Necessary **RECEIVED**  
**NOV 20 2007**  
DIV. OF OIL, GAS & MINING

# T9S, R22E, S.L.B.&M.



## Kerr-McGee Oil & Gas Onshore LP

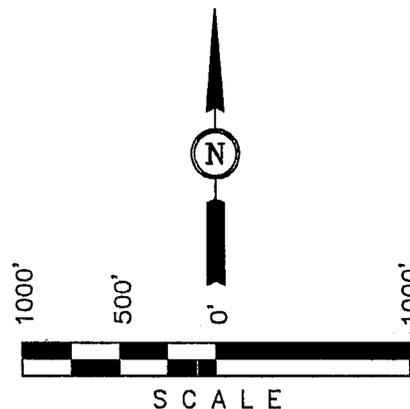
Well location, NBU #922-1803AS, located as shown in the NW 1/4 SE 1/4 of Section 18, T9S, R22E, S.L.B.&M., Uintah County, Utah.

### BASIS OF ELEVATION

BENCH MARK (20EAM) LOCATED IN THE SE 1/4 OF SECTION 35, T8S, R21E, S.L.B.&M. TAKEN FROM THE OURAY SE QUADRANGLE, UTAH, UINTAH COUNTY, 7.5 MINUTE SERIES (TOPOGRAPHICAL MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 4697 FEET.

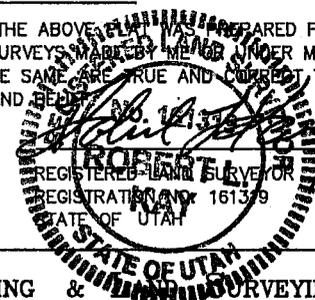
### BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.



### 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.



**UINTAH ENGINEERING & SURVEYING**  
 85 SOUTH 200 EAST - VERNAL, UTAH 84078  
 (435) 789-1017

### LEGEND:

- └─┘ = 90° SYMBOL
- = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED.

(NAD 83)  
 LATITUDE = 40°01'57.45" (40.032625)  
 LONGITUDE = 109°28'57.61" (109.482669)  
 (NAD 27)  
 LATITUDE = 40°01'57.58" (40.032661)  
 LONGITUDE = 109°28'55.14" (109.481983)

SCALE 1" = 1000'	DATE SURVEYED: 05-07-07	DATE DRAWN: 05-16-07
PARTY D.K. L.K. C.H.	REFERENCES G.L.O. PLAT	
WEATHER WARM	FILE Kerr-McGee Oil & Gas Onshore LP	

**NBU 922-1803AS  
NW/SE Sec. 18, T9S, R22E  
UINTAH COUNTY, UTAH  
UTU-0461**

**ONSHORE ORDER NO. 1**

***DRILLING PROGRAM***

**1. Estimated Tops of Important Geologic Markers:**

<u>Formation</u>	<u>Depth</u>
Uinta	0- Surface
Green River	1667'
Top of Birds Nest Water	1958'
Mahogany	2311'
Wasatch	4911'
Mesaverde	7595'
MVU2	8566'
MVL1	9054'
TVD	9670'
TD (MD)	9846'

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

<u>Substance</u>	<u>Formation</u>	<u>Depth</u>
	Green River	1667'
	Top of Birds Nest Water	1958'
	Mahogany	2311'
Gas	Wasatch	4911'
Gas	Mesaverde	7595'
Gas	MVU2	8566'
Gas	MVL1	9054'
Water	N/A	
Other Minerals	N/A	

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

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

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

*Please see the Natural Buttes Unit SOP.*

**5. Drilling Fluids Program:**

*Please see the Natural Buttes Unit SOP.*

6. **Evaluation Program:**

*Please see the Natural Buttes Unit SOP.*

7. **Abnormal Conditions:**

Maximum anticipated bottomhole pressure calculated at 9846' TD, approximately equals 6105 psi (calculated at 0.62 psi/foot).

Maximum anticipated surface pressure equals approximately 3939 psi (bottomhole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

8. **Anticipated Starting Dates:**

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

9. **Variations:**

*Please see Natural Buttes Unit SOP.*

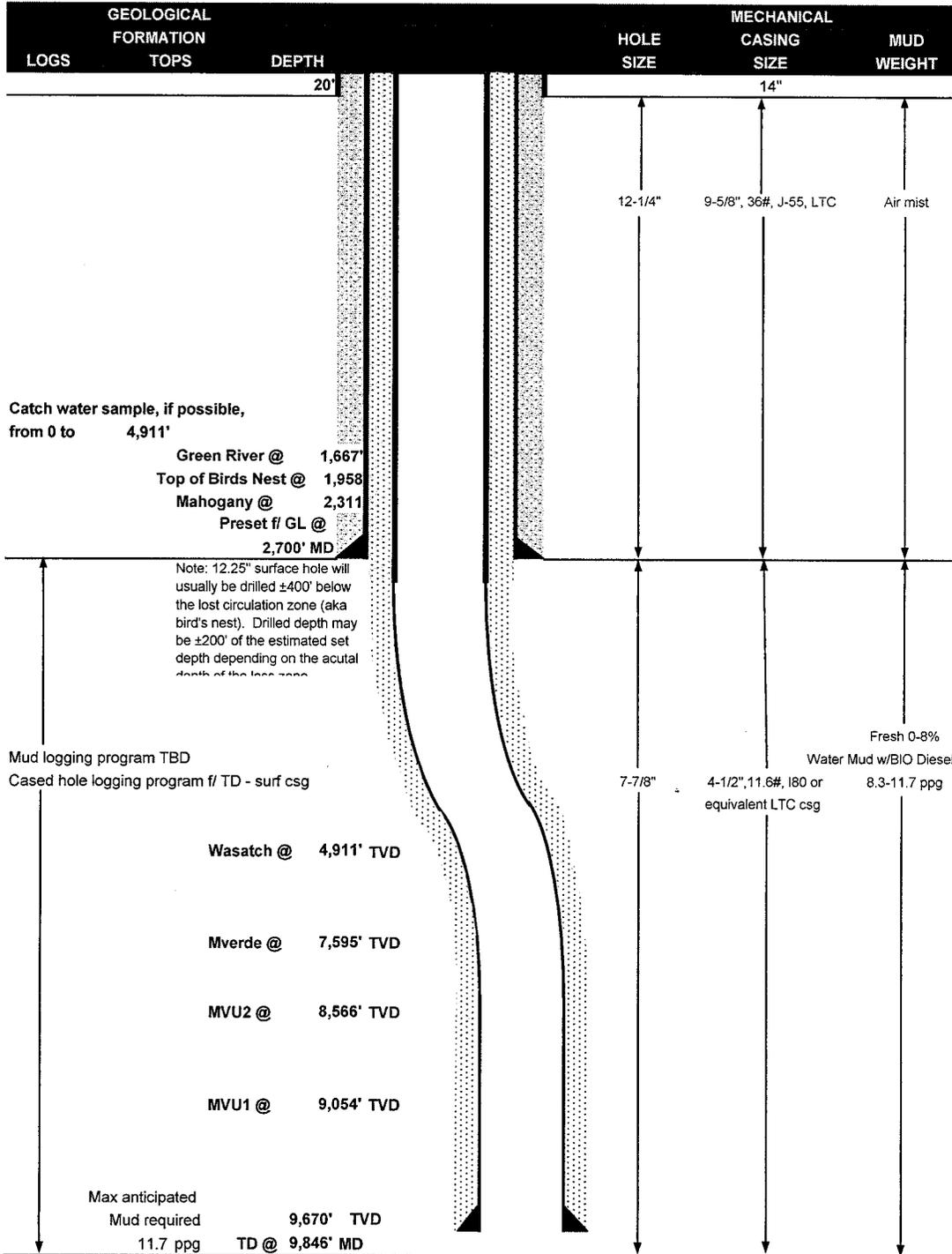
10. **Other Information:**

*Please see Natural Buttes Unit SOP.*



# KERR-McGEE OIL & GAS ONSHORE LP DRILLING PROGRAM

COMPANY NAME	KERR-McGEE OIL & GAS ONSHORE LP		DATE	November 16, 2007		
WELL NAME	<b>NBU 922-1803AS</b>		TD	9,846' MD	MD	9,670' TVD
FIELD	Natural Buttes	COUNTY	Uintah	STATE	Utah	ELEVATION
						4,861' GL KB 4,876'
SURFACE LOCATION	NW/SE SEC. 18, T9S, R22E 1413'FSL, 2621'FEL					
	Latitude: 40.032625 Longitude: 109.482669					
BTM HOLE LOCATION	SW/SE SEC. 18, T9S, R22E 465'FSL, 1965'FEL					
OBJECTIVE ZONE(S)	Wasatch/Mesaverde					
ADDITIONAL INFO	Regulatory Agencies: TRIBAL SURFACE, BLM MINERALS, UDOGM, Tri-County Health Dept.					





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

**CASING PROGRAM**

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS		
						BURST	COLLAPSE	TENSION
CONDUCTOR	14"	0-40'						
SURFACE	9-5/8"	0 to 2700	36.00	J-55	LTC	3520	2020	453000
						7780	6350	201000
PRODUCTION	4-1/2"	0 to 9846	11.60	I-80	LTC	2.03	1.06	2.02

- 1) Max Anticipated Surf. Press.(MASP) (Surface Casing) = (Pore Pressure at next csg point-(0.22 psi/ft-partial evac gradient x TVD of next csg point)  
 2) MASP (Prod Casing) = Pore Pressure at TD - (.22 psi/ft-partial evac gradient x TD)  
 (Burst Assumptions: TD = 0.0 ppg) .22 psi/ft = gradient for partially evac wellbore  
 (Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing\*Buoy.Fact. of water)  
 MASP 3824 psi

**CEMENT PROGRAM**

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE Option 1	LEAD	500	Premium cmt + 2% CaCl + .25 pps flocele	215	60%	15.60	1.18
	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 Option 2	LEAD	1500	NOTE: If well will circulate water to surface, option 2 will be utilized 65/35 Poz + 6% Gel + 10 pps gilsonite + .25 pps Flocele + 3% salt BWOW	360	35%	12.60	1.81
	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	7,086'	Premium Lite II + 3% KCl + 0.25 pps celloflake + 5 pps gilsonite + 10% gel + 0.5% extender	770	60%	11.00	3.38
	TAIL	2,760'	50/50 Poz/G + 10% salt + 2% gel + .1% R-3	780	60%	14.30	1.31

\*Substitute caliper hole volume plus 15% excess if accurate caliper is obtained

**FLOAT EQUIPMENT & CENTRALIZERS**

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe.
PRODUCTION	Float shoe, 1 jt, float collar. Centralize first 3 joints & every third joint to top of tail cement with bow spring centralizers.

**ADDITIONAL INFORMATION**

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

DRILLING ENGINEER: \_\_\_\_\_ DATE: \_\_\_\_\_  
 Brad Laney  
 DRILLING SUPERINTENDENT: \_\_\_\_\_ DATE: \_\_\_\_\_  
 Randy Bayne



**Weatherford<sup>®</sup>**

## **Drilling Services**

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## **Proposal**

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### **ANADARKO - KERR McGEE**

NBU 922-1803AS

UINTAH COUNTY, UTAH

WELL FILE: PLAN 1

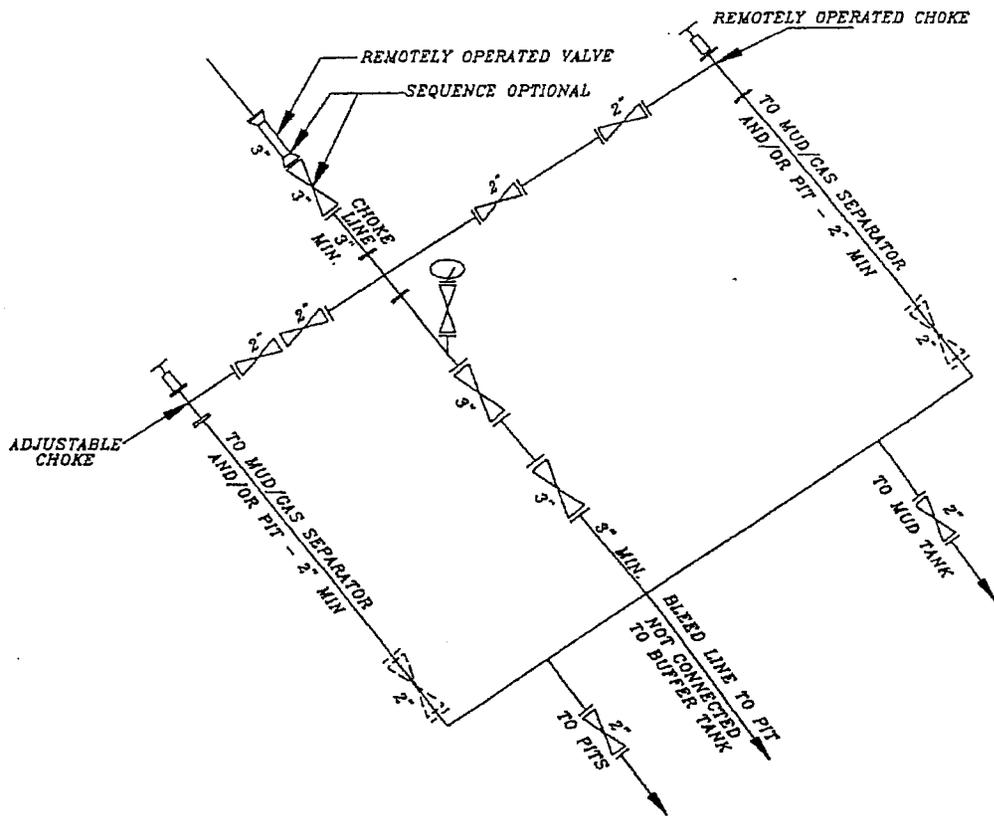
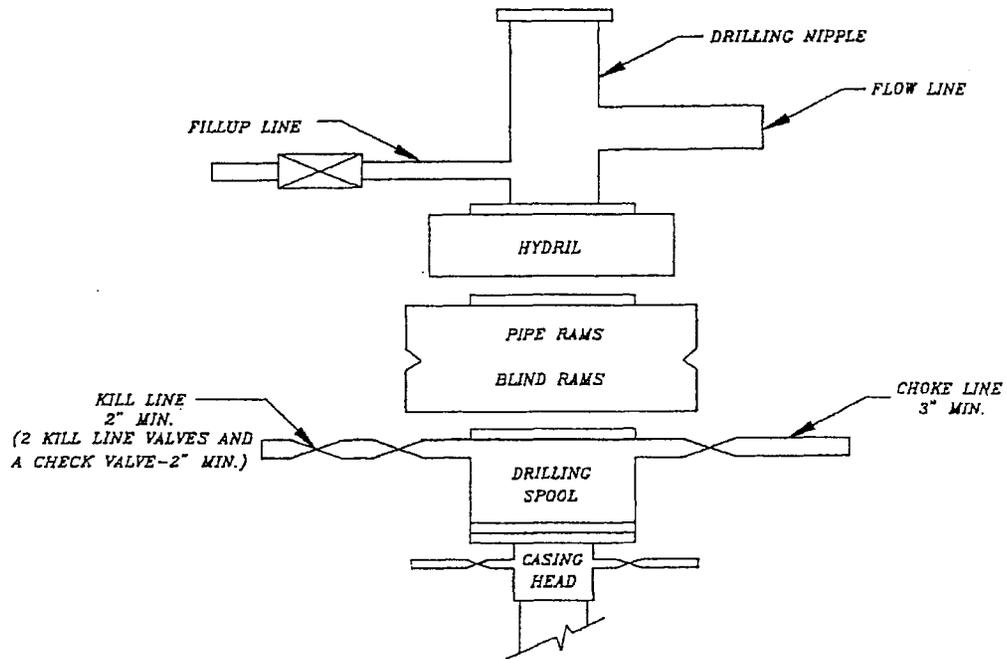
DATE: SEPTEMBER 24, 2007

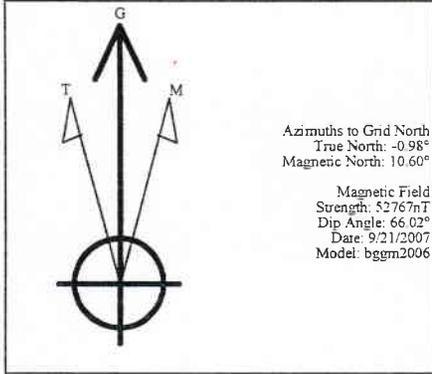
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**Weatherford International, Ltd.**

15710 John F. Kennedy Blvd  
Houston, Texas 77032 USA  
+1.281.260.1300 Main  
+1.281.260.4730 Fax  
[www.weatherford.com](http://www.weatherford.com)

# 5M BOP STACK and CHOKE MANIFOLD SYSTEM





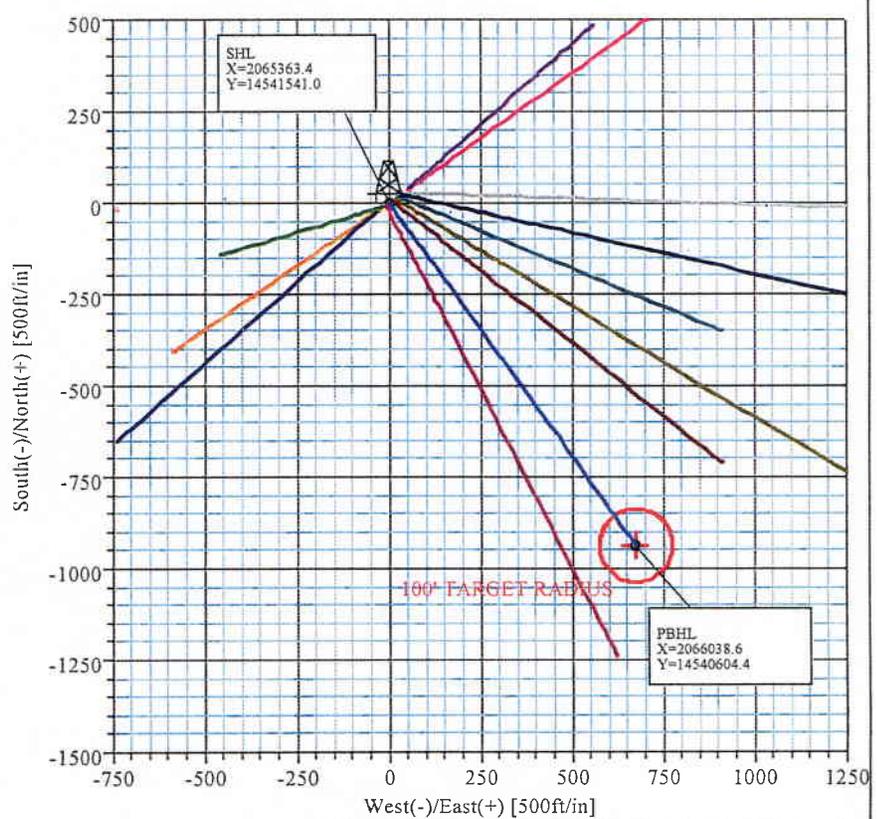
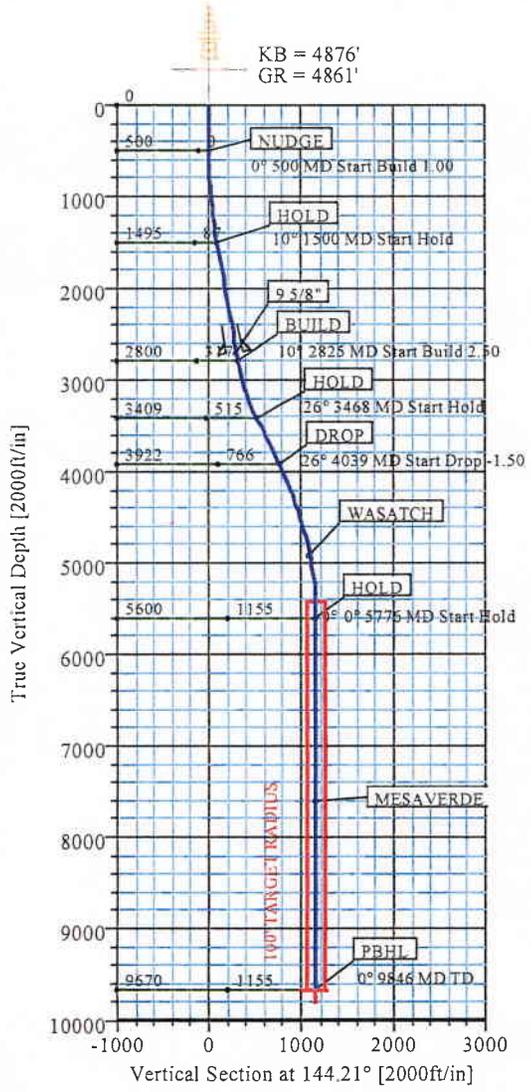
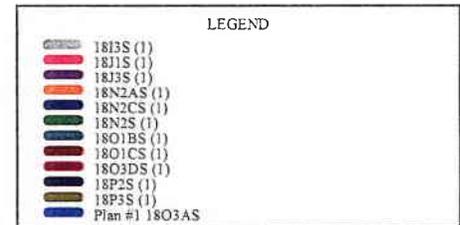
SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	144.21	0.00	0.00	0.00	0.00	0.00	0.00	
2	500.00	0.00	144.21	500.00	0.00	0.00	0.00	144.21	0.00	
3	1500.00	10.00	144.21	1494.93	-70.61	50.90	1.00	144.21	87.05	
4	2825.20	10.00	144.21	2800.00	-257.28	185.47	0.00	0.00	317.16	
5	3467.63	26.06	144.21	3408.88	-418.05	301.38	2.50	0.00	515.36	
6	4038.72	26.06	144.21	3921.91	-621.57	448.10	0.00	0.00	766.25	
7	5776.10	0.00	0.00	5600.00	-936.60	675.20	1.50	180.00	1154.61	
8	9846.10	0.00	0.00	9670.00	-936.60	675.20	0.00	0.00	1154.61	PBHL

WELL DETAILS							
Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
1803AS	0.00	0.00	14541541.00	2065365.40	40°01'57.403N	109°28'55.048W	N/A

CASING DETAILS				
No.	TVD	MD	Name	Size
1	2700.00	2723.66	9.5/8"	9.62

FORMATION TOP DETAILS			
No.	TVDPath	MDPath	Formation
1	4911.00	5083.51	WASATCH
2	7595.00	7771.10	MESAVERDE

**FIELD DETAILS**  
 Uintah County, Utah (UTM Zone 12N-NAD 27)  
 Geodetic System: Universal Transverse Mercator (USfeet)  
 Ellipsoid: NAD27 (Clarke 1866)  
 Zone: UTM Zone 12, North 114W to 108W  
 Magnetic Model: bggm2006  
 System Datum: Mean Sea Level  
 Local North: Grid North



# Weatherford Drilling Services

## DIRECTIONAL PLAN REPORT



<b>Company:</b> Anadarko-Kerr-McGee	<b>Date:</b> 9/27/2007	<b>Time:</b> 15:53:42	<b>Page:</b> 1
<b>Field:</b> UINTAH COUNTY, UTAH (UTM Zone 12N-NAD 27)	<b>Co-ordinate(NE) Reference:</b> Site: NBU 922-18O3AS PAD IJNOP		
<b>Site:</b> NBU 922-18O3AS PAD IJNOP	<b>Vertical (TVD) Reference:</b> SITE 4876.0		
<b>Well:</b> 18O3AS	<b>Section (VS) Reference:</b> Well (0.00N,0.00E,144.21Azi)		
<b>Wellpath:</b> 1	<b>Survey Calculation Method:</b> Minimum Curvature	<b>Db:</b> Sybase	

<b>Plan:</b> Plan #1 18O3AS	<b>Date Composed:</b> 9/21/2007
<b>Principal:</b> Yes	<b>Version:</b> 1
	<b>Tied-to:</b> From Surface

**Field:** UINTAH COUNTY, UTAH (UTM Zone 12N-NAD 27)

<b>Map System:</b> Universal Transverse Mercator (USfeet)	<b>Map Zone:</b> UTM Zone 12, North 114W to 108W
<b>Geo Datum:</b> NAD27 (Clarke 1866)	<b>Coordinate System:</b> Site Centre
<b>Sys Datum:</b> Mean Sea Level	<b>Geomagnetic Model:</b> bggm2006

**Site:** NBU 922-18O3AS PAD IJNOP

1413 FSL, 2621 FEL - SEC18 T9S R22E

<b>Site Position:</b>	<b>Northing:</b> 14541541.00 ft	<b>Latitude:</b> 40 1 57.403 N
<b>From:</b> Map	<b>Easting:</b> 2065363.40 ft	<b>Longitude:</b> 109 28 55.048 W
<b>Position Uncertainty:</b> 0.00 ft		<b>North Reference:</b> Grid
<b>Ground Level:</b> 4861.00 ft		<b>Grid Convergence:</b> 0.98 deg

<b>Well:</b> 18O3AS	<b>Slot Name:</b>
<b>Well Position:</b>	
+N/-S 0.00 ft	<b>Northing:</b> 14541541.00 ft
+E/-W 0.00 ft	<b>Longitude:</b> 109 28 55.048 W
<b>Position Uncertainty:</b> 0.00 ft	

<b>Wellpath:</b> 1	<b>Drilled From:</b> Surface
	<b>Tie-on Depth:</b> 0.00 ft
<b>Current Datum:</b> SITE	<b>Above System Datum:</b> Mean Sea Level
<b>Magnetic Data:</b> 9/21/2007	<b>Declination:</b> 11.57 deg
<b>Field Strength:</b> 52767 nT	<b>Mag Dip Angle:</b> 66.02 deg
<b>Vertical Section:</b>	<b>Direction:</b>
Depth From (TVD) ft	ft
+N/-S ft	ft
+E/-W ft	ft
0.00	0.00
0.00	0.00
0.00	144.21

**Plan Section Information**

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg	Target
0.00	0.00	144.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
500.00	0.00	144.21	500.00	0.00	0.00	0.00	0.00	0.00	144.21	
1500.00	10.00	144.21	1494.93	-70.61	50.90	1.00	1.00	0.00	144.21	
2825.20	10.00	144.21	2800.00	-257.28	185.47	0.00	0.00	0.00	0.00	
3467.63	26.06	144.21	3408.88	-418.05	301.38	2.50	2.50	0.00	0.00	
4038.72	26.06	144.21	3921.91	-621.57	448.10	0.00	0.00	0.00	0.00	
5776.10	0.00	0.00	5600.00	-936.60	675.20	1.50	-1.50	0.00	180.00	
9846.10	0.00	0.00	9670.00	-936.60	675.20	0.00	0.00	0.00	0.00	PBHL

**Survey**

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	MapN ft	MapE ft	Comment
500.00	0.00	144.21	500.00	0.00	0.00	0.00	0.00	14541541.00	2065363.40	NUDGE
600.00	1.00	144.21	599.99	-0.71	0.51	0.87	1.00	14541540.29	2065363.91	
700.00	2.00	144.21	699.96	-2.83	2.04	3.49	1.00	14541538.17	2065365.44	
800.00	3.00	144.21	799.86	-6.37	4.59	7.85	1.00	14541534.63	2065367.99	
900.00	4.00	144.21	899.68	-11.32	8.16	13.96	1.00	14541529.68	2065371.56	
1000.00	5.00	144.21	999.37	-17.69	12.75	21.80	1.00	14541523.31	2065376.15	
1100.00	6.00	144.21	1098.90	-25.46	18.35	31.39	1.00	14541515.54	2065381.75	
1200.00	7.00	144.21	1198.26	-34.64	24.97	42.71	1.00	14541506.36	2065388.37	
1300.00	8.00	144.21	1297.40	-45.23	32.61	55.76	1.00	14541495.77	2065396.01	
1400.00	9.00	144.21	1396.30	-57.22	41.25	70.54	1.00	14541483.78	2065404.65	
1500.00	10.00	144.21	1494.93	-70.61	50.90	87.05	1.00	14541470.39	2065414.30	HOLD
1600.00	10.00	144.21	1593.41	-84.70	61.06	104.41	0.00	14541456.30	2065424.46	
1700.00	10.00	144.21	1691.89	-98.78	71.21	121.77	0.00	14541442.22	2065434.61	
1800.00	10.00	144.21	1790.37	-112.87	81.37	139.14	0.00	14541428.13	2065444.77	

# Weatherford Drilling Services

## DIRECTIONAL PLAN REPORT



<b>Company:</b> Anadarko-Kerr-McGee <b>Field:</b> UINTAH COUNTY, UTAH (UTM Zone 12N-NAD 27) <b>Site:</b> NBU 922-1803AS PAD IJNOP <b>Well:</b> 1803AS <b>Wellpath:</b> 1	<b>Date:</b> 9/27/2007 <b>Co-ordinate(NE) Reference:</b> Site: NBU 922-1803AS PAD IJNOP <b>Vertical (TVD) Reference:</b> SITE 4876.0 <b>Section (VS) Reference:</b> Well (0.00N,0.00E,144.21Azi) <b>Survey Calculation Method:</b> Minimum Curvature <b>Db:</b> Sybase
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### Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	MapN ft	MapE ft	Comment
6500.00	0.00	0.00	6323.90	-936.60	675.20	1154.61	0.00	14540604.40	2066038.60	
6600.00	0.00	0.00	6423.90	-936.60	675.20	1154.61	0.00	14540604.40	2066038.60	
6700.00	0.00	0.00	6523.90	-936.60	675.20	1154.61	0.00	14540604.40	2066038.60	
6800.00	0.00	0.00	6623.90	-936.60	675.20	1154.61	0.00	14540604.40	2066038.60	
6900.00	0.00	0.00	6723.90	-936.60	675.20	1154.61	0.00	14540604.40	2066038.60	
7000.00	0.00	0.00	6823.90	-936.60	675.20	1154.61	0.00	14540604.40	2066038.60	
7100.00	0.00	0.00	6923.90	-936.60	675.20	1154.61	0.00	14540604.40	2066038.60	
7200.00	0.00	0.00	7023.90	-936.60	675.20	1154.61	0.00	14540604.40	2066038.60	
7300.00	0.00	0.00	7123.90	-936.60	675.20	1154.61	0.00	14540604.40	2066038.60	
7400.00	0.00	0.00	7223.90	-936.60	675.20	1154.61	0.00	14540604.40	2066038.60	
7500.00	0.00	0.00	7323.90	-936.60	675.20	1154.61	0.00	14540604.40	2066038.60	
7600.00	0.00	0.00	7423.90	-936.60	675.20	1154.61	0.00	14540604.40	2066038.60	
7700.00	0.00	0.00	7523.90	-936.60	675.20	1154.61	0.00	14540604.40	2066038.60	
7771.10	0.00	0.00	7595.00	-936.60	675.20	1154.61	0.00	14540604.40	2066038.60	MESAVERDE
7800.00	0.00	0.00	7623.90	-936.60	675.20	1154.61	0.00	14540604.40	2066038.60	
7900.00	0.00	0.00	7723.90	-936.60	675.20	1154.61	0.00	14540604.40	2066038.60	
8000.00	0.00	0.00	7823.90	-936.60	675.20	1154.61	0.00	14540604.40	2066038.60	
8100.00	0.00	0.00	7923.90	-936.60	675.20	1154.61	0.00	14540604.40	2066038.60	
8200.00	0.00	0.00	8023.90	-936.60	675.20	1154.61	0.00	14540604.40	2066038.60	
8300.00	0.00	0.00	8123.90	-936.60	675.20	1154.61	0.00	14540604.40	2066038.60	
8400.00	0.00	0.00	8223.90	-936.60	675.20	1154.61	0.00	14540604.40	2066038.60	
8500.00	0.00	0.00	8323.90	-936.60	675.20	1154.61	0.00	14540604.40	2066038.60	
8600.00	0.00	0.00	8423.90	-936.60	675.20	1154.61	0.00	14540604.40	2066038.60	
8700.00	0.00	0.00	8523.90	-936.60	675.20	1154.61	0.00	14540604.40	2066038.60	
8800.00	0.00	0.00	8623.90	-936.60	675.20	1154.61	0.00	14540604.40	2066038.60	
8900.00	0.00	0.00	8723.90	-936.60	675.20	1154.61	0.00	14540604.40	2066038.60	
9000.00	0.00	0.00	8823.90	-936.60	675.20	1154.61	0.00	14540604.40	2066038.60	
9100.00	0.00	0.00	8923.90	-936.60	675.20	1154.61	0.00	14540604.40	2066038.60	
9200.00	0.00	0.00	9023.90	-936.60	675.20	1154.61	0.00	14540604.40	2066038.60	
9300.00	0.00	0.00	9123.90	-936.60	675.20	1154.61	0.00	14540604.40	2066038.60	
9400.00	0.00	0.00	9223.90	-936.60	675.20	1154.61	0.00	14540604.40	2066038.60	
9500.00	0.00	0.00	9323.90	-936.60	675.20	1154.61	0.00	14540604.40	2066038.60	
9600.00	0.00	0.00	9423.90	-936.60	675.20	1154.61	0.00	14540604.40	2066038.60	
9700.00	0.00	0.00	9523.90	-936.60	675.20	1154.61	0.00	14540604.40	2066038.60	
9800.00	0.00	0.00	9623.90	-936.60	675.20	1154.61	0.00	14540604.40	2066038.60	
9846.10	0.00	0.00	9670.00	-936.60	675.20	1154.61	0.00	14540604.40	2066038.60	PBHL

### Targets

Name	Description Dip. Dir.	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	<--- Latitude --->			<--- Longitude --->				
							Deg	Min	Sec	Deg	Min	Sec		
PBHL		9670.00	-936.60	675.20	14540604.40	2066038.60	40	1	48.033	N	109	28	46.573	W
	-Circle (Radius: 100)													
	-Plan hit target													

### Casing Points

MD ft	TVD ft	Diameter in	Hole Size in	Name
2723.66	2700.00	9.62	12.25	9 5/8"

# Weatherford Drilling Services

## DIRECTIONAL PLAN REPORT



<b>Company:</b> Anadarko-Kerr-McGee	<b>Date:</b> 9/27/2007	<b>Time:</b> 15:53:42	<b>Page:</b> 4
<b>Field:</b> UINTAH COUNTY, UTAH (UTM Zone 12N-NAD 27)	<b>Co-ordinate(NE) Reference:</b>	<b>Site:</b> NBU 922-1803AS PAD IJNOP	
<b>Site:</b> NBU 922-1803AS PAD IJNOP	<b>Vertical (TVD) Reference:</b>	<b>SITE:</b> 4876.0	
<b>Well:</b> 1803AS	<b>Section (VS) Reference:</b>	<b>Well (0.00N,0.00E,144.21Azi)</b>	
<b>Wellpath:</b> 1	<b>Survey Calculation Method:</b>	<b>Minimum Curvature</b>	<b>Db: Sybase</b>

**Annotation**

MD ft	TVD ft	
500.00	500.00	NUDGE
1500.00	1494.93	HOLD
2825.20	2800.00	BUILD
3467.63	3408.88	HOLD
4038.72	3921.91	DROP
5776.10	5600.00	HOLD
9846.10	9670.00	PBHL

**Formations**

MD ft	TVD ft	Formations	Lithology	Dip Angle deg	Dip Direction deg
5083.31	4911.00	WASATCH		0.00	0.00
7771.10	7595.00	MESAVERDE		0.00	0.00



**Weatherford**

**Weatherford Drilling Services**

GeoDec v4.1.130

Report Date: September 24, 2007  
 Job Number: \_\_\_\_\_  
 Customer: ANADARKO-KERR McGEE  
 Well Name: NBU 922-1803AS  
 API Number: \_\_\_\_\_  
 Rig Name: \_\_\_\_\_  
 Location: UNITAH COUNTY, UTAH  
 Block: \_\_\_\_\_  
 Engineer: R JOYNER

Universal Transverse Mercator	Geodetic Latitude / Longitude
System: Zone 12N (114 W to 108 W)	System: Latitude / Longitude
Projection: Transverse Mercator/Gauss Kruger	Projection: Geodetic Latitude and Longitude
Datum: NAD 1927 (NADCON CONUS)	Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866	Ellipsoid: Clarke 1866
North/South 14541541.000 USFT	Latitude 40.0326120 DEG
East/West 2065363.400 USFT	Longitude -109.4819577 DEG
Grid Convergence: .97663394°	
Total Correction: +10.5911°	

Geodetic Location WGS84	Elevation = 1482.0 Meters
Latitude = 40.03261° N	40° 1 min 57.403 sec
Longitude = 109.48196° W	109° 28 min 55.048 sec

Magnetic Declination =	+11.5680°	[True North Offset]
Local Gravity =	.9995 g	
Local Field Strength=	52727 nT	Mag Vector X = 20994 nT
Dip =	66.0200°	Mag Vector Y = 4297 nT
Model File:	bggm2006	Mag Vector Z = 48176 nT
Spud Date:	Sep 24, 2007	Mag Vector H = 21430 nT

Signed: \_\_\_\_\_

Date: \_\_\_\_\_

<b>Company:</b>	Anadarko-Kerr-McGee	<b>Date:</b>	9/24/2007	<b>Time:</b>	14:19:07	<b>Page:</b>	1
<b>Field:</b>	UINTAH COUNTY, UTAH (UTM Zone 12N-NAD 27)						
<b>Reference Site:</b>	NBU 922-18O3AS PAD IJNOP	<b>Co-ordinate(NE) Reference:</b>	Site: NBU 922-18O3AS PAD IJNOP				
<b>Reference Well:</b>	18O3AS	<b>Vertical (TVD) Reference:</b>	SITE 4876.0.				
<b>Reference Wellpath:</b>	1	<b>Db:</b> Sybase					

NO GLOBAL SCAN: Using user defined selection & scan criteria		<b>Reference:</b>	Plan: Plan #1 18O3AS
<b>Interpolation Method:</b> MD	<b>Interval:</b> 100.00 ft	<b>Error Model:</b>	ISCWSA Ellipse
<b>Depth Range:</b> 0.00 to 9846.10 ft		<b>Scan Method:</b>	Closest Approach 3D
<b>Maximum Radius:</b> 10000.00 ft		<b>Error Surface:</b>	Ellipse

<b>Plan:</b>	Plan #1 18O3AS	<b>Date Composed:</b>	9/21/2007
<b>Principal:</b>	Yes	<b>Version:</b>	1
		<b>Tied-to:</b>	From Surface

**Summary**

Site	Offset Wellpath Well	Wellpath	Reference MD ft	Offset MD ft	Ctr-Ctr Distance ft	Edge Distance ft	Separation Factor	Warning
NBU 922-18O3DS PAD IJNOP		1 V0 Plan: Plan #1 18O	800.00	799.98	11.69	8.58	3.75	

**Site:** NBU 922-18O3DS PAD IJNOP  
**Well:** 18O3DS  
**Wellpath:** 1 V0 Plan: Plan #1 18O3DS V1  
**Inter-Site Error:** 0.00 ft

Reference MD ft	TVD ft	Offset MD ft	TVD ft	Semi-Major Axis Ref ft	Offset ft	TFO-HS deg	Offset Location North ft	East ft	Ctr-Ctr Distance ft	Edge Distance ft	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	232.33	-6.10	-7.90	9.98			No Data
100.00	100.00	100.00	100.00	0.09	0.09	232.33	-6.10	-7.90	9.98	9.80	56.07	
200.00	200.00	200.00	200.00	0.30	0.30	232.33	-6.10	-7.90	9.98	9.38	16.72	
300.00	300.00	300.00	300.00	0.51	0.51	232.33	-6.10	-7.90	9.98	8.97	9.83	
400.00	400.00	400.00	400.00	0.72	0.72	232.33	-6.10	-7.90	9.98	8.55	6.96	
500.00	500.00	500.00	500.00	0.93	0.93	232.33	-6.10	-7.90	9.98	8.13	5.38	
600.00	599.99	599.99	599.99	1.14	1.14	93.12	-6.10	-7.90	9.99	7.72	4.40	
700.00	699.96	699.97	699.97	1.35	1.35	106.40	-6.29	-7.80	10.43	7.74	3.87	
800.00	799.86	799.98	799.97	1.56	1.56	118.52	-7.85	-7.01	11.69	8.58	3.75	
900.00	899.68	900.04	899.96	1.78	1.77	127.33	-10.96	-5.41	13.58	10.04	3.83	
1000.00	999.37	1000.14	999.92	2.01	1.98	133.26	-15.62	-3.03	15.92	11.94	4.00	
1100.00	1098.90	1100.27	1099.81	2.26	2.21	137.08	-21.84	0.16	18.58	14.15	4.20	
1200.00	1198.26	1200.45	1199.61	2.52	2.44	139.42	-29.62	4.14	21.48	16.60	4.40	
1300.00	1297.40	1300.67	1299.27	2.80	2.69	140.74	-38.95	8.91	24.58	19.23	4.59	
1400.00	1396.30	1400.92	1398.78	3.10	2.96	141.36	-49.84	14.49	27.87	22.03	4.77	
1500.00	1494.93	1501.22	1498.09	3.43	3.24	141.48	-62.28	20.86	31.34	24.98	4.93	
1600.00	1593.41	1601.56	1597.19	3.77	3.55	140.36	-76.28	28.02	34.30	27.38	4.95	
1700.00	1691.89	1701.72	1695.86	4.12	3.88	137.61	-91.58	35.85	36.31	28.77	4.82	
1800.00	1790.37	1801.68	1794.31	4.47	4.22	134.90	-107.03	43.76	38.26	30.08	4.68	
1900.00	1888.85	1901.65	1892.76	4.83	4.56	132.47	-122.49	51.67	40.29	31.44	4.55	
2000.00	1987.33	2001.61	1991.20	5.20	4.91	130.27	-137.94	59.58	42.39	32.85	4.44	
2100.00	2085.82	2101.58	2089.65	5.56	5.27	128.28	-153.39	67.49	44.55	34.29	4.35	
2200.00	2184.30	2201.55	2188.10	5.93	5.63	126.48	-168.84	75.39	46.75	35.78	4.26	
2300.00	2282.78	2301.51	2286.54	6.31	5.99	124.84	-184.30	83.30	48.99	37.30	4.19	
2400.00	2381.26	2401.48	2384.99	6.68	6.36	123.35	-199.75	91.21	51.27	38.84	4.12	
2500.00	2479.74	2501.44	2483.44	7.05	6.73	121.98	-215.20	99.12	53.59	40.41	4.07	
2600.00	2578.22	2601.41	2581.88	7.43	7.10	120.73	-230.65	107.03	55.93	42.00	4.02	
2700.00	2676.70	2701.37	2680.33	7.80	7.47	119.58	-246.11	114.94	58.29	43.61	3.97	
2800.00	2775.18	2801.34	2778.78	8.18	7.84	118.52	-261.56	122.85	60.68	45.24	3.93	
2900.00	2873.44	2902.01	2877.66	8.58	8.24	117.31	-278.31	131.42	63.21	46.98	3.89	
3000.00	2970.82	3002.83	2975.80	9.03	8.69	115.90	-298.87	141.94	66.33	49.19	3.87	
3100.00	3067.12	3103.61	3072.79	9.54	9.20	114.38	-323.23	154.41	70.06	51.89	3.85	
3200.00	3162.15	3204.34	3168.42	10.12	9.78	112.81	-351.35	168.80	74.43	55.09	3.85	
3300.00	3255.74	3305.00	3262.52	10.77	10.42	111.24	-383.16	185.08	79.43	58.78	3.85	
3400.00	3347.70	3405.60	3354.90	11.48	11.13	109.70	-418.59	203.22	85.06	62.96	3.85	
3500.00	3437.96	3506.13	3445.38	12.26	11.92	108.12	-457.57	223.17	91.24	67.53	3.85	

<b>Company:</b>	Anadarko-Kerr-McGee	<b>Date:</b>	9/24/2007	<b>Time:</b>	14:19:07	<b>Page:</b>	2	
<b>Field:</b>	UINTAH COUNTY, UTAH (UTM Zone 12N-NAD 27)							
<b>Reference Site:</b>	NBU 922-1803AS PAD IJNOP	<b>Co-ordinate(NE) Reference:</b>	Site: NBU 922-1803AS PAD IJNOP					
<b>Reference Well:</b>	1803AS	<b>Vertical (TVD) Reference:</b>	SITE 4876.0					
<b>Reference Wellpath:</b>	1						<b>Db:</b>	Sybase

Site: NBU 922-1803DS PAD IJNOP  
 Well: 1803DS  
 Wellpath: 1 V0 Plan: Plan #1 1803DS V1

Inter-Site Error: 0.00 ft

Reference MD ft	TVD ft	Offset		Semi-Major Axis		TFO-HS deg	Offset Location		Ctr-Ctr Distance ft	Edge Distance ft	Separation Factor	Warning
		MD ft	TVD ft	Ref ft	Offset ft		North ft	East ft				
3600.00	3527.79	3606.43	3533.66	13.07	12.77	104.84	-499.94	244.86	97.13	71.55	3.80	
3700.00	3617.63	3706.00	3620.18	13.89	13.66	100.68	-543.81	267.31	103.17	75.78	3.77	
3800.00	3707.46	3805.56	3706.68	14.71	14.56	96.99	-587.68	289.76	109.68	80.48	3.76	
3900.00	3797.29	3905.11	3793.19	15.54	15.47	93.73	-631.54	312.21	116.60	85.64	3.77	
4000.00	3887.13	4004.66	3879.69	16.37	16.38	90.84	-675.40	334.66	123.85	91.18	3.79	
4100.00	3977.17	4104.18	3966.17	17.09	17.31	88.13	-719.25	357.10	131.40	97.18	3.84	
4200.00	4068.24	4203.52	4052.48	17.55	18.23	84.80	-763.02	379.51	139.42	104.02	3.94	
4300.00	4160.37	4302.99	4138.99	17.99	19.09	80.90	-806.73	401.88	148.25	111.93	4.08	
4400.00	4253.47	4403.36	4227.27	18.42	19.65	77.22	-849.24	423.63	157.58	120.76	4.28	
4500.00	4347.51	4504.09	4317.10	18.83	20.20	73.91	-889.80	444.39	167.16	129.96	4.49	
4600.00	4442.39	4605.19	4408.43	19.22	20.73	70.94	-928.37	464.13	176.91	139.43	4.72	
4700.00	4538.08	4706.64	4501.21	19.57	21.25	68.24	-964.91	482.83	186.75	149.07	4.96	
4800.00	4634.49	4808.46	4595.39	19.90	21.75	65.78	-999.36	500.46	196.64	158.84	5.20	
4900.00	4731.56	4910.64	4690.90	20.20	22.23	63.51	-1031.67	517.00	206.51	168.68	5.46	
5000.00	4829.23	5013.19	4787.70	20.46	22.68	61.41	-1061.80	532.42	216.33	178.55	5.73	
5100.00	4927.42	5116.10	4885.72	20.69	23.09	59.45	-1089.70	546.70	226.07	188.41	6.00	
5200.00	5026.08	5219.38	4984.90	20.88	23.48	57.61	-1115.33	559.82	235.70	198.24	6.29	
5300.00	5125.13	5323.01	5085.17	21.03	23.82	55.87	-1138.64	571.75	245.20	208.01	6.59	
5400.00	5224.51	5427.01	5186.46	21.15	24.14	54.22	-1159.58	582.47	254.55	217.70	6.91	
5500.00	5324.14	5531.36	5288.71	21.23	24.41	52.64	-1178.13	591.96	263.73	227.30	7.24	
5600.00	5423.96	5636.07	5391.84	21.27	24.64	51.13	-1194.23	600.20	272.74	236.78	7.59	
5700.00	5523.90	5741.13	5495.78	21.27	24.83	49.67	-1207.84	607.17	281.54	246.14	7.95	
5800.00	5623.90	5846.54	5600.45	21.28	24.98	48.24	-1218.95	612.85	290.10	255.26	8.33	
5900.00	5723.90	5952.48	5705.94	21.24	25.08	46.81	-1227.51	617.24	297.17	262.86	8.66	
6000.00	5823.90	6058.86	5812.12	21.20	25.15	45.38	-1233.48	620.29	302.15	268.24	8.91	
6100.00	5923.90	6165.55	5918.73	21.17	25.16	43.95	-1236.83	622.01	304.95	271.32	9.07	
6200.00	6023.90	6270.72	6023.90	21.13	25.16	42.52	-1237.60	622.40	305.60	272.09	9.12	
6300.00	6123.90	6370.72	6123.90	21.10	25.14	41.09	-1237.60	622.40	305.60	272.16	9.14	
6400.00	6223.90	6470.72	6223.90	21.07	25.11	39.66	-1237.60	622.40	305.60	272.25	9.16	
6500.00	6323.90	6570.72	6323.90	21.05	25.07	38.23	-1237.60	622.40	305.60	272.33	9.19	
6600.00	6423.90	6670.72	6423.90	21.02	25.04	36.80	-1237.60	622.40	305.60	272.40	9.21	
6700.00	6523.90	6770.72	6523.90	21.00	25.01	35.37	-1237.60	622.40	305.60	272.47	9.23	
6800.00	6623.90	6870.72	6623.90	20.98	24.99	33.94	-1237.60	622.40	305.60	272.53	9.24	
6900.00	6723.90	6970.72	6723.90	20.96	24.96	32.51	-1237.60	622.40	305.60	272.59	9.26	
7000.00	6823.90	7070.72	6823.90	20.94	24.94	31.08	-1237.60	622.40	305.60	272.65	9.27	
7100.00	6923.90	7170.72	6923.90	20.93	24.92	29.65	-1237.60	622.40	305.60	272.69	9.29	
7200.00	7023.90	7270.72	7023.90	20.92	24.90	28.22	-1237.60	622.40	305.60	272.74	9.30	
7300.00	7123.90	7370.72	7123.90	20.91	24.88	26.79	-1237.60	622.40	305.60	272.78	9.31	
7400.00	7223.90	7470.72	7223.90	20.90	24.86	25.36	-1237.60	622.40	305.60	272.81	9.32	
7500.00	7323.90	7570.72	7323.90	20.89	24.85	23.93	-1237.60	622.40	305.60	272.84	9.33	
7600.00	7423.90	7670.72	7423.90	20.89	24.83	22.50	-1237.60	622.40	305.60	272.86	9.33	
7700.00	7523.90	7770.72	7523.90	20.89	24.82	21.07	-1237.60	622.40	305.60	272.87	9.34	
7800.00	7623.90	7870.72	7623.90	20.89	24.81	19.64	-1237.60	622.40	305.60	272.88	9.34	
7900.00	7723.90	7970.72	7723.90	20.89	24.80	18.21	-1237.60	622.40	305.60	272.89	9.34	
8000.00	7823.90	8070.72	7823.90	20.89	24.80	16.78	-1237.60	622.40	305.60	272.89	9.34	
8100.00	7923.90	8170.72	7923.90	20.90	24.79	15.35	-1237.60	622.40	305.60	272.89	9.34	
8200.00	8023.90	8270.72	8023.90	20.91	24.79	13.92	-1237.60	622.40	305.60	272.88	9.34	
8300.00	8123.90	8370.72	8123.90	20.92	24.79	12.49	-1237.60	622.40	305.60	272.86	9.34	
8400.00	8223.90	8470.72	8223.90	20.93	24.79	11.06	-1237.60	622.40	305.60	272.84	9.33	
8500.00	8323.90	8570.72	8323.90	20.95	24.80	9.63	-1237.60	622.40	305.60	272.81	9.32	
8600.00	8423.90	8670.72	8423.90	20.96	24.80	8.20	-1237.60	622.40	305.60	272.78	9.31	



# Weatherford Drilling Services

## Anticollision Report



**Company:** Anadarko-Kerr-McGee      **Date:** 9/24/2007      **Time:** 14:19:07      **Page:** 3  
**Field:** UINTAH COUNTY, UTAH (UTM Zone 12N-NAD 27)  
**Reference Site:** NBU 922-1803AS PAD IJNOP      **Co-ordinate(NE) Reference:** Site: NBU 922-1803AS PAD IJNOP  
**Reference Well:** 1803AS      **Vertical (TVD) Reference:** SITE 4876.0  
**Reference Wellpath:** 1      **Db:** Sybase

**Site:** NBU 922-1803DS PAD IJNOP  
**Well:** 1803DS  
**Wellpath:** 1 V0 Plan: Plan #1 1803DS V1

**Inter-Site Error:** 0.00 ft

Reference		Offset		Semi-Major Axis			Offset Location		Ctr-Ctr Distance	Edge Distance	Separation Factor	Warning
MD	TVD	MD	TVD	Ref	Offset	TFO-HS	North	East				
ft	ft	ft	ft	ft	ft	deg	ft	ft	ft	ft		
8700.00	8523.90	8770.72	8523.90	20.98	24.81	189.95	-1237.60	622.40	305.60	272.74	9.30	
8800.00	8623.90	8870.72	8623.90	21.00	24.81	189.95	-1237.60	622.40	305.60	272.70	9.29	
8900.00	8723.90	8970.72	8723.90	21.03	24.82	189.95	-1237.60	622.40	305.60	272.65	9.28	
9000.00	8823.90	9070.72	8823.90	21.05	24.84	189.95	-1237.60	622.40	305.60	272.60	9.26	
9100.00	8923.90	9170.72	8923.90	21.08	24.85	189.95	-1237.60	622.40	305.60	272.54	9.25	
9200.00	9023.90	9270.72	9023.90	21.11	24.86	189.95	-1237.60	622.40	305.60	272.48	9.23	
9300.00	9123.90	9370.72	9123.90	21.14	24.88	189.95	-1237.60	622.40	305.60	272.41	9.21	
9400.00	9223.90	9470.72	9223.90	21.17	24.90	189.95	-1237.60	622.40	305.60	272.34	9.19	
9500.00	9323.90	9570.72	9323.90	21.21	24.92	189.95	-1237.60	622.40	305.60	272.26	9.17	
9600.00	9423.90	9670.72	9423.90	21.25	24.94	189.95	-1237.60	622.40	305.60	272.18	9.14	
9700.00	9523.90	9770.72	9523.90	21.29	24.97	189.95	-1237.60	622.40	305.60	272.09	9.12	
9800.00	9623.90	9870.72	9623.90	21.33	24.99	189.95	-1237.60	622.40	305.60	271.99	9.09	
9846.10	9670.00	9896.82	9650.00	21.35	25.00	189.95	-1237.60	622.40	306.25	272.61	9.10	

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

*Please see the Natural Buttes SOP.*

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 (*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.

Culverts will be installed where needed.

A run off diversion for drainage will be constructed where needed.

The reserve pit will be lined. When the reserve pit is closed the pit liner will be buried below plow depth.

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.*

**11. Surface 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

**12. Other Information:**

A Class III Archaeological Survey Report has been conducted for this location and submitted to the Ute Indian Tribe prior to the on-site inspection.

**NBU 922-1803AS  
NW/SE SEC. 18, T9S, R22E  
UINTAH COUNTY, UTAH  
UTU-0461**

**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:**

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

Approximately 0.25 +/- miles of access road is proposed. Please refer to the attached Topo Map B.

**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.*

Approximately 1633' +/- of 8" steel pipeline is proposed from the location to an existing pipeline. Refer to the attached Topo Map D.

Approximately 672' +/- of 4" steel pipeline needs to be re-routed around the location. Refer to the attached Topo Map D.

Approximately 636' +/- of 4" steel pipeline needs to be re-route around the location. Refer to the attached Topo Map D.

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

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

*Please see the Natural Buttes SOP.*

**6. Source of Construction Materials:**

*Please see the Natural Buttes SOP.*

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

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

Sheila Uphego  
Senior Land Admin Specialist  
Kerr-McGee Oil & Gas Onshore LP  
1368 South 1200 East  
Vernal, UT 84078  
(435) 781-7024

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

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

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

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

Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by Bureau of Indian Affairs Nationwide Bond #RLB0005239, Bureau of Land Management Nationwide Bond #WYB000291 and State of Utah Bond #RLB0005237.

I hereby certify that I, or persons under my supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions that currently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed by the Operator, its contractors, and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

  
Sheila Uphego

11/2/2007  
Date

**Kerr-McGee Oil & Gas Onshore LP**  
**NBU #922-18J3S, J1S, 13S, P2S, O1BS, P3S, O1CS,**  
**O3AS, O3DS, N2S, N2AS, N2CS**  
**SECTION 18, T9S, R22E, S.L.B.&M.**

PROCEED IN A WESTERLY DIRECTION FROM VERNAL, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 14.0 MILES TO THE JUNCTION OF STATE HIGHWAY 88; EXIT LEFT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 17.0 MILES TO OURAY, UTAH; PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 0.3 MILES ON THE SEEP RIDGE ROAD TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE EAST; TURN LEFT AND PROCEED IN AN EASTERLY DIRECTION APPROXIMATELY 12.3 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTH; TURN RIGHT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 1.7 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHWEST; PROCEED IN A SOUTHWESTERLY DIRECTION APPROXIMATELY 1.8 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHWEST; TURN RIGHT AND PROCEED IN A NORTHWESTERLY DIRECTION APPROXIMATELY 0.25 MILES TO THE BEGINNING OF THE PROPOSED ACCESS TO THE NORTHEAST; FOLLOW ROAD FLAGS IN A NORTHEASTERLY DIRECTION APPROXIMATELY 0.25 MILES TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 47.6 MILES.

orig.

# Kerr-McGee Oil & Gas Onshore LP

NBU #922-18J3S, J1S, I3S, P2S, O1BS, P3S, O1CS, O3AS, O3DS, N2S, N2AS, N2CS

LOCATED IN UINTAH COUNTY, UTAH  
SECTION 18, T9S, R22E, S.L.B.&M.

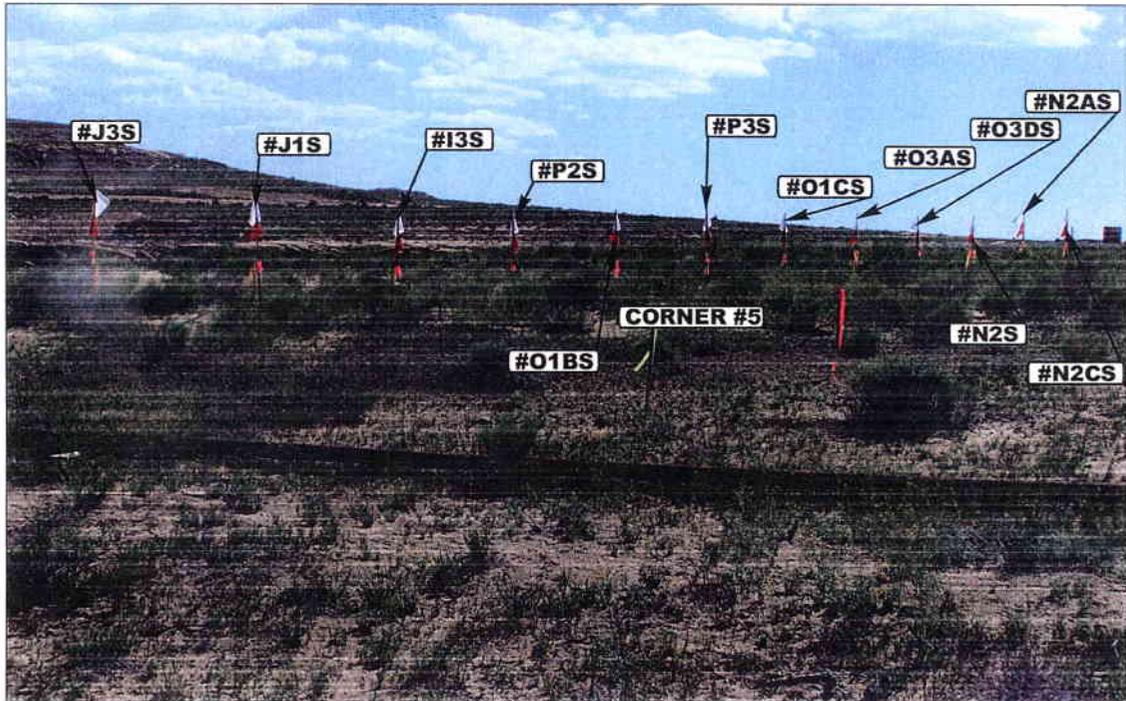


PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKES

CAMERA ANGLE: SOUTHEASTERLY



PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

CAMERA ANGLE: NORTHEASTERLY



**U  
E  
L** Uintah Engineering & Land Surveying  
 85 South 200 East Vernal, Utah 84078  
 435-789-1017 uels@uelsinc.com

LOCATION PHOTOS

05	16	07
MONTH	DAY	YEAR

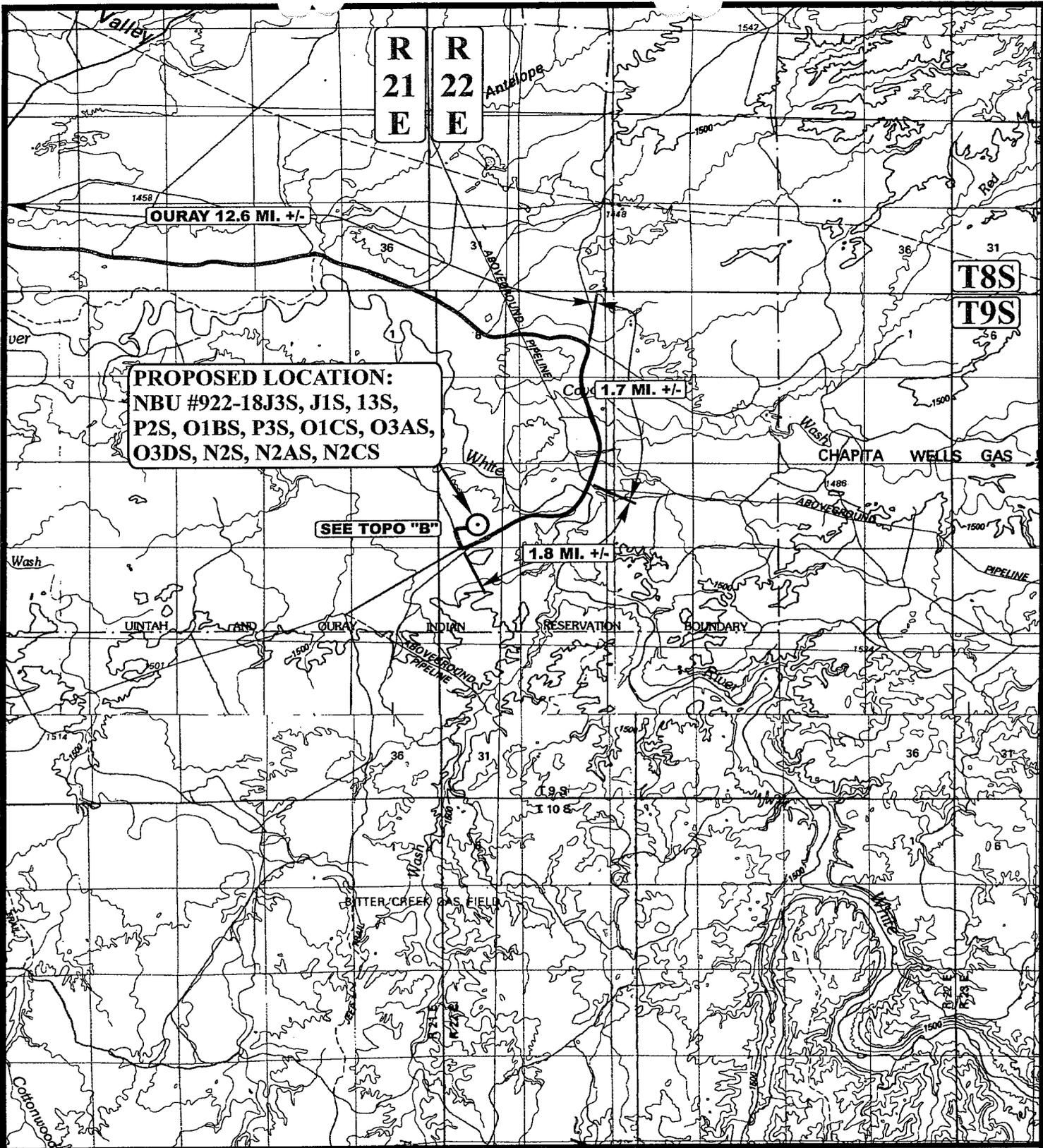
PHOTO

TAKEN BY: L.K.

DRAWN BY: C.P.

REVISED: 00-00-00

- Since 1964 -



**PROPOSED LOCATION:**  
 NBU #922-18J3S, J1S, 13S,  
 P2S, O1BS, P3S, O1CS, O3AS,  
 O3DS, N2S, N2AS, N2CS

SEE TOPO "B"

**LEGEND:**

⊙ PROPOSED LOCATION



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

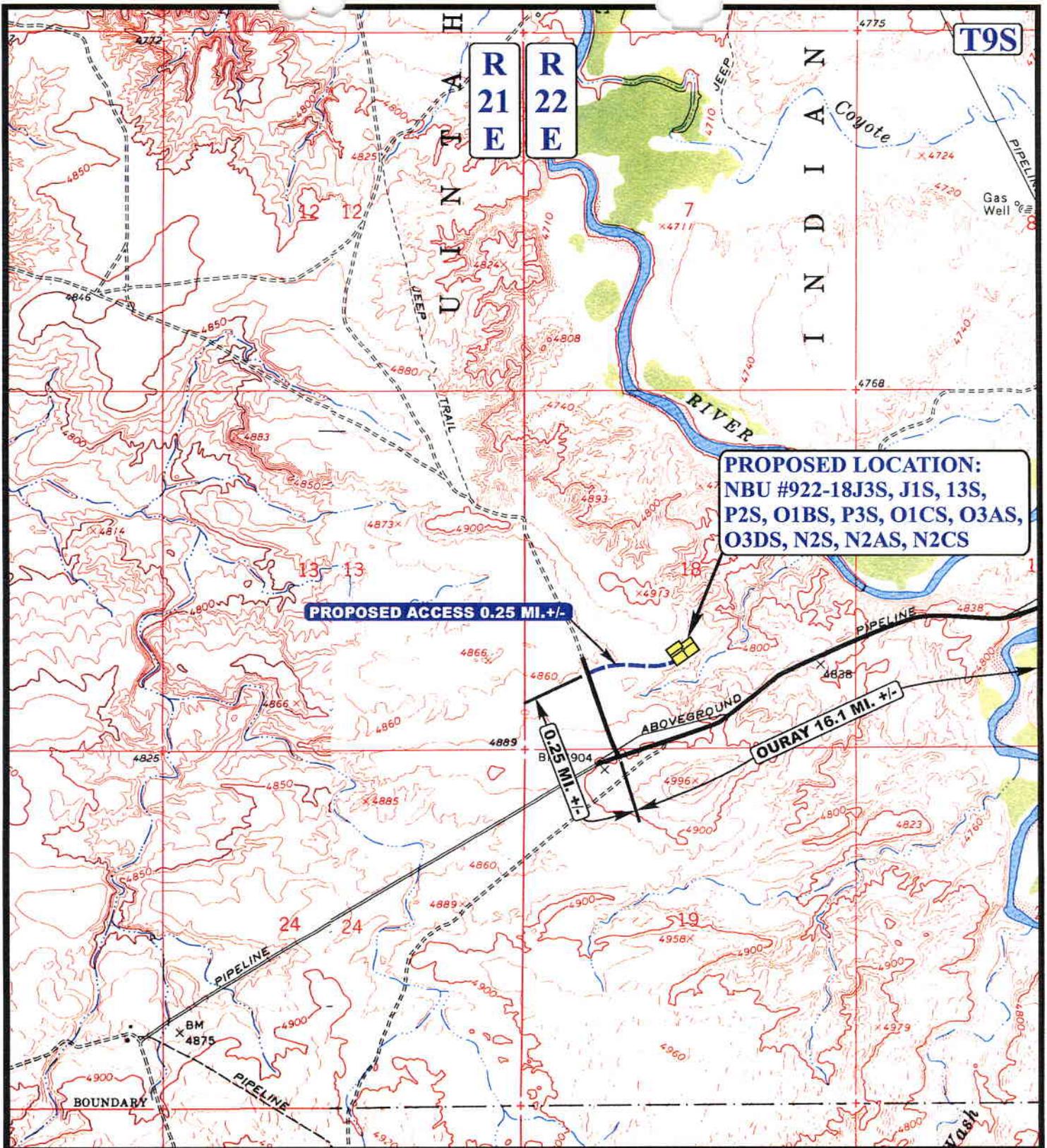
NBU #922-18J3S, J1S, 13S, P2S, O1BS, P3S, O1CS,  
 O3AS, O3DS, N2S, N2AS, N2CS  
 SECTION 18, T9S, R22E, S.L.B.&M.  
 S 1/2



**Utah Engineering & Land Surveying**  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813

**TOPOGRAPHIC MAP**  
 05 16 07  
 MONTH DAY YEAR  
 SCALE: 1:100,000 DRAWN BY: C.P. REVISED: 00-00-00





**LEGEND:**

- EXISTING ROAD
- PROPOSED ACCESS ROAD

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

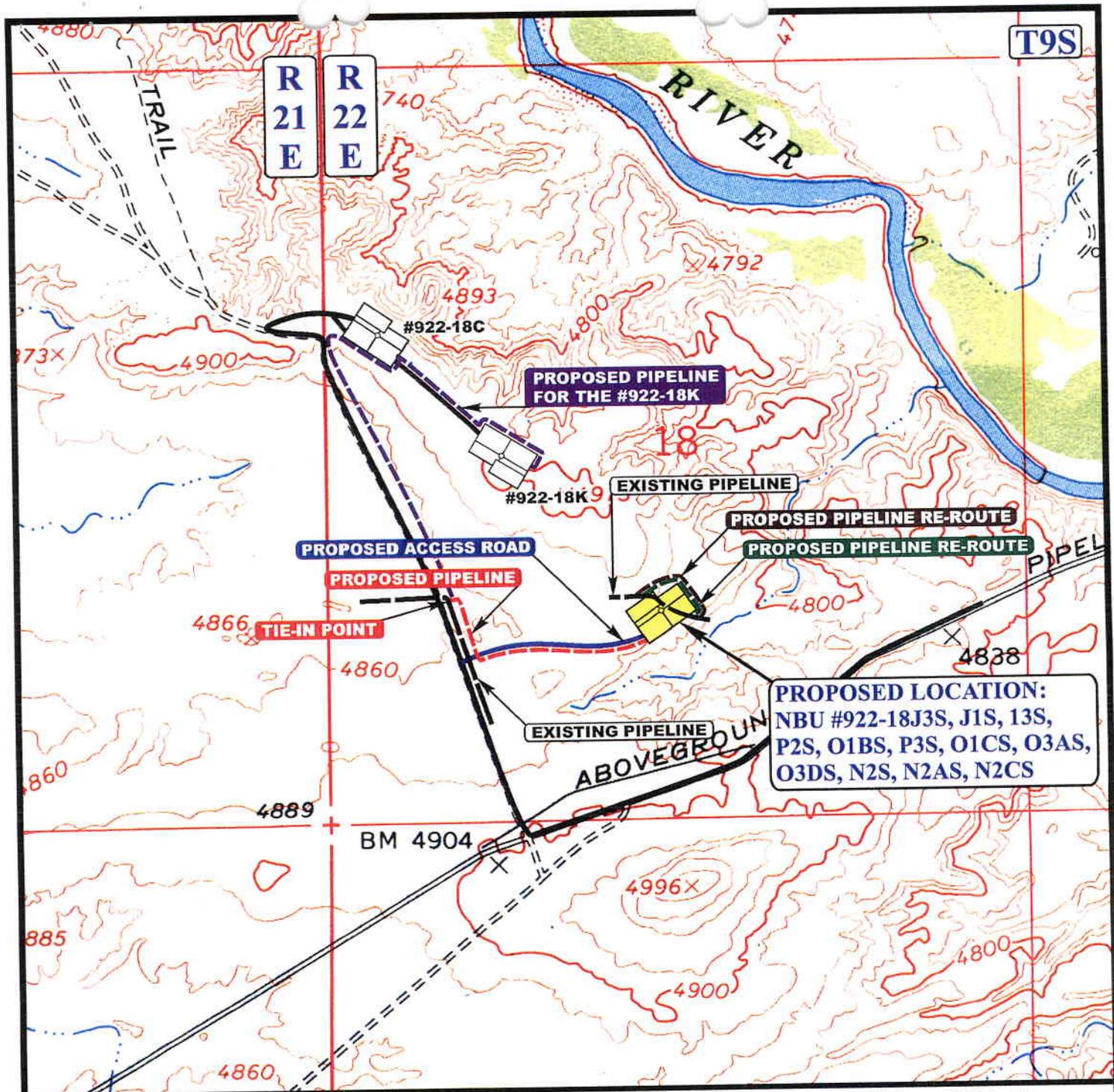
NBU #922-18J3S, J1S, 13S, P2S, O1BS, P3S, O1CS,  
 O3AS, O3DS, N2S, N2AS, N2CS  
 SECTION 18, T9S, R22E, S.L.B.&M.  
 S 1/2

**UEIS** Uintah Engineering & Land Surveying  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813

**TOPOGRAPHIC MAP** 05 16 07  
 MONTH DAY YEAR  
 SCALE: 1" = 2000' DRAWN BY: C.P. REVISED: 00-00-00







APPROXIMATE TOTAL PIPELINE RE-ROUTE DISTANCE = 672' +/-

APPROXIMATE TOTAL PIPELINE RE-ROUTE DISTANCE = 636' +/-

APPROXIMATE TOTAL PIPELINE DISTANCE = 1,633' +/-

**LEGEND:**

- PROPOSED ACCESS ROAD
- EXISTING PIPELINE
- PROPOSED PIPELINE
- PROPOSED PIPELINE RE-ROUTE



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

NBU #922-18J3S, J1S, 13S, P2S, O1BS, P3S, O1CS,  
O3AS, O3DS, N2S, N2AS, N2CS  
SECTION 18, T9S, R22E, S.L.B.&M.  
S 1/2



**Uintah Engineering & Land Surveying**  
85 South 200 East Vernal, Utah 84078  
(435) 789-1017 \* FAX (435) 789-1813

**TOPOGRAPHIC** 05 16 07  
**MAP** MONTH DAY YEAR

SCALE: 1" = 1000' DRAWN BY: C.P. REVISED: 10-25-07



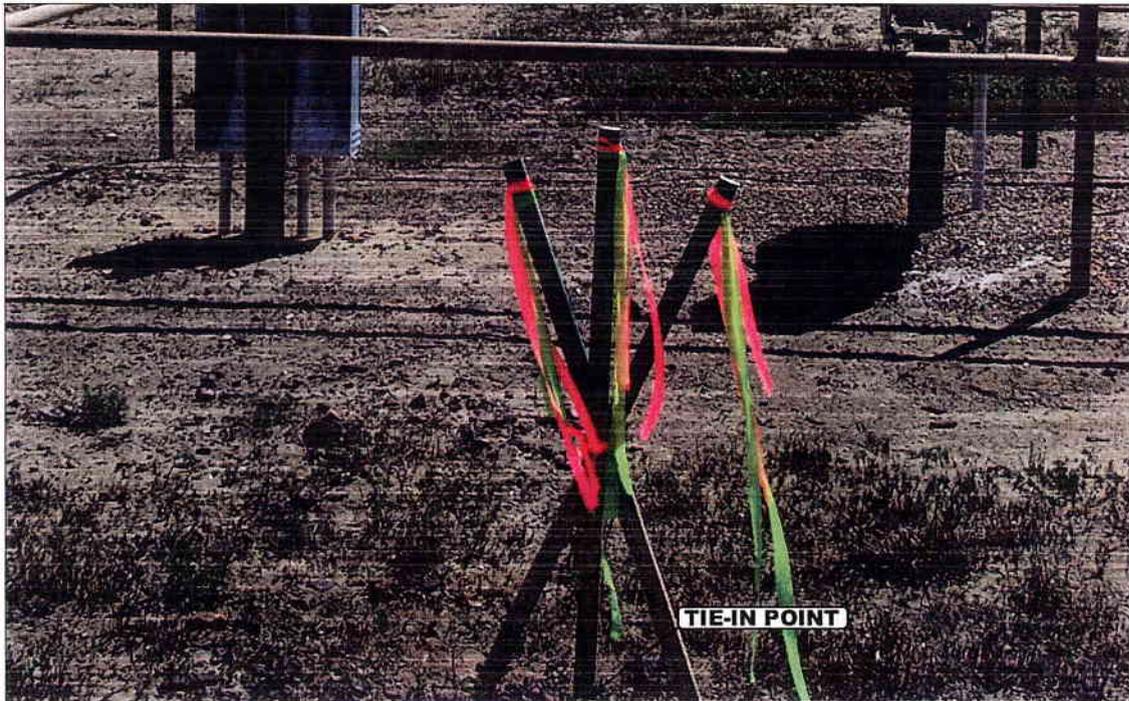
# Kerr-McGee Oil & Gas Onshore LP

NBU #922-18J3S, J1S, I3S, P2S, O1BS, P3S, O1CS, O3AS, O3DS, N2S, N2AS, N2CS

PIPELINE ALIGNMENT

LOCATED IN UINTAH COUNTY, UTAH

SECTION 18, T9S, R22E, S.L.B.&M.



TIE-IN POINT

PHOTO: VIEW FROM TIE-IN POINT

CAMERA ANGLE: EASTERLY

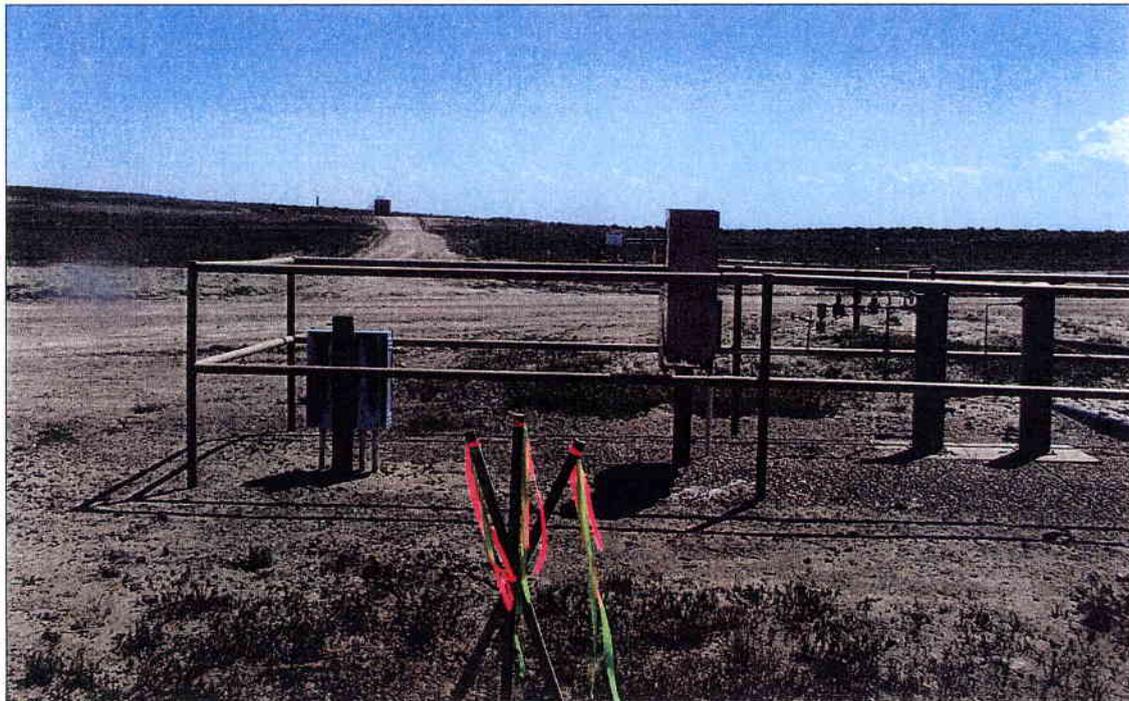


PHOTO: VIEW OF PIPELINE ALIGNMENT

CAMERA ANGLE: EASTERLY



U  
E  
L  
S Uintah Engineering & Land Surveying

85 South 200 East Vernal, Utah 84078  
435-789-1017 uels@uelsinc.com

- Since 1964 -

PIPELINE PHOTOS

05 16 07  
MONTH DAY YEAR

PHOTO

TAKEN BY: L.K.

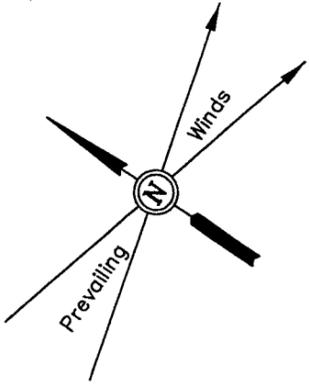
DRAWN BY: C.P.

REVISED: 00-00-00

Kerr-McGee Oil & Gas Onshore LP

LOCATION LAYOUT FOR

NBU #922-18J3S, J1S, I3S, P2S, O1BS, P3S, O1CS  
 O3AS, O3DS, N2S, N2AS, N2CS  
 SECTION 18, T9S, R22E, S.L.B.&M.  
 S 1/2



SCALE: 1" = 50'  
 DATE: 05-16-07  
 Drawn By: C.H.  
 REV: 08-09-07

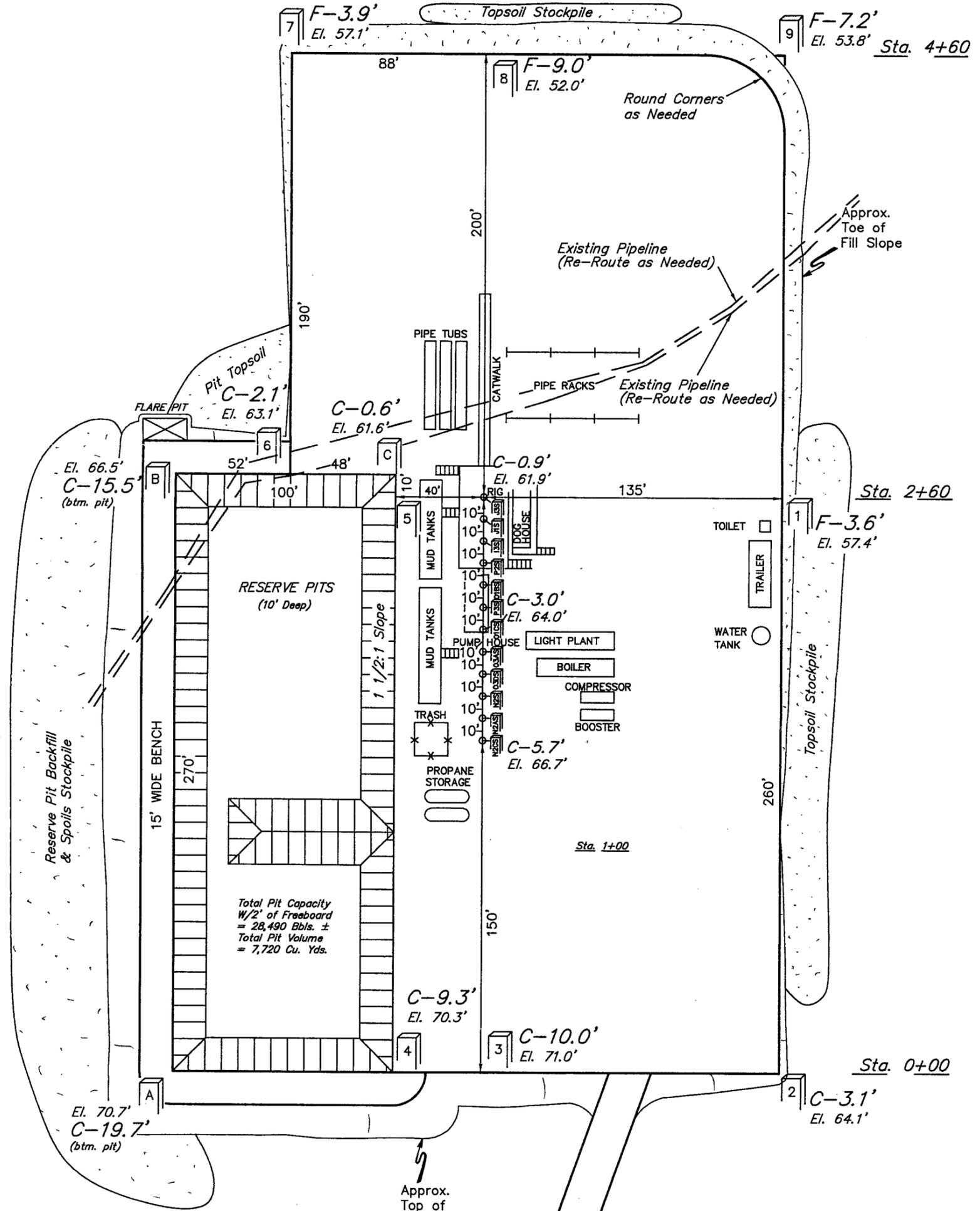


FIGURE #1

Elev. Ungraded Ground at #18J3S Location Stake = 4861.9'  
 Elev. Graded Ground at #18J3S Location Stake = 4861.0'

Kerr-McGee Oil & Gas Onshore LP

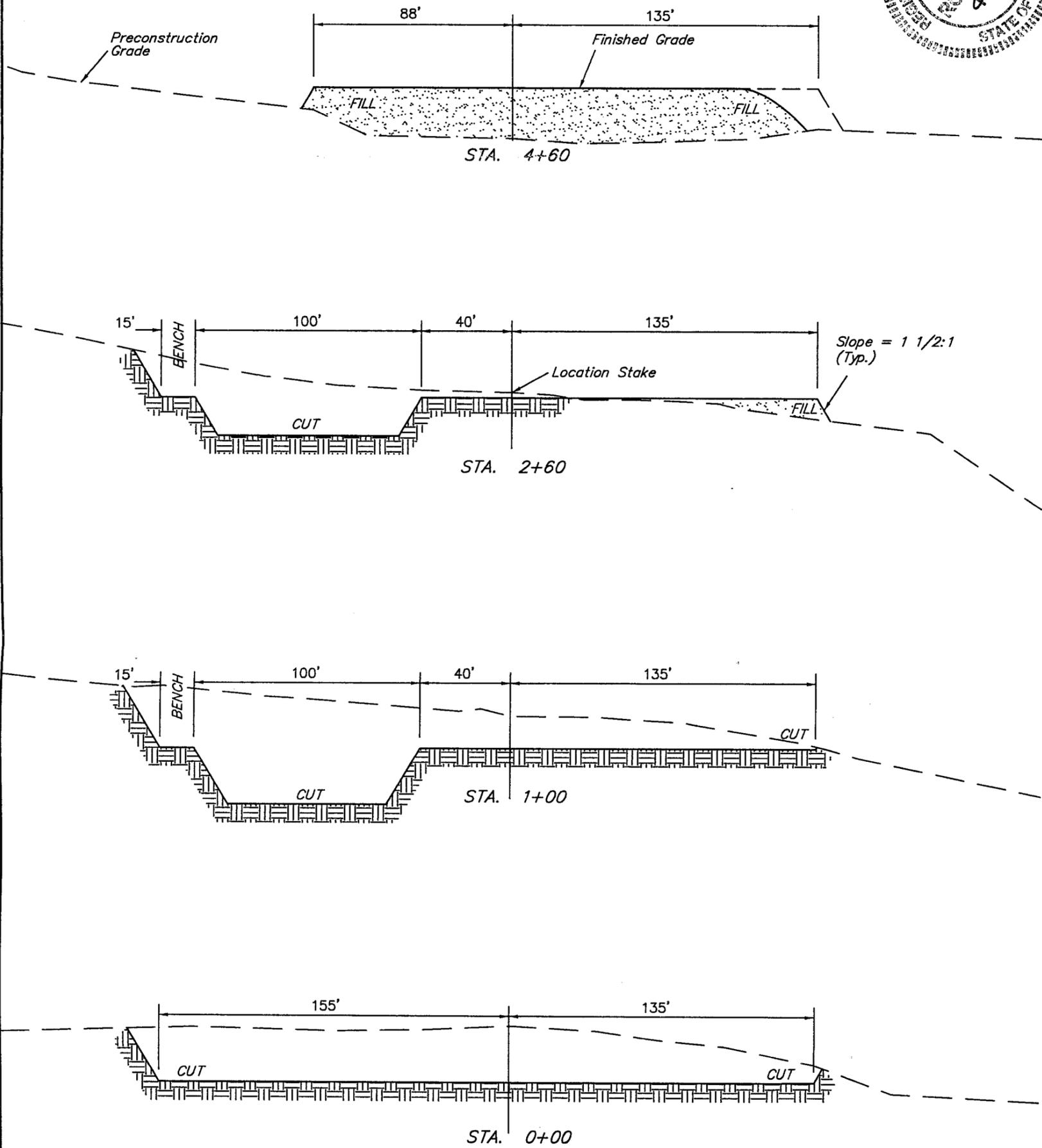
TYPICAL CROSS SECTIONS FOR

NBU #922-18J3S, J1S, I3S, P2S, O1BS, P3S, O1CS  
 O3AS, O3DS, N2S, N2AS, N2CS  
 SECTION 18, T9S, R22E, S.L.B.&M.  
 S 1/2

FIGURE #2

1" = 20'  
 X-Section  
 Scale  
 1" = 50'

DATE: 05-16-07  
 Drawn By: C.H.  
 REV: 08-09-07



NOTE:

Topsoil should not be Stripped Below Finished Grade on Substructure Area.

\* NOTE:  
 FILL QUANTITY INCLUDES 5% FOR COMPACTION

APPROXIMATE YARDAGES

CUT	
(12") Topsoil Stripping	= 5,320 Cu. Yds.
Remaining Location	= 22,710 Cu. Yds.
<b>TOTAL CUT</b>	<b>= 28,030 CU.YDS.</b>
<b>FILL</b>	<b>= 12,740 CU.YDS.</b>

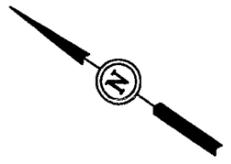
EXCESS MATERIAL	= 15,290 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	= 9,180 Cu. Yds.
EXCESS UNBALANCE (After Interim Rehabilitation)	= 6,110 Cu. Yds.

Kerr-McGee Oil & Gas Onshore LP

LOCATION LAYOUT FOR

NBU #922-18J3S, J1S, I3S, P2S, O1BS, P3S, O1CS  
O3AS, O3DS, N2S, N2AS, N2CS  
SECTION 18, T9S, R22E, S.L.B.&M.

S 1/2



SCALE: 1" = 50'  
DATE: 05-16-07  
Drawn By: C.H.  
REV: 08-09-07

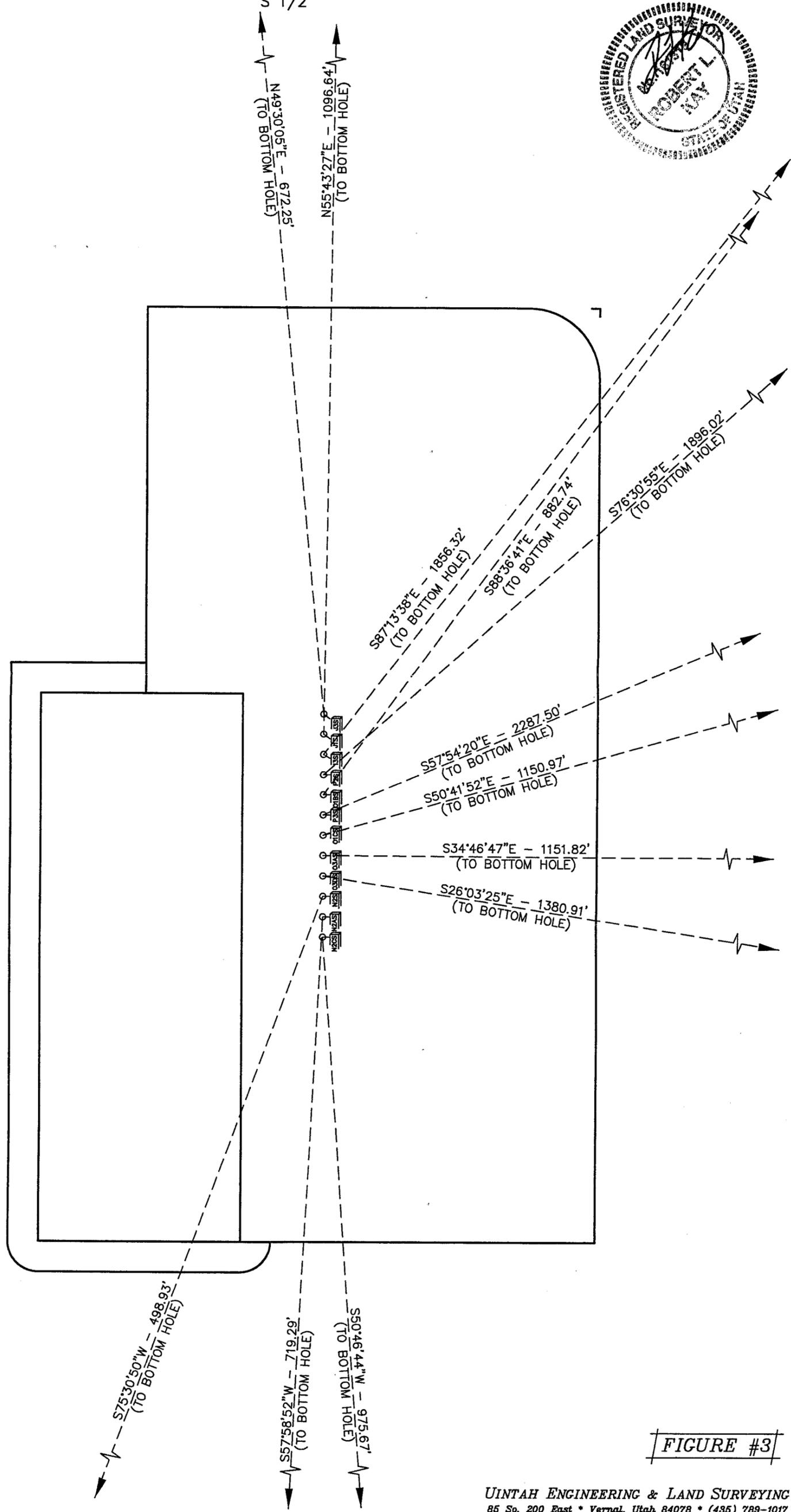


FIGURE #3

**WORKSHEET  
APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 11/20/2007

API NO. ASSIGNED: 43-047-39833

WELL NAME: NBU 922-1803AS

OPERATOR: KERR-MCGEE OIL & GAS ( N2995 )

CONTACT: SHEILA UPCHEGO

PHONE NUMBER: 435-781-7024

PROPOSED LOCATION:

NWSE 18 090S 220E

SURFACE: 1413 FSL 2621 FEL

BOTTOM: 0465 FSL 1965 FEL

COUNTY: UINTAH

LATITUDE: 40.03262 LONGITUDE: -109.4820

UTM SURF EASTINGS: 629524 NORTHINGS: 4432272

FIELD NAME: NATURAL BUTTES ( 630 )

*SUSE*

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

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU-0461

SURFACE OWNER: 2 - Indian

PROPOSED FORMATION: WSMVD

COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

- Plat
- Bond: Fed[1] Ind[] Sta[] Fee[]  
(No. RLB0005239 )
- 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:

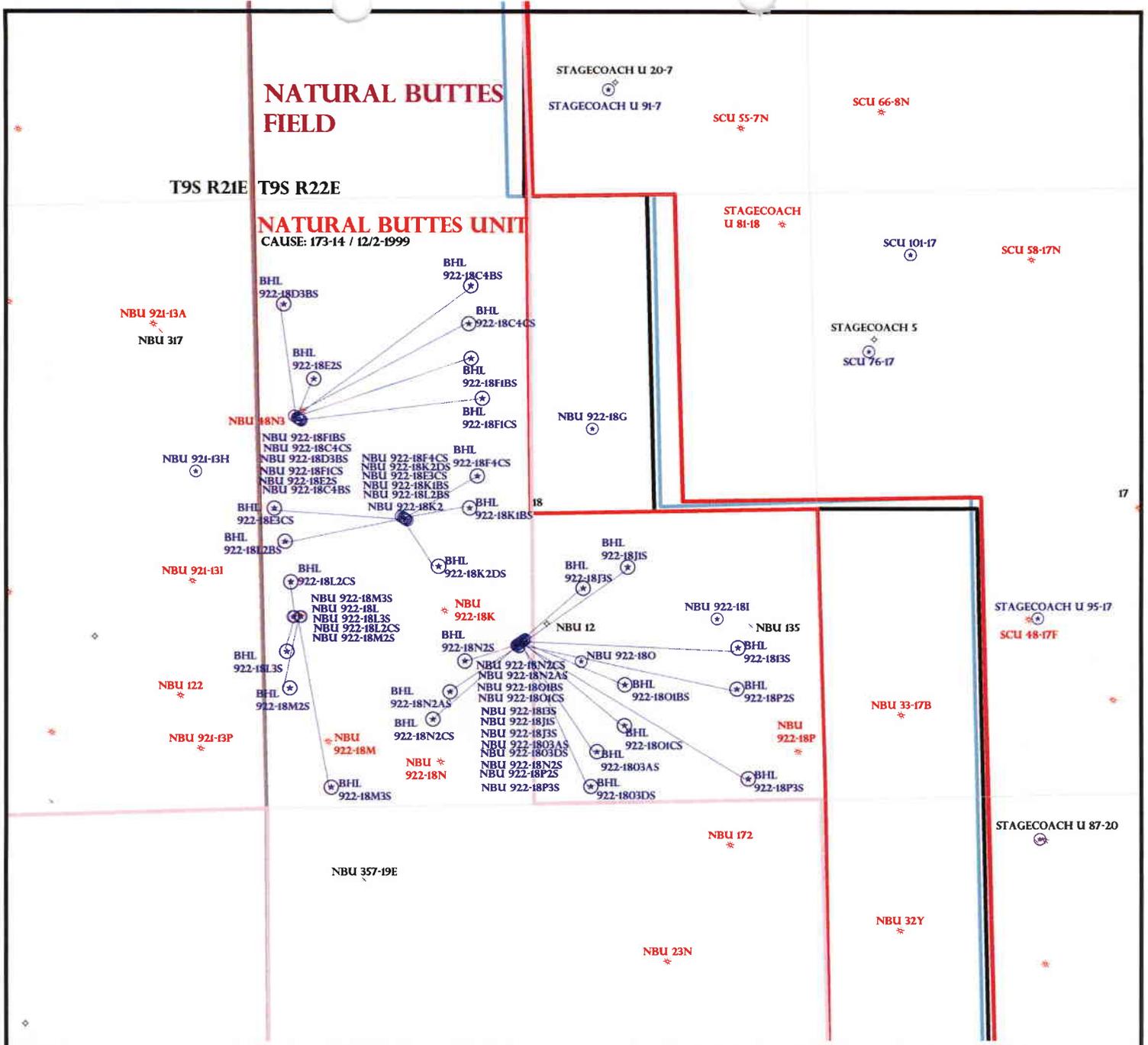
- R649-2-3.
- Unit: NATURAL BUTTES
- R649-3-2. General  
Siting: 460 From Qtr/Qtr & 920' Between Wells
- R649-3-3. Exception
- Drilling Unit  
Board Cause No: 173.14  
Eff Date: 12-2-1999  
Siting: 400' to U. boundary of unknown Tracts
- R649-3-11. Directional Drill

COMMENTS:

*See Separate file*

STIPULATIONS:

*1- Federal Approval  
2- Oil Shale*



OPERATOR: KERR MCGEE O&G (N2995)  
 SEC: 18 T.9S R. 22E  
 FIELD: NATURAL BUTTES (630)  
 COUNTY: UINTAH  
 CAUSE: 173-14 / 12/2-1999

**Field Status**

ABANDONED
ACTIVE
COMBINED
INACTIVE
PROPOSED
STORAGE
TERMINATED

**Unit Status**

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

**Wells Status**

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



PREPARED BY: DIANA MASON  
 DATE: 29-NOVEMBER-2007

# 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)

November 30, 2007

Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2007 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 2007 within the Natural Buttes Unit, Uintah County, Utah.

API #	WELL NAME	LOCATION
(Proposed PZ Wasatch/MesaVerde)		
43-047-39821	NBU 922-18F4CS	Sec 18 T09S R22E 2529 FSL 1248 FWL
	BHL	Sec 18 T09S R22E 2406 FNL 1895 FWL
43-047-39822	NBU 922-18K2DS	Sec 18 T09S R22E 2508 FSL 1282 FWL
	BHL	Sec 18 T09S R22E 2099 FSL 1548 FWL
43-047-39823	NBU 922-18E3CS	Sec 18 T09S R22E 2540 FSL 1231 FWL
	BHL	Sec 18 T09S R22E 2632 FSL 0136 FWL
43-047-39824	NBU 922-18K1BS	Sec 18 T09S R22E 2524 FSL 1256 FWL
	BHL	Sec 18 T09S R22E 2602 FSL 1821 FWL
43-047-39825	NBU 922-18M3S	Sec 18 T09S R22E 1688 FSL 0334 FWL
	BHL	Sec 18 T09S R22E 0203 FSL 0571 FWL
43-047-39826	NBU 922-18L3S	Sec 18 T09S R22E 1689 FSL 0274 FWL
	BHL	Sec 18 T09S R22E 1390 FSL 0214 FWL
43-047-39827	NBU 922-18L2CS	Sec 18 T09S R22E 1687 FSL 0344 FWL
	BHL	Sec 18 T09S R22E 1994 FSL 0262 FWL

43-047-39828	NBU	922-18M2S	Sec 18	T09S	R22E	1689	FSL	0284	FWL
		BHL	Sec 18	T09S	R22E	1075	FSL	0232	FWL
43-047-39829	NBU	922-18P3S	Sec 18	T09S	R22E	1424	FSL	2605	FEL
		BHL	Sec 18	T09S	R22E	0203	FSL	0668	FEL
43-047-39830	NBU	922-18P2S	Sec 18	T09S	R22E	1436	FSL	2588	FEL
		BHL	Sec 18	T09S	R22E	0988	FSL	0745	FEL
43-047-39831	NBU	922-18N2S	Sec 18	T09S	R22E	1402	FSL	2637	FEL
		BHL	Sec 18	T09S	R22E	1278	FSL	1753	FWL
43-047-39832	NBU	922-18O3DS	Sec 18	T09S	R22E	1407	FSL	2629	FEL
		BHL	Sec 18	T09S	R22E	0165	FSL	2024	FEL
43-047-39833	NBU	922-18O3AS	Sec 18	T09S	R22E	1413	FSL	2621	FEL
		BHL	Sec 18	T09S	R22E	0465	FSL	1965	FEL
43-047-39834	NBU	922-18O1CS	Sec 18	T09S	R22E	1419	FSL	2613	FEL
		BHL	Sec 18	T09S	R22E	0687	FSL	1723	FEL
43-047-39835	NBU	922-18O1BS	Sec 18	T09S	R22E	1430	FSL	2596	FEL
		BHL	Sec 18	T09S	R22E	1046	FSL	1714	FEL
43-047-39836	NBU	922-18C4BS	Sec 18	T09S	R22E	1875	FNL	0362	FWL
		BHL	Sec 18	T09S	R22E	0745	FNL	1878	FWL
43-047-39837	NBU	922-18E2S	Sec 18	T09S	R22E	1870	FNL	0354	FWL
		BHL	Sec 18	T09S	R22E	1529	FNL	0503	FWL
43-047-39838	NBU	922-18F1CS	Sec 18	T09S	R22E	1892	FNL	0387	FWL
		BHL	Sec 18	T09S	R22E	1724	FNL	1956	FWL
43-047-39839	NBU	922-18N2AS	Sec 18	T09S	R22E	1396	FSL	2228	FWL
		BHL	Sec 18	T09S	R22E	1016	FSL	1617	FWL
43-047-39840	NBU	922-18L2BS	Sec 18	T09S	R22E	2513	FSL	1273	FWL
		BHL	Sec 18	T09S	R22E	2344	FSL	0223	FWL
43-047-39841	NBU	922-18D3BS	Sec 18	T09S	R22E	1853	FNL	0329	FWL
		BHL	Sec 18	T09S	R22E	0877	FNL	0256	FWL
43-047-39842	NBU	922-18J3S	Sec 18	T09S	R22E	1453	FSL	2564	FEL
		BHL	Sec 18	T09S	R22E	1888	FSL	2052	FEL
43-047-39843	NBU	922-18J1S	Sec 18	T09S	R22E	1447	FSL	2572	FEL
		BHL	Sec 18	T09S	R22E	2062	FSL	1665	FEL

43-047-39844 NBU 922-18I3S Sec 18 T09S R022E 1442 FSL 2580 FEL  
BHL Sec 18 T09S R022E 1346 FSL 0726 FEL

43-047-39845 NBU 922-18C4CS Sec 18 T09S R22E 1881 FNL 0370 FWL  
BHL Sec 18 T09S R22E 1075 FNL 1849 FWL

43-047-39846 NBU 922-18F1BS Sec 18 T09S R22E 1886 FNL 0379 FWL  
BHL Sec 18 T09S R22E 1375 FNL 1868 FWL

43-047-39847 NBU 922-18N2CS Sec 18 T09S R22E 1390 FSL 2220 FWL  
BHL Sec 18 T09S R22E 0775 FSL 1462 FWL

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

/s/ Michael L. Coulthard

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

MCoulthard:mc:11-30-07



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

December 3, 2007

Kerr McKee Oil and Gas Onshore LP  
1368 South 1200 East  
Vernal, UT 84078

Re: NBU 922-1803AS Well, Surface Location 1413' FSL, 2621' FEL, NW SE, Sec. 18,  
T. 9 South, R. 22 East, Bottom Location 465' FSL, 1965' FEL, SW SE, Sec. 18,  
T. 9 South, R. 22 East, Uintah County, Utah

Gentlemen:

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

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-047-39833.

Sincerely,

Gil Hunt  
Associate Director

pab  
Enclosures

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



Operator: Kerr McKee Oil and Gas Onshore LP  
Well Name & Number NBU 922-18O3AS  
API Number: 43-047-39833  
Lease: UTU-0461

Surface Location: NW SE      Sec. 18      T. 9 South      R. 22 East  
Bottom Location: SW SE      Sec. 18      T. 9 South      R. 22 East

### Conditions of Approval

#### 1. General

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

#### 2. Notification Requirements

Notify the Division with 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 Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.
6. In accordance with Order in Cause No. 190-5(b) dated October 28, 1982, the Operator shall comply with requirements of Rules R649-3-31 and R649-3-27 pertaining to Designated Oil Shale Areas. Additionally, the operator shall ensure that the surface and/or production casing is properly cemented over the entire oil shale interval as defined by Rule R649-3-31. The Operator shall report the actual depth the oil shale is encountered to the Division.

RECEIVED  
VERNAL FIELD OFFICE  
2007 NOV 5 PM 12:36

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

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. <b>UTU-0461</b>	
b. 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 <b>TRIBAL SURFACE</b>	
2. Name of Operator <b>KERR MCGEE OIL AND GAS ONSHORE LP</b>		7. If Unit or CA Agreement, Name and No. <b>UNIT #891008900A</b>	
3A. Address <b>1368 SOUTH 1200 EAST VERNAL, UT 84078</b>		8. Lease Name and Well No. <b>NBU 922-1803AS</b>	
3b. Phone No. (include area code) <b>(435) 781-7024</b>		9. API Well No. <b>43 047 39833</b>	
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface <b>NW/SE 1413'FSL, 2621'FEL</b> At proposed prod. Zone <b>SW/SE 465'FSL, 1965'FEL</b>		10. Field and Pool, or Exploratory <b>NATURAL BUTTES</b>	
14. Distance in miles and direction from nearest town or post office* <b>16.6 +/- MILES FROM OURAY, UTAH</b>		11. Sec., T., R., M., or Blk, and Survey or Area <b>SEC. 18, T9S, R22E</b>	
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) <b>1442'</b>	16. No. of Acres in lease <b>601.96</b>	17. Spacing Unit dedicated to this well <b>40.00</b>	
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. <b>REFER TO TOPO C</b>	19. Proposed Depth <b>9846'</b>	20. BLM/BIA Bond No. on file <b>RLB0005239</b>	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) <b>4861'GL</b>	22. Approximate date work will start* <b>UPON APPROVAL</b>	23. Estimated duration <b>TO BE DETERMINED</b>	

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 an 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 office. |

25. Signature 	Name (Printed/Typed) <b>SHEILA UPCHEGO</b>	Date <b>11/16/2007</b>
Title <b>SENIOR LAND ADMIN SPECIALIST</b>		
Approved by (Signature) 	Name (Printed/Typed) <b>MATT BAKER</b>	Date <b>FEB 22 2008</b>
Title <b>ACTING Lands &amp; Mineral Resources</b>	Office <b>VERNAL FIELD OFFICE</b>	

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

Conditions of approval, if any, are attached.

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

\*(Instructions on reverse)

NOTICE OF APPROVAL

CONDITIONS OF APPROVAL ATTACHED

RECEIVED

FEB 26 2008

DIV. OF OIL, GAS & MINING

No NOS  
OSMIC 0076A



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

170 South 500 East      VERNAL, UT 84078      (435) 781-4400



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

**Company:** Kerr-McGee Oil & Gas Onshore, LP      **Location:** NWSE, Sec. 18, T9S, R22E  
**Well No:** NBU 922-1803AS      **Lease No:** UTU-0461  
**API No:** 43-047-39833      **Agreement:** Natural Buttes Unit

Title	Name	Office Phone Number	Cell Phone Number
Petroleum Engineer:	Matt Baker	(435) 781-4490	(435) 828-4470
Petroleum Engineer:	Michael Lee	(435) 781-4432	(435) 828-7875
Petroleum Engineer:	James Ashley	(435) 781-4470	(435) 828-7874
Petroleum Engineer:	Ryan Angus	(435) 781-4430	(435) 828-7368
Supervisory Petroleum Technician:	Jamie Sparger	(435) 781-4502	(435) 828-3913
NRS/Enviro Scientist:	Karl Wright	(435) 781-4484	(435) 828-7381
NRS/Enviro Scientist:	Holly Villa	(435) 781-4404	
NRS/Enviro Scientist:		(435) 781-4476	
NRS/Enviro Scientist:	Chuck Macdonald	(435) 781-4441	(435) 828-7481
NRS/Enviro Scientist:	Michael Cutler	(435) 781-3401	(435) 828-3546
NRS/Enviro Scientist:	Anna Figueroa	(435) 781-3407	(435) 828-3548
NRS/Enviro Scientist:	Verlyn Pindell	(435) 781-3402	(435) 828-3547
NRS/Enviro Scientist:	Darren Williams	(435) 781-4447	
NRS/Enviro Scientist:	Nathan Packer	(435) 781-3405	(435) 828-3545

**Fax: (435) 781-3420**

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

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

**NOTIFICATION REQUIREMENTS**

Construction Activity	The Ute Tribe Energy & Minerals Dept. shall be notified in writing 48 hours in advance of any construction activity. The Ute Tribal office is open Monday through Thursday.
Construction Completion	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.
Spud Notice (Notify Petroleum Engineer)	Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify Supv. Petroleum Tech.)	Twenty-Four (24) hours prior to running casing and cementing all casing strings.
BOP & Related Equipment Tests (Notify Supv. Petroleum Tech.)-	Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify Petroleum Engineer)	Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

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

**General Surface COAs**

- If there is an active Gilsonite mining operation within 2 miles of the well location, operator shall notify the Gilsonite operator at least 48 hours prior to any blasting during construction.
- If paleontological materials are uncovered during construction, the operator is to immediately stop work and contact the Authorized Officer AO. A report will be prepared by a BLM permitted paleontologist and submitted to the AO at the completion of surface disturbing activities.

**Specific Surface COAs**

- Re-route 24 Inch pipeline on location.
- 8 Inch pipeline.
- A 30' foot corridor right-of-way shall be approved. Upon completion of each pipeline in corridor, they shall be identified and filed with the Ute Tribe.
- A qualified Archaeologist accompanied by a Tribal Technician will monitor trenching construction of pipeline.
- The Ute Tribe Energy & Minerals Department is to be notified, in writing 48 hours prior to construction of pipeline.
- Construction Notice shall be given to the department on the Ute Tribe workdays, which are Monday through Thursday. The Company understands that they may be responsible for costs incurred by the Ute Tribe after hours.
- The Company shall inform contractors to maintain construction of pipelines within the approved ROWs.
- The Company shall assure the Ute Tribe that "ALL CONTRACTORS, INCLUDING SUB-CONTRACTORS, LEASING CONTRACTORS, AND ETC." have acquired a current and valid Ute Tribal Business License and have "Access Permits" prior to construction, and will have these permits in all vehicles at all times.
- You are hereby notified that working under the "umbrella" of a company does not allow you to be in the field, and can be subject to those fines of the Ute Tribe Severance Tax Ordinance.
- Any deviation of submitted APDs and ROW applications the Companies will notify the Ute Tribe and BIA in writing and will receive written authorization of any such change with appropriate authorization.
- The Company will implement "Safety and Emergency Plan." The Company's safety director will ensure its compliance.

- All Company employees and/or authorized personnel (sub-contractors) in the field will have approved applicable APDs and/or ROW permits/authorizations on their person(s) during all phases of construction.
- All vehicular traffic, personnel movement, construction/restoration operations should be confined to the area examined and approved, and to the existing roadways and/or evaluated access routes.
- All personnel should refrain from collecting artifacts, any paleontological fossils, and from disturbing any significant cultural resources in the area.
- The personnel from the Ute Tribe Energy & Minerals Department should be notified should cultural remains from subsurface deposits be exposed or identified during construction. All construction will cease.
- All mitigative stipulations contained in the Bureau of Indian Affairs Site Specific Environmental Assessment (EA) will be strictly adhered.
- Upon completion of Application for Corridor Right-Way, the company will notify the Ute Tribe Energy & Minerals Department, so that a Tribal Technician can verify Affidavit of Completion.

## **DOWNHOLE CONDITIONS OF APPROVAL**

### **SITE SPECIFIC DOWNHOLE CONDITIONS OF APPROVAL**

- A surface casing shoe integrity test shall be performed.
- Production casing cement top shall be at a minimum of 200' above the surface casing shoe.

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

### **DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS**

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- 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.
- Chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log CBL will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- **Please submit an electronic copy of all other logs run on this well in LAS format to UT\_VN\_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.**
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

## **OPERATING REQUIREMENT REMINDERS:**

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- In accordance with 43 CFR 3162.4-3, this well shall be reported on the "Monthly Report of Operations" Oil and Gas Operations Report OGOR starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report shall be filed in duplicate, directly with the Minerals Management Service, P.O. Box 17110, Denver, Colorado 80217-0110, or call 1-800-525-7922 303 231-3650 for reporting information.
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
  - Operator name, address, and telephone number.
  - Well name and number.
  - Well location  $\frac{1}{4}$ , Sec., Twn, Rng, and P.M..
  - Date well was placed in a producing status date of first production for which royalty will be paid.
  - The nature of the well's production, i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons.
  - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
  - Unit agreement and/or participating area name and number, if applicable.
  - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees NTL 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events fires, accidents, blowouts, spills, discharges as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" BLM Form 3160-4 shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples cuttings, fluid, and/or gas shall be submitted only when requested by the BLM, Vernal Field Office.
- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall

have prior written approval from the BLM Vernal Field Office.

- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" Form BLM 3160-5 must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

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

**SUBMIT IN TRIPLICATE - Other Instructions on reverse side.**

1. Type of Well  
 Oil Well     Gas Well     Other

2. Name of Operator  
**Kerr-McGee Oil & Gas Onshore, LP**

3a. Address  
**P.O. Box 173779, Denver, CO 80217-3779**

3b. Phone No. (include area code)  
**720.929.6226**

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
**NW SE Sec. 18 T 9S R 22E**  
**1442 FSL 2580 FEL**

5. Lease Serial No.  
**UTU-0461**

6. If Indian, Allottee, or Tribe Name  
**Ute Tribe**

7. If Unit or CA. Agreement Name and/or No.  
**UTU-63047A**

8. Well Name and No.  
**NBU 922-1803AS**

9. API Well No.  
**43-047-39833**

10. Field and Pool, or Exploratory Area  
**Natural Buttes**

11. County or Parish, State  
**Uintah**

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

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

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

Kerr-McGee Oil & Gas Onshore, LP, respectfully notifies that the center stakes for the surface location have been moved to NWSE 1442' FSL & 2580' FEL. The bottomhole location has not been changed.

Approved by the  
Utah Division of  
Oil, Gas and Mining

COPY SENT TO OPERATOR

Date: 12.4.2008

Initials: KS

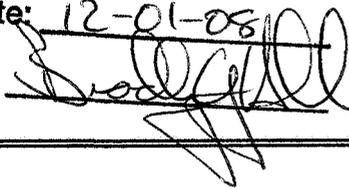
629537X

40.032704

4432281Y

-109.481801

**Federal Approval of this  
Action is Necessary**

Date: 12-01-08  
By: 

14. I hereby certify that the foregoing is true and correct.

Name (Printed/ Typed) **Kevin McIntyre** Title **Regulatory Analyst**

Signature  Date **11/11/08**

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_

Conditions of approval, if any are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. Office \_\_\_\_\_

**RECEIVED**

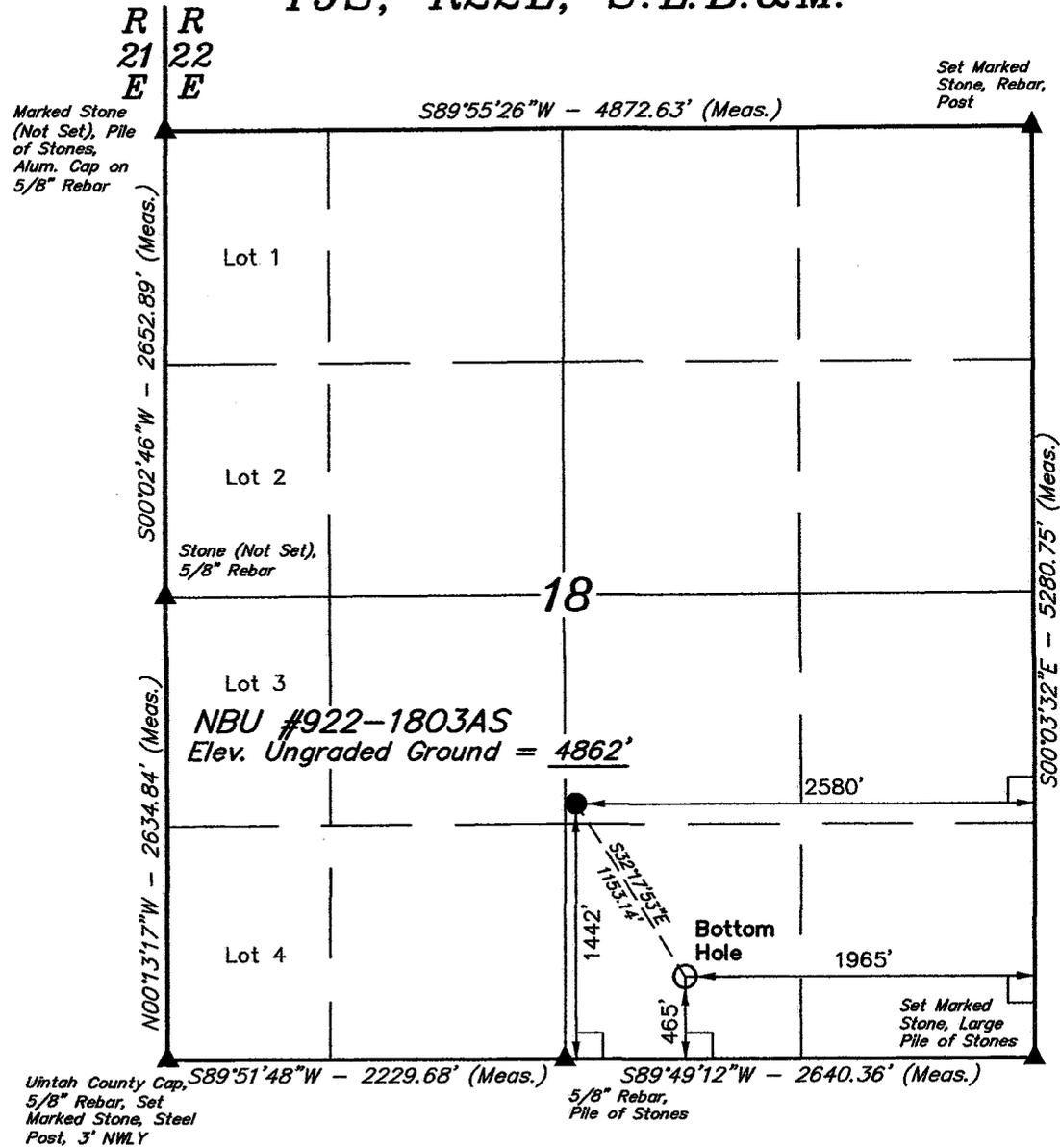
Title 18 U.S.C. Section 1001 AND Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

**NOV 17 2008**

**DIV. OF OIL, GAS & MINING**

T9S, R22E, S.L.B.&M.



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

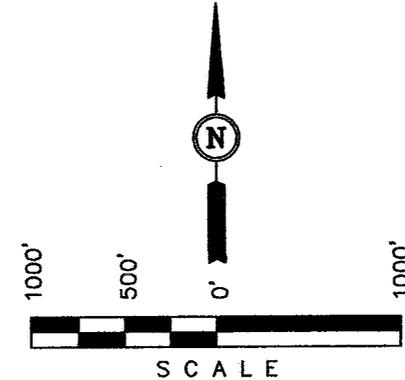
Well location, NBU #922-1803AS, located as shown in the NW 1/4 SE 1/4 of Section 18, T9S, R22E, S.L.B.&M., Uintah County, Utah.

**BASIS OF ELEVATION**

BENCH MARK (20EAM) LOCATED IN THE SE 1/4 OF SECTION 35, T8S, R21E, S.L.B.&M. TAKEN FROM THE OURAY SE QUADRANGLE, UTAH, UINTAH COUNTY, 7.5 MINUTE SERIES (TOPOGRAPHICAL MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 4697 FEET.

**BASIS OF BEARINGS**

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.



**CERTIFICATE**

THIS IS TO CERTIFY THAT THE ABOVE MAP 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.

ROBERT KAY  
REGISTERED LAND SURVEYOR  
REGISTRATION NO. 161319  
STATE OF UTAH

REVISED: 11-03-08

**UINTAH ENGINEERING & LAND SURVEYING**  
85 SOUTH 200 EAST - VERNAL, UTAH 84078  
(435) 789-1017

**LEGEND:**

- └─┘ = 90° SYMBOL
- = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED.

NAD 83 (TARGET BOTTOM HOLE)	NAD 83 (SURFACE LOCATION)
LATITUDE = 40°01'48.10" (40.030028)	LATITUDE = 40°01'57.73" (40.032703)
LONGITUDE = 109°28'49.17" (109.480325)	LONGITUDE = 109°28'57.09" (109.482525)
NAD 27 (TARGET BOTTOM HOLE)	NAD 27 (SURFACE LOCATION)
LATITUDE = 40°01'48.23" (40.030064)	LATITUDE = 40°01'57.86" (40.032739)
LONGITUDE = 109°28'46.70" (109.479639)	LONGITUDE = 109°28'54.62" (109.481839)

SCALE 1" = 1000'	DATE SURVEYED: 05-07-07	DATE DRAWN: 05-16-07
PARTY D.K. L.K. C.H.	REFERENCES G.L.O. PLAT	
WEATHER WARM	FILE Kerr-McGee Oil & Gas Onshore LP	



Kerr-McGee Oil & Gas Onshore LP  
1999 Broadway, Suite 3700  
Denver, CO 80205

November 24, 2008

Mrs. Diana Mason  
Division of Oil, Gas and Mining  
P.O. Box 145801  
Salt Lake City, UT 84114-6100

Re: Directional Drilling R649-3-11  
NBU 922-1803AS  
T9S-R22E  
Section 18: SWSE  
Surface: 1442' FSL, 2580' FEL  
Bottom Hole: 465' FSL, 1965' FEL  
Uintah County, Utah

Dear Mrs. Mason:

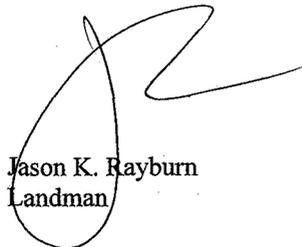
Pursuant to the filing of Kerr-McGee Oil & Gas Onshore LP's (Kerr-McGee) Application for Permit to Drill regarding the above referenced well, we are hereby submitting this letter in accordance with Oil & Gas Conservation Rule R649-3-11 pertaining to the Exception to Location and Siting of Wells.

- Kerr-McGee's NBU 922-1803AS is located within the Natural Buttes Unit area.
- Kerr-McGee is permitting this well as a directional well in order to minimize surface disturbance. Locating the well at the surface location and directionally drilling from this location, Kerr-McGee will be able to utilize the existing road and pipelines in the area.
- Furthermore, Kerr-McGee certifies that it is the sole working interest owner within 460 feet of the entire directional well bore.

Therefore, based on the above stated information Kerr-McGee Oil & Gas Onshore LP requests the permit be granted pursuant to R649-3-11.

Sincerely,

KERR-MCGEE OIL & GAS ONSHORE LP



Jason K. Rayburn  
Landman

RECEIVED

NOV 26 2008

DIV. OF OIL, GAS & MINING

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

FORM 9

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>		5. LEASE DESIGNATION AND SERIAL NUMBER: <b>UTU-0461</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.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: <b>Ute Tribe</b>
		7. UNIT or CA AGREEMENT NAME: <b>891008900A</b>
1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____	8. WELL NAME and NUMBER: <b>NBU 922-1803AS</b>	
2. NAME OF OPERATOR: <b>Kerr-McGee Oil &amp; Gas Onshore, LP</b>		9. API NUMBER: <b>4304739833</b>
3. ADDRESS OF OPERATOR: P.O. Box 173779 CITY <b>Denver</b> STATE <b>CO</b> ZIP <b>80217-3779</b>	PHONE NUMBER: <b>(720) 929-6226</b>	10. FIELD AND POOL, OR WILDCAT: <b>Natural Buttes Field</b>
4. LOCATION OF WELL FOOTAGES AT SURFACE: <b>1442' FSL &amp; 2580' FEL</b>		COUNTY: <b>Uintah</b>
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: <b>NWSE 18 9S 22E</b>		STATE: <b>UTAH</b>

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: <u>APD Extension</u>
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

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

Kerr-McGee Oil & Gas Onshore, LP, respectfully requests a one year extension on this APD in order to complete drilling operations. The Utah Division of Oil, Gas, and Mining initially approved this APD on 12/03/2007.

Approved by the  
Utah Division of  
Oil, Gas and Mining

Date: 12-11-2008  
By: [Signature]

NAME (PLEASE PRINT) <u>Kevin McIntyre</u>	TITLE <u>Regulatory Analyst</u>
SIGNATURE <u>[Signature]</u>	DATE <u>12/9/2008</u>

(This space for State use only)

**COPY SENT TO OPERATOR**  
Date: 12-16-2008  
Initials: KS

(See Instructions on Reverse Side)

**RECEIVED**  
**DEC 11 2008**  
DIV. OF OIL, GAS & MINING



**Application for Permit to Drill  
Request for Permit Extension  
Validation**

(this form should accompany the Sundry Notice requesting permit extension)

**API:** 4304739833  
**Well Name:** NBU 922-18O3AS  
**Location:** NWSE 1442' FSL & 2580' FEL, Sec. 18, T9S R22E  
**Company Permit Issued to:** Kerr-McGee Oil & Gas Onshore, LP  
**Date Original Permit Issued:** 12/3/2007

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision.

Following is a checklist of some items related to the application, which should be verified.

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

Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? Yes  No

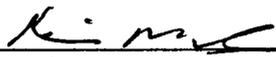
Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? Yes  No

Have there been any changes to the access route including ownership, or right-of-way, which could affect the proposed location? Yes  No

Has the approved source of water for drilling changed? Yes  No

Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? Yes  No

Is bonding still in place, which covers this proposed well? Yes  No

  
Signature

12/9/2008  
Date

Title: Regulatory Analyst

Representing: Kerr-McGee Oil & Gas Onshore, LP

**RECEIVED**  
**DEC 11 2008**  
 DIV. OF OIL, GAS & MINING

# DIVISION OF OIL, GAS AND MINING

## SPUDDING INFORMATION

Name of Company: KERR-McGEE OIL & GAS ONSHORE, L.P.

Well Name: NBU 922-1803AS

Api No: 43-047-39833 Lease Type: FEDERAL

Section 18 Township 09S Range 22E County UINTAH

Drilling Contractor: PETE MARTIN DRLG RIG # RATHOLE

## SPUDDED:

Date 12/17/2008

Time 10:00 AM

How DRY

**Drilling will Commence:** \_\_\_\_\_

Reported by LEW WELDON

Telephone # (435) 828-7035

Date 12/17/08 Signed CHD

ENTITY ACTION FORM

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

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304740083	NBU 922-290		SWSE	29	9S,	22E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
<i>B</i>	99999	<i>2900</i>	12/17/2008			<i>12/30/08</i>	
Comments: MIRU PETE MARTIN BUCKET RIG. <i>WSMUD</i> SPUD WELL LOCATION ON 12/17/2008 AT 1100 HRS.							

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304739833	NBU 922-1803AS		NWSE	18	9S,	22E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
<i>B</i>	99999	<i>2900</i>	12/17/2008			<i>12/30/08</i>	
Comments: MIRU PETE MARTIN BUCKET RIG. <i>WSMUD</i> SPUD WELL LOCATION ON 12/17/2008 AT 1000 HRS. <i>BHL = SWSE</i>							

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304739830	NBU 922-18P2S		NWSE	18	9S,	22E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
<i>B</i>	99999	<i>2900</i>	12/16/2008			<i>12/30/08</i>	
Comments: MIRU PETE MARTIN BUCKET RIG. <i>WSMUD</i> SPUD WELL LOCATION ON 12/16/2008 AT 1500 HRS. <i>BHL = SESE</i>							

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)

RECEIVED

DEC 18 2008

SHEILA UPCHEGO

Name (Please Print)

*Sheila Upchego*

Signature

REGULATORY ANALYST

12/17/2008

Title

Date

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

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

5. Lease Serial No.  
UTU-0461

6. If Indian, Allottee or Tribe Name  
TRIBAL SURFACE

**SUBMIT IN TRIPLICATE – Other instructions on page 2.**

1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other		7. If Unit of CA/Agreement, Name and/or No. UNIT #891008900A
2. Name of Operator KERR MCGEE OIL & GAS ONSHORE LP		8. Well Name and No. NBU 922-1803AS
3a. Address 1368 SOUTH 1200 EAST VERNAL, UTAH 84078	3b. Phone No. (include area code) 435.781.7024	9. API Well No. 4304739833
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) SURFACE HOLE: NW/SE SEC. 18, T9S, R22E 1413'FSL, 2621'FEL BOTTOM HOLE: SW/SE SEC. 18, T9S, R22E 485'FSL, 1985'FEL <i>1442 FSL 2580 FEL</i>		10. Field and Pool or Exploratory Area NATURAL BUTTES
		11. Country or Parish, State UINTAH COUNTY, UTAH

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

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

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

MIRU PETE MARTIN BUCKET RIG. DRILLED 20" CONDUCTOR HOLE TO 40'. RAN 14" 36.7# SCHEDULE 10 PIPE. CMT W/28 SX READY MIX.

SPUD WELL LOCATION ON 12/17/2008 AT 1000 HRS.

RECEIVED

DEC 22 2008

DIV. OF OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed) SHEILA UPCHEGO		Title REGULATORY ANALYST
Signature <i>Sheila Upchego</i>		Date 12/17/2008

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by	Title	Date
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office	

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.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

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5. Lease Serial No.  
UTU-0461

6. If Indian, Allottee or Tribe Name  
TRIBAL SURFACE

**SUBMIT IN TRIPLICATE** – Other instructions on page 2.

1. Type of Well  
 Oil Well     Gas Well     Other

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

3a. Address  
1368 SOUTH 1200 EAST VERNAL, UTAH 84078

3b. Phone No. (include area code)  
435.781.7024

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
SURFACE HOLE: NW/SE SEC. 18, T9S, R22E 1413'FSL, 2621'FEL  
BOTTOM HOLE: SW/SE SEC. 18, T9S, R22E 465'FSL, 1965'FEL

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

8. Well Name and No.  
NBU 922-1803AS

9. API Well No.  
4304739833

10. Field and Pool or Exploratory Area  
NATURAL BUTTES

11. Country or Parish, State  
UINTAH COUNTY, UTAH

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

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

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

MIRU PROPETRO AIR RIG ON 02/01/2009. DRILLED 12 1/4" SURFACE HOLE TO 2850'. RAN 9 5/8" 36# J-55 SURFACE CSG. LEAD CMT W/270 SX HIFILL CLASS G @11.0 PPG 1.15 YIELD. TAILED CMT W/200 SX PREM CLASS G @15.8 PPG 1.15 YIELD. GOOD RETURNS THROUGH OUT JOB 23 +/- BBL LEAD CMT TO PIT LAND PLUG FLOATS HELD. RAN 200' OF 1" PIPE, CMT W/100 SX PREM CLASS G @15.8 PPG 1.15 YIELD. NO CMT TO SURFACE. TOP OUT W/150 SX PREM CLASS G @15.8 PPG 1.15 YIELD. DOWN BACKSIDE GOOD CMT TO SURFACE HOLE STAYED FULL.

WORT.

14. I hereby certify that the foregoing is true and correct.

Name (Printed/Typed)  
SHEILA UPCHEGO

Title REGULATORY ANALYST

Signature 

Date 02/09/2009

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office \_\_\_\_\_

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 11 2009

<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-0461
<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 922-1803AS
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.	<b>9. API NUMBER:</b> 43047398330000
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	<b>PHONE NUMBER:</b> 720 929-6587 Ext
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 1442 FSL 2580 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWSE Section: 18 Township: 09.0S Range: 22.0E 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: 5/16/2009	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<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 2850' TO 9940' ON 05/15/2009. RAN 4 1/2" 11.6# I-80 PRODUCTION CSG. LEAD CMT W/540 SX PREM LITE II @11.7 PPG 2.50 YIELD. TAILED CMT W/1385 SX 50/50 POZ @14.3 PPG 1.31 YIELD. DROP PLUG DISPLACE W/153.5 BBLS H2O + ADDITIVES. PLUG DOWN AND 1455 HRS. LIFT PRESSURE @2370 PSI BUMP PRESSURE @2976 PSI HELD W/1.75 BBLS BACK. HAD GOOD CIRC THROUGH OUT JOB W/35 BBLS WATER SPACER TO PIT NO CMT TO SURFACE LD LANDING JT INSTALL PACKOFF IN WELLHEAD RELEASE BOP TEST PACKOFF TO 5000 PSI PREP RIG F/SKID. RELEASED H&P RIG ON 298 ON 05/16/2009 AT 1700 HRS.

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

<b>NAME (PLEASE PRINT)</b> Sheila Upchego	<b>PHONE NUMBER</b> 435 781-7024	<b>TITLE</b> Regulatory Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 5/19/2009	

<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-0461
<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 922-1803AS
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.	<b>9. API NUMBER:</b> 43047398330000
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	<b>PHONE NUMBER:</b> 720 929-6587 Ext
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 1442 FSL 2580 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWSE Section: 18 Township: 09.0S Range: 22.0E 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: 5/16/2009	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<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 2850' TO 9940' ON 05/15/2009. RAN 4 1/2" 11.6# I-80 PRODUCTION CSG. LEAD CMT W/540 SX PREM LITE II @11.7 PPG 2.50 YIELD. TAILED CMT W/1385 SX 50/50 POZ @14.3 PPG 1.31 YIELD. DROP PLUG DISPLACE W/153.5 BBLS H2O + ADDITIVES. PLUG DOWN AND 1455 HRS. LIFT PRESSURE @2370 PSI BUMP PRESSURE @2976 PSI HELD W/1.75 BBLS BACK. HAD GOOD CIRC THROUGH OUT JOB W/35 BBLS WATER SPACER TO PIT NO CMT TO SURFACE LD LANDING JT INSTALL PACKOFF IN WELLHEAD RELEASE BOP TEST PACKOFF TO 5000 PSI PREP RIG F/SKID. RELEASED H&P RIG ON 298 ON 05/16/2009 AT 1700 HRS.

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

<b>NAME (PLEASE PRINT)</b> Sheila Upchego	<b>PHONE NUMBER</b> 435 781-7024	<b>TITLE</b> Regulatory Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 5/19/2009	

US ROCKIES REGION  
**Operation Summary Report**

43-047-39833

Well: NBU 922-1803AS [GREEN]		Spud Conductor: 12/17/2008	Spud Date: 2/1/2009
Project: UTAH-UINTAH		Site: NBU 922-18J PAD	Rig Name No: GWS 1/1
Event: COMPLETION		Start Date: 8/23/2009	End Date: 9/9/2009
Active Datum: RKB @4,887.00ft (above Mean Sea Level)		UWI: NW/SE/0/9/S/22/E/18/0/0/6/PM/S/1,442.00/E/0/2,580.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
9/12/2009	7:00 -			33	A			7 AM FLBK REPORT: CP 2850#, TP 1725#, 20/64" CK, 38 BWPH, MEDIUM SAND, - GAS TTL BBLs RECOVERED: 8052 BBLs LEFT TO RECOVER: 8514
9/13/2009	7:00 -			33	A			7 AM FLBK REPORT: CP 2600#, TP 1675#, 20/64" CK, 38 BWPH, LIGHT SAND, - GAS TTL BBLs RECOVERED: 8964 BBLs LEFT TO RECOVER: 7602
9/14/2009	7:00 -			33	A			7 AM FLBK REPORT: CP 2400#, TP 1575#, 20/64" CK, 25 BWPH, LIGHT SAND, - GAS TTL BBLs RECOVERED: 9555 BBLs LEFT TO RECOVER: 7011
	7:30 -		PROD	50				WELL IP'D ON 9/14/09 - 2220 MCFD, 0 BOPD, 600 BWPD, FTP 1675#, CP 2600#, CK 20/64", LP 95#, 24 HRS

<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-0461
<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 922-1803AS
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.	<b>9. API NUMBER:</b> 43047398330000
<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 FOOTAGES AT SURFACE:</b> 1442 FSL 2580 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWSE Section: 18 Township: 09.0S Range: 22.0E 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**

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<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: 9/11/2009	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input checked="" type="checkbox"/> <b>PRODUCTION START OR RESUME</b>	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
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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 09/11/2009 AT 8:50 A.M. PLEASE REFER TO THE ATTACHED CHRONOLOGICAL WELL HISTORY

Accepted by the  
 Utah Division of  
 Oil, Gas and Mining  
**FOR RECORD ONLY**  
 September 15, 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> 9/15/2009

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

Well: NBU 922-18O3AS [GREEN]		Spud Conductor: 12/17/2008	Spud Date: 2/1/2009
Project: UTAH-UINTAH		Site: NBU 922-18J PAD	Rig Name No: PROPETRO/, H&P 298/298
Event: DRILLING		Start Date: 2/1/2009	End Date: 5/16/2009
Active Datum: RKB @4,887.01ft (above Mean Sea Level)		UWI: 0/9/S/22/E/18/0/NWSE/6/PM/S/1,413.00/E/0/2,621.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
2/1/2009	0:00 - 12:00	12.00	DRLSUR	02		P		DRILL F/ 80' TO 810' W/ AIR HAMMER
	12:00 - 0:00	12.00	DRLSUR	02		P		DRILL F/ 810' TO 1380' W/ AIR HAMMER.
2/2/2009	0:00 - 12:00	12.00	DRLSUR	02		P		DRILL F/ 1380' TO 1630' ( WATER ZONES 1500' AND 1630') TRIP FOR BIT.
	12:00 - 0:00	12.00	DRLSUR	02		P		DRILL F/ 1630' TO 1830' CIRC RESERVE PIT.
2/3/2009	0:00 - 12:00	12.00	DRLSUR	02		P		DRILL F/ 1830' TO 1980' CIRC RESERVE PIT
	12:00 - 0:00	12.00	DRLSUR	02		P		DRILL F/ 1980' TO 2130' CIRC RESERVE PIT SURVEY 2070'= 1 DEGREE.
2/4/2009	0:00 - 9:00	9.00	DRLSUR	02		P		RIG DRILL TO 2250' CONDITION HOLE
	9:00 - 12:00	3.00	DRLSUR	06	A	P		TRIP DP OUT OF HOLE
	12:00 - 15:00	3.00	DRLSUR	06	A	P		RIH W/ 12.25 PDC BIT
	15:00 - 0:00	9.00	DRLSUR	02		P		RIG DRILL FROM 2250'-2310' RUN SURVEY 1 DEG.
2/5/2009	0:00 - 12:00	12.00	DRLSUR	02		P		RIG DRILLING AHEAD CIRCULATING WITH PROPETRO CEMENT 2450'
	12:00 - 0:00	12.00	DRLSUR	02		P		RIG DRILLING AHEAD CIRCULATING WITH PROPETRO CEMENT FULL RETURNS 2580'
2/6/2009	0:00 - 12:00	12.00	DRLSUR	02		P		RIG DRILLING AHEAD CIRCULATING FULL RETURNS 2780'
	12:00 - 19:00	7.00	DRLSUR	02		P		RIG T/D @ 2850' CONDITION HOLE 1 HR NO SURVEY WAS TAKEN AT T/D LAST SURVEY WAS 1 DEG. AT 2720'
	19:00 - 23:00	4.00	DRLSUR	06		P		TRIP DP OUT OF HOLE
	23:00 - 0:00	1.00	DRLSUR	12		P		START TO RUN CSG AT REPORT TIME
2/7/2009	0:00 - 4:30	4.50	DRLSUR	12		P		FINISH RUNNING 9 5/8 CSG TO 2819' AND RUN 200' OF 1" PIPE RIG DOWN AIR RIG
	4:30 - 6:00	1.50	DRLSUR	12		P		CEMENT 1ST STAGE WITH 270 SKS LEAD @ 11# 3.82 23 GAL/SK AND 200 SKS TAIL @ 15.8# 1.15 5.0 GAL/SK GOOD RETURNS THRU OUT JOB + - 23 BBL LEAD CMT TO PITLAND PLUG FLOATS HELD
	6:00 - 6:30	0.50	DRLSUR	12		P		1ST TOP JOB 100 SKS DOWN 1" PIPE NO CEMENT TO SURFACE
	6:30 - 8:30	2.00	DRLSUR	12		P		2ND TOP JOB 150 SKS DOWN BS GOOD CMT TO SURFACE AND STAYED AT SURFACE
5/8/2009	8:30 - 8:30	0.00	DRLSUR					NO VISIBLE LEAKS PIT 50% FULL WORT
	0:00 - 1:00	1.00	MIRU	01	C	P		PREPARE & SKID RIG F/ NBU 922-18O3DS - T/ NBU 922-18O3AS
	1:00 - 1:30	0.50	MIRU	01	B	P		RIG UP EQUIPMENT AFTER SKID
	1:30 - 3:00	1.50	PRSPD	14	A	P		NIPPLE UP BOP EQUIPMENT / INSTALL EXTENSION IN CHOKE LINE / HOOK UP FLOW LINE + RELATED EQUIPMENT
	3:00 - 3:30	0.50	PRSPD	07	A	P		SERVICE RIG & EQUIPMENT
	3:30 - 4:30	1.00	PRSPD	08	A	P		CHANGE SWIVEL PACKING

**RECEIVED** September 15, 2009

**US ROCKIES REGION  
Operation Summary Report**

Well: NBU 922-18O3AS [GREEN]	Spud Conductor: 12/17/2008	Spud Date: 2/1/2009
Project: UTAH-UINTAH	Site: NBU 922-18J PAD	Rig Name No: PROPETRO/, H&P 298/298
Event: DRILLING	Start Date: 2/1/2009	End Date: 5/16/2009
Active Datum: RKB @4,887.01ft (above Mean Sea Level)	UWI: 0/9/S/22/E/18/0/NWSE/6/PM/S/1,413.00/E/0/2,621.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	4:30 - 11:00	6.50	PRSPD	15	A	P		SAFETY MEETING / MIRU SINGLE JACK TEST EQUIPMENT / PRESSURE TEST PIPE RAMS, BLIND RAMS, IBOP, FLOOR VALVE, KILL LINES & KILL LINE VALVES, BOP WING VALVES, HCR VALVE + CHOKE LINE; INNER AND OUTER CHOKE VALVES & MANIFOLD TO 250 PSI LOW @ 5 MINUTES + 5000 PSI HIGH @ 10 MINUTES / TEST ANNULAR TO 250 PSI LOW @ 5 MINUTES + 2500 PSI HIGH @ 10 MINUTES / TEST SUPER CHOKE + SURFACE CASING TO 1500 PSI @ 30 MINUTES - MAKE REPAIRS AS NEEDED / FUNCTION TEST CLOSING UNIT - PASSED
	11:00 - 17:00	6.00	PRSPD	06	A	P		SAFETY MEETING / PICK UP MOTOR / BIT #1 / PICK UP & ORIENTATE DIRECTIONAL EQUIPMENT / T.I.H. - RUN MAGNAFLUX INSPECTION ON NON MAG COLLARS, HWDP + RELATED DRILLING TOOLS WHILE T.I.H. / INSTALL ROTATING RUBBER / TAG CEMENT @ 2755'
	17:00 - 17:30	0.50	PRSPD	07	A	P		RIG SERVICE / PUMPS, MUD LINES, KELLY HOSE & TOP DRIVE PACKING TO 2500 PSI
	17:30 - 19:30	2.00	PRSPD	02	F	P		DRILL FLOAT TRAC
	19:30 - 0:00	4.50	DRLPRO	02	D	P		DRILL (ROTATE & SLIDE) F/ 2876' - T/ 3220' = 344' @ 76.4 fph / 15k-18k WOB / TOP DRV RPM 25-35 / #2 PUMP @ 110 SPM = 498 GPM / MOTOR 110 RPM / SPP ON-OFF BTM 2020-1820 / TQ ON-OFF BTM 4k-1k ft/lbs / DRAG UP-DWN-ROT 108-100-103 / 8.6 ppg - 26 vis (DRILL W/ H2O + POLYMER - CIRCULATING RIG PITS) 7' TO 14' SLIDES MADE AT SELECTED INTERVALS ON 93' STANDS / PUMPING GEL/LIME SWEEPS / 5' FLARE AFTER DRILLING OUT CEMENT
5/9/2009	0:00 - 6:00	6.00	DRLPRO	02	D	P		DRILL (ROTATE & SLIDE) F/ 3220' - T/ 3660' = 400' @ 66.6 fph / 15k-18k WOB / TOP DRV RPM 35-40 / #2 PUMP @ 110 SPM = 495 GPM / MOTOR 109 RPM / SPP ON-OFF BTM 2020-1820 / TQ ON-OFF BTM 5.2k-2k ft/lbs / DRAG UP-DWN-ROT 111-101-105 / 8.6 ppg - 26 vis (DRILL W/ H2O + POLYMER - CIRCULATING RIG PITS) 8' TO 10' SLIDES MADE AT SELECTED INTERVALS ON 93' STANDS / PUMPING GEL/LIME SWEEPS
	6:00 - 15:30	9.50	DRLPRO	02	D	P		DRILL (ROTATE & SLIDE) F/ 3660' - T/ 4229' = 569' @ 59.89 fph / 18k-20k WOB / TOP DRV RPM 35-42 / #1 PUMP @ 110 SPM = 495 GPM / MOTOR 109 RPM / SPP ON-OFF BTM 2200-1800 / TQ ON-OFF BTM 8k-3k ft/lbs / DRAG UP-DWN-ROT 133-105-120 / 8.6 ppg - 26 vis (DRILL W/ H2O + POLYMER - CIRCULATING RIG PITS) 20' TO 30' SLIDES MADE AT SELECTED INTERVALS ON 93' STANDS / PUMPING GEL/LIME SWEEPS
	15:30 - 16:00	0.50	DRLPRO	07	A	P		SERVICE RIG & EQUIPMENT / WORK PIPE RAMS / VISUAL INSPECTION ON B.O.P.E.
	16:00 - 0:00	8.00	DRLPRO	02	D	P		DRILL (ROTATE & SLIDE) F/ 4229' - T/ 4787' = 558' @ 69.75 fph / 18k-20k WOB / TOP DRV RPM 25-35 / #2 PUMP @ 110 SPM = 495 GPM / MOTOR 109 RPM / SPP ON-OFF BTM 2200-1800 / TQ ON-OFF BTM 9k-3k ft/lbs / DRAG UP-DWN-ROT 143-110-123 / 8.6 ppg - 26 vis (DRILL W/ H2O + POLYMER - CIRCULATING RIG PITS) 8' TO 19' SLIDES MADE AT SELECTED INTERVALS ON 93' STANDS / PUMPING GEL/LIME SWEEPS / B.O.P. DRILL

**RECEIVED** September 15, 2009

**US ROCKIES REGION  
Operation Summary Report**

Well: NBU 922-1803AS [GREEN]      Spud Conductor: 12/17/2008      Spud Date: 2/1/2009  
 Project: UTAH-UINTAH      Site: NBU 922-18J PAD      Rig Name No: PROPETRO/, H&P 298/298  
 Event: DRILLING      Start Date: 2/1/2009      End Date: 5/16/2009  
 Active Datum: RKB @4,887.01ft (above Mean Sea Level)      UWI: 0/9/S/22/E/18/0/NWSE/6/PM/S/1,413.00/E/0/2,621.00/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
5/10/2009	0:00 - 6:00	6.00	DRLPRO	02	D	P		DRILL / SURVEY (ROTATE & SLIDE) F/ 4787' - T/ 5125' = 338' @ 56.3 fph / 18k-19k WOB / TOP DRV RPM 35-42 / #2 PUMP @ 110 SPM = 495 GPM / MOTOR 109 RPM / SPP ON-OFF BTM 2200-1800 / TQ ON-OFF BTM 9k-3k ft/lbs / DRAG UP-DWN-ROT 143-112-127 / 8.6 ppg - 26 vis (DRILL W/ H2O + POLYMER - CIRCULATING RIG PITS) 8' TO 19' SLIDES MADE AT SELECTED INTERVALS ON 93' STANDS / PUMPING GEL/LIME SWEEPS / 5'-15' FLARE BRIEFLY AFTER CONNECTION @ 5079' - GAS = 7826 UNITS
	6:00 - 15:00	9.00	DRLPRO	02	D	P		DRILL / SURVEY (ROTATE & SLIDE) F/ 5125' - T/ 6028' = 903' @ 100.3 fph / 20k-22k WOB / TOP DRV RPM 35-40 / #1 PUMP @ 110 SPM = 495 GPM / MOTOR 109 RPM / SPP ON-OFF BTM 2350-2000 / TQ ON-OFF BTM 9k-3k ft/lbs / DRAG UP-DWN-ROT 172-119-142 / 8.6 ppg - 26 vis (DRILL W/ H2O + POLYMER - CIRCULATING RIG PITS) 10' TO 17' SLIDES MADE AT SELECTED INTERVALS ON SELECTED 93' STANDS / PUMPING GEL/LIME SWEEPS / NO FLARE
	15:00 - 15:30	0.50	DRLPRO	07	A	P		SERVICE RIG & EQUIPMENT / WORK PIPE RAMS / VISUAL INSPECT B.O.P.E.
	15:30 - 0:00	8.50	DRLPRO	02	D	P		DRILL / SURVEY (ROTATE & SLIDE) F/ 6028' - T/ 6737' = 709' @ 83.4 fph / 20k-22k WOB / TOP DRV RPM 35-40 / #2 PUMP @ 110 SPM = 495 GPM / MOTOR 109 RPM / SPP ON-OFF BTM 2340-2020 / TQ ON-OFF BTM 8k-3k ft/lbs / DRAG UP-DWN-ROT 190-130-155 / 8.6 ppg - 26 vis (DRILL W/ H2O + POLYMER - CIRCULATING RIG PITS) 10' TO 17' SLIDES MADE AT SELECTED INTERVALS ON SELECTED 93' STANDS / PUMPING GEL/LIME SWEEPS / NO FLARE / B.O.P. DRILL = 46 SECONDS
5/11/2009	0:00 - 6:00	6.00	DRLPRO	02	D	P		DRILL / SURVEY (ROTATE & SLIDE) F/ 6737' - T/ 7098' = 361' @ 60.16 fph / 20k-23k WOB / TOP DRV RPM 35-40 / #2 PUMP @ 110 SPM = 495 GPM / MOTOR 109 RPM / SPP ON-OFF BTM 2400-2080 / TQ ON-OFF BTM 9k-4k ft/lbs / DRAG UP-DWN-ROT 200-128-163 / 8.6 ppg - 26 vis (DRILL W/ H2O + POLYMER - CIRCULATING RIG PITS) 10' TO 12' SLIDES MADE AT SELECTED INTERVALS ON SELECTED 93' STANDS / PUMPING GEL/LIME SWEEPS / NO FLARE
	6:00 - 15:30	9.50	DRLPRO	02	D	P		DRILL / SURVEY (ROTATE) F/ 7098' - T/ 7539' = 441' @ 46.4 fph / 20k-23k WOB / TOP DRV RPM 35-40 / #1 PUMP @ 110 SPM = 495 GPM / MOTOR 109 RPM / SPP ON-OFF BTM 2350-2100 / TQ ON-OFF BTM 10k-7k ft/lbs / DRAG UP-DWN-ROT 221-137-170 / 8.6 ppg - 26 vis (DRILL W/ H2O + POLYMER - CIRCULATING RESERVE PIT) / PUMPING GEL/LIME SWEEPS / NO FLARE
	15:30 - 16:00	0.50	DRLPRO	07	A	P		SERVICE RIG & EQUIPMENT / FUNCTION PIPE RAMS / VISUAL INSPECT B.O.P.E.

**RECEIVED** September 15, 2009

**US ROCKIES REGION  
Operation Summary Report**

Well: NBU 922-1803AS [GREEN] Spud Conductor: 12/17/2008 Spud Date: 2/1/2009  
 Project: UTAH-UINTAH Site: NBU 922-18J PAD Rig Name No: PROPETRO/, H&P 298/298  
 Event: DRILLING Start Date: 2/1/2009 End Date: 5/16/2009  
 Active Datum: RKB @4,887.01ft (above Mean Sea Level) UWI: 0/9/S/22/E/18/0/NWSE/6/PM/S/1,413.00/E/0/2,621.00/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	16:00 - 0:00	8.00	DRLPRO	02	D	P		DRILL / SURVEY (ROTATE & SLIDE) F/ 7539' - T/ 8053' = 514' @ 64.25 fph / 20k-22k WOB / TOP DRV RPM 35-40 / #2 PUMP @ 110 SPM = 495 GPM / MOTOR 109 RPM / SPP ON-OFF BTM 2400-2080 / TQ ON-OFF BTM 10k-8k ft/lbs / DRAG UP-DWN-ROT 225-145-173 / SEEING POPING SHALE AT 7550' (37 MIN LAG) NOTOIFED MUD ENGINEER - AT 7701' PUMPED 20 BBLS SWEEP @ 5% POTASSIUM SILICATE W/ 2% RETURNED - PUMPED 20BBL SWEEP @ 5% POTASSIUM SILICATE W/ 2.5% RETURNED / POPING SHALE APPEARED TO BE REGUCED BY 20%-30% / 9.3 ppg - 38 vis (START MUD UP @ 7850' - TRANSFER WHOLE MUD FROM STORAGE ON LOCATION + GEL) 10' TO 12' SLIDES MADE AT SELECTED INTERVALS ON SELECTED 93' STANDS / 5'-15' INTERMITTENT FLARE PRIOR TO STARTING MUD UP - HIGH GAS = 7646 UNITS
5/12/2009	0:00 - 6:00	6.00	DRLPRO	02	D	P		DRILL / SURVEY (ROTATE & SLIDE) F/ 8053' - T/ 8397' = 344' @ 57.33 fph / 20k-22k WOB / TOP DRV RPM 35 / #2 PUMP @ 110 SPM = 495 GPM / MOTOR 109 RPM / SPP ON-OFF BTM 2730-2550 / TQ ON-OFF BTM 10k-8k ft/lbs / DRAG UP-DWN-ROT 230-135-173 / 10.0 ppg - 33 vis / 10' TO 12' SLIDES MADE AT SELECTED INTERVALS ON SELECTED 93' STANDS
	6:00 - 17:00	11.00	DRLPRO	02	D	P		DRILL / SURVEY (ROTATE) F/ 8397' - T/ 8768' = 371' @ 33.72 fph / 20k-23k WOB / TOP DRV RPM 35 / #1 PUMP @ 105 SPM = 473 GPM / MOTOR 104 RPM / SPP ON-OFF BTM 2970-2600 / TQ ON-OFF BTM 13k-9k ft/lbs / DRAG UP-DWN-ROT 252-145-186 / 10.5 ppg - 40 vis
	17:00 - 17:30	0.50	DRLPRO	07	A	P		SERVICE RIG & EQUIPMENT / FUNCTION PIPE RAMS
	17:30 - 0:00	6.50	DRLPRO	02	D	P		DRILL / SURVEY (ROTATE & SLIDE) F/ 8768' - T/ 8880' = 112' @ 17.23 fph / 20k-24k WOB / TOP DRV RPM 35 / #2 PUMP @ 105 SPM = 473 GPM / MOTOR 104 RPM / SPP ON-OFF BTM 2970-2600 / TQ ON-OFF BTM 13k-9k ft/lbs / DRAG UP-DWN-ROT 252-145-186 / 10.5 ppg - 40 vis
5/13/2009	0:00 - 6:00	6.00	DRLPRO	02	D	P		DRILL / SURVEY (ROTATE & SLIDE) F/ 8880' - T/ 9030' = 150' @ 25 fph / 20k-24k WOB / TOP DRV RPM 35 / #2 PUMP @ 105 SPM = 473 GPM / MOTOR 104 RPM / SPP ON-OFF BTM 2970-2600 / TQ ON-OFF BTM 13k-9k ft/lbs / DRAG UP-DWN-ROT 255-152-186 / 10.5 ppg - 40 vis
	6:00 - 15:30	9.50	DRLPRO	02	D	P		DRILL / SURVEY (ROTATE) F/ 9030' - T/ 9241' = 211' @ 22.2 fph / 20k-24k WOB / TOP DRV RPM 35 / #2 PUMP @ 105 SPM = 473 GPM / MOTOR 104 RPM / SPP ON-OFF BTM 2718-2520 / TQ ON-OFF BTM 14k-9k ft/lbs / DRAG UP-DWN-ROT 270-145-186 / 11.2 ppg - 44 vis
	15:30 - 16:00	0.50	DRLPRO	07	A	P		RIG SERVICE
	16:00 - 19:00	3.00	DRLPRO	02	D	P		DRILL / SURVEY (ROTATE) F/ 9241' T/ 9306 = 65 @ 21.6 fph / 20k-24k WOB / TOP DRV RPM 35 / #2 PUMP @ 105 SPM = 473 GPM / MOTOR 104 RPM / SPP ON-OFF BTM 2720-2550 / TQ ON-OFF BTM 14k-9k ft/lbs / DRAG UP-DWN-ROT 270-1145-186 / 11.2 ppg - 44 vis

**RECEIVED** September 15, 2009

**US ROCKIES REGION  
Operation Summary Report**

Well: NBU 922-18O3AS [GREEN] Spud Conductor: 12/17/2008 Spud Date: 2/1/2009  
 Project: UTAH-UINTAH Site: NBU 922-18J PAD Rig Name No: PROPETRO/, H&P 298/298  
 Event: DRILLING Start Date: 2/1/2009 End Date: 5/16/2009  
 Active Datum: RKB @4,887.01ft (above Mean Sea Level) UWI: 0/9/S/22/E/18/0/NWSE/6/PM/S/1,413.00/E/0/2,621.00/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	19:00 - 0:00	5.00	DRLPRO	06	A	P		TRIP F/ BIT PUMP/ROTATE 9 STDS TO 8460,20/50K DRAG,STRAIGHT PULL 5 STDS TO 7990' 40/60K DRAG, PUMP SLUG,TOH,TO CSG SHOE,CHECK FOR FLOW, 'PULL ROT HEAD,TOH X/O BIT/L/D MUD MTR
5/14/2009	0:00 - 1:30	1.50	DRLPRO	06	A	P		PICK UP MTR & BIT/RE-DRESS,MAKE UP & ORIENTATE DIRECTIONAL TOOLS
	1:30 - 4:30	3.00	DRLPRO	06	A	P		TIH,BREAK CIRC @2800 & 7300'.CIH TO 9244
	4:30 - 5:00	0.50	DRLPRO	03	D	P		PRECAUTIONARY W & R F/9244 TO 9306,4' FILL FAN BTM
	5:00 - 15:00	10.00	DRLPRO	02	D	P		DRILL / SURVEY (ROTATE)F/9306 T/9623 = 303 @ 30.3 fph / 16k-23k WOB / TOP DRV RPM 30/40 #2 PUMP @ 105 SPM = 473 GPM /MOTOR 73 RPM / SPP ON-OFF BTM 2550-2400 / TQ ON-OFF BTM 14k-9k ft/lbs / DRAG UP-DWN-ROT 258-145-189 / 11.4 ppg - 44 vis
	15:00 - 15:30	0.50	DRLPRO	07	A	P		RIG SERVICE,FUNCT PIPE RAMS
	15:30 - 0:00	8.50	DRLPRO	02	D			DRILL / SURVEY (ROTATE)F/9623 T/9840 =217 @ 25.5 fph / 16k-25k WOB / TOP DRV RPM 30/40 #2 PUMP @ 105 SPM = 473 GPM /MOTOR 73 RPM / SPP ON-OFF BTM 2560-2460 / TQ ON-OFF BTM 14k-11k ft/lbs / DRAG UP-DWN-ROT 258-145-189 / 11.6 ppg - 40 vis
5/15/2009	0:00 - 4:30	4.50	DRLPRO	02	D	P		DRILL F/9840 T/9940 TD=100' @ 22.5fph / 16k-25k WOB / TOP DRV RPM 30/40 #2 PUMP @ 105 SPM = 473 GPM /MOTOR 73 RPM / SPP ON-OFF BTM 2560-2460 / TQ ON-OFF BTM 14k-11k ft/lbs / DRAG UP-DWN-ROT 258-145-189 / 11.7 ppg - 40 vis
	4:30 - 5:30	1.00	DRLPRO	05	F	P		CCH,PUMP 20 BBL SWEEP
	5:30 - 9:30	4.00	DRLPRO	06	E	P		WIPER TRIP TO 8000',TRYED STRAIGHT PULL OFF BTM 100K OVER PUMP & ROTATE OUT TO 8200 40/70 OVER, PULL TO 8000',TIH
	9:30 - 11:30	2.00	DRLPRO	05	F	P		CCH F/ E-LOGS,PUMP SWEEPS TRIP GAS 7359 UNITS,NO FLARE
	11:30 - 17:00	5.50	DRLPRO	06	B	P		TOH F/ LOGS,TRY STRAIGHT PULL,100K OVER,PUMP & ROTATE OUT 10 STDS TO 9000' 35/65 OVER,/PUMP PILL/TOH FLOW CHECK @ CSG SHOE,TOH
	17:00 - 18:00	1.00	DRLPRO	06	B	P		L/D MWD TOOL,MOTOR & BIT,PULL WEAR BUSHING
	18:00 - 0:00	6.00	DRLPRO	11	G	P		SM ,RU HALLIBURTON RUN TRIPLE COMBO,LOG TOOL STOPPED @ 8695',LOG OUT,RD SAME
5/16/2009	0:00 - 10:30	10.50	DRLPRO	12	C	P		HSM RU & RUN 6 JTS P-110 #11.6 LT&C 4.5 CASING + 237 JTS I-80 #11.6 LT&C 4.5 CASING + RELATED TOOLS / BREAKING CIRCULATION @ SELECTED INTERVALS / WASH THRU BRIDGE F/8696-8700 / LAND CSG W 75K, / SHOE @9929.12 & FLOAT COLLAR @ 9886.80'
	10:30 - 12:00	1.50	DRLPRO	05	D	P		RU CIRC EQUIP & CIRC CSG, HSM W/ BJ & RIG CREW,BTMS UP GAS 7290 UNITS NO FLARE

**RECEIVED** September 15, 2009

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

Well: NBU 922-1803AS [GREEN]		Spud Conductor: 12/17/2008	Spud Date: 2/1/2009
Project: UTAH-UINTAH		Site: NBU 922-18J PAD	Rig Name No: PROPETRO/ H&P 298/298
Event: DRILLING		Start Date: 2/1/2009	End Date: 5/16/2009
Active Datum: RKB @4,887.01ft (above Mean Sea Level)		UWI: 0/9/S/22/E/18/0/NWSE/6/PM/S/1,413.00/E/0/2,621.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	12:00 - 15:00	3.00	DRLPRO	12	E	P		TEST PUMPS & LINES TO 4k PSI / PUMP 40 BBLS H2O +540 SX LEAD CEMENT @ 11.7ppg (PREM LITE II I + .25 pps CELLOFLAKE + 5 pps KOL + 8% GEL + .5%SMS EXTENDER = 14.24 gal/sx, 2.5 yield) + 1385 SX TAIL @ 14.3 ppg (CLS G 50/50 POZ + 10% SALT + 2% GEL + .2% R3 = 5.91 gal/sx, 1.31 yield) / DROP PLUG & DISPLACE W/ 153.5 BBLS H2O + ADDITIVES / PLUG DOWN @1455 HRS / LIFT PRESSURE @ 2370 PSI BUMP PRESSURE, @ 2976 ,FLOATS HELD,W/ 1.75 BBLS BACK (CALC TOP OF TAIL @ 2600') HAD GOOD CIRC THROUGH JOB W/ 35 BBLS WATER SPACER TO PIT,NO CMT TO SURFACE, R.D.M.O. CEMENT EQUIPMENT
	15:00 - 17:00	2.00	DRLPRO	14	B	P		L.D. LANDING JOINT / INSTALL PACKOFF IN WELLHEAD / RELEASE B.O.P. / TEST PACKOFF TO 5000 PSI F/ 15 MIN, PREP RIG F/ SKID / RIG RELEASED @ 1700 HOURS 05/16/2009

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

Well: NBU 922-18O3AS [GREEN]		Spud Conductor: 12/17/2008	Spud Date: 2/1/2009
Project: UTAH-UINTAH		Site: NBU 922-18J PAD	Rig Name No: GWS 1/1
Event: COMPLETION		Start Date: 8/23/2009	End Date: 9/9/2009
Active Datum: RKB @4,887.01ft (above Mean Sea Level)		UWI: 0/9/S/22/E/18/0/NWSE/6/PM/S/1,413.00/E/0/2,621.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
8/27/2009	10:00 - 12:00	2.00	COMP	47	A	P		MIRU CUTTERS WIRE LINE
8/28/2009	7:00 - 12:00	5.00	COMP	37	B	P		OPEN WELL P/U RIH W/ PERF GUNS, PERF MESAVERDE USING 3-3/8 EXPEND, 23 GRM, 0.36" HOLE, 3 SPF, 90° PH, 9668'-9674' 18 HOLES. 9524'-9538' 12 HOLES. 9496'-9500' 12 HOLES [42 HOLES] SWI. READY TO FRAC MON.
8/31/2009	7:00 - 7:15	0.25	COMP	36	E	P		HSM, PRE FRAC & WIRE LINE SAFETY  STG #1 FRAC MESAVERDE 9496'-9674' [42 HOLES]  WHP=800#, BRK DN PERFS @ 3946#, INJ PS=5112#, INJ RT=51.4, ISIP=2913#, FG=.74, PUMP'D 1604 BBLS SLK WTR W/ 58463# 30/50 MESH W/ 5000# RESIN COAT IN TAIL. ISIP=2901#, FG=.73, AR=51.2, AP=5121#, MR=52.2, MP=6137#, NPI=-12#, 29/42 CALC PERFS OPEN.  STG #2] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @ 9382', PERF MESAVERDE USING 3-3/8 EXPEND [SCALLOP] 23GRM, 0.36" HOLE. 9340'-9346' 4 SPF, 90° PH, 24 HOLES. 9300'-9304' 4 SPF, 90° PH, 16 HOLES. [40 HOLES]  SWIFN.

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

Well: NBU 922-1803AS [GREEN]      Spud Conductor: 12/17/2008      Spud Date: 2/1/2009  
 Project: UTAH-UINTAH      Site: NBU 922-18J PAD      Rig Name No: GWS 1/1  
 Event: COMPLETION      Start Date: 8/23/2009      End Date: 9/9/2009  
 Active Datum: RKB @4,887.01ft (above Mean Sea Level)      UWI: 0/9/S/22/E/18/O/NWSE/6/PM/S/1,413.00/E/0/2,621.00/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
9/1/2009	7:00 - 17:00	10.00	COMP	36	E	P		<p>FRAC STG #2 MESAVERDE 9300'-9346' [40 HOLES]</p> <p>WHP=1745, BRK DN PERFS @ 3769#, INJ PS=5810#, INJ RT=44, ISIP=2937#, FG=.75, PUMP'D 929 BBLS SLK WTR W/ 34832# 30/50 MESH W/ 5000# RESIN COAT IN TAIL. ISIP=2931#, FG=.75, AR=42.3, AP=5844#, MR=47.3, MP=6413#, NPI=-6#, 25/40 CALC PERFS OPEN.</p> <p>STG #3] P/U RIH W/ HALIBURTON 8K CBP &amp; PERF GUN, SET CBP @ 9096', PERF MESAVERDE USING 3-3/8 EXPEND [SCALLOP] 23GRM, 0.36" HOLE.            9064'-9066' 3 SPF, 120* PH, 6 HOLES.            9016'-9018' 3 SPF, 120* PH, 6 HOLES.            8988'-8992' 3 SPF, 120* PH, 12 HOLES.            8884'-8886' 3 SPF, 120* PH, 6 HOLES.            8836'-8838' 4 SPF, 90* PH, 8 HOLES. [38 HOLES]</p> <p>WHP=1869, BRK DN PERFS @ 6786#, INJ PS=5900#, INJ RT=47.4, ISIP=3459#, FG=.82, PUMP'D 1570 BBLS SLK WTR W/ 65524# 30/50 MESH W/ 5000# RESIN COAT IN TAIL. ISIP=2531#, FG=.72, AR=50.8, AP=4217#, MR=51.5, MP=6830#, NPI=-958#, 38/38 CALC PERFS OPEN.</p> <p>STG #4] P/U RIH W/ HALIBURTON 8K CBP &amp; PERF GUN, SET CBP @ 8774', PERF MESAVERDE USING 3-3/8 EXPEND [SCALLOP] 23GRM, 0.36" HOLE.            8740'-8744' 3 SPF, 120* PH, 12 HOLES.            8654'-8658' 3 SPF, 120* PH, 12 HOLES.            8614'-8620' 3 SPF, 120* PH, 18 HOLES. [42 HOLES]</p> <p>WHP=2247, BRK DN PERFS @ 5838#, INJ PS=4370#, INJ RT=50, ISIP=33207#, FG=.80, PUMP'D 695 BBLS SLK WTR W/ 22626# 30/50 MESH W/ 5000# RESIN COAT IN TAIL. ISIP=2643#, FG=.74, AR=49.9, AP=4099#, MR=50.4, MP=5832#, NPI=-564#, 42/42 CALC PERFS OPEN.            SWIFN.</p>

**RECEIVED** September 15, 2009

**US ROCKIES REGION  
Operation Summary Report**

Well: NBU 922-18O3AS [GREEN] Spud Conductor: 12/17/2008 Spud Date: 2/1/2009  
 Project: UTAH-UINTAH Site: NBU 922-18J PAD Rig Name No: GWS 1/1  
 Event: COMPLETION Start Date: 8/23/2009 End Date: 9/9/2009  
 Active Datum: RKB @4,887.01ft (above Mean Sea Level) UWI: 0/9/S/22/E/18/0/NWSE/6/PM/S/1,413.00/E/0/2,621.00/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
9/2/2009	7:00 -		COMP	36	E	P		<p>STG #5] P/U RIH W/ HALIBURTON 8K CBP &amp; PERF GUN, SET CBP @ 8542 ', PERF MESAVERDE USING 3-3/8 EXPEND [SCALLOP] 23GRM, 0.36" HOLE            8508'-8512' 3 SPF, 120* PH, 12 HOLES.            8458'-8460' 3 SPF, 120* PH, 6 HOLES.            8410'-8412' 3 SPF, 120* PH, 6 HOLES.            8345'-8350' 3 SPF, 120* PH, 15 HOLES. [39 HOLES]</p> <p>WHP=1880, BRK DN PERFS 4.3 @ 2601#, INJ PSI=4025#, INJ RT=48.6, ISIP=2114#, FG=68, PUMP'D 5225 BBLs SLK WTR W/211,079 # 30/50 MESH W/ 5000# RESIN COAT IN TAIL. ISIP=2402#, FG=.72, AR=51.1, AP=3829#, MR=53.6, MP=4792#, NPI=289#, 39/39 - 100% CALC PERFS OPEN.            NOTE - ELEMENATED 1ST SWEEP OF 125 BBLs - SHORT ON WTR.</p> <p>STG #6] P/U RIH W/ HALIBURTON 8K CBP &amp; PERF GUN, SET CBP @ 8306 ', PERF MESAVERDE USING 3-3/8 EXPEND [SCALLOP] 23GRM, 0.36" HOLE.            8274'-8276' 3 SPF, 120* PH, 6 HOLES.            8220'-8224' 3 SPF, 120* PH, 12 HOLES.            8151'-8154' 3 SPF, 120* PH, 9 HOLES.            8076'-8080' 3 SPF, 120* PH, 12 HOLES. [39 HOLES]</p>
9/3/2009	6:40 - 6:56	0.27	COMP	48		P		<p>DAY 6 - HOLD JSA &amp; SM W/FRAC TECH.            WHP=1775 PSI.</p>
	6:56 - 6:56	0.00	COMP	36	E	P		<p>FRAC STG #6 FROM 8076' - 8276'. [39 HOLES]</p> <p>WHP=1775, BRK DN PERFS @ 2247#, INJ PSI=3665#, INJ RT=46.8, ISIP=2032#, FG=68, PUMP'D 5860 BBLs SLK WTR W/ 229,095# 30/50 MESH W/ 5000# RESIN COAT IN TAIL. ISIP=2402#, FG=.73, AR=52.6, AP=4117#, MR=52.9, MP=5844#, NPI=270#, 39/39 100%. CALC PERFS OPEN.</p> <p>STG #7] P/U RIH W/ HALIBURTON 8K CBP &amp; PERF GUN, SET CBP @ 7972 ', PERF MESAVERDE USING 3-3/8 EXPEND [SCALLOP] 23GRM, 0.36" HOLE.            7938'-7942' 4 SPF, 90* PH, 16 HOLES.            7912'-7916' 3 SPF, 120* PH, 12 HOLES.            7858'-7862' 3 SPF, 120* PH, 12 HOLES. [40 HOLES]</p> <p>WHP=2117, BRK DN PERFS 4.7 @ 2919#, INJ PSI=4340#, INJ RT=48, ISIP=2390#, FG=0.74, PUMP'D 683 BBLs SLK WTR W/18,818 # 30/50 MESH W/ 5000# RESIN COAT IN TAIL. ISIP=2484#, FG=0.75, AR=53.7, AP=4029#, MR=54.3, MP=4300#, NPI=94#, 40/40 100% CALC PERFS OPEN.</p> <p>KILL PLUG) RIH W/HALCO 8K CBP &amp; SET @ 7828'. POOH &amp; LD WIRELINE TOOLS. RDMO CUTTERS &amp; FRAC TECH. 15:00 SDFN</p>
9/8/2009	7:00 - 7:30	0.50	COMP	48		P		<p>JSA- RUSU. ND/NU.</p>

**RECEIVED** September 15, 2009

**US ROCKIES REGION  
Operation Summary Report**

Well: NBU 922-1803AS [GREEN] Spud Conductor: 12/17/2008 Spud Date: 2/1/2009  
 Project: UTAH-UJINTAH Site: NBU 922-18J PAD Rig Name No: GWS 1/1  
 Event: COMPLETION Start Date: 8/23/2009 End Date: 9/9/2009  
 Active Datum: RKB @4,887.01ft (above Mean Sea Level) UWI: 0/9/S/22/E/18/0/NWSE/6/PM/S/1,413.00/E/0/2,621.00/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	7:30 - 16:00	8.50	COMP	31	I	P		SPOT AND RUSU. ND FRAC VALVES. NU BOP. RU FLOOR AND TBG EQUIP. SPOT TBG TRAILER. MU 3-7/8" MILL, POBS, 1.87" XN NIPPLE AND RIH AS MEAS AND PU 2-3/8" L-80 TBG. TAG SAND AT 7779'. RU DRLG EQUIP AND LINES. SDFN
9/9/2009	7:00 - 7:30	0.50	COMP	48		P		JSA- BLEEDING OFF PRESSURE.
	7:30 - 17:00	9.50	COMP	44	C	P		P-TEST CSG TO 3000#, GOOD. EST CIRC AND D/O CBP'S.
								#1- C/O 33' SAND TO CBP AT 7828'. D/O PLUG IN 7 MIN. 50# INC. RIH #2- C/O 30' SAND TO CBP AT 7972'. D/O PLUG IN 4 MIN. 0# INC. RIH #3- C/O 30' SAND TO CBP AT 8306'. D/O PLUG IN 4 MIN. 250# INC. RIH #4- C/O 30' SAND TO CBP AT 8542'. D/O PLUG IN 4 MIN. 300# INC. RIH. #5- C/O 35' SAND TO CBP AT 8774'. D/O PLUG IN 4 MIN. 75# INC/ RIH. #6- C/O 75' SAND TO CBP AT 9096'. D/O PLUG IN 6 MIN. 100# INC. RIH #7- C/O 75' SAND TO CBP AT 9382'. D/O PLUG IN 5 MIN. 50# INC. RIH PBTD- C/O 141' SAND TO PBTD AT 9885' W/ 312-JTS IN. (211' RATHOLE)
								W/ 312-JTS IN. CIRC CLEAN. RD PWR SWIVEL. POOH AS LD 20-JTS. PU 4" 10K FMC HANGER. LUB IN AND LAND 292-JTS 2-3/8" L-80 TBG W/ EOT AT 9268.98'. RD FLOOR. ND BOP. DROP BALL. NU WH. PMP 20 BBLs TO RELEASE BIT SUB AT 2500 PSI. CLEAN WORK AREA AND WAIT ON OTHER RIG ON PAD TO BE ABLE TO RDSU. RDSU. MOVE OVER TO YELLOW WELL. RUSU. ND FRAC VALVE. NU BOP. RU FLOOR. SDFN.
								TBG DETAIL KB 26.00 BBLs PMP 16,566 FMC TBG HANGER .83 BBLs RCVR 292-JTS 2-3/8" L-80 9239.95 BBLs LTR 1.87" XN-NIPPLE (FE) 2.20 315 JTS DELIVERED EOT 9268.98 292-JTS LANDED 23-JTS
9/10/2009	7:00 -			33	A			RETURNED 7 AM FLBK REPORT: CP 2300#, TP 1600#, 20/64" CK, 55 BWPH, MEDIUM SAND, - GAS TTL BBLs RECOVERED: 5900 BBLs LEFT TO RECOVER: 10666
9/11/2009	8:50 -		PROD	50				WELL TURNED TO SALE @ 0850 HR ON 9/11/09 - FTP 1700#, CP 3050#, 1.5 MCFD, 45 BWPD, 20/64 CK

**RECEIVED** September 15, 2009

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

**WELL COMPLETION OR RECOMPLETION REPORT AND LOG**

5. Lease Serial No. UTU461

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No. 891008900A

8. Lease Name and Well No. NBU 922-1803AS

9. API Well No. 43-047-39833

10. Field and Pool, or Exploratory NATURAL BUTTES

11. Sec., T., R., M., or Block and Survey or Area Sec 18 T9S R22E Mer

12. County or Parish UINTAH 13. State UT

17. Elevations (DF, KB, RT, GL)\* 4861 GL

14. Date Spudded 12/17/2008 15. Date T.D. Reached 05/15/2009 16. Date Completed 09/11/2009  D & A  Ready to Prod.

18. Total Depth: MD 9940 TVD 9712 19. Plug Back T.D.: MD 9885 TVD 9457 20. Depth Bridge Plug Set: MD TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)  
CBL-CCL-GR, SD, DSN, ACTR, PMTE  
ACBL

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

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

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
20.000	14.000 STEEL	36.7		40		28			
12.250	9.625 J-55	36.0		2848		720			
7.875	4.500 I-80	11.6		9929		1845			

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	9268							

25. Producing Intervals 26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) MESAVERDE	7858	9674	7858 TO 9674	0.360	280	OPEN
B) WSMUD						
C)						
D)						

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

Depth Interval	Amount and Type of Material
7858 TO 9674	PMP 16,566 BBLs SLICK H2O & 655,437 LBS 30/50 OWATTA 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
09/11/2009	09/14/2009	24	→	0.0	2220.0	600.0			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 1675	2600.0	→	0	2220	600		PGW	

28a. Production - Interval B

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

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28b. Production - Interval C

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

28c. Production - Interval D

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

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

30. Summary of Porous Zones (Include Aquifers):

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

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
GREEN RIVER	1736				
MAHOGANY	2470				
WASATCH	5166	7719			
MESAVERDE	7756	9686			

32. Additional remarks (include plugging procedure):

ATTACHED TO THIS COMPLETION REPORT IS THE CHRONOLOGICAL WELL HISTORY AND DIRECTIONAL 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 #75528 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 10/13/2009

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.



# **ANADARKO PETROLEUM CORP.**

**UINTAH COUNTY, UTAH (nad 27)**

**NBU 922-18 PAD IJNOP**

**NBU 922-1803AS**

**1**

**Survey: FINAL**

## **Standard Survey Report**

**15 May, 2009**



**Weatherford®**



Azimuths to Grid North  
 True North: -0.98°  
 Magnetic North: 10.39°  
 Magnetic Field  
 Strength: 52576.2nT  
 Dip Angle: 65.98°  
 Date: 5/1/2009  
 Model: BGGM2008

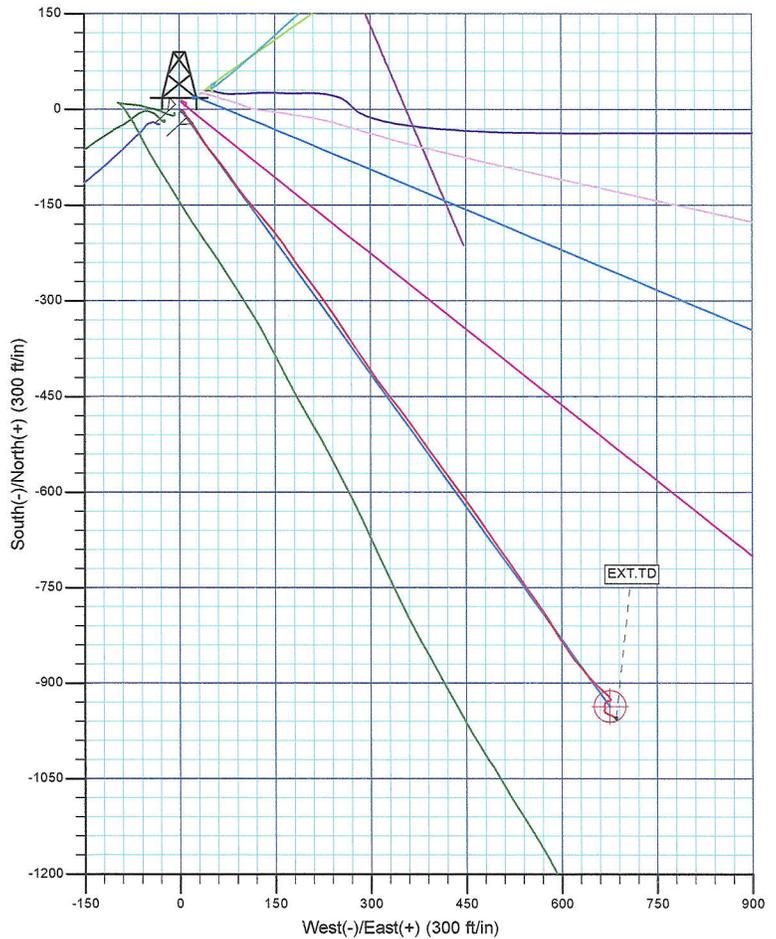
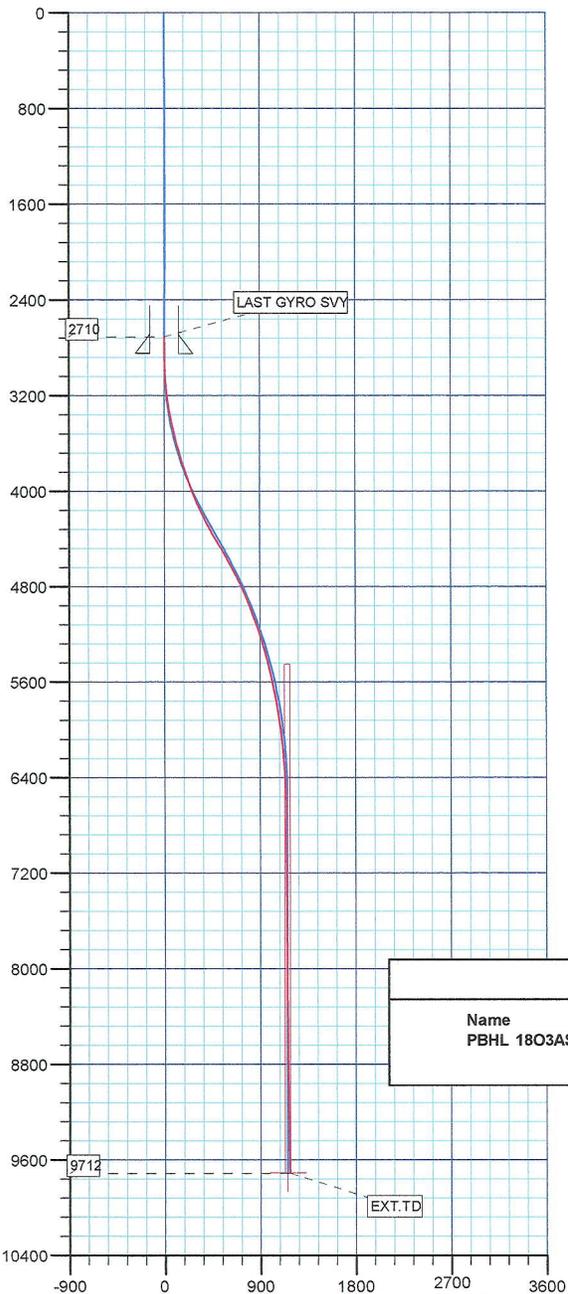
WELL DETAILS: NBU 922-1803AS							
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot	
0.00	0.00	14541541.00	2065363.40	40° 1' 57.403 N	109° 28' 55.048 W		

SECTION DETAILS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
2710.00	0.25	139.11	2709.95	-1.91	2.89	0.00	0.00	3.24	
2948.00	0.25	139.11	2947.94	-2.69	3.57	0.00	0.00	4.27	
4217.90	32.00	144.29	4152.35	-285.24	206.99	2.50	5.22	352.43	
4636.67	32.00	144.29	4507.50	-465.41	336.50	0.00	0.00	574.32	
6769.77	0.00	0.00	6531.45	-936.60	675.20	1.50	180.00	1154.61	
9948.32	0.00	0.00	9710.00	-936.60	675.20	0.00	0.00	1154.61	PBHL 1803AS

FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
4911.00	5096.30	WASATCH
7595.00	7833.32	MESAVERDE



KB ELEV: KB @ 4887.00ft  
GRD ELEV: 4861.00



WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG)									
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape	
PBHL 1803AS	9710.00	-936.60	675.20	14540604.40	2066038.60	40° 1' 48.033 N	109° 28' 46.573 W	Circle (Radius: 25.00)	

**Company:** ANADARKO PETROLEUM CORP.  
**Project:** UINTAH COUNTY, UTAH (nad 27)  
**Site:** NBU 922-18 PAD IJNOP  
**Well:** NBU 922-18O3AS  
**Wellbore:** 1  
**Design:** 1

**Local Co-ordinate Reference:** Well NBU 922-18O3AS  
**TVD Reference:** KB @ 4887.00ft  
**MD Reference:** KB @ 4887.00ft  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM 2003.21 Single User Db

**Project** UINTAH COUNTY, UTAH (nad 27),

**Map System:** Universal Transverse Mercator (US Survey Fee **System Datum:** Mean Sea Level  
**Geo Datum:** NAD 1927 - Western US  
**Map Zone:** Zone 12N (114 W to 108 W)

**Site** NBU 922-18 PAD IJNOP

**Site Position:** **Map** **Northing:** 14,541,517.50ft **Latitude:** 40° 1' 57.176 N  
**From:** **Easting:** 2,065,331.90ft **Longitude:** 109° 28' 55.458 W  
**Position Uncertainty:** 0.00 ft **Slot Radius:** 0.00 in **Grid Convergence:** 0.98 °

**Well** NBU 922-18O3AS, 1413 FSL, 2621 FEL - SEC18 T9S R22E

**Well Position** **+N/-S** 0.00 ft **Northing:** 14,541,541.00 ft **Latitude:** 40° 1' 57.403 N  
**+E/-W** 0.00 ft **Easting:** 2,065,363.40 ft **Longitude:** 109° 28' 55.048 W  
**Position Uncertainty** 0.00 ft **Wellhead Elevation:** ft **Ground Level:** 4,861.00ft

**Wellbore** 1

**Magnetics**

Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
BGGM2008	5/1/2009	11.37	65.98	52,576

**Design** 1

**Audit Notes:**

**Version:** 1.0 **Phase:** ACTUAL **Tie On Depth:** 0.00

**Vertical Section:**

Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
0.00	0.00	0.00	144.21

**Survey Program** **Date** 5/15/2009

From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
100.00	2,710.00	Survey #1 (1)	Gyrodata RGS_WB	GyroCompass Mode
2,881.00	9,940.00	Survey #2 (1)	MWD	MWD - Standard

**Survey**

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
2,710.00	0.25	139.11	2,709.95	-1.91	2.89	3.24	0.00	0.00	0.00
2,881.00	0.84	43.26	2,880.94	-1.28	3.99	3.37	0.53	0.35	-56.05
2,944.00	1.51	111.86	2,943.93	-1.25	5.08	3.98	2.28	1.06	108.89
3,039.00	4.01	156.75	3,038.82	-4.77	7.55	8.29	3.29	2.63	47.25
3,134.00	6.75	141.39	3,133.40	-12.18	12.35	17.11	3.23	2.88	-16.17
3,229.00	7.50	142.02	3,227.66	-21.43	19.65	28.88	0.79	0.79	0.66
3,324.00	11.56	149.77	3,321.34	-34.55	28.26	44.55	4.47	4.27	8.16
3,418.00	13.19	145.77	3,413.15	-51.56	39.04	64.65	1.96	1.73	-4.26
3,513.00	14.75	141.27	3,505.34	-69.95	52.70	87.57	2.00	1.64	-4.74
3,608.00	16.44	142.39	3,596.84	-90.04	68.47	113.08	1.81	1.78	1.18
3,702.00	18.88	145.89	3,686.41	-113.17	85.12	141.58	2.83	2.60	3.72
3,797.00	19.69	141.77	3,776.08	-138.47	103.65	172.94	1.67	0.85	-4.34

**Company:** ANADARKO PETROLEUM CORP.  
**Project:** UINTAH COUNTY, UTAH (nad 27)  
**Site:** NBU 922-18 PAD IJNOP  
**Well:** NBU 922-18O3AS  
**Wellbore:** 1  
**Design:** 1

**Local Co-ordinate Reference:** Well NBU 922-18O3AS  
**TVD Reference:** KB @ 4887.00ft  
**MD Reference:** KB @ 4887.00ft  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM 2003.21 Single User Db

**Survey**

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
3,892.00	21.00	138.39	3,865.15	-163.77	124.86	205.87	1.85	1.38	-3.56
3,987.00	22.38	141.14	3,953.43	-190.59	147.51	240.86	1.80	1.45	2.89
4,082.00	24.48	146.54	4,040.60	-221.10	169.71	278.60	3.16	2.21	5.68
4,177.00	27.31	143.64	4,126.06	-255.08	193.49	320.07	3.26	2.98	-3.05
4,271.00	28.75	143.27	4,209.03	-290.56	219.80	364.24	1.54	1.53	-0.39
4,366.00	30.31	146.52	4,291.69	-328.87	246.69	411.04	2.35	1.64	3.42
4,461.00	33.75	146.64	4,372.22	-370.92	274.43	461.37	3.62	3.62	0.13
4,556.00	35.19	145.27	4,450.54	-415.46	304.54	515.11	1.72	1.52	-1.44
4,651.00	31.44	141.02	4,529.92	-457.24	335.74	567.24	4.65	-3.95	-4.47
4,745.00	30.88	145.02	4,610.37	-496.07	364.99	615.85	2.28	-0.60	4.26
4,840.00	30.75	144.64	4,691.96	-535.85	393.02	664.51	0.25	-0.14	-0.40
4,935.00	28.38	143.52	4,774.58	-573.81	420.50	711.38	2.56	-2.49	-1.18
5,029.00	24.63	143.77	4,858.69	-607.59	445.37	753.32	3.99	-3.99	0.27
5,123.00	24.31	145.02	4,944.24	-639.24	468.04	792.25	0.65	-0.34	1.33
5,218.00	23.06	146.27	5,031.24	-670.74	489.58	830.40	1.42	-1.32	1.32
5,312.00	21.74	144.21	5,118.15	-700.17	509.99	866.21	1.63	-1.40	-2.19
5,406.00	19.75	145.89	5,206.05	-727.45	529.08	899.49	2.21	-2.12	1.79
5,502.00	18.06	145.52	5,296.87	-753.15	546.60	930.59	1.76	-1.76	-0.39
5,597.00	16.75	144.89	5,387.52	-776.48	562.81	959.00	1.39	-1.38	-0.66
5,692.00	15.06	147.52	5,478.88	-798.10	577.31	985.01	1.93	-1.78	2.77
5,787.00	14.00	150.52	5,570.84	-818.51	589.60	1,008.75	1.37	-1.12	3.16
5,882.00	12.94	144.77	5,663.23	-837.21	601.39	1,030.81	1.80	-1.12	-6.05
5,976.00	11.88	146.52	5,755.03	-853.87	612.80	1,051.01	1.20	-1.13	1.86
6,071.00	10.19	138.89	5,848.28	-868.36	623.72	1,069.15	2.35	-1.78	-8.03
6,166.00	9.50	140.14	5,941.88	-880.71	634.27	1,085.33	0.76	-0.73	1.32
6,260.00	7.31	139.05	6,034.86	-891.18	643.16	1,099.03	2.34	-2.33	-1.16
6,355.00	7.00	138.27	6,129.12	-900.07	650.97	1,110.81	0.34	-0.33	-0.82
6,449.00	5.69	131.89	6,222.54	-907.46	658.26	1,121.06	1.58	-1.39	-6.79
6,543.00	5.06	128.52	6,316.13	-913.15	664.97	1,129.60	0.75	-0.67	-3.59
6,638.00	4.63	135.27	6,410.79	-918.48	670.94	1,137.42	0.75	-0.45	7.11
6,732.00	3.19	146.14	6,504.57	-923.35	675.07	1,143.78	1.72	-1.53	11.56
6,826.00	1.31	182.39	6,598.50	-926.60	676.48	1,147.24	2.41	-2.00	38.56
6,921.00	1.38	273.02	6,693.48	-927.62	675.30	1,147.38	2.01	0.07	95.40
7,015.00	1.38	263.14	6,787.45	-927.70	673.04	1,146.12	0.25	0.00	-10.51
7,108.00	1.06	231.89	6,880.43	-928.36	671.25	1,145.61	0.78	-0.34	-33.60
7,203.00	1.29	223.28	6,975.41	-929.68	669.83	1,145.85	0.30	0.24	-9.06
7,297.00	1.00	221.27	7,069.40	-931.07	668.56	1,146.24	0.31	-0.31	-2.14
7,392.00	0.88	208.14	7,164.38	-932.33	667.67	1,146.74	0.26	-0.13	-13.82
7,487.00	0.75	200.77	7,259.37	-933.56	667.11	1,147.41	0.18	-0.14	-7.76
7,582.00	0.69	189.64	7,354.37	-934.70	666.79	1,148.15	0.16	-0.06	-11.72
7,676.00	0.50	177.77	7,448.36	-935.67	666.71	1,148.89	0.24	-0.20	-12.63
7,770.00	0.75	174.14	7,542.35	-936.69	666.79	1,149.76	0.27	0.27	-3.86
7,865.00	0.75	183.14	7,637.35	-937.93	666.82	1,150.79	0.12	0.00	9.47
7,959.00	0.50	156.52	7,731.34	-938.92	666.95	1,151.67	0.40	-0.27	-28.32
8,054.00	0.69	161.64	7,826.34	-939.85	667.30	1,152.62	0.21	0.20	5.39
8,149.00	0.50	208.52	7,921.33	-940.75	667.28	1,153.34	0.53	-0.20	49.35
8,244.00	0.75	200.14	8,016.33	-941.70	666.87	1,153.87	0.28	0.26	-8.82
8,339.00	0.56	207.39	8,111.32	-942.70	666.44	1,154.43	0.22	-0.20	7.63
8,433.00	0.63	141.39	8,205.32	-943.51	666.55	1,155.15	0.69	0.07	-70.21
8,527.00	0.75	156.64	8,299.31	-944.48	667.12	1,156.27	0.23	0.13	16.22
8,716.00	0.25	186.77	8,488.30	-946.02	667.56	1,157.78	0.29	-0.26	15.94
8,811.00	0.31	126.89	8,583.30	-946.38	667.74	1,158.18	0.30	0.06	-63.03
8,905.00	0.56	121.89	8,677.30	-946.78	668.33	1,158.85	0.27	0.27	-5.32
9,000.00	0.75	124.77	8,772.29	-947.38	669.24	1,159.86	0.20	0.20	3.03

**Company:** ANADARKO PETROLEUM CORP.  
**Project:** UINTAH COUNTY, UTAH (nad 27)  
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**Wellbore:** 1  
**Design:** 1

**Local Co-ordinate Reference:** Well NBU 922-18O3AS  
**TVD Reference:** KB @ 4887.00ft  
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**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM 2003.21 Single User Db

**Survey**

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
9,095.00	1.44	112.02	8,867.27	-948.18	670.85	1,161.46	0.77	0.73	-13.42
9,189.00	0.94	130.64	8,961.25	-949.13	672.54	1,163.21	0.67	-0.53	19.81
9,286.00	0.88	115.77	9,058.24	-949.97	673.81	1,164.64	0.25	-0.06	-15.33
9,381.00	0.85	90.69	9,153.23	-950.29	675.17	1,165.70	0.40	-0.03	-26.40
9,476.00	1.00	109.02	9,248.22	-950.57	676.66	1,166.79	0.35	0.16	19.29
9,571.00	1.00	120.39	9,343.20	-951.26	678.16	1,168.23	0.21	0.00	11.97
9,666.00	1.44	126.27	9,438.18	-952.39	679.84	1,170.12	0.48	0.46	6.19
9,760.00	1.31	112.39	9,532.16	-953.50	681.78	1,172.16	0.38	-0.14	-14.77
9,855.00	1.44	111.27	9,627.13	-954.34	683.90	1,174.08	0.14	0.14	-1.18
9,888.00	1.31	114.52	9,660.12	-954.65	684.63	1,174.76	0.46	-0.39	9.85
<b>EXT.TD</b>									
9,940.00	1.31	114.52	9,712.10	-955.14	685.71	1,175.79	0.00	0.00	0.00

**Survey Annotations**

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
9,940.00	9,712.10	-955.14	685.71	EXT.TD

Checked By: \_\_\_\_\_ Approved By: \_\_\_\_\_ Date: \_\_\_\_\_

# Weatherford Drilling Services

## DIRECTIONAL PLAN REPORT



Weatherford

<b>Company:</b> Anadarko-Kerr-McGee	<b>Date:</b> 9/27/2007	<b>Time:</b> 15:53:42	<b>Page:</b> 2
<b>Field:</b> UINTAH COUNTY, UTAH (UTM Zone 12N-NAD 27)	<b>Co-ordinate(NE) Reference:</b>	<b>Site:</b> NBU 922-1803AS PAD IJNOP	
<b>Site:</b> NBU 922-1803AS PAD IJNOP	<b>Vertical (TVD) Reference:</b>	<b>SITE</b> 4876.0	
<b>Well:</b> 1803AS	<b>Section (VS) Reference:</b>	<b>Well</b> (0.00N,0.00E,144.21Azi)	
<b>Wellpath:</b> 1	<b>Survey Calculation Method:</b>	Minimum Curvature	<b>Db:</b> Sybase

**Survey**

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	MapN ft	MapE ft	Comment
1900.00	10.00	144.21	1888.85	-126.95	91.52	156.50	0.00	14541414.05	2065454.92	
2000.00	10.00	144.21	1987.33	-141.04	101.68	173.87	0.00	14541399.96	2065465.08	
2100.00	10.00	144.21	2085.82	-155.13	111.83	191.23	0.00	14541385.87	2065475.23	
2200.00	10.00	144.21	2184.30	-169.21	121.99	208.60	0.00	14541371.79	2065485.39	
2300.00	10.00	144.21	2282.78	-183.30	132.14	225.96	0.00	14541357.70	2065495.54	
2400.00	10.00	144.21	2381.26	-197.38	142.30	243.33	0.00	14541343.62	2065505.70	
2500.00	10.00	144.21	2479.74	-211.47	152.45	260.69	0.00	14541329.53	2065515.85	
2600.00	10.00	144.21	2578.22	-225.56	162.61	278.06	0.00	14541315.44	2065526.01	
2700.00	10.00	144.21	2676.70	-239.64	172.76	295.42	0.00	14541301.36	2065536.16	
2723.66	10.00	144.21	2700.00	-242.98	175.16	299.53	0.00	14541298.02	2065538.56	9 5/8"
2800.00	10.00	144.21	2775.18	-253.73	182.91	312.79	0.00	14541287.27	2065546.31	
2825.20	10.00	144.21	2800.00	-257.28	185.47	317.16	0.00	14541283.72	2065548.87	BUILD
2900.00	11.87	144.21	2873.44	-268.79	193.77	331.35	2.50	14541272.21	2065557.17	
3000.00	14.37	144.21	2970.82	-287.20	207.04	354.05	2.50	14541253.80	2065570.44	
3100.00	16.87	144.21	3067.12	-309.04	222.79	380.97	2.50	14541231.96	2065586.19	
3200.00	19.37	144.21	3162.15	-334.27	240.97	412.07	2.50	14541206.73	2065604.37	
3300.00	21.87	144.21	3255.74	-362.83	261.57	447.29	2.50	14541178.17	2065624.97	
3400.00	24.37	144.21	3347.70	-394.68	284.53	486.55	2.50	14541146.32	2065647.93	
3467.63	26.06	144.21	3408.88	-418.05	301.38	515.36	2.50	14541122.95	2065664.78	HOLD
3500.00	26.06	144.21	3437.96	-429.59	309.69	529.58	0.00	14541111.41	2065673.09	
3600.00	26.06	144.21	3527.79	-465.22	335.38	573.51	0.00	14541075.78	2065698.78	
3700.00	26.06	144.21	3617.63	-500.86	361.07	617.44	0.00	14541040.14	2065724.47	
3800.00	26.06	144.21	3707.46	-536.50	386.77	661.38	0.00	14541004.50	2065750.17	
3900.00	26.06	144.21	3797.29	-572.14	412.46	705.31	0.00	14540968.86	2065775.86	
4000.00	26.06	144.21	3887.13	-607.77	438.15	749.24	0.00	14540933.23	2065801.55	
4038.72	26.06	144.21	3921.91	-621.57	448.10	766.25	0.00	14540919.43	2065811.50	DROP
4100.00	25.14	144.21	3977.17	-643.05	463.58	792.73	1.50	14540897.95	2065826.98	
4200.00	23.64	144.21	4068.24	-676.55	487.73	834.03	1.50	14540864.45	2065851.13	
4300.00	22.14	144.21	4160.37	-708.10	510.48	872.92	1.50	14540832.90	2065873.88	
4400.00	20.64	144.21	4253.47	-737.69	531.80	909.40	1.50	14540803.31	2065895.20	
4500.00	19.14	144.21	4347.51	-765.29	551.70	943.42	1.50	14540775.71	2065915.10	
4600.00	17.64	144.21	4442.39	-790.88	570.15	974.97	1.50	14540750.12	2065933.55	
4700.00	16.14	144.21	4538.08	-814.45	587.14	1004.02	1.50	14540726.55	2065950.54	
4800.00	14.64	144.21	4634.49	-835.98	602.66	1030.57	1.50	14540705.02	2065966.06	
4900.00	13.14	144.21	4731.56	-855.45	616.70	1054.57	1.50	14540685.55	2065980.10	
5000.00	11.64	144.21	4829.23	-872.86	629.25	1076.03	1.50	14540668.14	2065992.65	
5083.31	10.39	144.21	4911.00	-885.78	638.56	1091.95	1.50	14540655.22	2066001.96	WASATCH
5100.00	10.14	144.21	4927.42	-888.19	640.30	1094.93	1.50	14540652.81	2066003.70	
5200.00	8.64	144.21	5026.08	-901.43	649.84	1111.24	1.50	14540639.57	2066013.24	
5300.00	7.14	144.21	5125.13	-912.56	657.87	1124.97	1.50	14540628.44	2066021.27	
5400.00	5.64	144.21	5224.51	-921.59	664.38	1136.10	1.50	14540619.41	2066027.78	
5500.00	4.14	144.21	5324.14	-928.51	669.37	1144.63	1.50	14540612.49	2066032.77	
5600.00	2.64	144.21	5423.96	-933.31	672.83	1150.55	1.50	14540607.69	2066036.23	
5700.00	1.14	144.21	5523.90	-935.99	674.76	1153.85	1.50	14540605.01	2066038.16	
5776.10	0.00	0.00	5600.00	-936.60	675.20	1154.61	1.50	14540604.40	2066038.60	HOLD
5800.00	0.00	0.00	5623.90	-936.60	675.20	1154.61	0.00	14540604.40	2066038.60	
5900.00	0.00	0.00	5723.90	-936.60	675.20	1154.61	0.00	14540604.40	2066038.60	
6000.00	0.00	0.00	5823.90	-936.60	675.20	1154.61	0.00	14540604.40	2066038.60	
6100.00	0.00	0.00	5923.90	-936.60	675.20	1154.61	0.00	14540604.40	2066038.60	
6200.00	0.00	0.00	6023.90	-936.60	675.20	1154.61	0.00	14540604.40	2066038.60	
6300.00	0.00	0.00	6123.90	-936.60	675.20	1154.61	0.00	14540604.40	2066038.60	
6400.00	0.00	0.00	6223.90	-936.60	675.20	1154.61	0.00	14540604.40	2066038.60	

# Greater Natural Buttes Unit



**NBU 922-1803AS**  
**RE-COMPLETIONS PROCEDURE**

**DATE:7/23/2010**  
**AFE#:2047239**

**COMPLETIONS ENGINEER:** Conner Staley, Denver, CO  
(720)-929-6419 (Office)

**SIGNATURE:**

**ENGINEERING MANAGER:** JEFF DUFRESNE

**SIGNATURE:**

**REMEMBER SAFETY FIRST!**

**RECEIVED** August 03, 2010

**Name:** NBU 922-1803AS  
**Location:** NE SW SW SE Sec. 18 T9S R22E  
**Uintah County, UT**  
**Date:** 7/23/2010

**ELEVATIONS:** 4861 GL 4887 KB

**TOTAL DEPTH:** 9940 **PBTD:** 9885  
**SURFACE CASING:** 9 5/8", 36# J-55 ST&C @ 2848'  
**PRODUCTION CASING:** 4 1/2", 11.6#, I-80 LT&C @ 9929'  
 Marker Joint **4904-4925'**

**TUBULAR PROPERTIES:**

	BURST (psi)	COLLAPSE (psi)	DRIFT DIA. (in.)	CAPACITIES	
				(bbl/ft)	(gal/ft)
2 3/8" 4.7# J-55 tbg	7,700	8,100	1.901"	0.00387	0.1624
4 1/2" 11.6# I-80 (See above)	7780	6350	3.875"	0.0155	0.6528
2 3/8" by 4 1/2" Annulus				0.0101	0.4227

**TOPS:**

1736' Green River  
 1958' Birds Nest  
 2470' Mahogany  
 4735' Wasatch  
 7419' Mesaverde  
 9940' Bottom of Mesaverde (TD)

CBL indicates good cement below 1000'

**GENERAL:**

- A minimum of **10** tanks (cleaned lined 500 bbl) of recycled water will be required. Note: Use biocide in tanks and the water needs to be at least 45°F at pump time.
- All perforation depths are from Halliburtons Induction-Density-Neutron log dated 5/15/09
- **3** fracturing stages required for coverage.
- Procedure calls for **4** CBP's (**8000** psi).
- Calculate open perforations after each breakdown. If less than 60% of the perforations appear to be open, ball out with 15% HCl.
- Pump scale inhibitor at 3 gal/1000 during pad and sand ramp up to 1.25 ppg. Pump at 10 gal/1000 during flush.
- 30/50 mesh Ottawa sand, **Slickwater frac.**
- Maximum surface pressure **7000** psi.
- Flush volumes are the sum of slick water and acid used during displacement (include scale inhibitor as mentioned above). Stage acid and scale inhibitor if necessary to cover the next perforated interval.

- **Call flush at 0 PPG @ inline densimeters. Slow to 5 bbl/min over last 10-20 bbls of flush. Flush to top perf.**
- **If distance between plug and top perf of previous stage is less than 50', it is considered to be tight spacing - over flush stage by 5 bbls (from top perf)**
- Service companies need to provide surface/production annulus pop-offs to be set for 1500 psi for each frac.
- Pump a **curable resin coated sand (such as SLC)** last 5,000# of all frac stages
- Tubing Currently Landed @~9269
- Originally completed on 8/19/09

**Existing Perforations:**

Zone	Perfs		SPF	Holes
	Top, ft.	Bot., ft		
MESAVERDE	7858	7862	3	12
MESAVERDE	7912	7916	3	12
MESAVERDE	7938	7942	4	16
MESAVERDE	8076	8080	3	12
MESAVERDE	8151	8154	3	9
MESAVERDE	8220	8224	3	12
MESAVERDE	8274	8276	3	6
MESAVERDE	8345	8350	3	15
MESAVERDE	8410	8412	3	6
MESAVERDE	8458	8460	3	6
MESAVERDE	8508	8512	3	12
MESAVERDE	8614	8620	3	18
MESAVERDE	8654	8658	3	12
MESAVERDE	8740	8744	3	12
MESAVERDE	8836	8838	4	8
MESAVERDE	8884	8886	3	6
MESAVERDE	8988	8992	3	12
MESAVERDE	9016	9018	3	6
MESAVERDE	9064	9066	3	6
MESAVERDE	9300	9304	4	16
MESAVERDE	9340	9346	4	24
MESAVERDE	9496	9500	3	12
MESAVERDE	9524	9528	3	12
MESAVERDE	9668	9674	3	18

**PROCEDURE:**

1. MIRU. Control well with recycled water and biocide as required. ND WH, NU BOP's and test.
2. TOOH with 2-3/8", 4.7#, J-55 (or N-80) tubing (currently landed at ~9269'). Visually inspect for scale and consider replacing if needed.
3. If tbg looks ok consider running a gauge ring to 6974 (50' below proposed CBP). Otherwise P/U a mill and C/O to 6974 (50' below proposed CBP).
4. Set 8000 psi CBP at ~ 6924'. Pressure test BOP and casing to 6000 psi. .
5. Perf the following with 3-3/8" gun, 23 gm, 0.36"hole:

Zone	From	To	spf	# of shots
WASATCH	6886	6894	4	32
6. Breakdown perfs and establish injection rate (include scale inhibitor in fluid). Spot 250 gal of 15% HCl and let soak. Fracture as outlined in Stage 1 on attached listing. Under-displace to ~6886' and trickle 250gal 15%HCL w/ scale inhibitor in flush .
7. Set 8000 psi CBP at ~6744'. Perf the following 3-3/8" gun, 23 gm, 0.36"hole:

Zone	From	To	spf	# of shots
WASATCH	6598	6600	3	6
WASATCH	6622	6626	3	12
WASATCH	6676	6680	3	12
WASATCH	6712	6714	4	8
8. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 2 on attached listing. Under-displace to ~6598' and trickle 250gal 15%HCL w/ scale inhibitor in flush.
9. Set 8000 psi CBP at ~6004'. Perf the following with 3-3/8" gun, 23 gm, 0.36" hole:

Zone	From	To	spf	# of shots
WASATCH	5966	5974	4	32
10. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 3 on attached listing. Under-displace to ~5966' flush only with recycled water.
11. Set 8000 psi CBP at~5916'.
12. TIH with 3 7/8" mill, pump off sub, SN and tubing.
13. Mill ALL plugs and clean out to PBSD at 9885. Land tubing at ±9269' pump off bit and bit sub. This well WILL be commingled at this time.
14. Clean out well with foam and/or swabbing unit until steady flow has been established from recomplete.
15. RDMO

For design questions, please call  
**Conner Staley, Denver, CO**  
**(720)-929-6419 (Office)**

For field implementation questions, please call  
**Jeff Samuels Vernal, UT**  
**435-781-9770 (Office)**

NOTES:

**Name** NBU 922-1803AS  
**Perforation and CBP Summary**

Stage	Zones	Perforations		SPF	Holes	Fracture Coverage		
		Top, ft	Bottom, ft					
1	WASATCH	6886	6894	4	32	6864.5	to	6912
	WASATCH							
	WASATCH							
	WASATCH							
	WASATCH							
	WASATCH							
	WASATCH							
	# of Perfs/stage				Look 32	CBP DEPTH	6,744	
2	WASATCH	6598	6600	3	6	6585.5	to	6603.5
	WASATCH	6622	6626	3	12	6606.5	to	6617
	WASATCH	6676	6680	3	12	6621	to	6630.5
	WASATCH	6712	6714	4	8	6674	to	6683
	WASATCH					6711	to	6718
	WASATCH							
	WASATCH							
	# of Perfs/stage				Look 38	CBP DEPTH	6,004	
3	WASATCH	5966	5974	4	32	5951	to	5999.5
	WASATCH							
	WASATCH							
	WASATCH							
	WASATCH							
	WASATCH							
	WASATCH							
	# of Perfs/stage				Look 32	CBP DEPTH	5,916	
	Totals				102			



<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-0461
<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 922-1803AS
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.	<b>9. API NUMBER:</b> 43047398330000
<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> 1442 FSL 2580 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWSE Section: 18 Township: 09.0S Range: 22.0E 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: 8/3/2010  <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 type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR  <input type="checkbox"/> CHANGE WELL NAME  <input type="checkbox"/> CONVERT WELL TYPE  <input type="checkbox"/> NEW CONSTRUCTION  <input type="checkbox"/> PLUG BACK  <input checked="" type="checkbox"/> RECOMPLETE DIFFERENT FORMATION  <input type="checkbox"/> TEMPORARY ABANDON  <input type="checkbox"/> WATER DISPOSAL  <input type="checkbox"/> APD EXTENSION  OTHER: <input style="width: 100px;" type="text"/>

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

THE OPERATOR REQUESTS AUTHORIZATION TO RECOMPLETE THE SUBJECT WELL LOCATION. THE OPERATOR PROPOSES TO RECOMPLETE THE WASATCH FORMATION. THE OPERATOR REQUESTS AUTHORIZATION TO COMMINGLE THE NEWLY WASATCH WITH THE EXISTING MESAVERDE FORMATION. PLEASE REFER TO THE ATTACHED RECOMPLETION PROCEDURE.

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

Date: August 19, 2010  
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> 8/3/2010



**The Utah Division of Oil, Gas, and Mining**

- State of Utah
- Department of Natural Resources

**Electronic Permitting System - Sundry Notices**

**Sundry Conditions of Approval Well Number 43047398330000**

**Authorization: Board Cause No. 173-14.**

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

**Date:** August 19, 2010  
**By:** *David K. Quist*

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<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>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-0461
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<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.		<b>7. UNIT or CA AGREEMENT NAME:</b> NATURAL BUTTES
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		<b>8. WELL NAME and NUMBER:</b> NBU 922-1803AS
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 1442 FSL 2580 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWSE Section: 18 Township: 09.0S Range: 22.0E Meridian: S		<b>9. API NUMBER:</b> 43047398330000
<b>PHONE NUMBER:</b> 720 929-6515 Ext		<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES
<b>COUNTY:</b> UINTAH		<b>STATE:</b> UTAH
<b>11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA</b>		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input checked="" type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 7/26/2011	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER: <input style="width: 50px;" type="text"/>	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input checked="" type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION	
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION	
<b>12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.</b>		
THE OPERATOR HAS PERFORMED A RECOMPLETION ON THE SUBJECT WELL. THE OPERATOR HAS RECOMPLETED THE WASATCH FORMATION. THE OPERATOR HAS COMMINGLED THE NEWLY WASATCH FORMATION ALONG WITH THE EXISTING MESAVERDE FORMATION. THE SUBJECT WELL WAS PLACED ON PRODUCTION ON 07/26/2011 AT 6:00 PM. THE CHRONOLOGICAL WELL HISTORY WILL BE SUBMITTED WITH THE WELL COMPLETION REPORT.		
<b>Accepted by the Utah Division of Oil, Gas and Mining</b> <b>FOR RECORD ONLY</b>		
<b>NAME (PLEASE PRINT)</b> Sheila Wopsock	<b>PHONE NUMBER</b> 435 781-7024	<b>TITLE</b> Regulatory Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 7/27/2011	

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

**WELL COMPLETION OR RECOMPLETION REPORT AND LOG**

5. Lease Serial No.  
UTU461

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

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.  
UTU63047A

2. Name of Operator **KERR MCGEE OIL & GAS ONSHORE** Contact: GINA T. BECKER  
 Email: gina.becker@anadarko.com

8. Lease Name and Well No.  
NBU 922-18O3AS

3. Address **POBOX 173779 DENVER, CO 80217** 3a. Phone No. (include area code)  
 Ph: 720-929-6086

9. API Well No.  
43-047-39833

4. Location of Well (Report location clearly and in accordance with Federal requirements)\*  
 At surface **NWSE 1442FSL 2580FEL 40.032577 N Lat, 109.482644 W Lon**  
 At top prod interval reported below **SWSE 505FSL 1913FEL**  
 At total depth **SWSE 487FSL 1894FEL**

10. Field and Pool, or Exploratory  
NATURAL BUTTES

11. Sec., T., R., M., or Block and Survey  
or Area **Sec 18 T9S R22E Mer SLB**

12. County or Parish **UINTAH** 13. State **UT**

14. Date Spudded **12/17/2008** 15. Date T.D. Reached **05/15/2009** 16. Date Completed  
 D & A  Ready to Prod.  
**07/26/2011**

17. Elevations (DF, KB, RT, GL)\*  
4861 GL

18. Total Depth: MD **9940** TVD **9712** 19. Plug Back T.D.: MD **9885** TVD **9657** 20. Depth Bridge Plug Set: MD **TVD**

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)  
**CBL-CCL-GR** *Original Logs* 22. Was well cored?  No  Yes (Submit analysis)  
 Was DST run?  No  Yes (Submit analysis)  
 Directional Survey?  No  Yes (Submit analysis)

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

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
20.000	14.000 STL	36.7		40		28			
12.250	9.625 J-55	36.0		2848		720		0	
7.875	4.500 I-80	11.6		9929		1845		600	

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	9265							

25. Producing Intervals 26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) WASATCH	5968	6894	5968 TO 6894	0.360	72	OPEN
B)						
C)						
D)						

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

Depth Interval	Amount and Type of Material
5968 TO 6894	PUMP 2,821 BBLs SLICK H2O 82,606 LBS SAND

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
07/26/2011	08/12/2011	24	▶	10.0	1210.0	21.0			FLOWS FROM WELL
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
26/64	SI 133	521.0	▶	10	1210	21		PGW	

28a. Production - Interval B

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

**RECEIVED**  
SEP 07 2011

DIV. OF OIL, GAS & MINING

28b. Production - Interval C

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

28c. Production - Interval D

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

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

30. Summary of Porous Zones (Include Aquifers):

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

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
GREEN RIVER	1747				
BIRD'S NEST	1982				
MAHOGANY	2509				
WASATCH	5133	7857			
MESAVERDE	7857	9940			

32. Additional remarks (include plugging procedure):  
Attached is the chronological recompletion history and perforation report.

33. Circle enclosed attachments:

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

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

**Electronic Submission #116246 Verified by the BLM Well Information System.  
For KERR MCGEE OIL & GAS ONSHORE, L, sent to the Vernal**

Name (please print) GINA T. BECKER Title REGULATORY ANALYST

Signature (Electronic Submission) Date 08/26/2011

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

**\*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\***

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

Well: NBU 922-18O3AS [red****)		Spud Conductor: 12/17/2008	Spud Date: 2/1/2009
Project: UTAH-UINTAH		Site: NBU 922-18K PAD	Rig Name No: GWS 1/1
Event: RECOMPL/RESEREVEADD		Start Date: 7/12/2011	End Date: 8/9/2011
Active Datum: RKB @4,887.00ft (above Mean Sea Level)		UWI: NW/SE/0/9/S/22/E/18/0/0/6/PM/S/1,442.00/E/0/2,580.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
7/15/2011	7:00 -		COMP	30	A	P		<p>7AM [DAY 1] JSA-- R/U RIG, NDWH, NUBOP, POOH L/D TBG.</p> <p>FCP=85, FTP=85. BLEW WELL DOWN. KILL TBG W/ 40 BBLS TMAC. EOT @ 9269'. NDWH, NUBOP. R/U FLOOR &amp; TBG EQUIPMENT. L/D TBG HANGER.</p> <p>MIRU SCAN TECH. POOH SCANNING 2-3/8" L-80 TBG &amp; L/D ON SILLS ON LOCATION. PULLING 81K COMING OFF BTM. SCAN 293 JTS. LIGHT SCALE ID OFF &amp; ON THRU OUT STRING. ALL WAS DRIFTED W/ 1.90 DRIFT. XN WAS NOT PLUGGED. LIGHT TO MEDIUM SCALE IN XN. L/D 27 RED JTS W/ UPTO 61% WALL LOSS. LIGHT OD SCALE ON BTM 20+- JTS. WILL CHECK NORM READINGS ON MIONDAY 7/18/11. NORM READING OF 20 TO 50</p> <p>RDMO SCAN TECH. TOTAL PMPD=40 BBLS.</p> <p>5 PM SDF-WE. LEAVE WELL OPEN TO SALES. PREP TO SET ISOLATION CBP ON MONDAY 7/18/11.</p>
	10:00 - 1:00		COMP	33	C	P		<p>RU B &amp; C QUICK TEST</p> <p>TEST CSG &amp; FRAC VALVES TO 1000 PSI FOR 15 MIN LOST 0 PSI</p> <p>TEST CSG &amp; FRAC VALVES TO 3500 PSI FOR 15 MIN LOST 12 PSI</p> <p>TEST CSG &amp; FRAC VALVES TO 6200 PSI FOR 30 MIN LOST 31 PSI</p>
7/18/2011	7:00 - 10:00	3.00	COMP	30		P		<p>7AM [DAY 2] JSA--R/U &amp; R/D W.L. R/U &amp; R/D RIG. NDBOP, NUFV. PSI.</p> <p>MIRU C.H.S. WE-FCP=60#. RIH W/ HALL 10K CBP &amp; SET @ 6924'. RDMO C.H.S. R/D FLOOR. NDBOP, NUFV. FILL CSG W/ 95 BBLS TMAC. P.T. TO 500#, TOP HCR VALVE LEAKING. CALL FOR VALVE REPAIR/REPLACE.</p> <p>10 AM RDMO. PREP TO FRAC</p>

**US ROCKIES REGION  
Operation Summary Report**

Well: NBU 922-18O3AS [red\*\*\*\*) Spud Conductor: 12/17/2008 Spud Date: 2/1/2009  
 Project: UTAH-UINTAH Site: NBU 922-18K PAD Rig Name No: GWS 1/1  
 Event: RECOMPL/RESEREVEADD Start Date: 7/12/2011 End Date: 8/9/2011  
 Active Datum: RKB @4,887.00ft (above Mean Sea Level) UWI: NW/SE/0/9/S/22/E/18/0/0/6/PM/S/1,442.00/E/0/2,580.00/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
7/20/2011	7:00 - 18:00	11.00	COMP	36		P		<p>PERF STG 1)PU 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH PERF AS PER PERF DESIGN. POOH.X-OVER FOR FRAC CREW</p> <p>FRAC STG 1)WHP 213 PSI, BRK 1968 PSI @ 4.4 BPM. ISIP 1288 PSI, FG .63            PUMP 100 BBLS @ 50.2 BPM @ 4401 PSI = 82% HOLES OPEN.            ISIP 1787 PSI, FG .64, NPI 99 PSI.            MP 5513 PSI, MR 50.7 BPM, AP 4304 PSI, AR 50.1 BPM,            PMP 973 BBLS SW &amp; 26,784 LBS OF 30/50 SND &amp; NO RESIN SND.TOTAL PROP 26,784 LBS X-OVER TO W L</p> <p>PERF STG 2)PU 4 1/2 8K HAL CBP &amp; 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 6744' P/U PERF AS PER PERF DESIGN. POOH. X-OVER FOR FRAC CREW</p> <p>FRAC STG 2)WHP 375 PSI, BRK 2329 PSI @ 4.5 BPM. ISIP 1408 PSI, FG .65            PUMP 100 BBLS @ 50.3 BPM @ 4781 PSI = 77% HOLES OPEN.            ISIP 1300 PSI, FG .63, NPI -108 PSI.            MP 5853 PSI, MR 50.6 BPM, AP 4875 PSI, AR 50.2 BPM,            PMP 752 BBLS SW &amp; 22,852 LBS OF 30/50 SND &amp; NO RESIN SND.TOTAL PROP 22,852 LBS X-OVER FOR W L</p> <p>PERF STG 3)PU 4 1/2 8K HAL CBP &amp; 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 6004' P/U PERF AS PER PERF DESIGN. POOH X-OVER FOR FRAC CREW</p> <p>FRAC STG 3)WHP 95 PSI, BRK 2097 PSI @ 4.4 BPM. ISIP 1331 PSI, FG .66            PUMP 100 BBLS @ 45.7 BPM @ 5131 PSI = 61% HOLES OPEN.            ISIP 1492 PSI, FG .69, NPI 161 PSI.            MP 5361 PSI, MR 51.3 BPM, AP 5060 PSI, AR 48.2 BPM,            PMP 1097 BBLS SW &amp; 32,970 LBS OF 30/50 SND &amp; NO RESIN SND.TOTAL PROP 32,970 LBS X-OVER TO W L</p> <p>PU 4 1/2 CBP RIH SET KILL PLUG @ 5918 POOH RD WIRE LINE SWI</p> <p>TOTAL SAND = 82,606 #            TOTAL TOTAL CLFL = 2821            TOTAL SCALE = 315 GAL            TOTAL BIO = 71 GAL</p>

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

Well: NBU 922-18O3AS [red****]		Spud Conductor: 12/17/2008		Spud Date: 2/1/2009	
Project: UTAH-UINTAH			Site: NBU 922-18K PAD		Rig Name No: GWS 1/1
Event: RECOMPL/RESEREVEADD			Start Date: 7/12/2011		End Date: 8/9/2011
Active Datum: RKB @4,887.00ft (above Mean Sea Level)			UWI: NW/SE/0/9/S/22/E/18/0/0/6/PM/S/1,442.00/E/0/2,580.00/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
7/26/2011	7:00 -		COMP	30	A	P		<p>7AM [DAY 4] JSA-- R/U &amp; R/D RIG. P/U TBG, PSI, LANDING TBG.</p> <p>P/U 3-7/8" FLOW TECH MILL, PUMP OPEN SUB, XN NIPPLE, 2-3/8" L-80 YELL BND TBG &amp; RIH. [SLM &amp; DRIFTED] FLUSH TBG EVERY 500' W/ TMAC. (SCALE CONCERNS) TAG SAND @ 5898'. R/U SWVL &amp; RIG PUMP. ESTABLISH CIRCULATION. P.T. BOP TO 3000#. LOST 0# IN 15 MINUTES. C/O 20' SAND TO CBP#1. WTFRD AIR / NITROGEN UNIT ON STD BY. HAD FOAM UNIT BLOW THE NBU 922-18I3S AROUND TO GET FLOWING FOR PRODUCTION FOLKS.</p> <p>[DRLG CBP#1] @ 5918'. D/O HALL 8K CBP IN 4 MIN. 0# INC. RIH &amp; C/O 30' SD TO CBP#2. FCP=0-50#</p> <p>[DRLG CBP#2] @ 6004'. D/O HALL 8K CBP IN 4 MNI. 00# INC. RIH &amp; C/O 60' SD TO CBP#3. FCP=0-50#.</p> <p>[DRLG CBP#3] @ 6744'. D/O HALL 8K CBP IN 8 MIN. 0# INC. RIH &amp; TAG SD @ 6885'. C/O 15' SD TO 6900'. ISOLATION P[LUG @ 6924'. B.P. @ 6894'. CIRCULATE WELL CLEAN. R/D SWVL. POOH &amp; L/D 6 JTS ON SILLS. LAND TBG ON HANGER W/ 221 JTS 2-3/8" L-80 YELL BND TBG. EOT @ 6703.90', PUMP OPEN SUB W/ XN @ 6701.70'. R/D FLOOR &amp; TBG EQUIPMENT. NDBOP, NUWH. DROP BALL DOWN TBG &amp; PUMP OPEN THE SUB @ 1100#. OPEN WELL TO FBT ON OPEN CHOKE. NO FLOW. HAD WTFRD AIR / NITROGEN UNIT BLOW WELL AROUND. UNLOAD 250 BBLs WATER. LTR=2311 BBLs.</p> <p>4PM TURN WELL OVER TO APC MAINT CREW &amp; DELSCO FBC. WELL STRUGGLING TO PRODUCE. R/D RIG, MOVE OVER &amp; R/U ON NBU 922-18O1CS. FCP=90#. KILL CSG W/ 30 BBLs TMAC. NDWH, NUBOP. R/U FLOOR &amp; TBG EQUIPMENT.</p> <p>5PM SDFN. PREP TO P/U MILL &amp; TBG AND CLEAN OUT WELL IN AM. [MAINT JOB]</p> <p>266 JTS ON LOCATION @ BEGINING 211 JTS LANDED 55 JTS LEFT ON SILLS. HAD ALL TBG PUT ON TRAILER IN CORNER OF LOCATION. -- 305 JTS 2-3/8" L-80 YELL BND ON TRAILER. 3 JTS DID NOT DRIFT &amp; ARE MARKED.</p>
7/27/2011	7:00 -			33	A			<p>7 AM FLBK REPORT: CP 1725#, TP 0#, 20/64" CK, 0 BWPH, LIGHT SAND, - GAS TTL BBLs RECOVERED: 550 BBLs LEFT TO RECOVER: 2271</p>
7/28/2011	7:00 -			33	A			<p>7 AM FLBK REPORT: CP 1000#, TP 400#, 20/64" CK, 6 BWPH, LIGHT SAND, - GAS TTL BBLs RECOVERED: 764 BBLs LEFT TO RECOVER: 2057</p>
7/29/2011	7:00 -			33	A			<p>7 AM FLBK REPORT: CP 600#, TP 350#, 20/64" CK, 5 BWPH, LIGHT SAND, - GAS TTL BBLs RECOVERED: 884 BBLs LEFT TO RECOVER: 1937</p>

US ROCKIES REGION  
**Operation Summary Report**

Well: NBU 922-1803AS [red\*\*\*\*)      Spud Conductor: 12/17/2008      Spud Date: 2/1/2009  
 Project: UTAH-UINTAH      Site: NBU 922-18K PAD      Rig Name No: GWS 1/1  
 Event: RECOMPL/RESEREVEADD      Start Date: 7/12/2011      End Date: 8/9/2011  
 Active Datum: RKB @4,887.00ft (above Mean Sea Level)      UWI: NW/SE/0/9/S/22/E/18/0/0/6/PM/S/1,442.00/E/0/2,580.00/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
7/30/2011	7:00 -			33	A			7 AM FLBK REPORT: CP 525#, TP 300#, 20/64" CK, 5 BWPH, LIGHT SAND, - GAS TTL BBLs RECOVERED: 1004 BBLs LEFT TO RECOVER: 1817
8/8/2011	7:00 - 7:15	0.25	COMP	48		P		HSM, SLIPS, TRIPS & FALLS, TRIPPING TBG.
	7:15 - 17:00	9.75	COMP	31	I	P		MIRU, SPOT EQUIP, UN HOOK SAND TRAP & MOVE OUT OF WAY, INSTAL 2 WH CAGES, HOOK UP PUMPING LINE'S & KILL TBG W/ 25 BBLs, ND WH, NU BOP, INSTAL PUP JT & TIW VALVE, RU FLOOR & TBG EQUIP, HOOK UP FBT, SPOT TBG TRAILER, CONTROL WELL W/ 35 BBLs DOWN CSG & 15 BBLs DOWN TBG, UNLAND TBG INSTAL STRIPPING RUBBER & POOH, TBG STARTED BLOWING W/ 20 STDS OUT, PUMP 20 BBLs DOWN TBG, POOH, PUMPED 30 BBLs TO GET OUT OF HOLE LAST 10 STDS, PULL STRIPPING RUBBER, L/D PUMP OPEN SUB, RERUN MILL, PU NEW POBS, RERUN 1.875" XN SN, RIH & INSTAL STRIPPING RUBBER, PUT WELL DOWN SALES LINE, SDFN,
8/9/2011	7:00 - 7:15	0.25	COMP	48		P		HSM, SLIPS, TRIPS & FALLS, D/O ISOLATION PLUG.
	7:15 -		COMP	44	C	P		CSG PRESS 100 PSI, OPEN RAMS, C/O STRIPPING RUBBER, PU TBG TO 6,832', RU P/S, MIRU TECH FOAM, RIH TAG @ 6,875', BREAK CIRC W/ AIR FOAM, INSTAL STRING FLOAT, C/O FROM 6,875' TO 6,924', D/O ISOLATION PLUG @ 6,924' (NO KICK), CHOKE WASHED OUT ON FBT HAD TO C/O, KILL TBG W/ 15 BBLs TMAC PULL STRING FLOAT, (SLM & DRIFT TBG) PU TBG TAG @ 9,290', RU P/S, BREAK CIRC W/ AIR FOAM UNIT, C/O FROM 9,290' TO 9,360' FELL FREE, SET P/S BACK, PU TBG TO 9,835, (NOT DRIFTING VERY GOOD BROACH GETTING HUNG UP LAYED 6 JTS OUT), PU P/S C/O TO 9,867' W/ 311 JTS L-80 TBG, 193' PAST BTM PERF @ 9,674', PBTD @ 9,885', CIRC W/ AIR FOAM TO CLEAN HOLE FOR 40 MIN, KILL TBG W/ 20 BBLs TMAC PULL STRING FLOAT, LD 19 JTS, PU & STRIP IN TBG HANGER & LAND TBG W/ 292 JTS 2 3/8" L-80, EOT 9,265.16'.  RD POWER SWIVEL, FLOOR & TBG EQUIP, ND BOPS, NU WH, DROP BALL TO SHEAR OFF BIT W/ 2,300 PSI W/ AIR FOAM UNIT.  RD TO MOVE TO NEXT WELL ON PAD.  KB= 26' 4 1/16" FMC HANGER= .83' 292 JTS 2 3/8" L-80 = 9,236.13'      TBG USED 26 JTS YELLOW BAND POBS= 2.20' EOT @ 9,265.16'  CALLED CDC TALKED TO JUNIOR

1 General

1.1 Customer Information

Company	US ROCKIES REGION
Representative	
Address	

1.2 Well Information

Well	NBU 922-1803AS [red****]		
Common Name	NBU 922-1803AS		
Well Name	NBU 922-1803AS	Wellbore No.	OH
Report No.	1	Report Date	7/12/2011
Project	UTAH-UINTAH	Site	NBU 922-18K PAD
Rig Name/No.		Event	RECOMPL/RESEREVEADD
Start Date	7/12/2011	End Date	8/9/2011
Spud Date	2/1/2009	Active Datum	RKB @4,887.00ft (above Mean Sea Level)
UWI	NW/SE/0/9/S/22/E/18/0/0/6/PM/S/1,442.00/E/0/2,580.00/0/0		

1.3 General

Contractor		Job Method	PERFORATE	Supervisor	
Perforated Assembly	PRODUCTION CASING	Conveyed Method	WIRELINE		

1.4 Initial Conditions

1.5 Summary

Fluid Type		Fluid Density		Gross Interval	5,968.0 (ft)-6,894.0 (ft)	Start Date/Time	7/18/2011 12:00AM
Surface Press		Estimate Res Press		No. of Intervals	6	End Date/Time	7/18/2011 12:00AM
TVD Fluid Top		Fluid Head		Total Shots	72	Net Perforation Interval	20.00 (ft)
Hydrostatic Press		Press Difference		Avg Shot Density	3.60 (shot/ft)	Final Surface Pressure	
Balance Cond	NEUTRAL					Final Press Date	

2 Intervals

2.1 Perforated Interval

Date	Formation/Reservoir	CCL@ (ft)	CCL-T S (ft)	MD Top (ft)	MD Base (ft)	Shot Density (shot/ft)	Misfires/Add. Shot	Diameter (in)	Carr Type /Carr Manuf	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
12:00AM	WASATCH/			5,968.0	5,974.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO	

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (ft)	CCL-T S (ft)	MD Top (ft)	MD Base (ft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diamete r (in)	Carr Type /Carr Manuf	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
12:00AM	WASATCH/			6,598.0	6,600.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AM	WASATCH/			6,624.0	6,626.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AM	WASATCH/			6,678.0	6,680.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AM	WASATCH/			6,712.0	6,714.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AM	WASATCH/			6,888.0	6,894.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	

3 Plots

3.1 Wellbore Schematic

