



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 922-18N2CS  
T9S R22E  
Section 18: SESW <sup>vj</sup>  
NWSE 1390' FSL, 2220' FSL (surface)  
SESW 775' FSL, 1462' FWL (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 922-18N2CS 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

James C. Colligan III  
Landman

RECEIVED

NOV 09 2007

DIV. OF OIL, GAS & MINING

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-0359</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 922-18N2CS</b>
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface <b>NE/SW 1390'FSL, 2220'FEL</b> At proposed prod. Zone <b>SE/SW 775'FSL, 1462'FWL</b>		9. API Well No. <b>43047-39847</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>1390'</b>	16. No. of Acres in lease <b>162.39</b>	11. Sec., T., R., M., or Blk, and Survey or Area <b>SEC. 18, T9S, R22E</b>
17. Spacing Unit dedicated to this well <b>40.00</b>	12. County or Parish <b>UINTAH</b>	13. State <b>UTAH</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>9889'</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>11/19/2007</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)

*Swrf*  
629526 X  
4432245 Y  
40.032561  
-109.481941

**Federal Approval of this  
Action is Necessary**

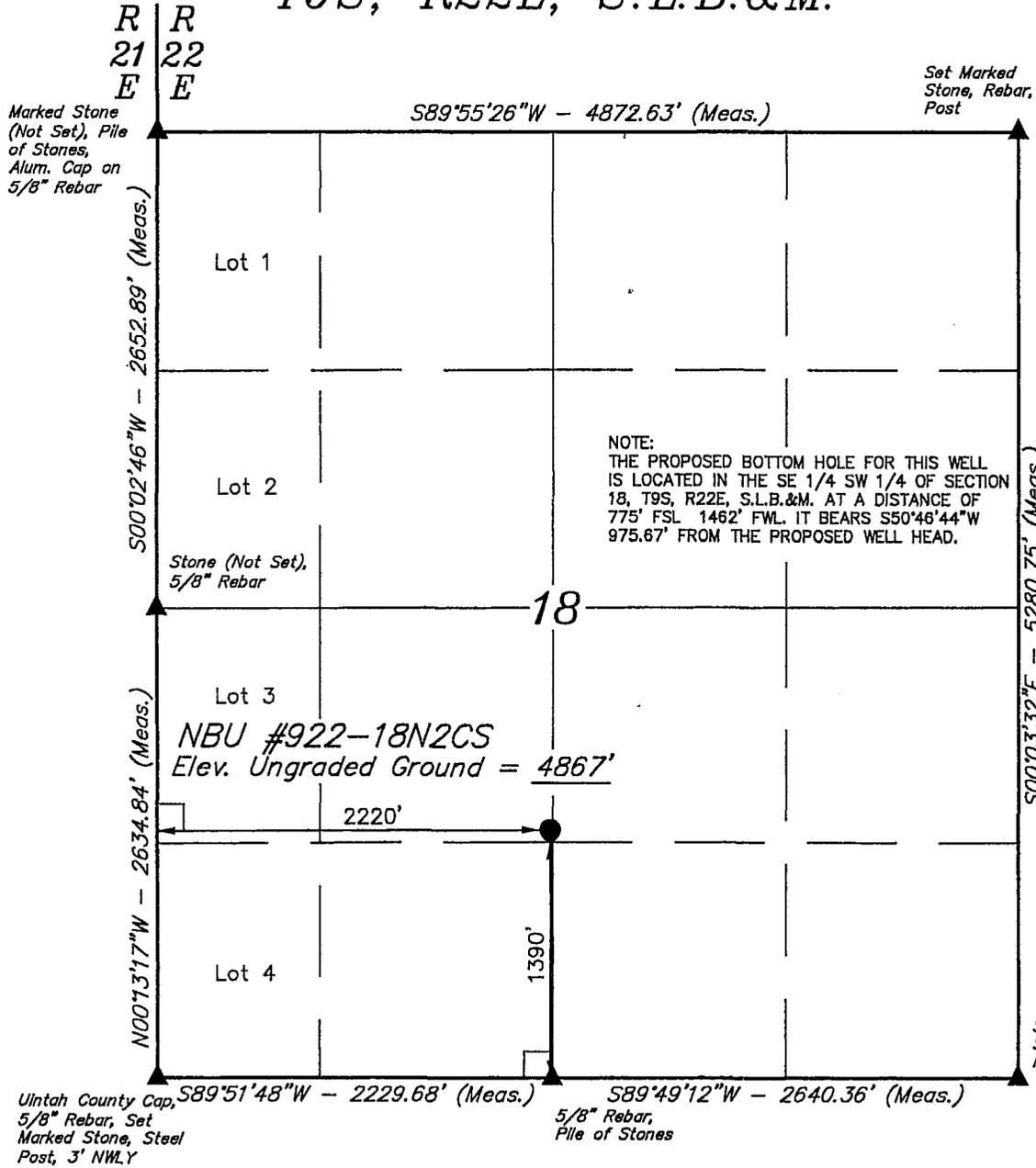
*BHC*  
629299X  
4432074 Y  
40.030872  
-109.484637

**RECEIVED**  
**NOV 26 2007**  
DIV. OF OIL, GAS & MINING

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

## Kerr-McGee Oil & Gas Onshore LP

Well location, NBU #922-18N2CS, located as shown in the NE 1/4 SW 1/4 of Section 18, T9S, R22E, S.L.B.&M., Uintah County, Utah.

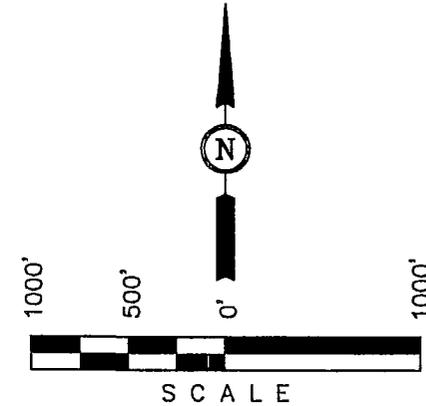


### BASIS OF ELEVATION

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, UTAH 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.

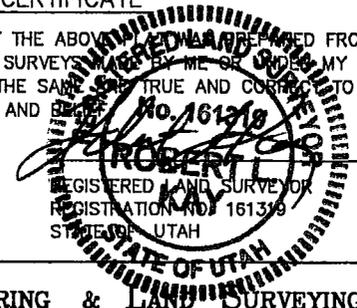
### BASIS OF BEARINGS

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



### CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE 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 & LAND SURVEYING**  
85 SOUTH 200 EAST - VERNAL, UTAH 84078  
(435) 789-1017

### LEGEND:

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

(NAD 83)  
LATITUDE = 40°01'57.22" (40.032561)  
LONGITUDE = 109°28'58.03" (109.482786)  
(NAD 27)  
LATITUDE = 40°01'57.35" (40.032597)  
LONGITUDE = 109°28'55.56" (109.482100)

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 922-18N2CS  
NE/SW 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	1664'
Top of Birds Nest Water	1968'
Mahogany	2326'
Wasatch	4930'
Mesaverde	7665'
MVU2	8610'
MVL1	9108'
TVD	9720'
TD (MD)	9889'

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

<u>Substance</u>	<u>Formation</u>	<u>Depth</u>
	Green River	1664'
	Top of Birds Nest Water	1968'
	Mahogany	2326'
Gas	Wasatch	4930'
Gas	Mesaverde	7665'
Gas	MVU2	8610'
Gas	MVL1	9108'
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 9889' TD, approximately equals 6131 psi (calculated at 0.62 psi/foot).

Maximum anticipated surface pressure equals approximately 3955 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**

**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 0.93 7780	2020 1.60 6350	453000 5.93 201000
PRODUCTION	4-1/2"	0 to 9720	11.60	I-80	LTC	2.06	1.07	2.04

- 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 3775 psi

**CEMENT PROGRAM**

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE	LEAD	500	Premium cmt + 2% CaCl + .25 pps flocele	215	60%	15.60	1.18
<b>Option 1</b>	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	LEAD	1500	<b>NOTE: If well will circulate water to surface, option 2 will be utilized</b> 65/35 Poz + 6% Gel + 10 pps gilsonite +.25 pps Flocele + 3% salt BWOW	360	35%	12.60	1.81
<b>Option 2</b>	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	7,160'	Premium Lite II + 3% KCl + 0.25 pps celloflake + 5 pps gilsonite + 10% gel + 0.5% extender	780	60%	11.00	3.38
	TAIL	2,560'	50/50 Poz/G + 10% salt + 2% gel +.1% R-3	720	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**

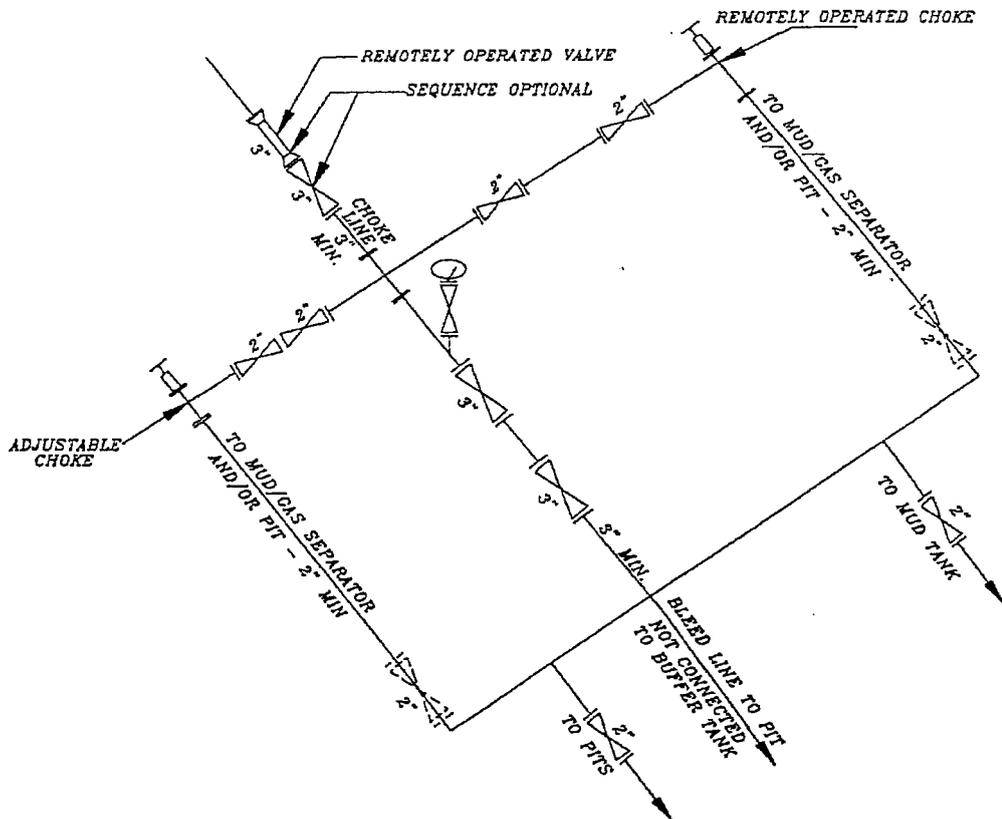
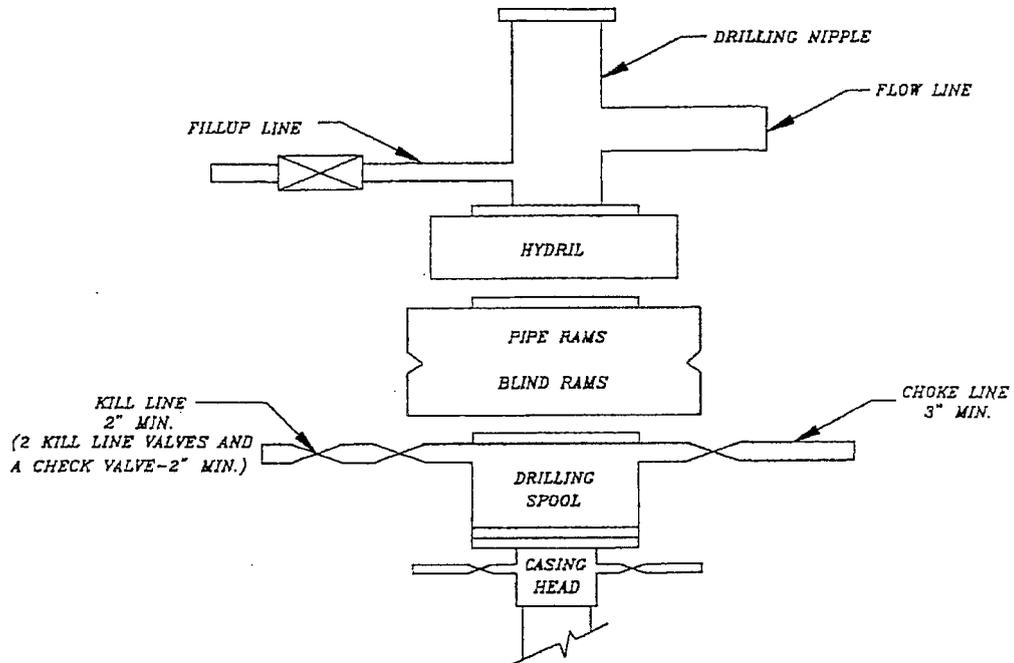
Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.  
 BOPE: 11" 5M with one annular and 2 rams. Test to 5,000 psi (annular to 2,500 psi) prior to drilling out. Record on chart recorder & tour sheet. Function test rams on each trip. Maintain safety valve & 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: \_\_\_\_\_  
 Brad Laney

DRILLING SUPERINTENDENT: \_\_\_\_\_  
 Randy Bayne

DATE: \_\_\_\_\_  
 DATE: \_\_\_\_\_

# 5M BOP STACK and CHOKE MANIFOLD SYSTEM





**Weatherford**<sup>®</sup>

## Drilling Services

---

## Proposal

---



### **ANADARKO - KERR McGEE**

NBU 922-18N2CS

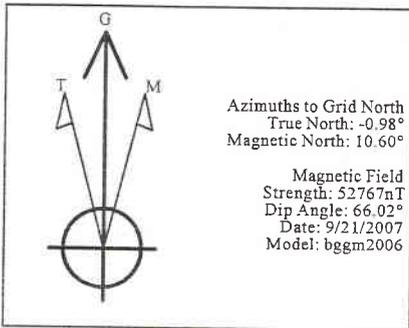
UINTAH COUNTY, UTAH

WELL FILE: PLAN 1

DATE: SEPTEMBER 24, 2007

---

**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)



SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	228.37	0.00	0.00	0.00	0.00	0.00	0.00	
2	2800.00	0.00	228.37	2800.00	0.00	0.00	0.00	0.00	0.00	
3	3835.63	25.89	228.37	3800.74	-152.81	-171.94	2.50	228.37	230.03	
4	4593.01	25.89	228.37	4482.10	-372.51	-419.13	0.00	0.00	560.75	
5	6319.05	0.00	228.37	6150.00	-627.20	-705.70	1.50	180.00	944.14	
6	9889.05	0.00	228.37	9720.00	-627.20	-705.70	0.00	228.37	944.14	PBHL

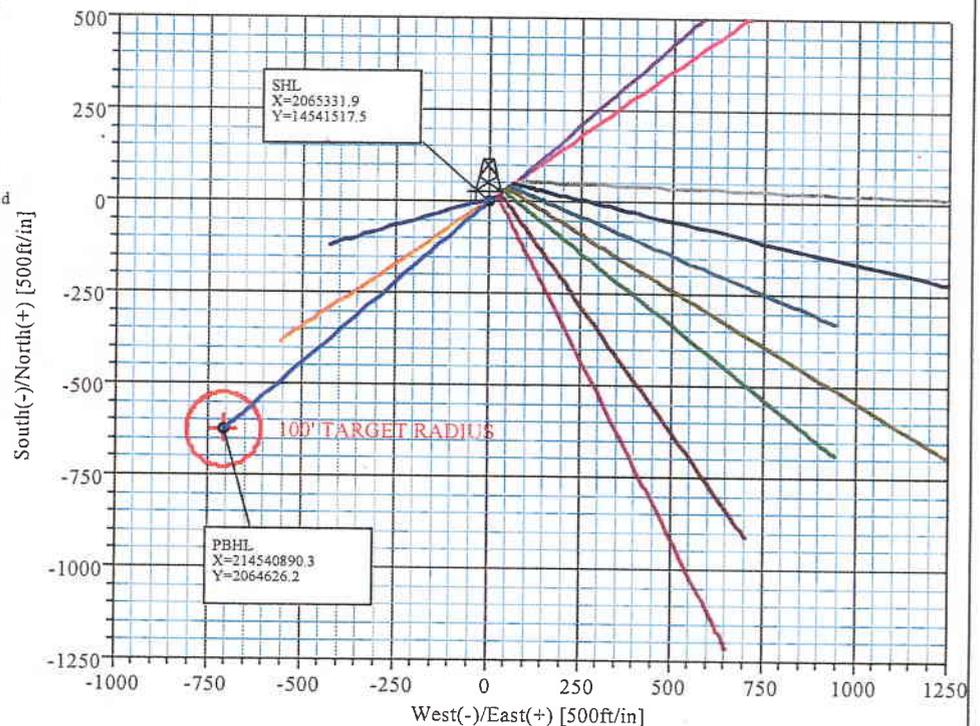
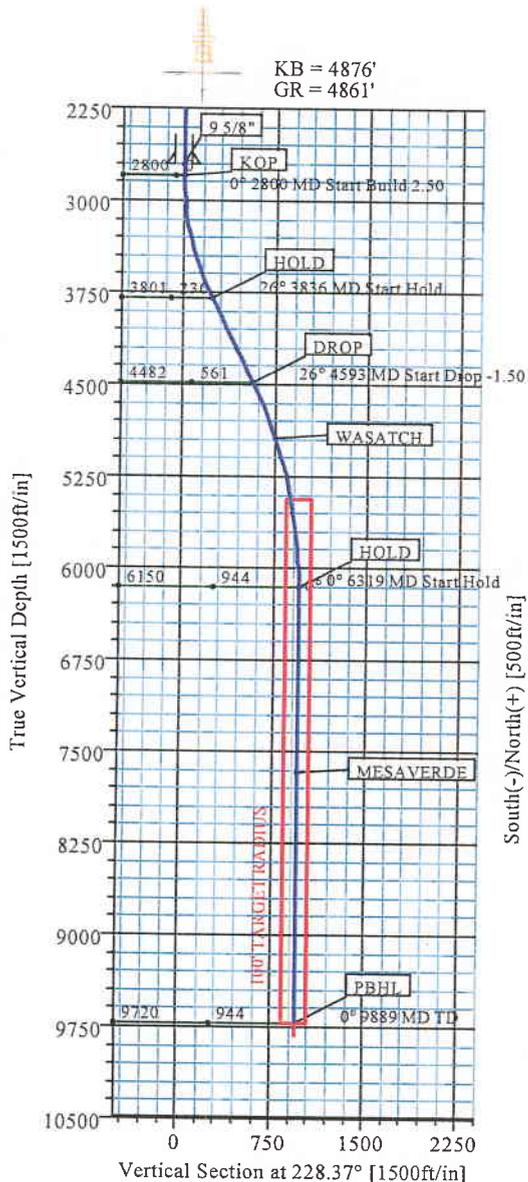
WELL DETAILS							
Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
18N2CS	0.00	0.00	14541517.50	2065331.90	40°01'57.176N	109°28'55.458W	N/A

CASING DETAILS				
No.	TVD	MD	Name	Size
1	2700.00	2700.00	9 5/8"	9.62

FORMATION TOP DETAILS			
No.	TVDPath	MDPath	Formation
1	4930.00	5077.29	WASATCH
2	7665.00	7834.05	MESAVERDE

**FIELD DETAILS**  
 UTAH 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

LEGEND	
1813S (1)	
1813S (1)	
1813S (1)	
18N2AS (1)	
18N2S (1)	
18O1BS (1)	
18O1CS (1)	
18O3AS (1)	
18O3DS (1)	
18P2S (1)	
18P3S (1)	
Plan #1 18N2CS	



# Weatherford Drilling Services

## DIRECTIONAL PLAN REPORT



<b>Company:</b> Anadarko-Kerr-McGee	<b>Date:</b> 9/27/2007	<b>Time:</b> 14:35:58	<b>Page:</b> 1
<b>Field:</b> UINTAH COUNTY, UTAH (UTM Zone 12N-NAD 27)	<b>Co-ordinate(NE) Reference:</b>	<b>Site:</b> NBU 922-18N2CS PAD IJNOP	
<b>Site:</b> NBU 922-18N2CS PAD IJNOP	<b>Vertical (TVD) Reference:</b>	<b>SITE</b> 4876.0	
<b>Well:</b> 18N2CS	<b>Section (VS) Reference:</b>	<b>Well</b> (0.00N,0.00E,228.37Azi)	
<b>Wellpath:</b> 1	<b>Survey Calculation Method:</b> Minimum Curvature	<b>Db:</b> Sybase	

<b>Plan:</b> Plan #1 18N2CS	<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 922-18N2CS PAD IJNOP

1390 FSL, 2653 FEL SEC18 T9S R22E

<b>Site Position:</b>	<b>Northing:</b> 14541517.50 ft	<b>Latitude:</b> 40 1 57.176 N
<b>From:</b> Map	<b>Easting:</b> 2065331.90 ft	<b>Longitude:</b> 109 28 55.458 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> 18N2CS	<b>Slot Name:</b>
<b>Well Position:</b> +N/-S 0.00 ft	<b>Northing:</b> 14541517.50 ft
+E/-W 0.00 ft	<b>Easting:</b> 2065331.90 ft
<b>Position Uncertainty:</b> 0.00 ft	<b>Latitude:</b> 40 1 57.176 N
	<b>Longitude:</b> 109 28 55.458 W

<b>Wellpath:</b> 1	<b>Drilled From:</b> Surface
<b>Current Datum:</b> SITE	<b>Tie-on Depth:</b> 0.00 ft
<b>Magnetic Data:</b> 9/21/2007	<b>Above System Datum:</b> Mean Sea Level
<b>Field Strength:</b> 52767 nT	<b>Declination:</b> 11.57 deg
<b>Vertical Section:</b> Depth From (TVD)	<b>Mag Dip Angle:</b> 66.02 deg
ft	+N/-S
ft	+E/-W
ft	Direction
ft	deg
0.00	0.00
0.00	0.00
0.00	228.37

**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	228.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2800.00	0.00	228.37	2800.00	0.00	0.00	0.00	0.00	0.00	0.00	
3835.63	25.89	228.37	3800.74	-152.81	-171.94	2.50	2.50	0.00	228.37	
4593.01	25.89	228.37	4482.10	-372.51	-419.13	0.00	0.00	0.00	0.00	
6319.05	0.00	228.37	6150.00	-627.20	-705.70	1.50	-1.50	0.00	180.00	
9889.05	0.00	228.37	9720.00	-627.20	-705.70	0.00	0.00	0.00	228.37	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
2700.00	0.00	228.37	2700.00	0.00	0.00	0.00	0.00	14541517.50	2065331.90	9 5/8"
2800.00	0.00	228.37	2800.00	0.00	0.00	0.00	0.00	14541517.50	2065331.90	KOP
2900.00	2.50	228.37	2899.97	-1.45	-1.63	2.18	2.50	14541516.05	2065330.27	
3000.00	5.00	228.37	2999.75	-5.79	-6.52	8.72	2.50	14541511.71	2065325.38	
3100.00	7.50	228.37	3099.14	-13.03	-14.66	19.61	2.50	14541504.47	2065317.24	
3200.00	10.00	228.37	3197.97	-23.13	-26.02	34.82	2.50	14541494.37	2065305.88	
3300.00	12.50	228.37	3296.04	-36.09	-40.61	54.33	2.50	14541481.41	2065291.29	
3400.00	15.00	228.37	3393.17	-51.88	-58.37	78.09	2.50	14541465.62	2065273.53	
3500.00	17.50	228.37	3489.17	-70.47	-79.28	106.07	2.50	14541447.03	2065252.62	
3600.00	20.00	228.37	3583.85	-91.82	-103.31	138.21	2.50	14541425.68	2065228.59	
3700.00	22.50	228.37	3677.05	-115.89	-130.40	174.46	2.50	14541401.61	2065201.50	
3800.00	25.00	228.37	3768.57	-142.65	-160.50	214.73	2.50	14541374.85	2065171.40	
3835.63	25.89	228.37	3800.74	-152.81	-171.94	230.03	2.50	14541364.69	2065159.96	HOLD
3900.00	25.89	228.37	3858.65	-171.49	-192.95	258.14	0.00	14541346.01	2065138.95	
4000.00	25.89	228.37	3948.62	-200.49	-225.59	301.81	0.00	14541317.01	2065106.31	

# Weatherford Drilling Services

## DIRECTIONAL PLAN REPORT



<b>Company:</b> Anadarko-Kerr-McGee	<b>Date:</b> 9/27/2007	<b>Time:</b> 14:35:58	<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 922-18N2CS PAD IJNOP	
<b>Site:</b> NBU 922-18N2CS PAD IJNOP	<b>Vertical (TVD) Reference:</b>	<b>SITE</b> 4876.0	
<b>Well:</b> 18N2CS	<b>Section (VS) Reference:</b>	<b>Well</b> (0.00N,0.00E,228.37Azi)	
<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
4100.00	25.89	228.37	4038.58	-229.50	-258.23	345.47	0.00	14541288.00	2065073.67	
4200.00	25.89	228.37	4128.54	-258.51	-290.86	389.14	0.00	14541258.99	2065041.04	
4300.00	25.89	228.37	4218.50	-287.52	-323.50	432.80	0.00	14541229.98	2065008.40	
4400.00	25.89	228.37	4308.47	-316.52	-356.14	476.47	0.00	14541200.98	2064975.76	
4500.00	25.89	228.37	4398.43	-345.53	-388.78	520.14	0.00	14541171.97	2064943.12	
4593.01	25.89	228.37	4482.10	-372.51	-419.13	560.75	0.00	14541144.99	2064912.77	DROP
4600.00	25.79	228.37	4488.40	-374.54	-421.41	563.80	1.50	14541142.96	2064910.49	
4700.00	24.29	228.37	4579.00	-402.65	-453.04	606.11	1.50	14541114.85	2064878.86	
4800.00	22.79	228.37	4670.68	-429.17	-482.89	646.04	1.50	14541088.33	2064849.01	
4900.00	21.29	228.37	4763.37	-454.10	-510.93	683.56	1.50	14541063.40	2064820.97	
5000.00	19.79	228.37	4857.01	-477.40	-537.15	718.64	1.50	14541040.10	2064794.75	
5077.29	18.63	228.37	4930.00	-494.29	-556.16	744.06	1.50	14541023.21	2064775.74	WASATCH
5100.00	18.29	228.37	4951.54	-499.07	-561.53	751.25	1.50	14541018.43	2064770.37	
5200.00	16.79	228.37	5046.89	-519.08	-584.05	781.38	1.50	14540998.42	2064747.85	
5300.00	15.29	228.37	5143.00	-537.43	-604.70	809.01	1.50	14540980.07	2064727.20	
5400.00	13.79	228.37	5239.79	-554.10	-623.46	834.10	1.50	14540963.40	2064708.44	
5500.00	12.29	228.37	5337.21	-569.09	-640.31	856.66	1.50	14540948.41	2064691.59	
5600.00	10.79	228.37	5435.19	-582.37	-655.26	876.66	1.50	14540935.13	2064676.64	
5700.00	9.29	228.37	5533.66	-593.95	-668.29	894.08	1.50	14540923.55	2064663.61	
5800.00	7.79	228.37	5632.55	-603.81	-679.38	908.92	1.50	14540913.69	2064652.52	
5900.00	6.29	228.37	5731.79	-611.95	-688.54	921.17	1.50	14540905.55	2064643.36	
6000.00	4.79	228.37	5831.32	-618.35	-695.75	930.82	1.50	14540899.15	2064636.15	
6100.00	3.29	228.37	5931.07	-623.03	-701.01	937.86	1.50	14540894.47	2064630.89	
6200.00	1.79	228.37	6030.97	-625.97	-704.31	942.28	1.50	14540891.53	2064627.59	
6300.00	0.29	228.37	6130.95	-627.17	-705.66	944.09	1.50	14540890.33	2064626.24	
6319.05	0.00	228.37	6150.00	-627.20	-705.70	944.14	1.50	14540890.30	2064626.20	HOLD
6400.00	0.00	228.37	6230.95	-627.20	-705.70	944.14	0.00	14540890.30	2064626.20	
6500.00	0.00	228.37	6330.95	-627.20	-705.70	944.14	0.00	14540890.30	2064626.20	
6600.00	0.00	228.37	6430.95	-627.20	-705.70	944.14	0.00	14540890.30	2064626.20	
6700.00	0.00	228.37	6530.95	-627.20	-705.70	944.14	0.00	14540890.30	2064626.20	
6800.00	0.00	228.37	6630.95	-627.20	-705.70	944.14	0.00	14540890.30	2064626.20	
6900.00	0.00	228.37	6730.95	-627.20	-705.70	944.14	0.00	14540890.30	2064626.20	
7000.00	0.00	228.37	6830.95	-627.20	-705.70	944.14	0.00	14540890.30	2064626.20	
7100.00	0.00	228.37	6930.95	-627.20	-705.70	944.14	0.00	14540890.30	2064626.20	
7200.00	0.00	228.37	7030.95	-627.20	-705.70	944.14	0.00	14540890.30	2064626.20	
7300.00	0.00	228.37	7130.95	-627.20	-705.70	944.14	0.00	14540890.30	2064626.20	
7400.00	0.00	228.37	7230.95	-627.20	-705.70	944.14	0.00	14540890.30	2064626.20	
7500.00	0.00	228.37	7330.95	-627.20	-705.70	944.14	0.00	14540890.30	2064626.20	
7600.00	0.00	228.37	7430.95	-627.20	-705.70	944.14	0.00	14540890.30	2064626.20	
7700.00	0.00	228.37	7530.95	-627.20	-705.70	944.14	0.00	14540890.30	2064626.20	
7800.00	0.00	228.37	7630.95	-627.20	-705.70	944.14	0.00	14540890.30	2064626.20	
7834.05	0.00	228.37	7665.00	-627.20	-705.70	944.14	0.00	14540890.30	2064626.20	MESAVERDE
7900.00	0.00	228.37	7730.95	-627.20	-705.70	944.14	0.00	14540890.30	2064626.20	
8000.00	0.00	228.37	7830.95	-627.20	-705.70	944.14	0.00	14540890.30	2064626.20	
8100.00	0.00	228.37	7930.95	-627.20	-705.70	944.14	0.00	14540890.30	2064626.20	
8200.00	0.00	228.37	8030.95	-627.20	-705.70	944.14	0.00	14540890.30	2064626.20	
8300.00	0.00	228.37	8130.95	-627.20	-705.70	944.14	0.00	14540890.30	2064626.20	
8400.00	0.00	228.37	8230.95	-627.20	-705.70	944.14	0.00	14540890.30	2064626.20	
8500.00	0.00	228.37	8330.95	-627.20	-705.70	944.14	0.00	14540890.30	2064626.20	
8600.00	0.00	228.37	8430.95	-627.20	-705.70	944.14	0.00	14540890.30	2064626.20	
8700.00	0.00	228.37	8530.95	-627.20	-705.70	944.14	0.00	14540890.30	2064626.20	
8800.00	0.00	228.37	8630.95	-627.20	-705.70	944.14	0.00	14540890.30	2064626.20	
8900.00	0.00	228.37	8730.95	-627.20	-705.70	944.14	0.00	14540890.30	2064626.20	

# Weatherford Drilling Services

## DIRECTIONAL PLAN REPORT



**Weatherford**

<b>Company:</b> Anadarko-Kerr-McGee	<b>Date:</b> 9/27/2007	<b>Time:</b> 14:35:58	<b>Page:</b> 3
<b>Field:</b> UINTAH COUNTY, UTAH (UTM Zone 12N-NAD 27)	<b>Co-ordinate(NE) Reference:</b> 14540890.30	<b>Site:</b> NBU 922-18N2CS PAD IJNOP	
<b>Site:</b> NBU 922-18N2CS PAD IJNOP	<b>Vertical (TVD) Reference:</b> 2064626.20	<b>SITE:</b> 4876.0	
<b>Well:</b> 18N2CS	<b>Section (VS) Reference:</b> 944.14	<b>Well:</b> (0.00N,0.00E,228.37Azi)	
<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
9000.00	0.00	228.37	8830.95	-627.20	-705.70	944.14	0.00	14540890.30	2064626.20	
9100.00	0.00	228.37	8930.95	-627.20	-705.70	944.14	0.00	14540890.30	2064626.20	
9200.00	0.00	228.37	9030.95	-627.20	-705.70	944.14	0.00	14540890.30	2064626.20	
9300.00	0.00	228.37	9130.95	-627.20	-705.70	944.14	0.00	14540890.30	2064626.20	
9400.00	0.00	228.37	9230.95	-627.20	-705.70	944.14	0.00	14540890.30	2064626.20	
9500.00	0.00	228.37	9330.95	-627.20	-705.70	944.14	0.00	14540890.30	2064626.20	
9600.00	0.00	228.37	9430.95	-627.20	-705.70	944.14	0.00	14540890.30	2064626.20	
9700.00	0.00	228.37	9530.95	-627.20	-705.70	944.14	0.00	14540890.30	2064626.20	
9800.00	0.00	228.37	9630.95	-627.20	-705.70	944.14	0.00	14540890.30	2064626.20	
9889.05	0.00	228.37	9720.00	-627.20	-705.70	944.14	0.00	14540890.30	2064626.20	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		9720.00	-627.20	-705.70	14540890.30	2064626.20	40	1	51.096	N	109	29	4.668	W
-Circle (Radius: 100)														
-Plan hit target														

**Casing Points**

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

**Annotation**

MD ft	TVD ft	
2800.00	2800.00	KOP
3835.63	3800.74	HOLD
4593.01	4482.10	DROP
6319.05	6150.00	HOLD
9889.05	9720.00	PBHL

**Formations**

MD ft	TVD ft	Formations	Lithology	Dip Angle deg	Dip Direction deg
5077.29	4930.00	WASATCH		0.00	0.00
7834.05	7665.00	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 922-18N2CS  
 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 14541517.500 USFT	Latitude 40 1 57.1762480 DMS
East/West 2065331.900 USFT	Longitude -109 28 55.4578154 DMS
Grid Convergence: .97655935°	
Total Correction: +10.5913°	

Geodetic Location WGS84                      Elevation = 1482.0 Meters  
 Latitude =        40.03255° N                      40° 1 min 57.176 sec  
 Longitude =      109.48207° W                    109° 28 min 55.458 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: \_\_\_\_\_

NBU 922-18N2CS  
NE/SW 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-route 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.*

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.

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.

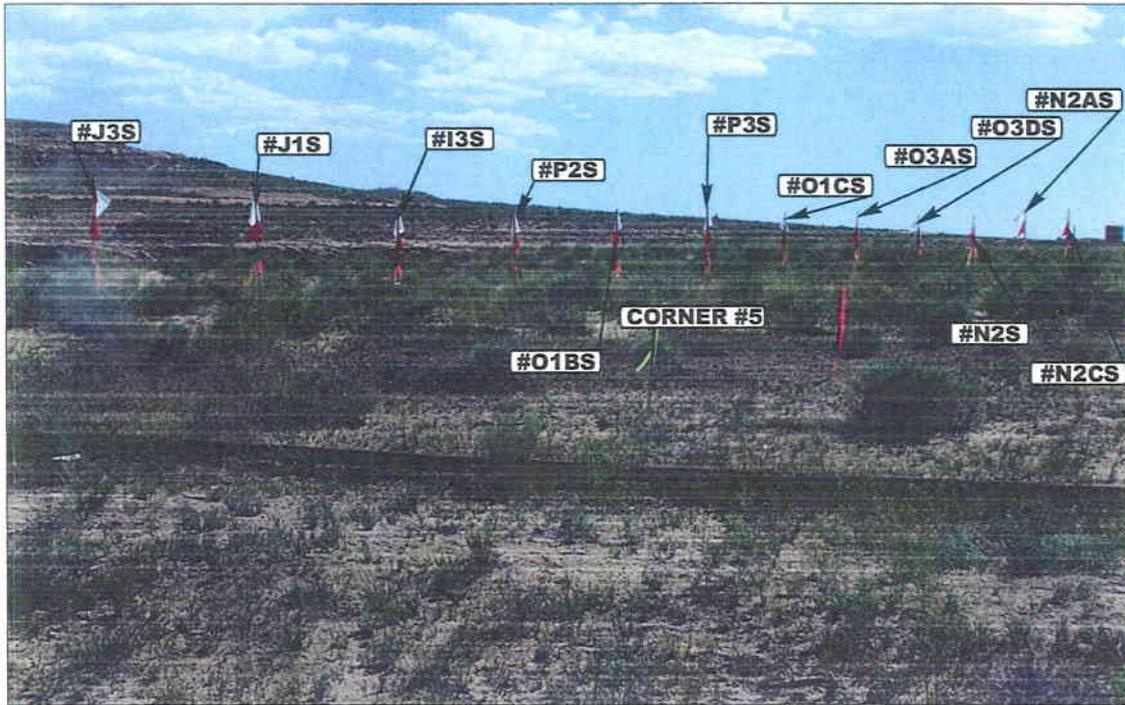


PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKES

CAMERA ANGLE: SOUTHEASTERLY



PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

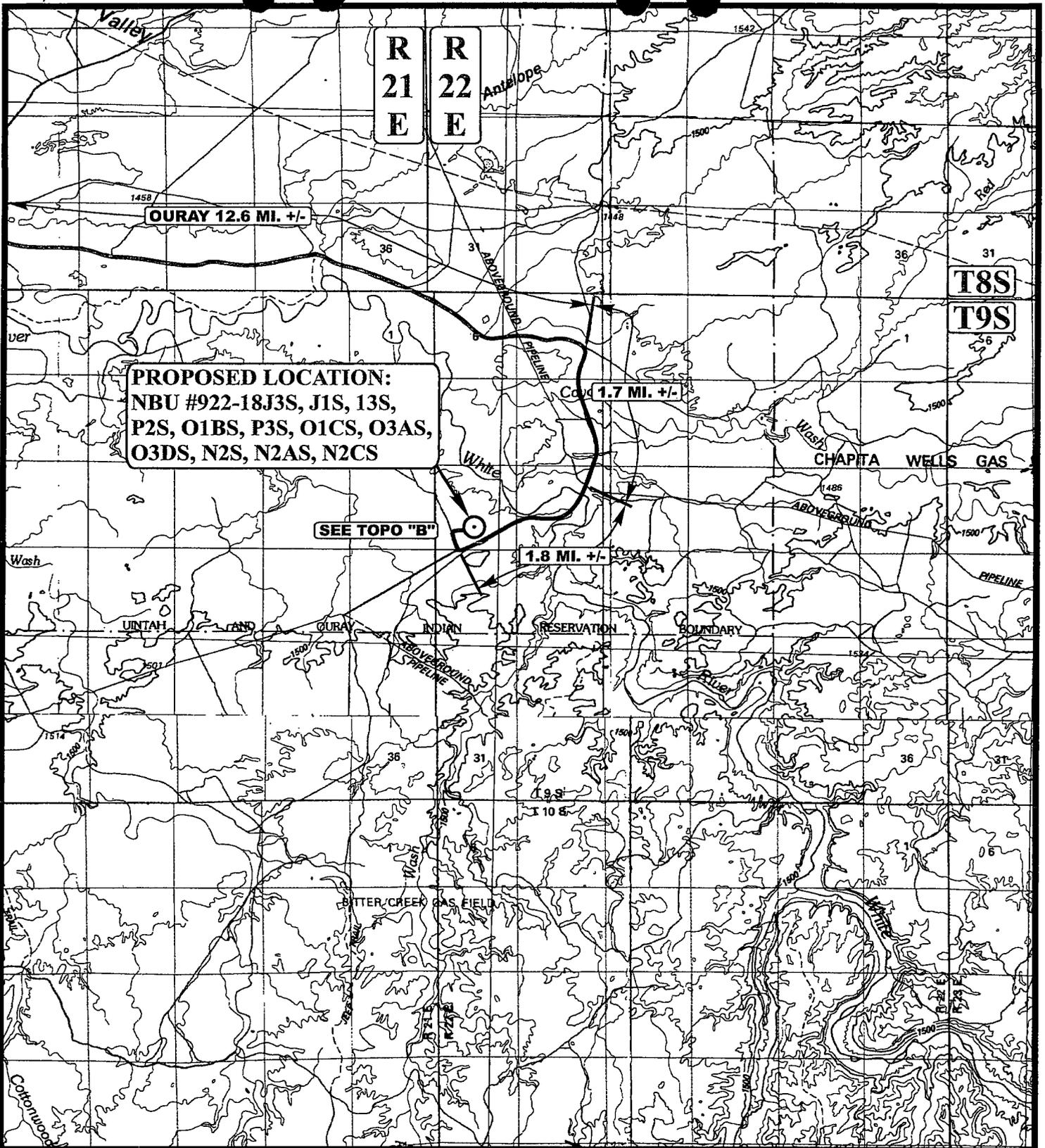
CAMERA ANGLE: NORTHEASTERLY



- Since 1964 -

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

<b>LOCATION PHOTOS</b>			<b>05</b>	<b>16</b>	<b>07</b>	<b>PHOTO</b>
			MONTH	DAY	YEAR	
TAKEN BY: L.K.	DRAWN BY: C.P.	REVISED: 00-00-00				



**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**  
**M A P**

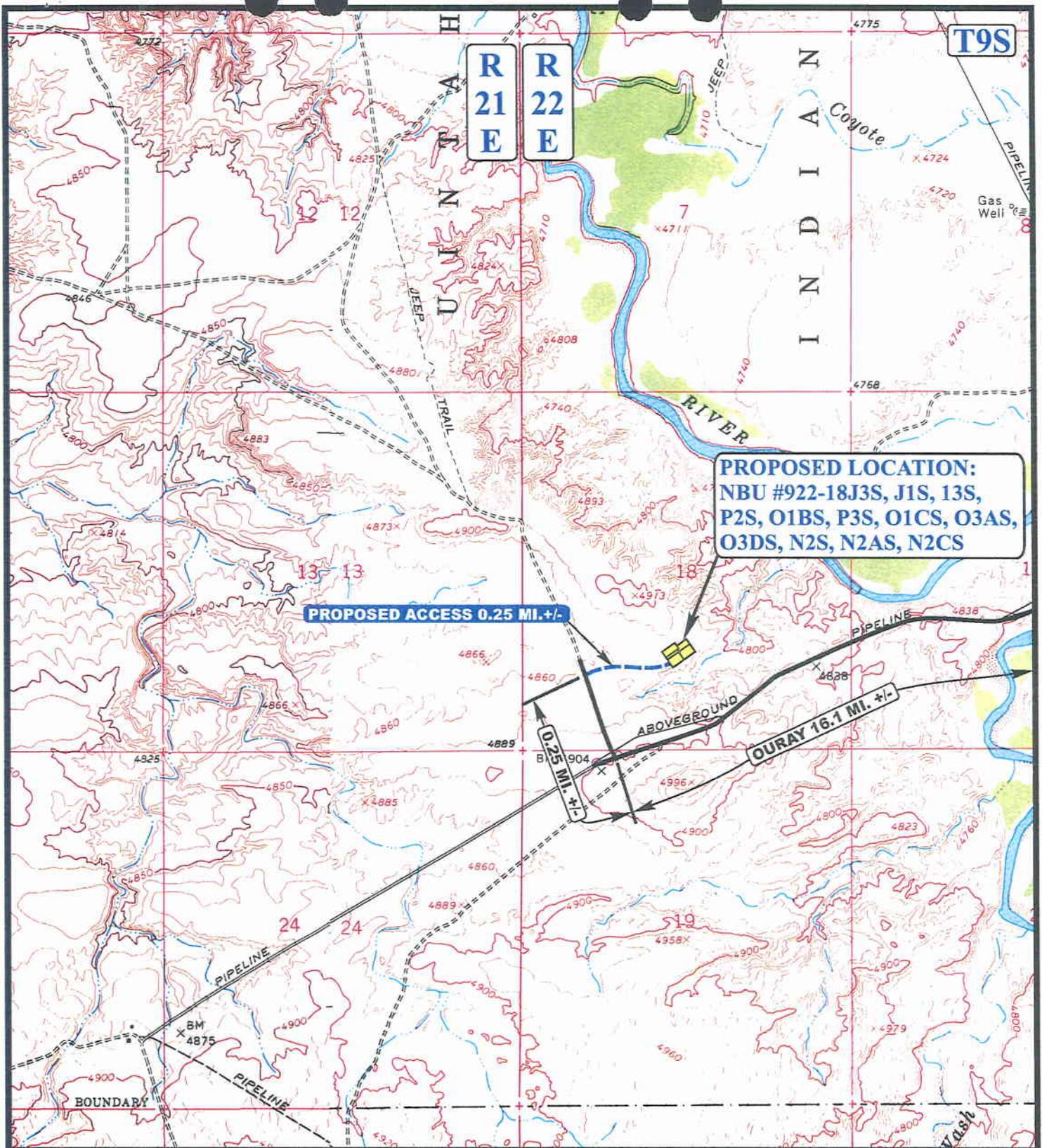
**05 16 07**  
 MONTH DAY YEAR

SCALE: 1:100,000

DRAWN BY: C.P.

REVISED: 00-00-00





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

**PROPOSED ACCESS 0.25 MI. +/-**

**0.25 MI. +/-**

**ABOVEGROUND**

**PIPELINE**

**OURAY 16.1 MI. +/-**

**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



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

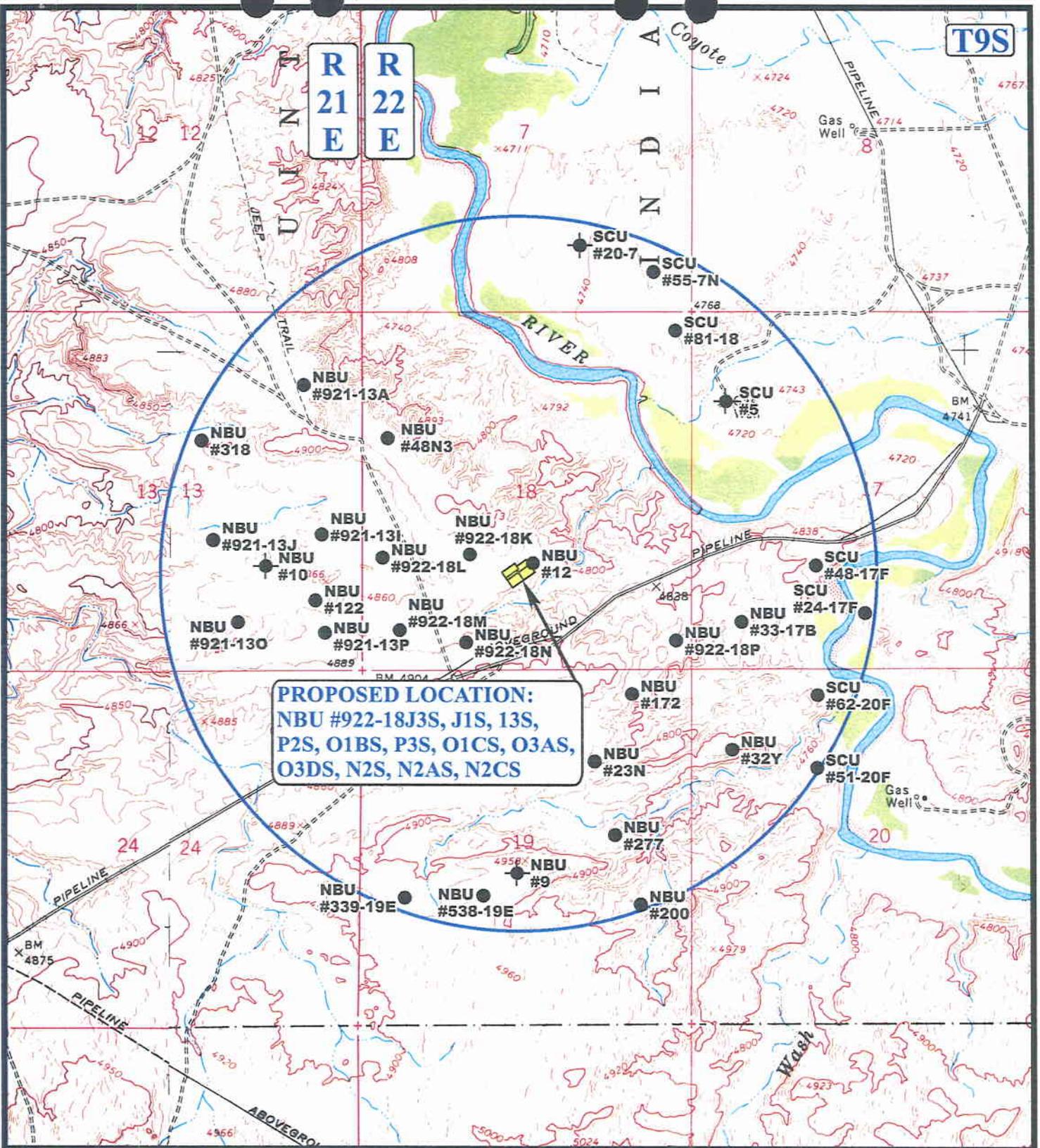


**TOPOGRAPHIC MAP**

**05 16 07**  
 MONTH DAY YEAR



SCALE: 1" = 2000' DRAWN BY: C.P. REVISED: 00-00-00



**LEGEND:**

- ⊘ DISPOSAL WELLS
- PRODUCING WELLS
- SHUT IN WELLS
- ⊘ WATER WELLS
- ABANDONED WELLS
- TEMPORARILY ABANDONED

**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

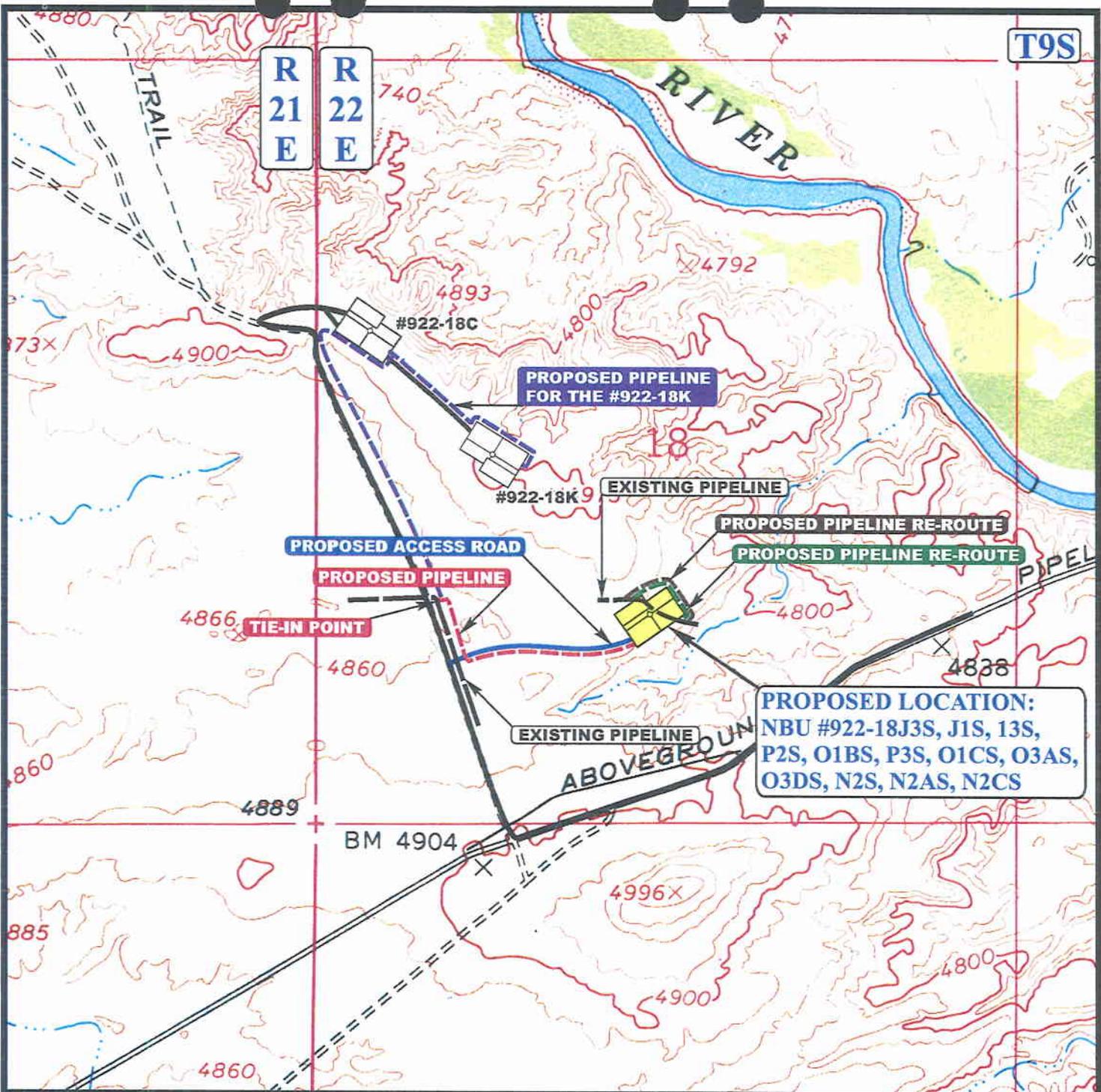


**TOPOGRAPHIC MAP**

**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**  
**MAP**

**05 16 07**  
MONTH DAY YEAR

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

**D**  
**TOPO**

# 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.

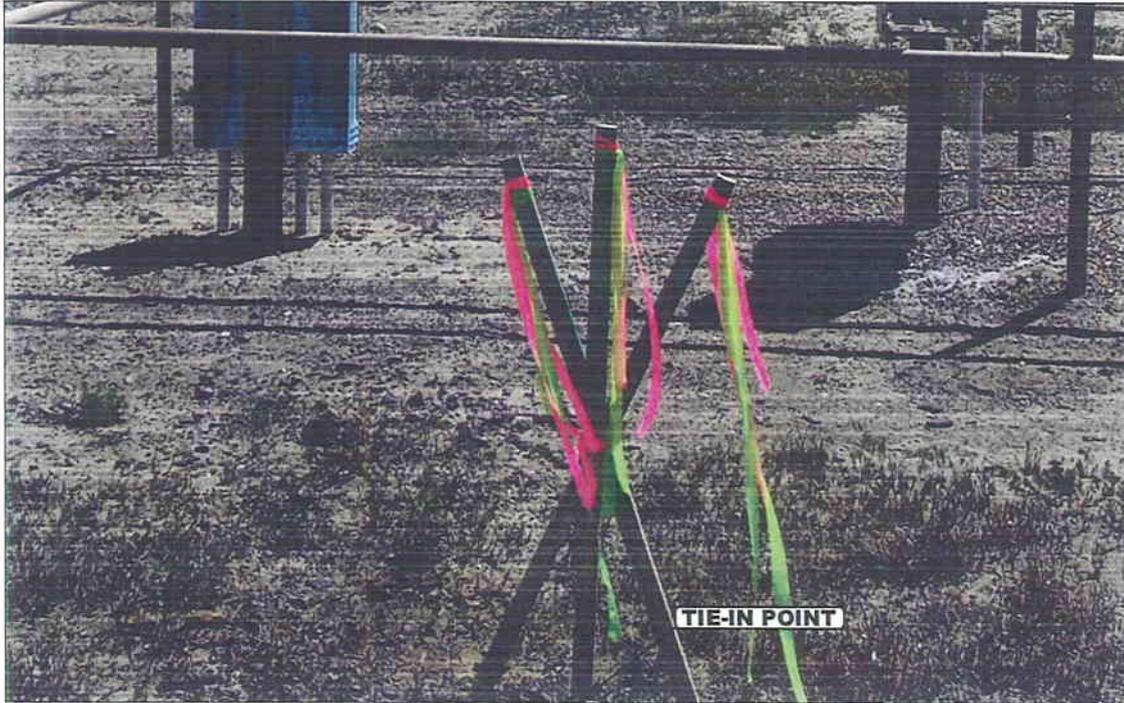


PHOTO: VIEW FROM TIE-IN POINT

CAMERA ANGLE: EASTERLY



PHOTO: VIEW OF PIPELINE ALIGNMENT

CAMERA ANGLE: EASTERLY



- Since 1964 -

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

PIPELINE PHOTOS

05 16 07  
MONTH DAY YEAR

PHOTO

TAKEN BY: L.K.

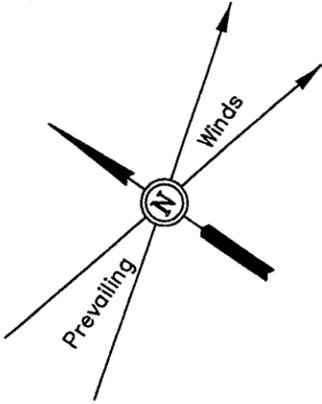
DRAWN BY: C.P.

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

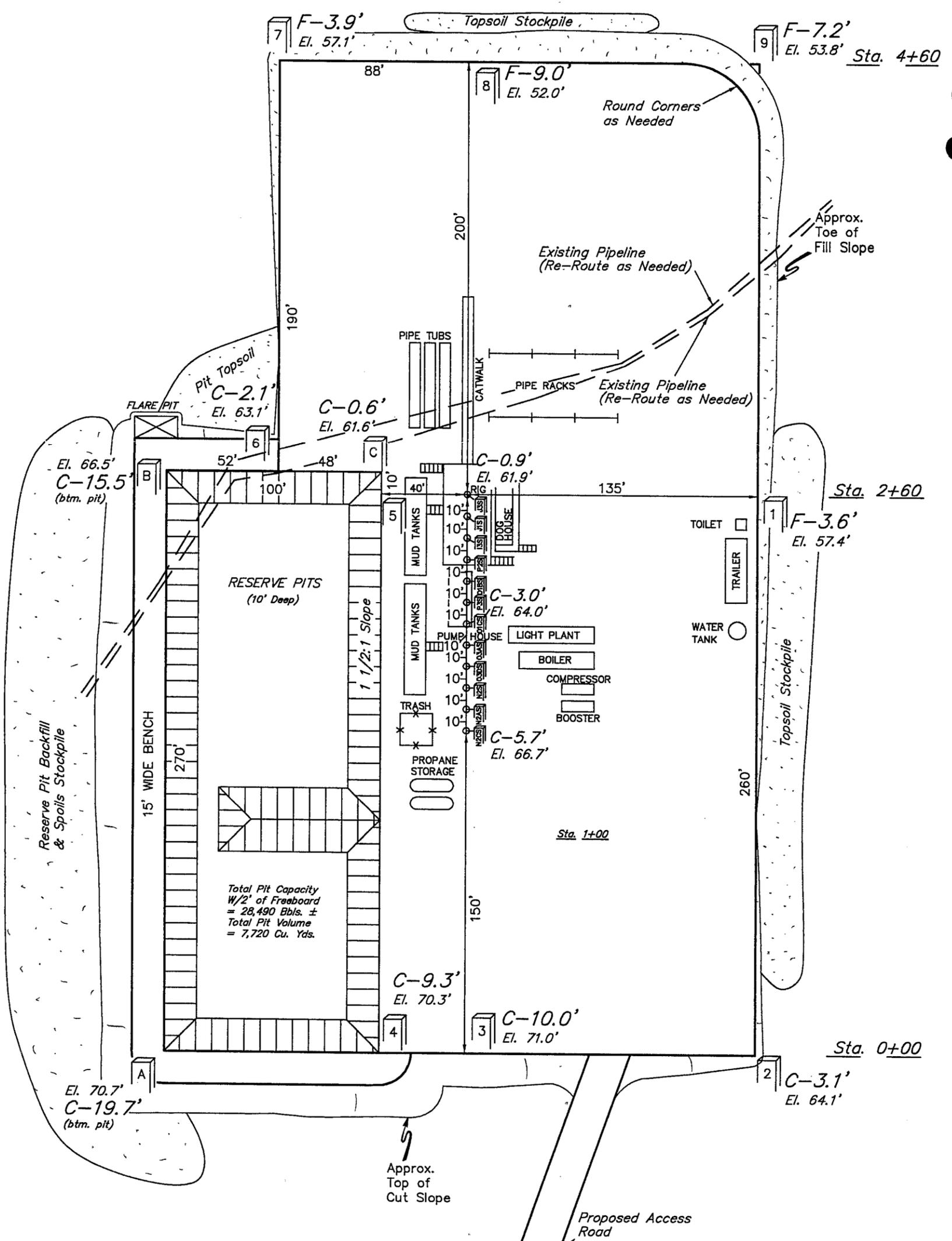


FIGURE #1

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

Kerr-McGee Oil & Gas Onshore LP

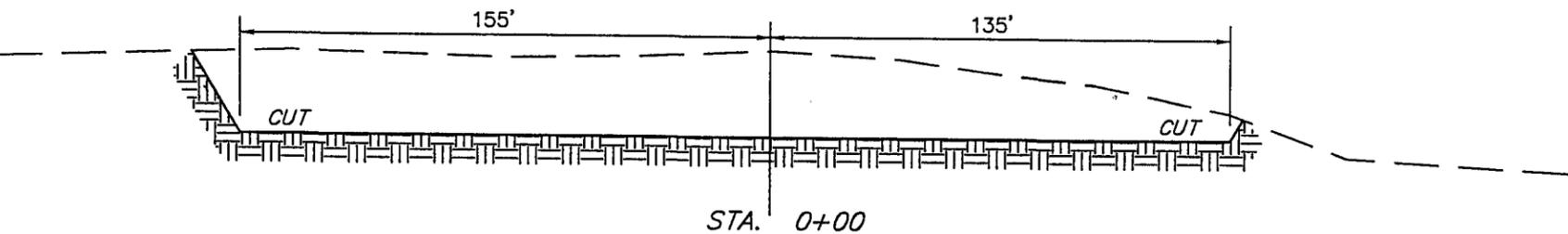
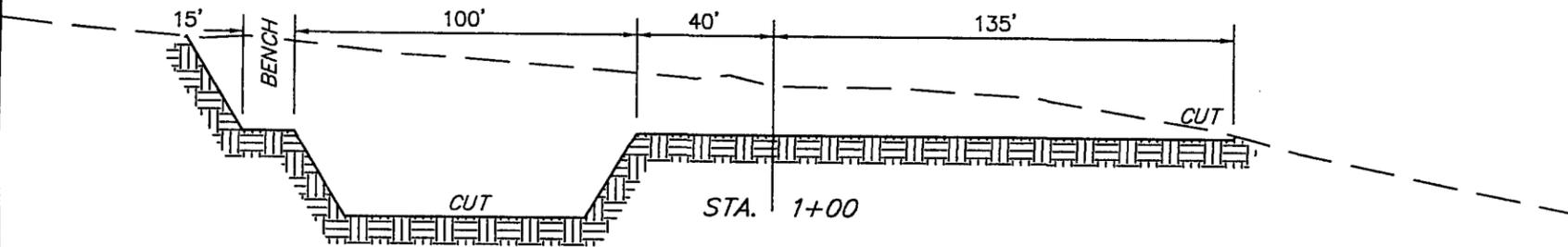
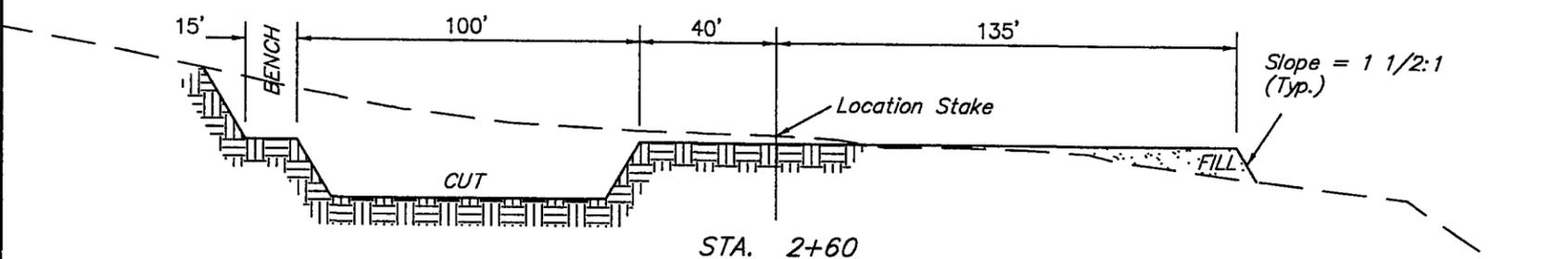
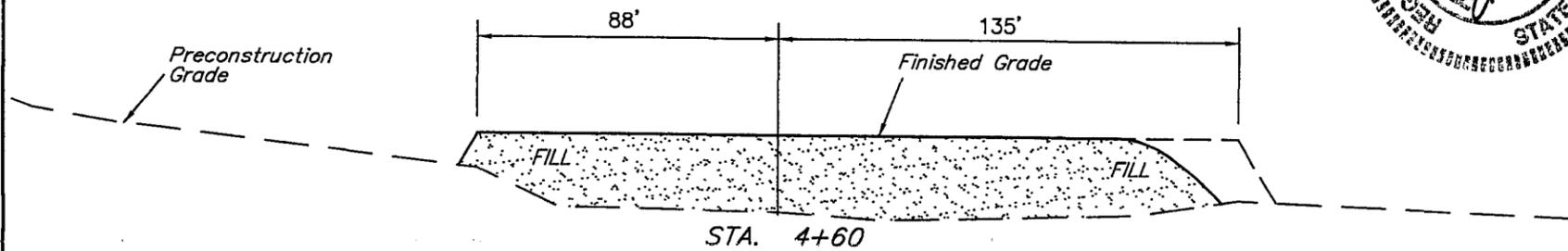
TYPICAL CROSS SECTIONS FOR

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

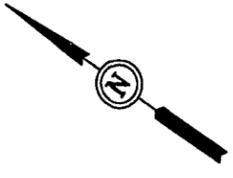
CUT	
(12") Topsoil Stripping	= 5,320 Cu. Yds.
Remaining Location	= 22,710 Cu. Yds.
<b>TOTAL CUT</b>	<b>= 28,030 CU.YDS.</b>
<b>FILL</b>	<b>= 12,740 CU.YDS.</b>

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

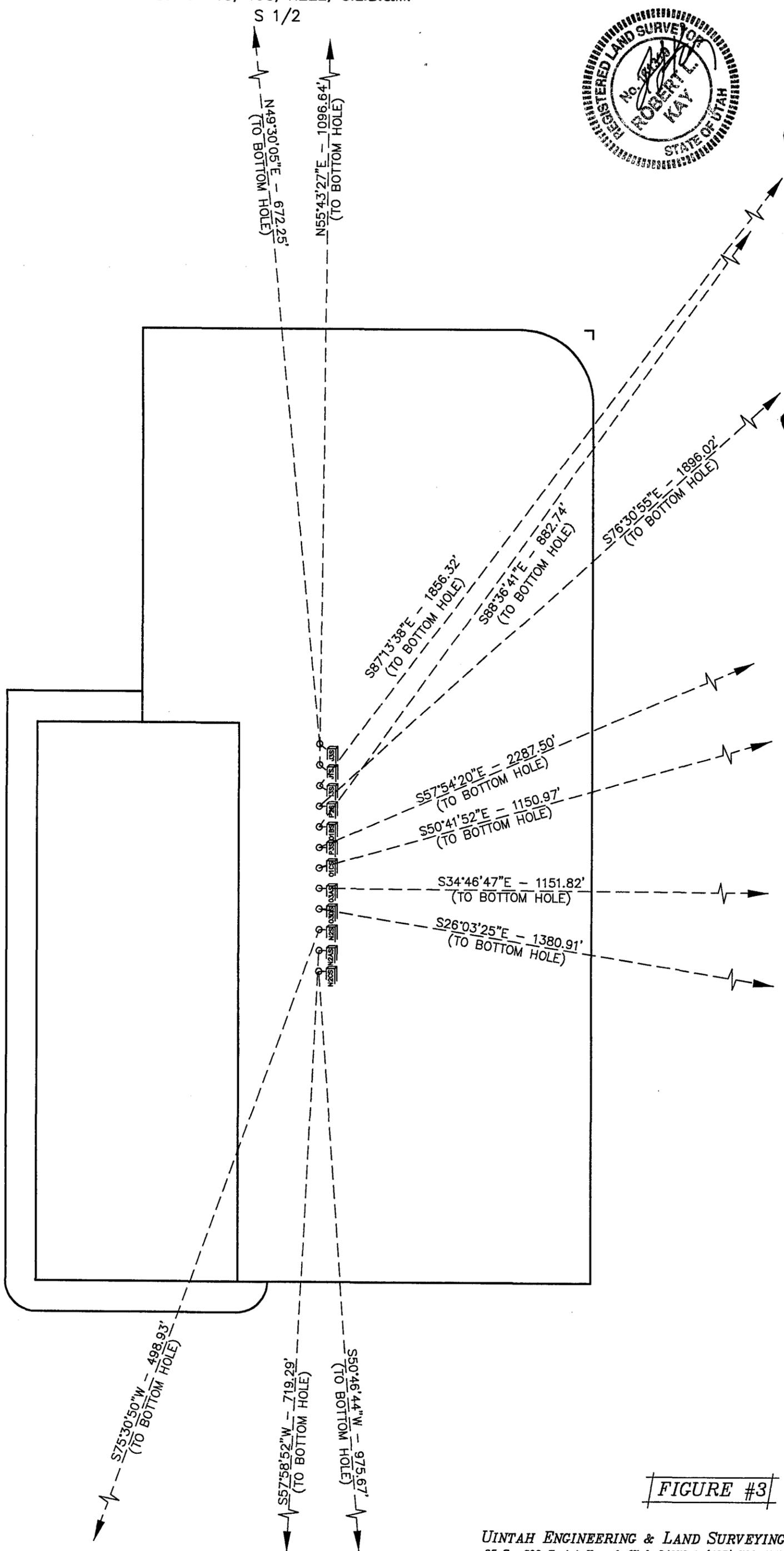


FIGURE #3

**WORKSHEET  
APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 11/20/2007

API NO. ASSIGNED: 43-047-39847

WELL NAME: NBU 922-18N2CS  
 OPERATOR: KERR-MCGEE OIL & GAS ( N2995 )  
 CONTACT: SHEILA UPCHEGO

PHONE NUMBER: 435-781-7024

PROPOSED LOCATION:

*SESW*

NESW 18 090S 220E  
 SURFACE: 1390 FSL 2220 FWL  
 BOTTOM: 0775 FSL 1462 FWL  
 COUNTY: UINTAH  
 LATITUDE: 40.03256 LONGITUDE: -109.4819  
 UTM SURF EASTINGS: 629526 NORTHINGS: 4432265  
 FIELD NAME: NATURAL BUTTES ( 630 )

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

LEASE TYPE: 1 - Federal  
 LEASE NUMBER: UTU-0359  
 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: 179-14  
Eff Date: 12-2-1999  
Siting: 460' br u b d r g & uncomm. Tracts
- R649-3-11. Directional Drill

COMMENTS: See Separate file

STIPULATIONS: 1- See in Approval  
2- OIL SHALE



# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

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

IN REPLY REFER TO:  
3160  
(UT-922)

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#	WELLNAME	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 922-18N2CS Well, Surface Location 1390' FSL, 2220' FWL, NE SW, Sec. 18,  
T. 9 South, R. 22 East, Bottom Location 775' FSL, 1462' FWL, SE SW, 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 43-047-39847.

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 922-18N2CS  
API Number: 43-047-39847  
Lease: UTU-0359

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

NOV - 5 2007

BLM  
FEDERAL BUREAU OF LAND MANAGEMENT  
OMB No. 1004-0136

Expires November 30, 2000

RECEIVED  
VERNAL FIELD OFFICE  
2007 NOV 28 PM 1:03

Form 3160-3  
(August 1999)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work:  DRILL  REENTER  
b. Type of Well:  Oil Well  Gas Well  Other  Single Zone  Multiple Zone

5. Lease Serial No.  
**UTU-0359**  
6. If Indian, Allottee or Tribe Name  
**TRIBAL SURFACE**  
7. If Unit or CA Agreement, Name and No.  
**UNIT #891008900A**  
8. Lease Name and Well No.  
**NBU 922-18N2CS**  
9. API Well No.  
**43 047 39847**  
10. Field and Pool, or Exploratory  
**NATURAL BUTTES**  
11. Sec., T., R., M., or Blk, and Survey or Area  
**SEC. 18, T9S, R22E**  
12. County or Parish  
**UINTAH**  
13. State  
**UTAH**

2. Name of Operator  
**KERR MCGEE OIL AND GAS ONSHORE LP**  
3A. Address  
**1368 SOUTH 1200 EAST VERNAL, UT 84078**  
3b. Phone No. (include area code)  
**(435) 781-7024**

4. Location of Well (Report location clearly and in accordance with any State requirements. \*)  
At surface **NE/SW 1390'FSL, 2220'FWL**  
At proposed prod. Zone **SE/SW 775'FSL, 1462'FWL**

14. Distance in miles and direction from nearest town or post office\*  
**16.6 +/- MILES FROM OURAY, UTAH**

15. Distance from proposed\* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) **1390'**  
16. No. of Acres in lease **162.39**  
17. Spacing Unit dedicated to this well **40.00**

18. Distance from proposed location\* to nearest well, drilling, completed, applied for, on this lease, ft. **REFER TO TOPO C**  
19. Proposed Depth **9889'**  
20. BLM/BIA Bond No. on file **RLB0005239**

21. Elevations (Show whether DF, KDB, RT, GL, etc.) **4861'GL**  
22. Approximate date work will start\* **UPON APPROVAL**  
23. Estimated duration **TO BE DETERMINED**

24. Attachments

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

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

25. Signature: *Sheila Upchego*  
Name (Printed/Typed) **SHEILA UPCHEGO**  
Date **11/27/2007**  
Title **SENIOR LAND ADMIN SPECIALIST**

Approved by (Signature): *James Keneka*  
Name (Printed/Typed) **JAMES KENKA**  
Date **3-7-2008**  
Title **Assistant Field Manager**  
Office **VERNAL FIELD OFFICE**  
**Lands & Mineral Resources**

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. **CONDITIONS OF APPROVAL ATTACHED**

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

\*(Instructions on reverse)

**NOTICE OF APPROVAL**

**UDOGM**

RECEIVED  
MAR 17 2008  
DIV. OF OIL, GAS & MINING

No Nos  
08 MIC 0118A



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

***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 determination will be made by the AO as to what mitigation may be necessary for the discovered paleontologic material before construction can continue.

***Site Specific COAs:***

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

### **SITE SPECIFIC DOWNHOLE COAs:**

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

## OPERATING REQUIREMENT REMINDERS:

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

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

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

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 <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. <b>UTU-0359</b>
2. Name of Operator <b>Kerr-McGee Oil &amp; Gas Onshore, LP</b>		6. If Indian, Allottee, or Tribe Name <b>Ute Tribe</b>
3a. Address <b>P.O. Box 173779, Denver, CO 80217-3779</b>	3b. Phone No. (include area code) <b>720.929.6226</b>	7. If Unit or CA. Agreement Name and/or No. <b>UTU-63047A</b>
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) <b>NE SW Sec. 18 T 9S R 22E</b> <b>1419 FSL 2613 FEL</b>		8. Well Name and No. <b>NBU 922-18N2CS</b>
		9. API Well No. <b>43-047-39847</b>
		10. Field and Pool, or Exploratory Area <b>Natural Buttes</b>
		11. County or Parish, State <b>Utah</b>

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
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and abandon	<input type="checkbox"/> Temporarily Abandon	<b>Surface Location</b>
	<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 NESW 1419' FSL & 2613' FEL. The bottomhole location has not been changed.

Approved by the  
Utah Division of  
Oil, Gas and Mining

COPY SENT TO OPERATOR

629527X      40.032642  
4432274Y      -109.481917

Date: 12.4.2008

Initials: K5

Date: 12-01-08

By: [Signature]

Federal Approval  
Action is Necessary

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

Name (Printed/ Typed) <b>Kevin McIntyre</b>	Title <b>Regulatory Analyst</b>
Signature <u>[Signature]</u>	Date <b>11/11/08</b>

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

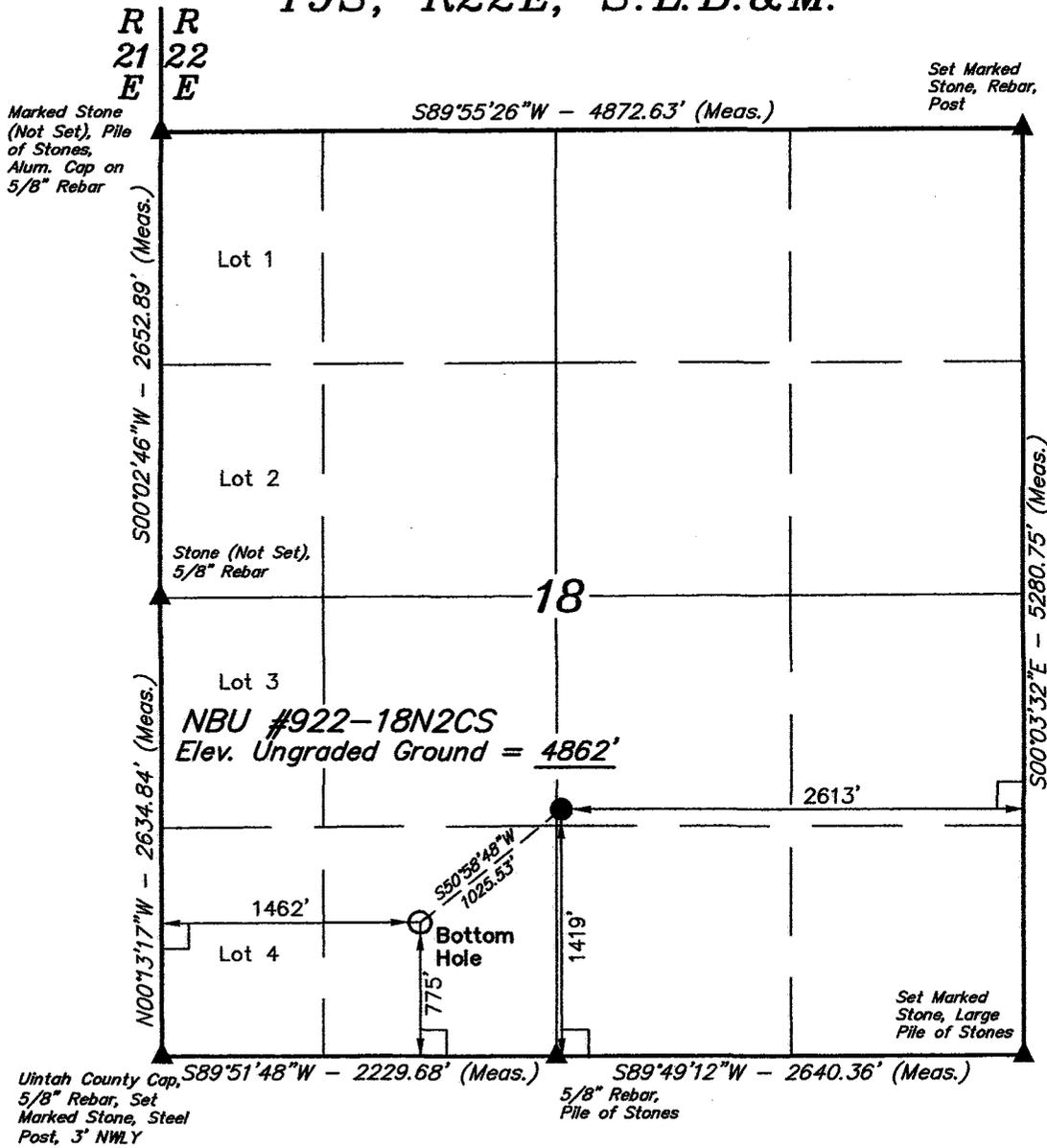
Approved by	Title	Date
Conditions of approval, if any are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office	

RECEIVED

NOV 17 2008

DIV. OF OIL, GAS & MINING

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



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

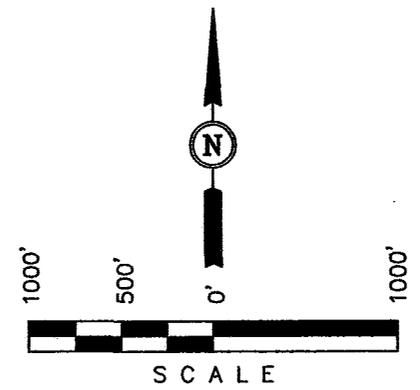
Well location, NBU #922-18N2CS, located as shown in the NE 1/4 SW 1/4 of Section 18, T9S, R22E, S.L.B.&M., Uintah County, Utah.

**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 PLAN 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.

<b>NAD 83 (TARGET BOTTOM HOLE)</b>		<b>NAD 83 (SURFACE LOCATION)</b>	
LATITUDE = 40°01'51.13" (40.030869)	LONGITUDE = 109°29'07.75" (109.485486)	LATITUDE = 40°01'57.50" (40.032639)	LONGITUDE = 109°28'57.51" (109.482642)
<b>NAD 27 (TARGET BOTTOM HOLE)</b>		<b>NAD 27 (SURFACE LOCATION)</b>	
LATITUDE = 40°01'51.25" (40.030903)	LONGITUDE = 109°29'05.28" (109.484800)	LATITUDE = 40°01'57.63" (40.032675)	LONGITUDE = 109°28'55.04" (109.481956)

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 922-18N2CS  
T9S-R22E  
Section 18: SESW  
Surface: 1419' FSL, 2613' FEL  
Bottom Hole: 775' FSL, 1462' FWL  
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 922-18N2CS 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

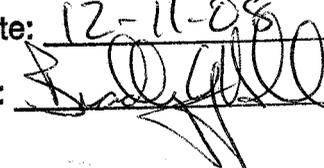
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>		5. LEASE DESIGNATION AND SERIAL NUMBER: <b>UTU-0359</b>
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: <b>Ute Tribe</b>
1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		7. UNIT or CA AGREEMENT NAME: <b>891008900A</b>
2. NAME OF OPERATOR: <b>Kerr-McGee Oil &amp; Gas Onshore, LP</b>		8. WELL NAME and NUMBER: <b>NBU 922-18N2CS</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>		9. API NUMBER: <b>4304739847</b>
4. LOCATION OF WELL FOOTAGES AT SURFACE: <b>1419' FSL &amp; 2613' FEL</b> COUNTY: <b>Uintah</b> QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: <b>NWSE 18 9S 22E</b> STATE: <b>UTAH</b>		10. FIELD AND POOL, OR WILDCAT: <b>Natural Buttes Field</b>

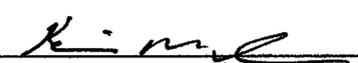
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate)  Approximate date work will start: _____  <input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only)  Date of work completion: _____	<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"/> 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: 12-11-08  
By: 

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

(This space for State use only)

**COPY SENT TO OPERATOR**

Date: 12-16-2008

Initials: KS

(5/2000)

(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:** 4304739847  
**Well Name:** NBU 922-18N2CS  
**Location:** NWSE 1419' FSL & 2613' 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**



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-0359

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: NE/SW SEC. 18, T9S, R22E 1380'FSL, 2220'FWL  
BOTTOM HOLE: SE/SW SEC. 18, T9S, R22E 775'FSL, 1462'FWL

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

8. Well Name and No.  
NBU 922-18N2CS

9. APT Well No.  
4304739847

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 12/13/2008 AT 1200 HRS.

RECEIVED  
DEC 13 2008

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

Name (Printed/Typed)  
SHEILA UPCHEGO

Title  
REGULATORY ANALYST

Signature *Sheila Upchego*

Date  
12/15/2008

DIV. OF OIL, GAS & MINING

**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.

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
4304739843	NBU 922-18J1S		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>	12/14/2008			<i>12/30/08</i>	
Comments: MIRU PETE MARTIN BUCKET RIG. <i>WSMVD</i> SPUD WELL LOCATION ON 12/14/2008 AT 2200 HRS. <i>BHL = NWSE</i>							

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304739842	NBU 922-18J3S		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>	12/14/2008			<i>12/30/08</i>	
Comments: MIRU PETE MARTIN BUCKET RIG. <i>WSMVD</i> SPUD WELL LOCATION ON 12/14/2008 AT 1030 HRS. <i>BHL = NWSE</i>							

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304739847	NBU 922-18N2CS		NESW	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>	12/13/2008			<i>12/30/08</i>	
Comments: MIRU PETE MARTIN BUCKET RIG. <i>WSMVD</i> SPUD WELL LOCATION ON 12/13/2008 AT 1200 HRS. <i>BHL = SESW</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)

SHEILA UPCHEGO

Name (Please Print)

Signature

SENIOR LAND SPECIALIST

12/15/2008

Title

Date

RECEIVED

DEC 17 2008

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-0359

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: NE/SW SEC. 18, T9S, R22E 1390'FSL, 2220'FWL  
BOTTOM HOLE: SE/SW SEC. 18, T9S, R22E 775'FSL, 1462'FWL

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

8. Well Name and No.  
NBU 922-18N2CS

9. API Well No.  
4304739847

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>SET SURFACE</u>
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	<u>CSG</u>
	<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.)

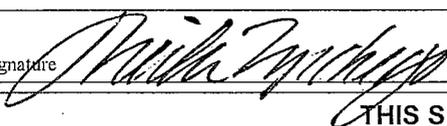
MIRU PROPETRO AIR RIG ON 12/26/2008. DRILLED 12 1/4" SURFACE HOLE TO 2830'. RAN 9 5/8" 36# J-55 SURFACE CSG. LEAD CMT W/265 SX HIFILL CLASS G @11.0 PPG 3.82 YIELD. TAILED CMT W/200 SX PREM CLASS G @15.8 PPG 1.15 YIELD. GOOD RETURNS THROUGH OUT JOB 27 +/- BBL LEAD CMT TO PIT. RAN 200' OF 1" PIPE, CMT W/150 SX PREM CLASS G @ 15.8 PPG 1.15 YIELD. DOWN 1" PIPE GOOD CMT TO SURFACE AND FELL BACK. TOP OUT W/100 SX PREM CLASS G @ 15.8 PPG 1.15 YIELD. 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  
01/02/2009

**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**  
**JAN 05 2009**

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

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-0359

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: NE/SW SEC. 18, T9S, R22E 1390'FSL, 2220'FWL  
BOTTOM HOLE: SE/SW SEC. 18, T9S, R22E 775'FSL, 1462'FWL

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

8. Well Name and No.  
NBU 922-18N2CS

9. API Well No.  
4304739847

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>FINAL DRILLING</u>
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	<u>OPERATIONS</u>
	<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.)

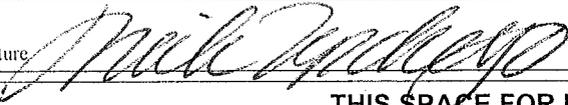
FINISHED DRILLING FROM 2830' TO 9935' ON 04/19/2009. RAN 4 1/2" 11.6# I-80 PRODUCTION CSG. LEAD CMT W/460 SX PREM LITE II @11.0 PPG 3.38 YIELD. TAILED CMT W/1450 SX 50/50 POZ @14.3 PPG 1.31 YIELD. DROP PLUG & DISPLACE W/154 BBLs H2O + ADDITIVES GOOD RETURNS PRIOR TO DROPPING PLUG. LOST RETURNS UPON STARTING DISPLACEMENT LIFT PRESSURE @2700 BUMP PLUG W/3150 PSI FLOATS HELD W/100 BBL BACK. INSTALL PACKOFF AND TEST TO 5000#. PREP RIG FOR SKID RIG.

RELEASED H&P 298 RIG ON 04/21/2009 AT 0300 HRS.

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

Name (Printed/Typed)  
SHEILA UPCHEGO

Title REGULATORY ANALYST

Signature 

Date 04/24/2009

**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.

**RECEIVED**

**APR 30 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-0359
<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 922-18N2CS
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.	<b>9. API NUMBER:</b> 43047398470000
<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> 1419 FSL 2613 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: 9/12/2009	<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
	<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.  
 THE SUBJECT WELL WAS PLACED ON PRODUCTION ON 09/12/2009 AT 9:25 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 922-18N2CS [RED]	Spud Conductor: 12/13/2008	Spud Date: 12/26/2008
Project: UTAH-UINTAH	Site: NBU 922-18J PAD	Rig Name No: PROPETRO/, H&P 298/298
Event: DRILLING	Start Date: 12/26/2008	End Date: 4/21/2009
Active Datum: RKB @4,887.01ft (above Mean Sea Level)	UWI: NBU 922-18N2CS	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
12/26/2008	16:30 - 0:00	7.50	DRLSUR	02		P		MOVE IN AND RIG UP AIR RIG SPUD WELL @ 1630 HR 12/26/08 DA AT REPORT TIME 540'
12/27/2008	0:00 - 12:00	12.00	DRLSUR	02		P		RIG DRILLING AHEAD NO WATER 990'
	12:00 - 0:00	12.00	DRLSUR	02		P		RIG DRILLING AHEAD NO WATER 1410'
12/28/2008	0:00 - 12:00	12.00	DRLSUR	02		P		RIG DRILLING AHEAD NO WATER 1650' DA
	12:00 - 0:00	12.00	DRLSUR	02		P		RIG DRILLING AHEAD NO WATER 1890' DA
12/29/2008	0:00 - 12:00	12.00	DRLSUR	02		P		RIG DRILLING AHEAD NO WATER 2200' RUN SURVEY 1.5 DEG.
	12:00 - 0:00	12.00	DRLSUR	02		P		RIG DRILLING AHEAD NO WATER 2520'
12/30/2008	0:00 - 12:00	12.00	DRLSUR	02		P		RIG T/D @ 2830' CONDITION HOLE 1 HR RUN SURVEY 1.5 DEG.
	12:00 - 16:00	4.00	DRLSUR	06		P		TRIP DP OUT OF HOLE
	16:00 - 20:00	4.00	DRLSUR	12		P		RUN 2797' OF 9 5/8 CSG AND 200' OF 1" PIPE RIG DOWN AIR RIG
	20:00 - 21:00	1.00	DRLSUR	12		P		CEMENT 1ST STAGE WITH 265 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 + - 27 BBL LEAD CMT TO PIT
	21:00 - 21:30	0.50	DRLSUR	12		P		1ST TOP JOB 150 SKS DOWN 1" PIPE GOOD CMT TO SURFACE AND FELL BACK WOC
	21:30 - 22:30	1.00	DRLSUR	12		P		2ND TOP JOB 100 SKS DOWN BS GOOD CMT TO SURFACE AND STAYED AT SURFACE
	22:30 - 22:30	0.00	DRLSUR					NO VISIBLE ELAKS PIT 10% FULL WORT
4/6/2009	18:00 - 0:00	6.00	RDMO	01	E	P		RIG DOWN EQUIPMENT TO MOVE
4/7/2009	0:00 - 6:00	6.00	RDMO	21	C	P		WAIT ON DAYLIGHT / SAFETY MEETING W/ WESTROC TRUCKING, J&C CRANE SERVICE & RIG CREWS
	6:00 - 20:00	14.00	RDMO	01	A	P		RIG DOWN EQUIPMENT / LOWER DERRICK / MOVE EQUIPMENT TO NEW LOCATION / SET PITS, SHAKERS, PUMPS, MAIN GENERATORS, SCR HOUSE, MCC HOUSE, FUEL TANK, SKID PACKAGE, DRAWWORKS, MUD BOAT SKID AND ALL COMPONETS OF THE SUB-STRUCTURE / 90% MOVED / 40% RIGGED UP
	20:00 - 0:00	4.00	RDMO	21	C	P		SUSPEND OPERATIONS / WAIT ON DAYLIGHT TO RIG UP
4/8/2009	0:00 - 6:00	6.00	MIRU	21	C	P		WAIT ON DAYLIGHT TO RIG UP
	6:00 - 22:00	16.00	MIRU	01	B	P		SET IN REMAINING EQUIPMENT / RAISE FLOOR / ATTACH DERRICK AND RAISE SAME / ATTACH BOP HANDLER & DOGHOUSE - RAISE TO POSITION / RIG UP MUD PITS / RUN ELECTRICAL LINES, WATER LINES & AIR LINES
	22:00 - 0:00	2.00	MIRU	21	E	P		WAIT ON MIDNIGHT FOR CREW CHANGE / EXISTING CREWS OUT OF HOURS TO WORK
4/9/2009	0:00 - 10:00	10.00	MIRU	01	B	P		RIG UP YELLOW DOGS TO CIRCULATE RESERVE PIT / HOOK UP BLEED OFF & FLARE LINES / SPOOL UP TOP DRIVE
	10:00 - 17:00	7.00	PRSPD	14	A	P		INSTALL D.T.O. & PRESSURE TEST SAME TO 5000 PSI (F.M.C.) / NIPPLE UP B.O.P. EQUIPMENT, HOOK UP FLOW LINE + CHOKE LINES + HYDRAULIC LINES + GAS BUSTER + KILL LINES & FILL LINES

**RECEIVED** September 15, 2009

**US ROCKIES REGION  
Operation Summary Report**

Well: NBU 922-18N2CS [RED]	Spud Conductor: 12/13/2008	Spud Date: 12/26/2008
Project: UTAH-UJINTAH	Site: NBU 922-18J PAD	Rig Name No: PROPETRO/, H&P 298/298
Event: DRILLING	Start Date: 12/26/2008	End Date: 4/21/2009
Active Datum: RKB @4,887.01ft (above Mean Sea Level)	UWI: NBU 922-18N2CS	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	17:00 - 22:00	5.00	PRSPD	15	A	P		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
	22:00 - 22:30	0.50	PRSPD	14	B	P		INSTALL WEAR BUSHING IN WELL HEAD
	22:30 - 0:00	1.50	PRSPD	06	A	P		SAFETY MEETING / M.I.R.U. WEATHERFORD EQUIPMENT / PICK UP BIT #1, DIRECTIONAL BHA + DRILL PIPE
4/10/2009	0:00 - 6:00	6.00	PRSPD	06	A	P		PICK UP BIT #1, DIRECTIONAL BHA + DRILL PIPE TO TAG @ 2772' / R.D.M.O. WEATHERFORD EQUIPMENT
	6:00 - 7:00	1.00	PRSPD	11	E	P		CONDUCT PRE-SPUD INSPECTION ON EQUIPMENT PRIOR TO DRILLING - MAKE ADJUSTMENTS AS NEEDED
	7:00 - 7:30	0.50	PRSPD	07	A	P		RIG SERVICE
	7:30 - 9:00	1.50	PRSPD	11	E	P		PRESSURE TEST PUYMPS & MUD LINES TO 2500 PSI / MAKE REPAIRS AS NEEDED
	9:00 - 11:00	2.00	PRSPD	02	F	P		DRILL CEMENT F/ 2772' - T/ 2833'
	11:00 - 13:30	2.50	DRLPRO	02	D	P		SPUD PRODUCTION HOLE @ 11:00 HRS / DRILL (ROTATE & SLIDE) F/ 2833' - T/ 3024' = 191" @ 76.4 fph / 10k-12k WOB / TOP DRV RPM 30 / #2 PUMP @ 95 SPM = 427 GPM / SPP ON-OFF BTM 1550-1300 / TQ ON-OFF BTM 4k-3k ft/lbs / DRAG UP-DWN-ROT 110-95-89 / 8.6 ppg - 26 vis (DRILL W/ H2O + POLYMER - CIRCULATING RESERVE PIT) 2'-3' INTERMITTENT FLARE WHILE DRILLING
	13:30 - 17:30	4.00	DRLPRO	02	D	P		DRILL (ROTATE & SLIDE) F/ 3024' - T/ 3312' = 288' @ 77 fph / 14k-16k WOB / TOP DRV RPM 30 / #2 PUMP @ 100 SPM = 450 GPM / SPP ON-OFF BTM 1555-1300 / TQ ON-OFF BTM 4k-3k ft/lbs / DRAG UP-DWN-ROT 118-99-105 / 8.6 ppg - 26 vis (DRILL W/ H2O + POLYMER - CIRCULATING RESERVE PIT) 2'-3' INTERMITTENT FLARE WHILE DRILLING
	17:30 - 18:00	0.50	DRLPRO	05	C	Z		CIRCULATE & CONDITION HOLE FOR TRIP (MWD FAILURE)
	18:00 - 19:00	1.00	DRLPRO	06	H	X		P.O.O.H. T/ 2780' / WELL STARTED FLOWING W/ .5 BBLs GAIN
	19:00 - 20:00	1.00	DRLPRO	05	B	Z		BUILD AND SPOT 100 BBL PILL AT CASING SHOE (2800')
	20:00 - 22:00	2.00	DRLPRO	06	J	Z		P.O.O.H. / MWD - FAILURE CAUSED BY MAGNETIZED MUD MOTOR (MOTOR WAS CHECKED PRIOR TO RUNNING IN HOLE AND WAS FOUND TO BE MAGNETIZED, PROCEDURES WERE FOLLOWED TO DE-MAGNETIZE MOTOR AND IT WAS BROUGHT INTO MAGNETIC LIMITS PRIOR TO RUNNING INTO HOLE)
	22:00 - 23:30	1.50	DRLPRO	06	J	Z		CHANGE OUT MUD MOTOR + MWD TOOLS / ADD 10' PONY NON-MAG COLLAR BETWEEN MOTOR & MWD TOOLS / SCRIBE & ORIENTATE NEW EQUIPMENT
	23:30 - 0:00	0.50	DRLPRO	06	J	Z		T.I.H. / RE-SURVEY EXISTING HOLE - NO PROBLEMS

**RECEIVED** September 15, 2009

**US ROCKIES REGION  
Operation Summary Report**

Well: NBU 922-18N2CS [RED]      Spud Conductor: 12/13/2008      Spud Date: 12/26/2008  
 Project: UTAH-UINTAH      Site: NBU 922-18J PAD      Rig Name No: PROPETRO/, H&P 298/298  
 Event: DRILLING      Start Date: 12/26/2008      End Date: 4/21/2009  
 Active Datum: RKB @4,887.01ft (above Mean Sea Level)      UWI: NBU 922-18N2CS

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
4/11/2009	0:00 - 1:30	1.50	DRLPRO	06	J	Z		T.I.H. - RUN CHECK SHOTS TO VERIFY PREVIOUS DATA ON WELL - ORIGINAL DATA GOOD
	1:30 - 6:00	4.50	DRLPRO	02	D	P		DRILL (ROTATE & SLIDE) F/ 3312' - T/ 3512' = 200' @ 44.4 fph / 16k-18k WOB / TOP DRV RPM 40 / #2 PUMP @ 100 SPM = 450 GPM / MOTOR 72 RPM / SPP ON-OFF BTM 1320-1180 / TQ ON-OFF BTM 4k-2k ft/lbs / DRAG UP-DWN-ROT 112-102-106 / 8.6 ppg - 26 vis (DRILL W/ H2O + POLYMER - CIRCULATING RESERVE PIT) 10'-11' SLIDES MADE EVERY 30' ON 93' STANDS / NO FLARE
	6:00 - 17:30	11.50	DRLPRO	02	D	P		DRILL (ROTATE & SLIDE) F/ 3512' - T/ 4100' = 588' @ 51.13 fph / 16k-18k WOB / TOP DRV RPM 30-40 / #2 PUMP @ 105 SPM = 472 GPM / MOTOR 76 RPM / SPP ON-OFF BTM 1700-1400 / TQ ON-OFF BTM 7k-3k ft/lbs / DRAG UP-DWN-ROT 121-109-113 / 8.6 ppg - 26 vis (DRILL W/ H2O + POLYMER - CIRCULATING RESERVE PIT) 12'-20' SLIDES MADE EVERY 30' ON 93' STANDS / NO FLARE
	17:30 - 18:00	0.50	DRLPRO	07	A	P		LUBRICATE RIG & EQUIPMENT / WORK PIPE RAMS
	18:00 - 0:00	6.00	DRLPRO	02	D	P		DRILL (ROTATE & SLIDE) F/ 4100' - T/ 4405' = 305' @ 50.8 fph / 18k-20k WOB / TOP DRV RPM 30-32 / #1 PUMP @ 105 SPM = 472 GPM / MOTOR 76 RPM / SPP ON-OFF BTM 1720-1460 / TQ ON-OFF BTM 7k-3k ft/lbs / DRAG UP-DWN-ROT 131-110-120 / 8.6 ppg - 26 vis (DRILL W/ H2O + POLYMER - CIRCULATING RESERVE PIT) 10'-13' SLIDES MADE EVERY 30' ON 90' STANDS - NO FLARE
4/12/2009	0:00 - 3:30	3.50	DRLPRO	02	D	P		DRILL (ROTATE & SLIDE) F/ 4405' - T/ 4555' = 150' @ 42.8 fph / 18k-22k WOB / TOP DRV RPM 30-32 / #1 PUMP @ 105 SPM = 472 GPM / MOTOR 76 RPM / SPP ON-OFF BTM 1780-1495 / TQ ON-OFF BTM 7k-3k ft/lbs / DRAG UP-DWN-ROT 133-109-122 / 8.6 ppg - 26 vis (DRILL W/ H2O + POLYMER - CIRCULATING RESERVE PIT) 13'-16' SLIDES MADE EVERY 30' ON 90' STANDS - NO FLARE / PUMPING GEL SWEEPS
	3:30 - 5:00	1.50	DRLPRO	21	D	Z		LOST MWD SIGNAL - TROUBLE SHOOT SYSTEM & PULL 2 STANDS TO ACQUIRE SIGNAL
	5:00 - 6:00	1.00	DRLPRO	02	D	P		DRILL (ROTATE & SLIDE) F/ 4555' - T/ 4605" = 50' @ 50 fph / 18k-22k WOB / TOP DRV RPM 30-32 / #1 PUMP @ 105 SPM = 472 GPM / MOTOR 76 RPM / SPP ON-OFF BTM 1780-1495 / TQ ON-OFF BTM 7k-3k ft/lbs / DRAG UP-DWN-ROT 134-109-122 / 8.6 ppg - 26 vis (DRILL W/ H2O + POLYMER - CIRCULATING RESERVE PIT) 13'-18' SLIDES MADE EVERY 30' ON 93' STANDS - NO FLARE / PUMPING GEL SWEEPS
	6:00 - 17:30	11.50	DRLPRO	02	D	P		DRILL (ROTATE & SLIDE) F/ 4605" - T/ 4980" = 375" @ 31.25 fph / 18k-28k WOB / TOP DRV RPM 32 / #1 PUMP @ 105 SPM = 472 GPM / MOTOR 76 RPM / SPP ON-OFF BTM 1780-1495 / TQ ON-OFF BTM 8k-5k ft/lbs / DRAG UP-DWN-ROT 148-110-125 / 8.6 ppg - 26 vis (DRILL W/ H2O + POLYMER - CIRCULATING RESERVE PIT) 57'-62" SLIDES MADE ON 93' STANDS / DRILL STRING "STICKING" AND MOTOR "GRABBING" WHILE SLIDING DURING TRANSITION FROM GREEN RIVER TO WASATCH INCREASED GEL SWEEPS TO REDUCE STICKING - NO FLARE

**RECEIVED** September 15, 2009

**US ROCKIES REGION  
Operation Summary Report**

Well: NBU 922-18N2CS [RED] Spud Conductor: 12/13/2008 Spud Date: 12/26/2008  
 Project: UTAH-UINTAH Site: NBU 922-18J PAD Rig Name No: PROPETRO/, H&P 298/298  
 Event: DRILLING Start Date: 12/26/2008 End Date: 4/21/2009  
 Active Datum: RKB @4,887.01ft (above Mean Sea Level) UWI: NBU 922-18N2CS

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	17:30 - 18:00	0.50	DRLPRO	07	A	P		SERVICE RIG & EQUIPMENT / WORK PIPE RAMS DRILL (ROTATE & SLIDE) F/ 4985" - T/ 5233' = 248' @ 41.3 fph / 18k-28k WOB / TOP DRV RPM 32 / #2 PUMP @ 105 SPM = 472 GPM / MOTOR 76 RPM / SPP ON-OFF BTM 1860-1600 / TQ ON-OFF BTM 8k-4k ft/lbs / DRAG UP-DWN-ROT 150-114-131 / 8.6 ppg - 26 vis (DRILL W/ H2O + POLYMER - CIRCULATING RESERVE PIT) 9' TO 14' SLIDES MADE EACH 30' ON 93' STANDS / TOP OF WASATCH ESTIMATED @ 4890' (M.D. - 4785 T.V.D.) - FORMATION OIL TO SURFACE @ 4985' (M.D.) - NO FLARE / PUMPING GEL SWEEPS
	18:00 - 0:00	6.00	DRLPRO	02	C	P		
4/13/2009	0:00 - 9:00	9.00	DRLPRO	02	D	P		DRILL (ROTATE & SLIDE) F/ 5233' - T/ 5855' = 622' @ 69.1 fph / 18k-28k WOB / TOP DRV RPM 32 / #2 PUMP @ 105 SPM = 472 GPM / MOTOR 76 RPM / SPP ON-OFF BTM 1978-1700 / TQ ON-OFF BTM 12k-10k ft/lbs / DRAG UP-DWN-ROT 162-120-136 / 8.6 ppg - 26 vis (DRILL W/ H2O + POLYMER - CIRCULATING RESERVE PIT) 9' TO 15' SLIDES MADE EACH 30' ON 93' STANDS / NO FLARE / PUMPING GEL/LIME SWEEPS
	9:00 - 17:30	8.50	DRLPRO	02	D	P		DRILL (ROTATE & SLIDE) F/ 5855' - T/ 6291' = 436' @ 51.29 fph / 18k-28k WOB / TOP DRV RPM 32 / #2 PUMP @ 105 SPM = 472 GPM / MOTOR 76 RPM / SPP ON-OFF BTM 2080-1800 / TQ ON-OFF BTM 12k-10k ft/lbs / DRAG UP-DWN-ROT 173-124-146 / 8.6 ppg - 26 vis (DRILL W/ H2O + POLYMER - CIRCULATING RESERVE PIT) 6' TO 18' SLIDES MADE EACH 30' ON 93' STANDS / 3'-5' FLARE 6145'-6155' (M.D.) / PUMPING GEL/LIME SWEEPS HOLE STICKY WHILE SLIDING / LOST 300 PSI PUMP PRESSURE IN 5 MINUTES WHILE DRILLING
	17:30 - 18:00	0.50	DRLPRO	07	A	P		SERVICE RIG & EQUIPMENT / CHECK SURFACE EQUIPMENT
	18:00 - 18:30	0.50	DRLPRO	11	E	P		SLOW PUMP RATE TESTED ON #1 & #2 PUMPS W/ SAME LOSS / SURFACE EQUIPMENT PRESSURE TESTED TO 2500 PSI / RIG FLOOR W/ MUD BUCKET FOR WET TRIP
	18:30 - 21:00	2.50	DRLPRO	06	H	Z		P.O.O.H. TO LOCATE CAUSE OF PRESSURE LOSS IN DRILL STRING
	21:00 - 21:00	0.00	DRLPRO	05	B	X		WELL FLOWING AT SHOE (2800') W/ 2'-10' FLARE / 7 BBL GAIN AT SURFACE / CIRCULATE GAS OUT OF HOLE / BUILD & SPOT 60 BBL 9.8 ppg PILL & SPOT @ 2833' / NO FLOW
	21:00 - 23:30	2.50	DRLPRO	06	H	Z		P.O.O.H. / MOTOR SEALS FAILED CAUSING PRESSURE LOSS / CHANGE OUT MOTOR & BIT, LAY DOWN PONY MONEL, SCRIBE & ORIENTATE M.W.D. TOOLS
	23:30 - 0:00	0.50	DRLPRO	06	H	Z		T.I.H. W/ B.H.A.
4/14/2009	0:00 - 1:30	1.50	DRLPRO	06	H	Z		LAY DOWN PONY COLLAR, MUD MOTOR AND BHIT #1 / PICK UP MOTOR & BIT #2 / INSTALL & ORIENTATE DIRECTIONAL TOOLS
	1:30 - 4:30	3.00	DRLPRO	06	J	Z		T.I.H. TO 2800' / BREAKL CIRCULATION / T.I.H. TO 6000' / HOLE TIGHT & STICKY
	4:30 - 5:30	1.00	DRLPRO	03	E	Z		WASH & REAM F/ 6000' - T/ 6291' / RETURNS HEAVY WITH SAND + SHALE

**RECEIVED** September 15, 2009

**US ROOKIES REGION  
Operation Summary Report**

Well: NBU 922-18N2CS [RED] Spud Conductor: 12/13/2008 Spud Date: 12/26/2008  
 Project: UTAH-UINTAH Site: NBU 922-18J PAD Rig Name No: PROPETRO/, H&P 298/298  
 Event: DRILLING Start Date: 12/26/2008 End Date: 4/21/2009  
 Active Datum: RKB @4,887.01ft (above Mean Sea Level) UWI: NBU 922-18N2CS

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	5:30 - 18:00	12.50	DRLPRO	02	C	P		DRILL (ROTATE & SLIDE) F/ 6291' - T/ 6995' = 704' @ 56.32 fph / 18k-28k WOB / TOP DRV RPM 32 / #2 PUMP @ 105 SPM = 472 GPM / MOTOR 76 RPM / SPP ON-OFF BTM 1820-1540 / TQ ON-OFF BTM 8k-6k ft/lbs / DRAG UP-DWN-ROT 180-125-158 / 8.6 ppg - 26 vis (DRILL W/ H2O + POLYMER - CIRCULATING RESERVE PIT) 10' TO 20' SLIDES MADE AT SELECTED INTERVALS ON 93' STANDS / PUMPING GEL/LIME SWEEPS HOLE STICKY WHILE SLIDING / 8056 UNITS TRIP GAS W/ 10'-15' FLARE
	18:00 - 0:00	6.00	DRLPRO	02	D	P		DRILL (ROTATE & SLIDE) F/ 6995' - T/ 7303' = 308' @ 51.33 fph / 18k-28k WOB / TOP DRV RPM 32 / #2 PUMP @ 110 SPM = 495 GPM / MOTOR 80 RPM / SPP ON-OFF BTM 1920-1584 / TQ ON-OFF BTM 11k-7k ft/lbs / DRAG UP-DWN-ROT 212-135-166 / 8.6 ppg - 26 vis (DRILL W/ H2O + POLYMER - CIRCULATING RESERVE PIT) 10' SLIDE MADE AT 7075' & 7' SLIDE MADE AT 7174' / 3'-5' FLARE 7100'-7110' (M.D.) GAS= 7505 UNITS / PUMPING GEL/LIME SWEEPS HOLE STICKY WHILE SLIDING
4/15/2009	0:00 - 5:30	5.50	DRLPRO	02	D	P		DRILL (ROTATE & SLIDE) F/ 7303' - T/ 7634' = 331' @ 60.18 fph / 18k-28k WOB / TOP DRV RPM 32 / #2 PUMP @ 110 SPM = 495 GPM / MOTOR 80 RPM / SPP ON-OFF BTM 1920-1584 / TQ ON-OFF BTM 11k-7k ft/lbs / DRAG UP-DWN-ROT 212-135-166 / 8.6 ppg - 26 vis (DRILL W/ H2O + POLYMER - CIRCULATING RESERVE PIT)
	5:30 - 7:30	2.00	DRLPRO	05	G	P		DISPLACE WATER IN ACTIVE PITS AND HOLE WITH MUD TRANSFERRED FROM P-68. (APPROX 750 BBLS)
	7:30 - 8:00	0.50	DRLPRO	02	D	P		DRILL F/ 7634' - T/ 7645' = 11' @ 22 fph / 18k-28k WOB / TOP DRV RPM 32 / #2 PUMP @ 110 SPM = 495 GPM / MOTOR 80 RPM / SPP ON-OFF BTM 1920-1584 / TQ ON-OFF BTM 11k-7k ft/lbs / DRAG UP-DWN-ROT 212-135-166 / 10.7 ppg - 42 vis / CONDITION MUD WHILE DRILLING TO REDUCE WEIGHT AS NEEDED
	8:00 - 9:30	1.50	DRLPRO	22	G	X		PARTIAL RETURNS / MIXING MUD W/ LCM TO SWEEP HOLE AND BUILD VOLUME TO DRILL, LOST 150 BBLS MUD
	9:30 - 17:30	8.00	DRLPRO	02	D	P		DRILL /W FULL RETURNS F/ 7645' - T/ 7919 = 274' @ 34.2 fph / 18k-24k WOB / TOP DRV RPM 40 / #2 PUMP @ 105 SPM = 472 GPM / MOTOR 75 RPM / SPP ON-OFF BTM 2120-1920 / TQ ON-OFF BTM 12k-9k ft/lbs / DRAG UP-DWN-ROT 223-140-170 MUD 9.8 VIS 38
	17:30 - 18:00	0.50	DRLPRO	07	A	P		RIG SERVICE
	18:00 - 0:00	6.00	DRLPRO	02	D	P		DRILL (ROTATE & SLIDE) F/7919 - T/ 8200 = 281' @46.8fph / 16k-24k WOB / TOP DRV RPM 32-42 / #2 PUMP @ 105 SPM = 472 GPM / MOTOR 75 RPM / SPP ON-OFF BTM 2400-2055 / TQ ON-OFF BTM 14k-12k ft/lbs / DRAG UP-DWN-ROT 227-140-175 / 10.1 ppg - 41 vis,SLIDES 7925-7937,8014-8028,8114-8126,SLIDING4%OF FOOTAGE & 7.5% OF DRILLING TIME

**RECEIVED** September 15, 2009

**US ROCKIES REGION  
Operation Summary Report**

Well: NBU 922-18N2CS [RED] Spud Conductor: 12/13/2008 Spud Date: 12/26/2008  
 Project: UTAH-UINTAH Site: NBU 922-18J PAD Rig Name No: PROPETRO/, H&P 298/298  
 Event: DRILLING Start Date: 12/26/2008 End Date: 4/21/2009  
 Active Datum: RKB @4,887.01ft (above Mean Sea Level) UWI: NBU 922-18N2CS

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
4/16/2009	0:00 - 17:30	17.50	DRLPRO	02	D	P		DRILL (ROTATE & SLIDE) F/8200 - T/8865 =665' @38 fph / 16k-24k WOB / TOP DRV RPM 32-42 / #2 PUMP @ 105 SPM = 472 GPM / MOTOR 75 RPM / SPP ON-OFF BTM 2400-2055 / TQ ON-OFF BTM 14k-11k ft/lbs / DRAG UP-DWN-ROT 241-152-180 / 10.5 ppg - 41 vis,SLIDES ,8487-8503,8549-8557,8596-8604,8777-8787, SLIDING 6.2%OF FOOTAGE &14.2% OF DRILLING TIME RIG SERVICE
	17:30 - 18:00	0.50	DRLPRO	07	A	P		
	18:00 - 0:00	6.00	DRLPRO	02	D	P		DRILL (ROTATE & SLIDE) F/8865 - T/9050 =185' @30 fph / 16k-24k WOB / TOP DRV RPM 32-42 / #2 PUMP @ 105 SPM = 472 GPM / MOTOR 75 RPM / SPP ON-OFF BTM 2460-2150 / TQ ON-OFF BTM 14k-11k ft/lbs / DRAG UP-DWN-ROT 241-150-185 / 10.5 ppg - 41 vis,SLIDES 8878-8892,8966-8976, SLIDING14%OF FOOTAGE & 33% OF DRILLING TIME.HAVING TO ,SLIDE MORE,( FORMATION NOT RESPONDING TO SLIDES) FORMATION WANTING TO PULL TO SOUTH EAST
4/17/2009	0:00 - 14:30	14.50	DRLPRO	02	D	P		DRILL (ROTATE & SLIDE) F9050- T/9341 =291' @20.1 fph / 16k-26k WOB / TOP DRV RPM 30-42 / #2 PUMP @ 105 SPM = 472 GPM / MOTOR 75 RPM / SPP ON-OFF BTM 2770/ 2470 / TQ ON-OFF BTM 14k-11k ft/lbs / DRAG UP-DWN-ROT252-148-185 / 10.9 ppg - 43 vis,SLIDES 9055-9070-9168-9183, SLIDING17% & ROTATING 83%
	14:30 - 15:00	0.50	DRLPRO	05	C	P		MUD MOTOR FAILURE,CIRC BTMS UP F/ TRIP
	15:00 - 22:30	7.50	DRLPRO	06	H	Z		TOH,60-80K DRAG OFF BTM ,SWABBING HOLE UP REAM 5 STDS OUT W/ PUMP,TOH TO 8486,NO SWABBING,CHECK FOR FLOW PUMP SLUG,TOH, REAM THRU & CLEAN OUT TIGHT SPOTS 7658,6840,6625,6578,6365,5645,5540,5503,5478,5450,5086,5050,TOH TO SCG SHOE ,CHECK FOR FLOW , POOH
	22:30 - 0:00	1.50	DRLPRO	06	A	P		FUNCT TEST BOP'S,BREAK BIT ,CHANGE OUT MUD MOTORS,MU BIT, ORIENTATE DIRECTIONAL TOOLS
4/18/2009	0:00 - 5:30	5.50	DRLPRO	06	A	P		TIH TO CSG SHOE,BREAK CIRC,CIH,WASHING & REAMING THROUGH BRIDGES@ 3671,5025,6567,6606 ,30-50K DRAG WHILE TRIPPING IN TO 9244"
	5:30 - 6:30	1.00	DRLPRO	03	D	P		W & R 95' TO BTM 5' FILL
	6:30 - 16:30	10.00	DRLPRO	02	D	P		DRILL F9341- T/9341 -9620=279' =27.9 fph / LOSING MUD 60 BBLs UNABLE TO STOP LOSSES WITH SWEEPS,BYPASS SHAKERS,LCM TO 4%,16k-26k WOB / TOP DRV RPM 30-42 / #2 PUMP @ 95 SPM = 427 GPM / MOTOR 68 RPM / SPP ON-OFF BTM 2550/ 2208 / TQ ON-OFF BTM 14k-11k ft/lbs / DRAG UP-DWN-ROT280-163-192 / 11.0 ppg - 43 vi
	16:30 - 17:00	0.50	DRLPRO	07	A	P		RIG SERVICE
	17:00 - 0:00	7.00	DRLPRO	02	D			DRILL- 9620 -9803=183 =26.1 fph / 16k-26k WOB / TOP DRV RPM 30-42 / #2 PUMP @ 95 SPM = 427 GPM / MOTOR 68 RPM / SPP ON-OFF BTM 2550/ 2225 / TQ ON-OFF BTM 14k-11k ft/lbs, / DRAGUP-DWN-ROT280-162-195 / 11.2 ppg - 42 vi LCM 4%

**RECEIVED** September 15, 2009

**US ROCKIES REGION  
Operation Summary Report**

Well: NBU 922-18N2CS [RED]		Spud Conductor: 12/13/2008	Spud Date: 12/26/2008
Project: UTAH-UINTAH		Site: NBU 922-18J PAD	Rig Name No: PROPETRO/, H&P 298/298
Event: DRILLING		Start Date: 12/26/2008	End Date: 4/21/2009
Active Datum: RKB @4,887.01ft (above Mean Sea Level)		UWI: NBU 922-18N2CS	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
4/19/2009	0:00 - 5:30	5.50	DRLPRO	02	D	P		DRILL F/9803-9935=132=24fph,TD @ 0530 HRS 04/19/2009,WOB18, TOP DRV RPM 32-42,M MTR 68,SPM 95,GPM 427,SPP ON/OFF2550/2208,PU/SO/ROTATE 285/162/198,MW 11.3 VIS 42 5%LCM
	5:30 - 7:00	1.50	DRLPRO	05	C	P		CIRC AND COND HOLE F/ WIPER TRIP,LOGS & CSG,
	7:00 - 11:30	4.50	DRLPRO	06	E	P		WIPER TRIP TO 4950' BACK REAM & PUMP OUT OUT 10 STDS TO 8995',WORKING OUT TIGHT SPOTS@9785,9653,9571,9541,9500,9436,9351, PULL 5 STDS TO 8525, DRAG 40 TO 60K,PUMP DRY JOB,TOH 8500' DRAG 20-40K,WORK THRU TIGHT SPOTS @ 6365,5644,TOH TO 4950'
	11:30 - 14:30	3.00	DRLPRO	06	E	P		TIH,W&R THRU BRIDGES@6404,6561,6613 ,CIH,W & R 90' TO BTM 3' FILL
	14:30 - 18:30	4.00	DRLPRO	05	E	P		CCH,F/LOGS TRIP GAS 6800 U,NO FLARE ,LOSING MUD,75% RETURNS REDUCE PUMP RATE TO 60 SPM,MIX LCM,BUILD VOLUME, PUMP SWEEPS,MW TO 11.4 VIS 44 LCM
	18:30 - 0:00	5.50	DRLPRO	06	B	X		8%,LOST 100 BBLs,CIRC W/ FULL RETURNS TRIP OUT F/LOGS, BACK REAM & PUMP OUT OUT 10 STDS TO 8995', PULL 5 STDS TO 8525, DRAG 40 TO 60K,PUMP DRY JOB,TOH 8500' DRAG 20-40K,WORK THRU TIGHT SPOTS @6871,6529, 6297,5644,TOH
	4/20/2009	0:00 - 1:30	1.50	DRLPRO	06	B	P	
1:30 - 7:30		6.00	DRLPRO	11	G	P		SM W/ HALLIBURTON LOGGERS & RIG CREW,RU & RUN TRIPLE COMBO,LOG TOOL STOPPED @ 6520',LOG OUTTO SURFACE NETURON DENSITY TOOL& CALIPER NOT WORKING,RD SAME
7:30 - 8:00		0.50	DRLPRO	14	B	P		PULL WEAR BUSHING
8:00 - 9:00		1.00	DRLPRO	12	A	P		SM W/ WEATHERFORD,RU EQUIPMENT
9:00 - 17:30		8.50	DRLPRO	12	C	P		RUN 8 JT OF P110 11.6# LT&C 41/2 CSG,227 JTS OF I-80,11.6# LT&C 41/2 CSG WASH THRU BRIDGE @6520',BREAKING CIRC @ SELECTED INTERVALS,LAND CSG W/75K,( BLM ON LOCATION)
17:30 - 19:30		2.00	DRLPRO	05	D	P		SM RU BJ CIRC EQUIP,CIRC CSG
19:30 - 22:30		3.00	DRLPRO	12	E	P		TEST PUMPS & LINES TO 4500 PSI / PUMP 20 BBLs MUD CLEAN + 20 BBLs H2O + 460 SX PREM LITE II LEAD CEMENT @ 11.0 ppg (MIX WATER = 20.52 gal/sx, 3.38 yield) + 1450 SX 50/50 POZMIX TAIL @ 14.3 ppg (MIX WATER = 5.91 gal/sx, 1.31 yield) / DROP PLUG & DISPLACE W/ 154. BBLs H2O + ADDITIVES / GOOD RETURNS PRIOR TO DROPPING PLUG - LOST RETURNS UPON STARTING DISPLACEMENT / LIFT PRESSURE @ 2700 BUMP PLUG W/ 3 150 PSI - FLOATS HELD W/ 1.00 BBL BACK / R.D. CEMENT EQUIPMENT HAD TROUBLE BREAKING,LANDING TOOL FROM CSG HANGER,,LD SAME
4/21/2009	0:00 - 1:30	1.50	DRLPRO	15	A	P		INSTALL PACKOFF & TEST TO 5000#
	1:30 - 3:00	1.50	DRLPRO					PICK UP BOP,PREP RIG FOR SKID,RIG RELEASED TO NBU 922-18N2AS @ 0300 HRS 04/21/2009

**RECEIVED** September 15, 2009

**US ROCKIES REGION  
Operation Summary Report**

Well: NBU 922-18N2CS [RED]		Spud Conductor: 12/13/2008		Spud Date: 12/26/2008	
Project: UTAH-UINTAH		Site: NBU 922-18J PAD		Rig Name No: GWS 1/1	
Event: COMPLETION		Start Date: 8/27/2009		End Date: 9/11/2009	
Active Datum: RKB @4,887.01ft (above Mean Sea Level)			UWI: NBU 922-18N2CS		

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	ALL	37	B	P		OPEN WELL P/U RIH W/ PERF GUNS, PERF MSAVERDE USIN G 3-3/8 EXPEND [SCALLOP] 23 GRMS, 0.36" HOLE, 9500'-9502' 4 SPF, 90* PH, 8 HOLES. 9476'-9480' 3 SPF, 120* PH, 12 HOLES. 9430'-9432' 3 SPF, 120* PH, 6 HJOLES. 9346'-9348' 4 SPF 90* PH, 8 HOLES. 9318'-9320' 3 SPF 120* PH, 6 HOLES. [40 HOLES] READY TO FRAC MON. SWI.
8/31/2009	7:00 - 17:30	10.50	COMP	36	E	P		HSM, GO OVER SAFETY PROCEDURES FRACING & WIRELINE.  FRAC STG #1] MESAVERDE 9318'-9502' [40 HOLES]  STG #1] WHP=1226#, BRK DN PERFS @ 3735#, INJ PSI=6109#, INJ RT=50, ISIP=2895#, FG=.74, PUMP'D 3672 BBLS SLK WTR W/ 128888# 30/50 MESH W/ 5000# RESIN COAT IN TAIL. ISIP=2937#, FG=.75, AR=50.4, AP=6190#, MR=51.4, MP=6720#, NPI=142#, 28/40 CALC PERFS OPEN  STG #2] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN. SET CBP @ 9294', PERF MESAVERDE USING 3-3/8 EXPEND, [SCALLOP] 23 GRM, 0.36" HOLE. 9260'-9264' 3 SPF, 120* PH, 12 HOLES. 9228'-9232' 3 SPF, 120* PH, 12 HOLES. 9158'-9164' 3 SPF, 120* PH, 18 HOLES. [42 HOLES]  WHP=2536#, BRK DN PERFS @ 3923#, INJ PS=5673#, INJ RT=51.1, ISIP=3148#, FG=.77, PUMP'D 871 BBLS SLK WTR W/ 31704# 30/50 MESH W/ 5000# RESIN COAT IN TAIL. ISIP=2796#, FG=.74, AR=51.4, AP=5503, MR=51.9, MP=5938#, NPI=-352#, 25/42 CALC PERFS OPEN.  STG #3] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN. SET CBP @ 9002', PERF MESAVERDE USING 3-3/8 EXPEND, [SCALLOP] 23 GRM, 0.36" HOLE. 8970'-8972' 3 SPF, 120* PH, 6 HOLES. 8918'-8922' 3 SPF, 120* PH, 12 HOLES. 8888'-8890' 4 SPF, 90* PH, 8 HOLES. 8842'-8844' 4 SPF, 90* PH, 8 HOLES. 8752'-8754' 3 SPF, 120* PH, 6 HOLES. [40 HOLES]  SWIFN.

**RECEIVED** September 15, 2009

**US ROCKIES REGION  
Operation Summary Report**

Well: NBU 922-18N2CS [RED] Spud Conductor: 12/13/2008 Spud Date: 12/26/2008  
 Project: UTAH-UINTAH Site: NBU 922-18J PAD Rig Name No: GWS 1/1  
 Event: COMPLETION Start Date: 8/27/2009 End Date: 9/11/2009  
 Active Datum: RKB @4,887.01ft (above Mean Sea Level) UWI: NBU 922-18N2CS

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 #3] MESAVERDE 8752'-8972' [40 HOLES]</p> <p>WHP=1594#, BRK DN PERFS @ 2430#, INJ PSI=4730#, INJ RT=46.3, ISIP=2197#, FG=.68, PUMP'D 1637 BBLS SLK WTR W/ 66800# 30/50 MESH W/ 5000# RESIN COAT IN TAIL, ISIP=2302#, FG=.69, AR=49.9, AP=4305#, MR=51.1, MP=4898#, NPI=105#, 28/40 CALC PERFS OPEN.</p> <p>STG #4] P/U RIH W/ HALIBURTON 8K CBP &amp; PERF GUN. SET CBP @ 8698', PERF MESAVERDE USING 3-3/8 EXPEND [SCALLOP] 23 GRM, 0.36" HOLE.            8664'-8668' 3 SPF, 120* PH, 12 HOLES.            8590'-8594' 3 SPF, 120* PH, 12 HOLES.            8498'-8504' 3 SPF, 120* PH, 18 HOLES. [42 HOLES]</p> <p>WHP=1508#, BRK DN PERFS @ 3179#, INJ PSI=4117#, INJ RT=50.8, ISIP=2402#, FG=.71, PUMP'D 869 BBLS SLK WTR W/ 32001# 30/50 MESH W/ 5000# RESIN COAT IN TAIL, ISIP=2766#, FG=.76, AR=50.2, AP=3976#, MR=51.4, MP=4305#, NPI=364#, 42/42 CALC PERFS OPEN.</p> <p>STG #5] P/U RIH W/ HALIBURTON 8K CBP &amp; PERF GUN. SET CBP @ 8202', PERF MESAVERDE USING 3-3/8 EXPEND [SCALLOP] 23 GRM, 0.36" HOLE.            8168'-8172' 3 SPF, 120* PH, 12 HOLES.            8102'-8104' 3 SPF, 120* PH, 6 HOLES.            8040'-8044' 4 SPF, 90* PH, 16 HOLES.            7960'-7963' 3 SPF, 120* PH, 9 HOLES. [43 HOLES] SWIFN.</p>

**RECEIVED** September 15, 2009

**US ROCKIES REGION  
Operation Summary Report**

Well: NBU 922-18N2CS [RED] Spud Conductor: 12/13/2008 Spud Date: 12/26/2008  
 Project: UTAH-UINTAH Site: NBU 922-18J PAD Rig Name No: GWS 1/1  
 Event: COMPLETION Start Date: 8/27/2009 End Date: 9/11/2009  
 Active Datum: RKB @4,887.01ft (above Mean Sea Level) UWI: NBU 922-18N2CS

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
9/2/2009	7:00 - 22:00	15.00	COMP	36	E	P		<p>FRAC MESAVERDE 7960'-8172' [43 HOLES]</p> <p>STG #5] WHP=619#, BRK DN PERFS @ 2607#, INJ PS=3726#, INJ RT=50.9, ISIP=1486#, FG=62, PUMP'D 2464 BBLs SLK WTR W/ 90,255# 30/50 MESH W/ 5000# RESIN COAT IN TAIL, ISIP=2238#, FG=71, AR=50.4, AP=3577#, MR=51.2, MP=4587#, NPI=752#, 43/43 CALC PERFS OPEN.</p> <p>STG #6] P/U RIH W/ HALIBURTON 8K CBP &amp; PERF GUN. SET CBP @ 7884', PERF MESAVERDE USING 3-3/8 EXPEND [SCALLOP] 23 GRM, 0.36" HOLE.            7850'-7854' 3 SPF, 120° PH, 12 HOLES.            7782'-7788' 3 SPF, 120° PH, 18 HOLES.            7708'-7712' 3 SPF, 120° PH, 12 HOLES. [42 HOLES]</p> <p>STG #6] WHP=1086#, BRK DN PERFS @ 3025#, INJ PSI=4376#, INJ RT= 51.6, ISIP= 1697#, FG=65, PUMP'D 1332 BBLs SLK WTR W/ 47,003# 30/50 MESH W/ 5000# RESIN COAT IN TAIL, ISIP= 2696#, FG=78, AR=51.1, AP=4211#, MR=52.3, MP=4663#, NPI=999#, 33/42 CALC PERFS OPEN.</p> <p>RIH W/ 4-1/2" 8K HALCO CBP (KILL PLUG). MIS-RUN. POOH W/ PLUG AND SETTING TOOL AT 200 FPM. PLUG STARTED TO DRAG AT 3200'. SLOW DOWN AND KEEP POOH. PLUG HUNG UP AT 2407'. WORK LINE. NO CHANGE. 2000# ON CSG. CONFER W/ ROBERT. SURGE WELL AS WORK LINE. MOVED UP HOLE 1-2' THEN STOPPED AGAIN. PLUG STILL STUCK. HOOK UP TO FRAC TECH AND PUMP DOWN CSG-- START AT 1/2 BPM UP TO 2-1/2 BPM. PRES FROM 1700# TO 2700#. PMP 20 BBLs. NO CHANGE IN PLUG. SURGE WELL AGAIN. CONFER W/ ROBERT AND JC (CUTTERS). WORK LINE ATTEMPTING TO PULL OUT OF CABLE HEAD. 9/32" LINE, 12-STRAND CABLE HEAD. LINE TENSIL AT 9,100#. WORKING LINE UP TO 6000#. UNABLE TO PULL OUT OF CABLE HEAD. CONFER W/ ROBERT, JC, AND REBECCA. OPT TO DROP KINLEY CUTTER AND RECOVER LINE. WORK LINE TO 5000# AS WAIT ON TOOLS. TOOLS AOL 8:00 PM. HSM. CLOSE LINE RAMS AND PUT CUTTER ON LINE. EQUALIZE 1500# AND OPEN RAMS. WORK LINE 200# TO 1000# FOR 25 MIN. CUT LINE IN 60 MIN. POOH W/ LINE. APPEARS TO HAVE ALL LINE OUT. TOP OF TOOLS AT 2396'. HAVE KINLEY CUTTER AND EWL SETTING TOOLS ON TOP OF PLUG. STRIP OFF 2500' EWL. WILL REHEAD IN AM.SDFN            HSM. FISHING OPERATIONS &amp; WORKING NEXT TO ANOYHER RIG &amp; THERE OPER.</p>
9/8/2009	7:00 - 7:30	0.50	COMP	48		P		

**RECEIVED** September 15, 2009

**US ROCKIES REGION  
Operation Summary Report**

Well: NBU 922-18N2CS [RED] Spud Conductor: 12/13/2008 Spud Date: 12/26/2008  
 Project: UTAH-UINTAH Site: NBU 922-18J PAD Rig Name No: GWS 1/1  
 Event: COMPLETION Start Date: 8/27/2009 End Date: 9/11/2009  
 Active Datum: RKB @4,887.01ft (above Mean Sea Level) UWI: NBU 922-18N2CS

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	7:30 - 17:00	9.50	COMP	31	B	P		WFP 100 PSI, PUMP 40 BBLs 2% KCL. WELL DEAD. ND FRAC VALVES NU BOP. PU 3 16" OVERSHOT, OVERSHOT EXT BUMPER SUB, & 2 3/8" 6' PUP. 1.35 SN. RIH W/ 73 JTS TAG FISH @ 2,331' WORK TOOLS. POOH W/ FISH. PU 3 16" OVERSHOT, OVERSHOT EXT BUMPER SUB, JARS & 2 3/8" 6' PUP. 1.35 SN. RIH W/ 73 JTS & TAG FISH @ 2,332' WORKED TOOLS FISH FELL FREE. PUMPED 10# BRINE AS NEEDED TO CONTROL WELL. POOH CAME OUT WITHOUT ANYTHING. KILLED WELL PU SAME TOOLS RIH TO 2,423', SDFN FLOW WELL OVERNIGHT. 220 BBLs OF 10# BRINE WAS USED TODAY.
9/9/2009	7:00 - 7:30	0.50	COMP	48		P		HSM. FISHING OPERATIONS & WORKING WITH ANOTHER RIG NEXT TO YOU.
	7:30 - 18:00	10.50	COMP	31	B	P		FWP 100 PSI. PUMP 40 BBLs 10# BRINE TO KILL WELL. CONTINUE RIH W/ FISHING TOOLS. TAG FISH @ 7,606' WORK TOOLS POOH. NO FISH. WAITE ON NEW & DIFFERENT TOOLS. SHORT CATCH. PU & RIH W/ 241 JTS TAG FISH @ 7,606' WORKED TOOLS. THINK WE HAVE FISH. POOH W/ TBG NO FISH. SDFN WELL OPEN TO FLOW BACK TANK WELL DEAD.
9/10/2009	7:00 - 7:30	0.50	COMP	48		P		WE FELL THAT WHEN THE CBP FELL DOWN HOLE 5,000' THE CBP MUST HAVE SET. BECAUSE THE WELL IS STAYING DEAD ALL DAY.
	7:30 - 13:22	5.87	COMP	31	B	P		HSM. FISHING & WORKING NEXT TO ANOTHER RIG. WHP 0 PSI. PU OVERSHOT 1 3/8" GRAPPLE, BUMPER SUB, JARS 6' PUP JT & SN. TAG FISH @ 7,606' WORKED TOOL. POOH DRAGGING ALL THE WAY OUT. GOT STUCK IN WELL HEAD. JARED @ SURFACE SEVERAL TIMES. GOT FISH OUT!! CABLE HEAD SINKER BARS & CCL & SETTING TOOL & SETTING SLEEVE. PU 3 7/8" MILL & POPS RIH W 242 JTS 7,615'. RU POWER SWIVEL. PREP TO DRL IN AM. SWI SDFN
9/11/2009	7:00 - 7:30	0.50	COMP	48		P		CUTTERS, FRANK WINN & DOUG CHIVERS CHECKED ALL TOOLS THAT WERE FISHED. SETTING TOOL HAD NOT GONE OFF & CABLE HEAD WAS CHECKED & WAS 1 7/16" THE CORRECT O.D. CUTTERS RELEASED PRESSURE ON SETTING TOLL & TOOK TOOLS TO THERE SHOP. HSM. DRLG CBP & LANDING PRODUCTION TUBING.

**RECEIVED** September 15, 2009

**US ROCKIES REGION  
Operation Summary Report**

Well: NBU 922-18N2CS [RED]      Spud Conductor: 12/13/2008      Spud Date: 12/26/2008  
 Project: UTAH-UINTAH      Site: NBU 922-18J PAD      Rig Name No: GWS 1/1  
 Event: COMPLETION      Start Date: 8/27/2009      End Date: 9/11/2009  
 Active Datum: RKB @4,887.01ft (above Mean Sea Level)      UWI: NBU 922-18N2CS

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	7:30 - 7:30	0.00	COMP	44	C	P		WHP 0 PSI, BRK CIRC W/ 2% KCL. RIH  C/O 0' OF SND TAG PLG 1 @ 7,625' DRL PLG 1 IN 10 MIN 0 PSI INCREASE. RIH  CO 260' OF SND TAG PLG 2 @ 7,884' DRL PLG 2 IN 4 MIN 200 PSI INCREASE. RIH  C/O 175' OF SND TAG PLG 3 @ 8,202' DRL PLG 3 IN 5 MIN. 1,100 PSI INCREASE. PERFS 8,102' - 04' & 8,168' - 72' WERE COVERED W/ SAND INDICATING THAT BOTTOM 2 ZONES WERE NOT FRACED.  C/O 30' OF SND TAG PLG 4 @ 8698' DRL PLG 4 IN 5 MIN. 150 PSI INCREASE. RIH  C/O 70' OF SND TAG PLG 5 @ 9,202' DRL PLG 5 IN 6 MIN. 100 PSI INCREASE. RIH  C/O 30' OF SND TAG PLG 6 @ 9,294' DRL PLG 6 IN 5 MIN. 400 PSI INCREASE. RIH  C/O TO 9,700' CIRC. WELL CLEAN. POOH LD 18 JTS ON TRAILER. LAND TUBING W/ 290 JTS OF 2 3/8" L-80 @ 9,139.50'. ND BOP NU WELL HEAD. DROP BALL TO SHEAR OFF MILL. PUMP OFF MILL @ 2,000 PSI. TURN WELL OVER TO FLOW TESTERS. 1,650 PSI ON CASING & 600 PSI ON TUBING  315 JTS OUT BOUND      KB 26' 290 JTS LANDED 25 JTS RETURNED WELL TURNED TO SALE @ 0925 HR ON 9/12/09 - FTP 1400#, CP 2575#, 1.6 MCFD, 40 BWPD, 20/64 CK
9/12/2009	9:25 -		PROD	50				

**RECEIVED** September 15, 2009

**WELL COMPLETION OR RECOMPLETION REPORT AND LOG**

5. Lease Serial No.  
UTU0359

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.  
UNIT #891008900A

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

8. Lease Name and Well No.  
NBU 922-18N2CS

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

9. API Well No. 43-047-39847

4. Location of Well (Report location clearly and in accordance with Federal requirements)\*  
 At surface NWSE 1419FSL 2613FEL 40.03264 N Lat, 109.48264 W Lon  
 At top prod interval reported below SESW 795FSL 1551FWL  
 At total depth SESW 795<sup>5</sup>FSL 1564<sup>3</sup>FWL *Per HSM Reviews*

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

14. Date Spudded 12/13/2008 15. Date T.D. Reached 04/19/2009 16. Date Completed  D & A  Ready to Prod. 09/12/2009

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

18. Total Depth: MD 9935 TVD 9777<sup>63</sup> 19. Plug Back T.D.: MD 9880 TVD 9722 20. Depth Bridge Plug Set: MD TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each) CBL-CCL-GR 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		2801		715			
7.875	4.500 I-80	11.6		9905		1910			

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	9139							

25. Producing Intervals 26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) MESAVERDE	7708	9502	7708 TO 9502	0.360	249	OPEN
B) <i>WSMVD</i>						
C)						
D)						

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

Depth Interval	Amount and Type of Material
7708 TO 9502	PMP 10,845 BBLs SLICK H2O & 405,951 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
09/12/2009	09/18/2009	24	→	0.0	1842.0	240.0			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 1095	1130.0	→	0	1842	240		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		→						

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	1728				
MAHOGAN	2463				
WASATCH	5115	7692			
MESAVERDE	7769	9520			

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 #75199 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 10/05/2009

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.

**US ROCKIES REGION  
Operation Summary Report**

Well: NBU 922-18N2CS [RED]	Spud Conductor: 12/13/2008	Spud Date: 12/26/2008
Project: UTAH-UINTAH	Site: NBU 922-18J PAD	Rig Name No: PROPETRO/, H&P 298/298
Event: DRILLING	Start Date: 12/26/2008	End Date: 4/21/2009
Active Datum: RKB @4,887.00ft (above Mean Sea Level)	UWI: NBU 922-18N2CS	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
12/26/2008	16:30 - 0:00	7.50	DRLSUR	02		P		MOVE IN AND RIG UP AIR RIG SPUD WELL @ 1630 HR 12/26/08 DA AT REPORT TIME 540'
12/27/2008	0:00 - 12:00	12.00	DRLSUR	02		P		RIG DRILLING AHEAD NO WATER 990'
	12:00 - 0:00	12.00	DRLSUR	02		P		RIG DRILLING AHEAD NO WATER 1410'
12/28/2008	0:00 - 12:00	12.00	DRLSUR	02		P		RIG DRILLING AHEAD NO WATER 1650' DA
	12:00 - 0:00	12.00	DRLSUR	02		P		RIG DRILLING AHEAD NO WATER 1890' DA
12/29/2008	0:00 - 12:00	12.00	DRLSUR	02		P		RIG DRILLING AHEAD NO WATER 2200' RUN SURVEY 1.5 DEG.
	12:00 - 0:00	12.00	DRLSUR	02		P		RIG DRILLING AHEAD NO WATER 2520'
12/30/2008	0:00 - 12:00	12.00	DRLSUR	02		P		RIG T/D @ 2830' CONDITION HOLE 1 HR RUN SURVEY 1.5 DEG.
	12:00 - 16:00	4.00	DRLSUR	06		P		TRIP DP OUT OF HOLE
	16:00 - 20:00	4.00	DRLSUR	12		P		RUN 2797' OF 9 5/8 CSG AND 200' OF 1" PIPE RIG DOWN AIR RIG
	20:00 - 21:00	1.00	DRLSUR	12		P		CEMENT 1ST STAGE WITH 265 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 +- 27 BBL LEAD CMT TO PIT
	21:00 - 21:30	0.50	DRLSUR	12		P		1ST TOP JOB 150 SKS DOWN 1" PIPE GOOD CMT TO SURFACE AND FELL BACK WOC
	21:30 - 22:30	1.00	DRLSUR	12		P		2ND TOP JOB 100 SKS DOWN BS GOOD CMT TO SURFACE AND STAYED AT SURFACE
	22:30 - 22:30	0.00	DRLSUR					NO VISIBLE ELAKS PIT 10% FULL WORT
4/6/2009	18:00 - 0:00	6.00	RDMO	01	E	P		RIG DOWN EQUIPMENT TO MOVE
4/7/2009	0:00 - 6:00	6.00	RDMO	21	C	P		WAIT ON DAYLIGHT / SAFETY MEETING W/ WESTROC TRUCKING, J&C CRANE SERVICE & RIG CREWS
	6:00 - 20:00	14.00	RDMO	01	A	P		RIG DOWN EQUIPMENT / LOWER DERRICK / MOVE EQUIPMENT TO NEW LOCATION / SET PITS, SHAKERS, PUMPS, MAIN GENERATORS, SCR HOUSE, MCC HOUSE, FUEL TANK, SKID PACKAGE, DRAWWORKS, MUD BOAT SKID AND ALL COMPONETS OF THE SUB-STRUCTURE / 90% MOVED / 40% RIGGED UP
	20:00 - 0:00	4.00	RDMO	21	C	P		SUSPEND OPERATIONS / WAIT ON DAYLIGHT TO RIG UP
4/8/2009	0:00 - 6:00	6.00	MIRU	21	C	P		WAIT ON DAYLIGHT TO RIG UP
	6:00 - 22:00	16.00	MIRU	01	B	P		SET IN REMAINING EQUIPMENT / RAISE FLOOR / ATTACH DERRICK AND RAISE SAME / ATTACH BOP HANDLER & DOGHOUSE - RAISE TO POSITION / RIG UP MUD PITS / RUN ELECTRICAL LINES, WATER LINES & AIR LINES
	22:00 - 0:00	2.00	MIRU	21	E	P		WAIT ON MIDNIGHT FOR CREW CHANGE / EXISTING CREWS OUT OF HOURS TO WORK
4/9/2009	0:00 - 10:00	10.00	MIRU	01	B	P		RIG UP YELLOW DOGS TO CIRCULATE RESERVE PIT / HOOK UP BLEED OFF & FLARE LINES / SPOOL UP TOP DRIVE
	10:00 - 17:00	7.00	PRSPD	14	A	P		INSTALL D.T.O. & PRESSURE TEST SAME TO 5000 PSI (F.M.C.) / NIPPLE UP B.O.P. EQUIPMENT, HOOK UP FLOW LINE + CHOKE LINES + HYDRAULIC LINES + GAS BUSTER + KILL LINES & FILL LINES

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

Well: NBU 922-18N2CS [RED]		Spud Conductor: 12/13/2008		Spud Date: 12/26/2008	
Project: UTAH-UINTAH			Site: NBU 922-18J PAD		Rig Name No: PROPETRO/, H&P 298/298
Event: DRILLING			Start Date: 12/26/2008		End Date: 4/21/2009
Active Datum: RKB @4,887.00ft (above Mean Sea Level)			UWI: NBU 922-18N2CS		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	17:00 - 22:00	5.00	PRPSPD	15	A	P		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
	22:00 - 22:30	0.50	PRPSPD	14	B	P		INSTALL WEAR BUSHING IN WELL HEAD
	22:30 - 0:00	1.50	PRPSPD	06	A	P		SAFETY MEETING / M.I.R.U. WEATHERFORD EQUIPMENT / PICK UP BIT #1, DIRECTIONAL BHA + DRILL PIPE
4/10/2009	0:00 - 6:00	6.00	PRPSPD	06	A	P		PICK UP BIT #1, DIRECTIONAL BHA + DRILL PIPE TO TAG @ 2772" / R.D.M.O. WEATHERFORD EQUIPMENT
	6:00 - 7:00	1.00	PRPSPD	11	E	P		CONDUCT PRE-SPUD INSPECTION ON EQUIPMENT PRIOR TO DRILLING - MAKE ADJUSTMENTS AS NEEDED
	7:00 - 7:30	0.50	PRPSPD	07	A	P		RIG SERVICE
	7:30 - 9:00	1.50	PRPSPD	11	E	P		PRESSURE TEST PUYPMS & MUD LINES TO 2500 PSI / MAKE REPAIRS AS NEEDED
	9:00 - 11:00	2.00	PRPSPD	02	F	P		DRILL CEMENT F/ 2772' - T/ 2833'
	11:00 - 13:30	2.50	DRLPRO	02	D	P		SPUD PRODUCTION HOLE @ 11:00 HRS / DRILL (ROTATE & SLIDE) F/ 2833' - T/ 3024' = 191" @ 76.4 fph / 10k-12k WOB / TOP DRV RPM 30 / #2 PUMP @ 95 SPM = 427 GPM / SPP ON-OFF BTM 1550-1300 / TQ ON-OFF BTM 4k-3k ft/lbs / DRAG UP-DWN-ROT 110-95-89 / 8.6 ppg - 26 vis (DRILL W/ H2O + POLYMER - CIRCULATING RESERVE PIT) 2'-3' INTERMITTENT FLARE WHILE DRILLING
	13:30 - 17:30	4.00	DRLPRO	02	D	P		DRILL (ROTATE & SLIDE) F/ 3024' - T/ 3312' = 288" @ 77 fph / 14k-16k WOB / TOP DRV RPM 30 / #2 PUMP @ 100 SPM = 450 GPM / SPP ON-OFF BTM 1555-1300 / TQ ON-OFF BTM 4k-3k ft/lbs / DRAG UP-DWN-ROT 118-99-105 / 8.6 ppg - 26 vis (DRILL W/ H2O + POLYMER - CIRCULATING RESERVE PIT) 2'-3' INTERMITTENT FLARE WHILE DRILLING
	17:30 - 18:00	0.50	DRLPRO	05	C	Z		CIRCULATE & CONDITION HOLE FOR TRIP (MWD FAILURE)
	18:00 - 19:00	1.00	DRLPRO	06	H	X		P.O.O.H. T/ 2780' / WELL STARTED FLOWING W/ .5 BBLs GAIN
	19:00 - 20:00	1.00	DRLPRO	05	B	Z		BUILD AND SPOT 100 BBL PILL AT CASING SHOE (2800')
	20:00 - 22:00	2.00	DRLPRO	06	J	Z		P.O.O.H. / MWD - FAILURE CAUSED BY MAGNETIZED MUD MOTOR (MOTOR WAS CHECKED PRIOR TO RUNNING IN HOLE AND WAS FOUND TO BE MAGNETIZED, PROCEDURES WERE FOLLOWED TO DE-MAGNETIZE MOTOR AND IT WAS BROUGHT INTO MAGNETIC LIMITS PRIOR TO RUNNING INTO HOLE)
	22:00 - 23:30	1.50	DRLPRO	06	J	Z		CHANGE OUT MUD MOTOR + MWD TOOLS / ADD 10' PONY NON-MAG COLLAR BETWEEN MOTOR & MWD TOOLS / SCRIBE & ORIENTATE NEW EQUIPMENT
	23:30 - 0:00	0.50	DRLPRO	06	J	Z		T.I.H. / RE-SURVEY EXISTING HOLE - NO PROBLEMS

**US ROCKIES REGION  
Operation Summary Report**

Well: NBU 922-18N2CS [RED]		Spud Conductor: 12/13/2008		Spud Date: 12/26/2008	
Project: UTAH-UINTAH		Site: NBU 922-18J PAD		Rig Name No: PROPETRO/, H&P 298/298	
Event: DRILLING		Start Date: 12/26/2008		End Date: 4/21/2009	
Active Datum: RKB @4,887.00ft (above Mean Sea Level)			UWI: NBU 922-18N2CS		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
4/11/2009	0:00 - 1:30	1.50	DRLPRO	06	J	Z		T.I.H. - RUN CHECK SHOTS TO VERIFY PREVIOUS DATA ON WELL - ORIGINAL DATA GOOD
	1:30 - 6:00	4.50	DRLPRO	02	D	P		DRILL (ROTATE & SLIDE) F/ 3312' - T/ 3512' = 200' @ 44.4 fph / 16k-18k WOB / TOP DRV RPM 40 / #2 PUMP @ 100 SPM = 450 GPM / MOTOR 72 RPM / SPP ON-OFF BTM 1320-1180 / TQ ON-OFF BTM 4k-2k ft/lbs / DRAG UP-DWN-ROT 112-102-106 / 8.6 ppg - 26 vis (DRILL W/ H2O + POLYMER - CIRCULATING RESERVE PIT) 10'-11' SLIDES MADE EVERY 30' ON 93' STANDS / NO FLARE
	6:00 - 17:30	11.50	DRLPRO	02	D	P		DRILL (ROTATE & SLIDE) F/ 3512' - T/ 4100' = 588' @ 51.13 fph / 16k-18k WOB / TOP DRV RPM 30-40 / #2 PUMP @ 105 SPM = 472 GPM / MOTOR 76 RPM / SPP ON-OFF BTM 1700-1400 / TQ ON-OFF BTM 7k-3k ft/lbs / DRAG UP-DWN-ROT 121-109-113 / 8.6 ppg - 26 vis (DRILL W/ H2O + POLYMER - CIRCULATING RESERVE PIT) 12'-20' SLIDES MADE EVERY 30' ON 93' STANDS / NO FLARE
	17:30 - 18:00	0.50	DRLPRO	07	A	P		LUBRICATE RIG & EQUIPMENT / WORK PIPE RAMS
	18:00 - 0:00	6.00	DRLPRO	02	D	P		DRILL (ROTATE & SLIDE) F/ 4100' - T/ 4405' = 305' @ 50.8 fph / 18k-20k WOB / TOP DRV RPM 30-32 / #1 PUMP @ 105 SPM = 472 GPM / MOTOR 76 RPM / SPP ON-OFF BTM 1720-1460 / TQ ON-OFF BTM 7k-3k ft/lbs / DRAG UP-DWN-ROT 131-110-120 / 8.6 ppg - 26 vis (DRILL W/ H2O + POLYMER - CIRCULATING RESERVE PIT) 10'-13' SLIDES MADE EVERY 30' ON 90' STANDS - NO FLARE
4/12/2009	0:00 - 3:30	3.50	DRLPRO	02	D	P		DRILL (ROTATE & SLIDE) F/ 4405' - T/ 4555' = 150' @ 42.8 fph / 18k-22k WOB / TOP DRV RPM 30-32 / #1 PUMP @ 105 SPM = 472 GPM / MOTOR 76 RPM / SPP ON-OFF BTM 1780-1495 / TQ ON-OFF BTM 7k-3k ft/lbs / DRAG UP-DWN-ROT 133-109-122 / 8.6 ppg - 26 vis (DRILL W/ H2O + POLYMER - CIRCULATING RESERVE PIT) 13'-16' SLIDES MADE EVERY 30' ON 90' STANDS - NO FLARE / PUMPING GEL SWEEPS
	3:30 - 5:00	1.50	DRLPRO	21	D	Z		LOST MWD SIGNAL - TROUBLE SHOOT SYSTEM & PULL 2 STANDS TO ACQUIRE SIGNAL
	5:00 - 6:00	1.00	DRLPRO	02	D	P		DRILL (ROTATE & SLIDE) F/ 4555' - T/ 4605" = 50' @ 50 fph / 18k-22k WOB / TOP DRV RPM 30-32 / #1 PUMP @ 105 SPM = 472 GPM / MOTOR 76 RPM / SPP ON-OFF BTM 1780-1495 / TQ ON-OFF BTM 7k-3k ft/lbs / DRAG UP-DWN-ROT 134-109-122 / 8.6 ppg - 26 vis (DRILL W/ H2O + POLYMER - CIRCULATING RESERVE PIT) 13'-18' SLIDES MADE EVERY 30' ON 93' STANDS - NO FLARE / PUMPING GEL SWEEPS
	6:00 - 17:30	11.50	DRLPRO	02	D	P		DRILL (ROTATE & SLIDE) F/ 4605" - T/ 4980" = 375" @ 31.25 fph / 18k-28k WOB / TOP DRV RPM 32 / #1 PUMP @ 105 SPM = 472 GPM / MOTOR 76 RPM / SPP ON-OFF BTM 1780-1495 / TQ ON-OFF BTM 8k-5k ft/lbs / DRAG UP-DWN-ROT 148-110-125 / 8.6 ppg - 26 vis (DRILL W/ H2O + POLYMER - CIRCULATING RESERVE PIT) 57'-62" SLIDES MADE ON 93' STANDS / DRILL STRING "STICKING" AND MOTOR "GRABBING" WHILE SLIDING DURING TRANSITION FROM GREEN RIVER TO WASATCH INCREASED GEL SWEEPS TO REDUCE STICKING - NO FLARE

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

Well: NBU 922-18N2CS [RED]		Spud Conductor: 12/13/2008		Spud Date: 12/26/2008	
Project: UTAH-UINTAH		Site: NBU 922-18J PAD		Rig Name No: PROPETRO/, H&P 298/298	
Event: DRILLING		Start Date: 12/26/2008		End Date: 4/21/2009	
Active Datum: RKB @4,887.00ft (above Mean Sea Level)			UWI: NBU 922-18N2CS		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	17:30 - 18:00	0.50	DRLPRO	07	A	P		SERVICE RIG & EQUIPMENT / WORK PIPE RAMS
	18:00 - 0:00	6.00	DRLPRO	02	C	P		DRILL (ROTATE & SLIDE) F/ 4985" - T/ 5233' = 248' @ 41.3 fph / 18k-28k WOB / TOP DRV RPM 32 / #2 PUMP @ 105 SPM = 472 GPM / MOTOR 76 RPM / SPP ON-OFF BTM 1860-1600 / TQ ON-OFF BTM 8k-4k ft/lbs / DRAG UP-DWN-ROT 150-114-131 / 8.6 ppg - 26 vis (DRILL W/ H2O + POLYMER - CIRCULATING RESERVE PIT) 9' TO 14' SLIDES MADE EACH 30' ON 93' STANDS / TOP OF WASATCH ESTIMATED @ 4890' (M.D. - 4785 T.V.D.) - FORMATION OIL TO SURFACE @ 4985' (M.D.) - NO FLARE / PUMPING GEL SWEEPS
4/13/2009	0:00 - 9:00	9.00	DRLPRO	02	D	P		DRILL (ROTATE & SLIDE) F/ 5233' - T/ 5855' = 622' @ 69.1 fph / 18k-28k WOB / TOP DRV RPM 32 / #2 PUMP @ 105 SPM = 472 GPM / MOTOR 76 RPM / SPP ON-OFF BTM 1978-1700 / TQ ON-OFF BTM 12k-10k ft/lbs / DRAG UP-DWN-ROT 162-120-136 / 8.6 ppg - 26 vis (DRILL W/ H2O + POLYMER - CIRCULATING RESERVE PIT) 9' TO 15' SLIDES MADE EACH 30' ON 93' STANDS / NO FLARE / PUMPING GEL/LIME SWEEPS
	9:00 - 17:30	8.50	DRLPRO	02	D	P		DRILL (ROTATE & SLIDE) F/ 5855' - T/ 6291' = 436' @ 51.29 fph / 18k-28k WOB / TOP DRV RPM 32 / #2 PUMP @ 105 SPM = 472 GPM / MOTOR 76 RPM / SPP ON-OFF BTM 2080-1800 / TQ ON-OFF BTM 12k-10k ft/lbs / DRAG UP-DWN-ROT 173-124-146 / 8.6 ppg - 26 vis (DRILL W/ H2O + POLYMER - CIRCULATING RESERVE PIT) 6' TO 18' SLIDES MADE EACH 30' ON 93' STANDS / 3'-5' FLARE 6145'-6155' (M.D.) / PUMPING GEL/LIME SWEEPS HOLE STICKY WHILE SLIDING / LOST 300 PSI PUMP PRESSURE IN 5 MINUTES WHILE DRILLING
	17:30 - 18:00	0.50	DRLPRO	07	A	P		SERVICE RIG & EQUIPMENT / CHECK SURFACE EQUIPMENT
	18:00 - 18:30	0.50	DRLPRO	11	E	P		SLOW PUMP RATE TESTED ON #1 & #2 PUMPS W/ SAME LOSS / SURFACE EQUIPMENT PRESSURE TESTED TO 2500 PSI / RIG FLOOR W/ MUD BUCKET FOR WET TRIP
	18:30 - 21:00	2.50	DRLPRO	06	H	Z		P.O.O.H. TO LOCATE CAUSE OF PRESSURE LOSS IN DRILL STRING
	21:00 - 21:00	0.00	DRLPRO	05	B	X		WELL FLOWING AT SHOE (2800') W/ 2'-10' FLARE / 7 BBL GAIN AT SURFACE / CIRCULATE GAS OUT OF HOLE / BUILD & SPOT 60 BBL 9.8 ppg PILL & SPOT @ 2833' / NO FLOW
	21:00 - 23:30	2.50	DRLPRO	06	H	Z		P.O.O.H / MOTOR SEALS FAILED CAUSING PRESSURE LOSS / CHANGE OUT MOTOR & BIT, LAY DOWN PONY MONEL, SCRIBE & ORIENTATE M.W.D. TOOLS
	23:30 - 0:00	0.50	DRLPRO	06	H	Z		T.I.H. W/ B.H.A.
4/14/2009	0:00 - 1:30	1.50	DRLPRO	06	H	Z		LAY DOWN PONY COLLAR, MUD MOTOR AND BHIT #1 / PICK UP MOTOR & BIT #2 / INSTALL & ORIENTATE DIRECTIONAL TOOLS
	1:30 - 4:30	3.00	DRLPRO	06	J	Z		T.I.H. TO 2800' / BREAKL CIRCULATION / T.I.H. TO 6000' / HOLE TIGHT & STICKY
	4:30 - 5:30	1.00	DRLPRO	03	E	Z		WASH & REAM F/ 6000' - T/ 6291' / RETURNS HEAVY WITH SAND + SHALE

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

Well: NBU 922-18N2CS [RED]		Spud Conductor: 12/13/2008		Spud Date: 12/26/2008	
Project: UTAH-UINTAH		Site: NBU 922-18J PAD		Rig Name No: PROPETRO/, H&P 298/298	
Event: DRILLING		Start Date: 12/26/2008		End Date: 4/21/2009	
Active Datum: RKB @4,887.00ft (above Mean Sea Level)			UWI: NBU 922-18N2CS		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	5:30 - 18:00	12.50	DRLPRO	02	C	P		DRILL (ROTATE & SLIDE) F/ 6291' - T/ 6995' = 704' @ 56.32 fph / 18k-28k WOB / TOP DRV RPM 32 / #2 PUMP @ 105 SPM = 472 GPM / MOTOR 76 RPM / SPP ON-OFF BTM 1820-1540 / TQ ON-OFF BTM 8k-6k ft/lbs / DRAG UP-DWN-ROT 180-125-158 / 8.6 ppg - 26 vis (DRILL W/ H2O + POLYMER - CIRCULATING RESERVE PIT) 10' TO 20' SLIDES MADE AT SELECTED INTERVALS ON 93' STANDS / PUMPING GEL/LIME SWEEPS HOLE STICKY WHILE SLIDING / 8056 UNITS TRIP GAS W/ 10'-15' FLARE
	18:00 - 0:00	6.00	DRLPRO	02	D	P		DRILL (ROTATE & SLIDE) F/ 6995' - T/ 7303' = 308' @ 51.33 fph / 18k-28k WOB / TOP DRV RPM 32 / #2 PUMP @ 110 SPM = 495 GPM / MOTOR 80 RPM / SPP ON-OFF BTM 1920-1584 / TQ ON-OFF BTM 11k-7k ft/lbs / DRAG UP-DWN-ROT 212-135-166 / 8.6 ppg - 26 vis (DRILL W/ H2O + POLYMER - CIRCULATING RESERVE PIT) 10' SLIDE MADE AT 7075' & 7' SLIDE MADE AT 7174' / 3'-5' FLARE 7100'-7110' (M.D.) GAS= 7505 UNITS / PUMPING GEL/LIME SWEEPS HOLE STICKY WHILE SLIDING
4/15/2009	0:00 - 5:30	5.50	DRLPRO	02	D	P		DRILL (ROTATE & SLIDE) F/ 7303' - T/ 7634' = 331' @ 60.18 fph / 18k-28k WOB / TOP DRV RPM 32 / #2 PUMP @ 110 SPM = 495 GPM / MOTOR 80 RPM / SPP ON-OFF BTM 1920-1584 / TQ ON-OFF BTM 11k-7k ft/lbs / DRAG UP-DWN-ROT 212-135-166 / 8.6 ppg - 26 vis (DRILL W/ H2O + POLYMER - CIRCULATING RESERVE PIT)
	5:30 - 7:30	2.00	DRLPRO	05	G	P		DISPLACE WATER IN ACTIVE PITS AND HOLE WIITH MUD TRANSFERED FROM P-68. (APPROX 750 BBLs)
	7:30 - 8:00	0.50	DRLPRO	02	D	P		DRILL F/ 7634' - T/ 7645' = 11' @ 22 fph // 18k-28k WOB / TOP DRV RPM 32 / #2 PUMP @ 110 SPM = 495 GPM / MOTOR 80 RPM / SPP ON-OFF BTM 1920-1584 / TQ ON-OFF BTM 11k-7k ft/lbs / DRAG UP-DWN-ROT 212-135-166 / 10.7 ppg - 42 vis / CONDITION MUD WHILE DRILLING TO REDUCE WEIGHT AS NEEDED
	8:00 - 9:30	1.50	DRLPRO	22	G	X		PARTIAL RETURNS / MIXING MUD W/ LCM TO SWEEP HOLE AND BUILD VOLUME TO DRILL, LOST 150 BBLs MUD
	9:30 - 17:30	8.00	DRLPRO	02	D	P		DRILL W/ FULL RETURNS F/ 7645' - T/ 7919 = 274' @ 34.2 fph // 18k-24k WOB / TOP DRV RPM 40 / #2 PUMP @ 105 SPM = 472 GPM / MOTOR 75 RPM / SPP ON-OFF BTM 2120-1920 / TQ ON-OFF BTM 12k-9k ft/lbs / DRAG UP-DWN-ROT 223-140-170 MUD 9.8 VIS 38
	17:30 - 18:00	0.50	DRLPRO	07	A	P		RIG SERVICE
	18:00 - 0:00	6.00	DRLPRO	02	D	P		DRILL (ROTATE & SLIDE) F/7919 - T/ 8200 = 281' @46.8fph / 16k-24k WOB / TOP DRV RPM 32-42 / #2 PUMP @ 105 SPM = 472 GPM / MOTOR 75 RPM / SPP ON-OFF BTM 2400-2055 / TQ ON-OFF BTM 14k-12k ft/lbs / DRAG UP-DWN-ROT 227-140-175 / 10.1 ppg - 41 vis, SLIDES 7925-7937, 8014-8028, 8114-8126, SLIDING 4% OF FOOTAGE & 7.5% OF DRILLING TIME

**US ROCKIES REGION  
Operation Summary Report**

Well: NBU 922-18N2CS [RED]		Spud Conductor: 12/13/2008	Spud Date: 12/26/2008
Project: UTAH-UINTAH		Site: NBU 922-18J PAD	Rig Name No: PROPETRO/, H&P 298/298
Event: DRILLING		Start Date: 12/26/2008	End Date: 4/21/2009
Active Datum: RKB @4,887.00ft (above Mean Sea Level)		UWI: NBU 922-18N2CS	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
4/16/2009	0:00 - 17:30	17.50	DRLPRO	02	D	P		DRILL (ROTATE & SLIDE) F/8200 - T/8865 =665' @38 fph / 16k-24k WOB / TOP DRV RPM 32-42 / #2 PUMP @ 105 SPM = 472 GPM / MOTOR 75 RPM / SPP ON-OFF BTM 2400-2055 / TQ ON-OFF BTM 14k-11k ft/lbs / DRAG UP-DWN-ROT 241-152-180 / 10.5 ppg - 41 vis,SLIDES 8487-8503,8549-8557,8596-8604,8777-8787, SLIDING 6.2%OF FOOTAGE &14.2% OF DRILLING TIME RIG SERVICE
	17:30 - 18:00	0.50	DRLPRO	07	A	P		
	18:00 - 0:00	6.00	DRLPRO	02	D	P		DRILL (ROTATE & SLIDE) F/8865 - T/9050 =185' @30 fph / 16k-24k WOB / TOP DRV RPM 32-42 / #2 PUMP @ 105 SPM = 472 GPM / MOTOR 75 RPM / SPP ON-OFF BTM 2460-2150 / TQ ON-OFF BTM 14k-11k ft/lbs / DRAG UP-DWN-ROT 241-150-185 / 10.5 ppg - 41 vis,SLIDES 8878-8892,8966-8976, SLIDING14%OF FOOTAGE & 33% OF DRILLING TIME HAVING TO ,SLIDE MORE,( FORMATION NOT RESPONDING TO SLIDES) FORMATION WANTING TO PULL TO SOUTH EAST
4/17/2009	0:00 - 14:30	14.50	DRLPRO	02	D	P		DRILL (ROTATE & SLIDE) F9050- T/9341 =291' @20.1 fph / 16k-26k WOB / TOP DRV RPM 30-42 / #2 PUMP @ 105 SPM = 472 GPM / MOTOR 75 RPM / SPP ON-OFF BTM 2770/ 2470 / TQ ON-OFF BTM 14k-11k ft/lbs / DRAG UP-DWN-ROT252-148-185 / 10.9 ppg - 43 vis,SLIDES 9055-9070-9168-9183, SLIDING17% & ROTATING 83%
	14:30 - 15:00	0.50	DRLPRO	05	C	P		MUD MOTOR FAILURE,CIRC BTMS UP F/ TRIP
	15:00 - 22:30	7.50	DRLPRO	06	H	Z		TOH,60-80K DRAG OFF BTM ,SWABBING HOLE UP REAM 5 STDS OUT W/ PUMP,TOH TO 8486,NO SWABBING,CHECK FOR FLOW PUMP SLUG,TOH, REAM THRU & CLEAN OUT TIGHT SPOTS
	22:30 - 0:00	1.50	DRLPRO	06	A	P		7658,6840,6625,6578,6365,5645,5540,5503,5478,5450,5086,5050,TOH TO SCG SHOE ,CHECK FOR FLOW , POOH FUNCT TEST BOP'S,BREAK BIT ,CHANGE OUT MUD MOTORS,MU BIT, ORIENTATE DIRECTIONAL TOOLS
4/18/2009	0:00 - 5:30	5.50	DRLPRO	06	A	P		TIH TO CSG SHOE,BREAK CIRC,CIH,WASHING & REAMING THROUGH BRIDGES@ 3671,5025,6567,6606, ,30-50K DRAG WHILE TRIPPING IN TO 9244"
	5:30 - 6:30	1.00	DRLPRO	03	D	P		W & R 95' TO BTM 5' FILL
	6:30 - 16:30	10.00	DRLPRO	02	D	P		DRILL F9341- T/9341 -9620=279' =27.9 fph / LOSING MUD 60 BBLS UNABLE TO STOP LOSSES WITH SWEEPS,BYPASS SHAKERS,LCM TO 4%,16k-26k WOB / TOP DRV RPM 30-42 / #2 PUMP @ 95 SPM = 427 GPM / MOTOR 68 RPM / SPP ON-OFF BTM 2550/ 2208 / TQ ON-OFF BTM 14k-11k ft/lbs / DRAG UP-DWN-ROT280-163-192 / 11.0 ppg - 43 vi
	16:30 - 17:00	0.50	DRLPRO	07	A	P		RIG SERVICE
	17:00 - 0:00	7.00	DRLPRO	02	D	P		DRILL - 9620 -9803=183 =26.1 fph / 16k-26k WOB / TOP DRV RPM 30-42 / #2 PUMP @ 95 SPM = 427 GPM / MOTOR 68 RPM / SPP ON-OFF BTM 2550/ 2225 / TQ ON-OFF BTM 14k-11k ft/lbs, / DRAGUP-DWN-ROT280-162-195 / 11.2 ppg - 42 vi LCM 4%

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

Well: NBU 922-18N2CS [RED]		Spud Conductor: 12/13/2008	Spud Date: 12/26/2008
Project: UTAH-UINTAH		Site: NBU 922-18J PAD	Rig Name No: PROPETRO/, H&P 298/298
Event: DRILLING		Start Date: 12/26/2008	End Date: 4/21/2009
Active Datum: RKB @4,887.00ft (above Mean Sea Level)		UWI: NBU 922-18N2CS	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
4/19/2009	0:00 - 5:30	5.50	DRLPRO	02	D	P		DRILL F/9803-9935=132=24fph,TD @ 0530 HRS
	5:30 - 7:00	1.50	DRLPRO	05	C	P		04/19/2009,WOB18, TOP DRV RPM 32-42,M MTR 68,SPM 95,GPM 427,SPP
	7:00 - 11:30	4.50	DRLPRO	06	E	P		ON/OFF2550/2208,PU/SO/ROTATE 285/162/198,MW 11.3 VIS 42 5%LCM
	11:30 - 14:30	3.00	DRLPRO	06	E	P		CIRC AND COND HOLE F/ WIPER TRIP,LOGS & CSG,
	14:30 - 18:30	4.00	DRLPRO	05	E	P		WIPER TRIP TO 4950' BACK REAM & PUMP OUT OUT 10 STDS TO 8995',WORKING OUT TIGHT SPOTS@9785,9653,9571,9541,9500,9436,9351,
	18:30 - 0:00	5.50	DRLPRO	06	B	X		PULL 5 STDS TO 8525, DRAG 40 TO 60K,PUMP DRY JOB,TOH 8500' DRAG 20-40K,WORK THRU TIGHT SPOTS @ 6365,5644,TOH TO 4950'
4/20/2009	0:00 - 1:30	1.50	DRLPRO	06	B	P		TIH,W&R THRU BRIDGES@6404,6561,6613 ,CIH,W & R 90' TO BTM 3' FILL
	1:30 - 7:30	6.00	DRLPRO	11	G	P		CCH,F/LOGS TRIP GAS 6800 U,NO FLARE ,LOSING MUD,75% RETURNS REDUCE PUMP RATE TO 60 SPM,MIX LCM,BUILD VOLUME, PUMP SWEEPS,MW TO 11.4 VIS 44 LCM
	7:30 - 8:00	0.50	DRLPRO	14	B	P		8%,LOST 100 BBLS,CIRC W/ FULL RETURNS TRIP OUT F/LOGS, BACK REAM & PUMP OUT OUT 10 STDS TO 8995', PULL 5 STDS TO 8525,
	8:00 - 9:00	1.00	DRLPRO	12	A	P		DRAG 40 TO 60K,PUMP DRY JOB,TOH 8500' DRAG 20-40K,WORK THRU TIGHT SPOTS @6871,6529, 6297,5644,TOH
	9:00 - 17:30	8.50	DRLPRO	12	C	P		FINISH TOH,L/D MWD,BREAK BIT L/D MUD MTR SM W/ HALLIBURTON LOGGERS & RIG CREW,RU & RUN TRIPLE COMBO,LOG TOOL STOPPED @ 6520',LOG OUTTO SURFACE NETURON DENSITY TOOL& CALIPER NOT WORKING,RD SAME
	17:30 - 19:30	2.00	DRLPRO	05	D	P		PULL WEAR BUSHING
	19:30 - 22:30	3.00	DRLPRO	12	E	P		SM W/ WEATHERFORD,RU EQUIPMENT
	22:30 - 0:00	1.50	DRLPRO	12	A	Z		RUN 8 JT OF P110 11.6# LT&C 41/2 CSG,227 JTS OF I-80,11.6# LT&C 41/2 CSG WASH THRU BRIDGE @6520',BREAKING CIRC @ SELECTED INTERVALS,LAND CSG W/75K,( BLM ON LOCATION)
4/21/2009	0:00 - 1:30	1.50	DRLPRO	15	A	P		SM RU BJ CIRC EQUIP,CIRC CSG
	1:30 - 3:00	1.50	DRLPRO					TEST PUMPS & LINES TO 4500 PSI / PUMP 20 BBLS MUD CLEAN + 20 BBLS H2O + 460 SX PREM LITE II LEAD CEMENT @ 11.0 ppg (MIX WATER = 20.52 gal/sx, 3.38 yield) + 1450 SX 50/50 POZMIX TAIL @ 14.3 ppg (MIX WATER = 5.91 gal/sx, 1.31 yield) / DROP PLUG & DISPLACE W/ 154. BBLS H2O + ADDITIVES / GOOD RETURNS PRIOR TO DROPPING PLUG - LOST RETURNS UPON STARTING DISPLACEMENT / LIFT PRESSURE @ 2700 BUMP PLUG W/ 3 150 PSI - FLOATS HELD W/ 1.00 BBL BACK / R.D. CEMENT EQUIPMENT HAD TROUBLE BREAKING,LANDING TOOL FROM CSG HANGER,,LD SAME

**US ROCKIES REGION  
Operation Summary Report**

Well: NBU 922-18N2CS [RED]		Spud Conductor: 12/13/2008	Spud Date: 12/26/2008
Project: UTAH-UINTAH		Site: NBU 922-18J PAD	Rig Name No: GWS 1/1
Event: COMPLETION		Start Date: 8/27/2009	End Date: 9/11/2009
Active Datum: RKB @4.887.00ft (above Mean Sea Level)		UWI: NBU 922-18N2CS	

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	ALL	37	B	P		OPEN WELL P/U RIH W/ PERF GUNS, PERF MSAVERDE USIN G 3-3/8 EXPEND [SCALLOP] 23 GRMS, 0.36" HOLE, 9500'-9502' 4 SPF, 90* PH, 8 HOLES. 9476'-9480' 3 SPF, 120* PH, 12 HOLES. 9430'-9432' 3 SPF, 120* PH, 6 HJOLES. 9346'-9348' 4 SPF 90* PH, 8 HOLES. 9318'-9320' 3 SPF 120* PH, 6 HOLES. [40 HOLES] READY TO FRAC MON. SWI.
8/31/2009	7:00 - 17:30	10.50	COMP	36	E	P		HSM, GO OVER SAFETY PROCEDURES FRACING & WIRELINE.  FRAC STG #1] MESAVERDE 9318'-9502' [40 HOLES]  STG #1] WHP=1226#, BRK DN PERFS @ 3735#, INJ PSI=6109#, INJ RT=50, ISIP=2895#, FG=.74, PUMP'D 3672 BBLS SLK WTR W/ 128888# 30/50 MESH W/ 5000# RESIN COAT IN TAIL. ISIP=2937#, FG=.75, AR=50.4, AP=6190#, MR=51.4, MP=6720#, NPI=142#, 28/40 CALC PERFS OPEN  STG #2] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN. SET CBP @ 9294', PERF MESAVERDE USING 3-3/8 EXPEND, [SCALLOP] 23 GRM, 0.36" HOLE. 9260'-9264' 3 SPF, 120* PH, 12 HOLES. 9228'-9232' 3 SPF, 120* PH, 12 HOLES. 9158'-9164' 3 SPF, 120* PH, 18 HOLES. [42 HOLES]  WHP=2536#, BRK DN PERFS @ 3923#, INJ PSI=5673#, INJ RT=51.1, ISIP=3148#, FG=.77, PUMP'D 871 BBLS SLK WTR W/ 31704# 30/50 MESH W/ 5000# RESIN COAT IN TAIL. ISIP=2796#, FG=.74, AR=51.4, AP=5503, MR=51.9, MP=5938#, NPI=-352#, 25/42 CALC PERFS OPEN.  STG #3] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN. SET CBP @ 9002', PERF MESAVERDE USING 3-3/8 EXPEND, [SCALLOP] 23 GRM, 0.36" HOLE. 8970'-8972' 3 SPF, 120* PH, 6 HOLES. 8918'-8922' 3 SPF, 120* PH, 12 HOLES. 8888'-8890' 4 SPF, 90* PH, 8 HOLES. 8842'-8844' 4 SPF, 90* PH, 8 HOLES. 8752'-8754' 3 SPF, 120* PH, 6 HOLES. [40 HOLES]  SWIFN.

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

Well: NBU 922-18N2CS [RED]		Spud Conductor: 12/13/2008	Spud Date: 12/26/2008
Project: UTAH-UINTAH		Site: NBU 922-18J PAD	Rig Name No: GWS 1/1
Event: COMPLETION		Start Date: 8/27/2009	End Date: 9/11/2009
Active Datum: RKB @4,887.00ft (above Mean Sea Level)		UWI: NBU 922-18N2CS	

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 #3] MESAVERDE 8752'-8972' [40 HOLES]</p> <p>WHP=1594#, BRK DN PERFS @ 2430#, INJ PSI=4730#, INJ RT=46.3, ISIP=2197#, FG=.68, PUMP'D 1637 BBLS SLK WTR W/ 66800# 30/50 MESH W/ 5000# RESIN COAT IN TAIL, ISIP=2302#, FG=.69, AR=49.9, AP=4305#, MR=51.1, MP=4898#, NPI=105#, 28/40 CALC PERFS OPEN.</p> <p>STG #4] P/U RIH W/ HALIBURTON 8K CBP &amp; PERF GUN. SET CBP @ 8698', PERF MESAVERDE USING 3-3/8 EXPEND [SCALLOP] 23 GRM, 0.36" HOLE. 8664'-8668' 3 SPF, 120* PH, 12 HOLES. 8590'-8594' 3 SPF, 120* PH, 12 HOLES. 8498'-8504' 3 SPF, 120* PH, 18 HOLES. [42 HOLES]</p> <p>WHP=1508#, BRK DN PERFS @ 3179#, INJ PSI=4117#, INJ RT=50.8, ISIP=2402#, FG=.71, PUMP'D 869 BBLS SLK WTR W/ 32001# 30/50 MESH W/ 5000# RESIN COAT IN TAIL, ISIP=2766#, FG=.76, AR=50.2, AP=3976#, MR=51.4, MP=4305#, NPI=364#, 42/42 CALC PERFS OPEN.</p> <p>STG #5] P/U RIH W/ HALIBURTON 8K CBP &amp; PERF GUN. SET CBP @ 8202', PERF MESAVERDE USING 3-3/8 EXPEND [SCALLOP] 23 GRM, 0.36" HOLE. 8168'-8172' 3 SPF, 120* PH, 12 HOLES. 8102'-8104' 3 SPF, 120* PH, 6 HOLES. 8040'-8044' 4 SPF, 90* PH, 16 HOLES. 7960'-7963' 3 SPF, 120* PH, 9 HOLES. [43 HOLES] SWIFN.</p>

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

Well: NBU 922-18N2CS [RED]	Spud Conductor: 12/13/2008	Spud Date: 12/26/2008
Project: UTAH-UINTAH	Site: NBU 922-18J PAD	Rig Name No: GWS 1/1
Event: COMPLETION	Start Date: 8/27/2009	End Date: 9/11/2009
Active Datum: RKB @4,887.00ft (above Mean Sea Level)	UWI: NBU 922-18N2CS	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
9/2/2009	7:00 - 22:00	15.00	COMP	36	E	P		<p>FRAC MESAVERDE 7960'-8172' [43 HOLES]</p> <p>STG #5] WHP=619#, BRK DN PERFS @ 2607#, INJ PSI=3726#, INJ RT=50.9, ISIP=1486#, FG=62, PUMP'D 2464 BBLS SLK WTR W/ 90,255# 30/50 MESH W/ 5000# RESIN COAT IN TAIL, ISIP=2238#, FG=71, AR=50.4, AP=3577#, MR=51.2, MP=4587#, NPI=752#, 43/43 CALC PERFS OPEN.</p> <p>STG #6] P/U RIH W/ HALIBURTON 8K CBP &amp; PERF GUN. SET CBP @ 7884', PERF MESAVERDE USING 3-3/8 EXPEND [SCALLOP] 23 GRM, 0.36" HOLE. 7850'-7854' 3 SPF, 120* PH, 12 HOLES. 7782'-7788' 3 SPF, 120* PH, 18 HOLES. 7708'-7712' 3 SPF, 120* PH, 12 HOLES. [42 HOLES]</p> <p>STG #6] WHP=1086#, BRK DN PERFS @ 3025#, INJ PSI=4376#, INJ RT= 51.6, ISIP= 1697#, FG=.65, PUMP'D 1332 BBLS SLK WTR W/ 47,003# 30/50 MESH W/ 5000# RESIN COAT IN TAIL, ISIP= 2696#, FG=.78, AR=51.1, AP=4211#, MR=52.3, MP=4663#, NPI=999#, 33/42 CALC PERFS OPEN.</p> <p>RIH W/ 4-1/2" 8K HALCO CBP (KILL PLUG). MIS-RUN. POOH W/ PLUG AND SETTING TOOL AT 200 FPM. PLUG STARTED TO DRAG AT 3200'. SLOW DOWN AND KEEP POOH. PLUG HUNG UP AT 2407'. WORK LINE. NO CHANGE. 2000# ON CSG. CONFER W/ ROBERT. SURGE WELL AS WORK LINE. MOVED UP HOLE 1-2' THEN STOPPED AGAIN. PLUG STILL STUCK. HOOK UP TO FRAC TECH AND PUMP DOWN CSG-- START AT 1/2 BPM UP TO 2-1/2 BPM. PRES FROM 1700# TO 2700#. PMP 20 BBLS. NO CHANGE IN PLUG. SURGE WELL AGAIN. CONFER W/ ROBERT AND JC (CUTTERS). WORK LINE ATTEMPTING TO PULL OUT OF CABLE HEAD. 9/32" LINE, 12-STRAND CABLE HEAD. LINE TENSIL AT 9,100#. WORKING LINE UP TO 6000#. UNABLE TO PULL OUT OF CABLE HEAD. CONFER W/ ROBERT, JC, AND REBECCA. OPT TO DROP KINLEY CUTTER AND RECOVER LINE. WORK LINE TO 5000# AS WAIT ON TOOLS. TOOLS AOL 8:00 PM. HSM. CLOSE LINE RAMS AND PUT CUTTER ON LINE. EQUALIZE 1500# AND OPEN RAMS. WORK LINE 200# TO 1000# FOR 25 MIN. CUT LINE IN 60 MIN. POOH W/ LINE. APPEARS TO HAVE ALL LINE OUT. TOP OF TOOLS AT 2396'. HAVE KINLEY CUTTER AND EWL SETTING TOOLS ON TOP OF PLUG. STRIP OFF 2500' EWL. WILL REHEAD IN AM.SDFN</p>
9/3/2009	-							
9/4/2009	-							
9/8/2009	7:00 - 7:30	0.50	COMP	48		P		HSM. FISHING OPERATIONS & WORKING NEXT TO ANOYHER RIG & THERE OPER.

US ROCKIES REGION  
**Operation Summary Report**

Well: NBU 922-18N2CS [RED]		Spud Conductor: 12/13/2008	Spud Date: 12/26/2008
Project: UTAH-UINTAH		Site: NBU 922-18J PAD	Rig Name No: GWS 1/1
Event: COMPLETION		Start Date: 8/27/2009	End Date: 9/11/2009
Active Datum: RKB @4,887.00ft (above Mean Sea Level)		UWI: NBU 922-18N2CS	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	7:30 - 17:00	9.50	COMP	31	B	P		WFP 100 PSI, PUMP 40 BBLS 2% KCL. WELL DEAD. ND FRAC VALVES NU BOP. PU 3 16" OVERSHOT, OVERSHOT EXT BUMPER SUB, & 2 3/8" 6' PUP. 1.35 SN. RIH W/ 73 JTS TAG FISH @ 2,331' WORK TOOLS. POOH W/ FISH. PU 3 16" OVERSHOT, OVERSHOT EXT BUMPER SUB, JARS & 2 3/8" 6' PUP. 1.35 SN. RIH W/ 73 JTS & TAG FISH @ 2,332' WORKED TOOLS FISH FELL FREE. PUMPED 10# BRINE AS NEEDED TO CONTROL WELL. POOH CAME OUT WITHOUT ANYTHING. KILLED WELL PU SAME TOOLS RIH TO 2,423', SDFN FLOW WELL OVERNIGHT. 220 BBLS OF 10# BRINE WAS USED TODAY.
9/9/2009	7:00 - 7:30	0.50	COMP	48		P		HSM. FISHING OPERATIONS & WORKING WITH ANOTHER RIG NEXT TO YOU.
	7:30 - 18:00	10.50	COMP	31	B	P		FWP 100 PSI. PUMP 40 BBLS 10# BRINE TO KILL WELL. CONTINUE RIH W/ FISHING TOOLS. TAG FISH @ 7,606' WORK TOOLS POOH. NO FISH. WAITE ON NEW & DIFFERENT TOOLS. SHORT CATCH. PU & RIH W/ 241 JTS TAG FISH @ 7,606' WORKED TOOLS. THINK WE HAVE FISH. POOH W/ TBG NO FISH. SDFN WELL OPEN TO FLOW BACK TANK WELL DEAD.
9/10/2009	7:00 - 7:30	0.50	COMP	48		P		WE FELL THAT WHEN THE CBP FELL DOWN HOLE 5,000' THE CBP MUST HAVE SET. BECAUSE THE WELL IS STAYING DEAD ALL DAY. HSM. FISHING & WORKING NEXT TO ANOTHER RIG.
	7:30 - 13:22	5.87	COMP	31	B	P		WHP 0 PSI. PU OVERSHOT 1 3/8" GRAPPLE, BUMPER SUB, JARS 6' PUP JT & SN. TAG FISH @ 7,606' WORKED TOOL. POOH DRAGGING ALL THE WAY OUT. GOT STUCK IN WELL HEAD. JARED @ SURFACE SEVERAL TIMES. GOT FISH OUT!! CABLE HEAD SINKER BARS & CCL & SETTING TOOL & SETTING SLEEVE. PU 3 7/8" MILL & POPS RIH W 242 JTS 7,615'. RU POWER SWIVEL. PREP TO DRL IN AM. SWI SDFN
9/11/2009	7:00 - 7:30	0.50	COMP	48		P		CUTTERS, FRANK WINN & DOUG CHIVERS CHECKED ALL TOOLS THAT WERE FISHED. SETTING TOOL HAD NOT GONE OFF & CABLE HEAD WAS CHECKED & WAS 1 7/16" THE CORRECT O.D. CUTTERS RELEASED PRESSURE ON SETTING TOLL & TOOK TOOLS TO THERE SHOP. HSM. DRLG CBP & LANDING PRODUCTION TUBING.

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

Well: NBU 922-18N2CS [RED]		Spud Conductor: 12/13/2008	Spud Date: 12/26/2008
Project: UTAH-UINTAH		Site: NBU 922-18J PAD	Rig Name No: GWS 1/1
Event: COMPLETION		Start Date: 8/27/2009	End Date: 9/11/2009
Active Datum: RKB @4,887.00ft (above Mean Sea Level)		UWI: NBU 922-18N2CS	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	7:30 - 7:30	0.00	COMP	44	C	P		<p>WHP 0 PSI, BRK CIRC W/ 2% KCL. RIH</p> <p>C/O 0' OF SND TAG PLG 1 @ 7,625' DRL PLG 1 IN 10 MIN 0 PSI INCREASE. RIH</p> <p>CO 260' OF SND TAG PLG 2 @ 7,884' DRL PLG 2 IN 4 MIN 200 PSI INCREASE. RIH</p> <p>C/O 175' OF SND TAG PLG 3 @ 8,202' DRL PLG 3 IN 5 MIN. 1,100 PSI INCREASE. PERFS 8,102' - 04' &amp; 8,168' - 72' WERE COVERED W/ SAND INDICATING THAT BOTTOM 2 ZONES WERE NOT FRACED.</p> <p>C/O 30' OF SND TAG PLG 4 @ 8698' DRL PLG 4 IN 5 MIN. 150 PSI INCREASE. RIH</p> <p>C/O 70' OF SND TAG PLG 5 @ 9,202' DRL PLG 5 IN 6 MIN. 100 PSI INCREASE. RIH</p> <p>C/O 30' OF SND TAG PLG 6 @ 9,294' DRL PLG 6 IN 5 MIN. 400 PSI INCREASE. RIH</p> <p>C/O TO 9,700' CIRC. WELL CLEAN. POOH LD 18 JTS ON TRAILER. LAND TUBING W/ 290 JTS OF 2 3/8" L-80 @ 9,139.50'. ND BOP NU WELL HEAD. DROP BALL TO SHEAR OFF MILL. PUMP OFF MILL @ 2,000 PSI. TURN WELL OVER TO FLOW TESTERS. 1,650 PSI ON CASING &amp; 600 PSI ON TUBING</p> <p>315 JTS OUT BOUND                      KB 26' 290 JTS LANDED 25 JTS RETURNED</p>
9/12/2009	9:25 -		PROD	50				WELL TURNED TO SALE @ 0925 HR ON 9/12/09 - FTP 1400#, CP 2575#, 1.6 MCFD, 40 BWPD, 20/64 CK
9/13/2009	7:00 -			33	A			7 AM FLBK REPORT: CP 2300#, TP 1300#, 20/64" CK, 35 BWPH, MEDIUM SAND, - GAS TTL BBLS RECOVERED: 4820 BBLS LEFT TO RECOVER: 6020
9/14/2009	7:00 -			33	A			7 AM FLBK REPORT: CP 2100#, TP 1200#, 20/64" CK, 30 BWPH, MEDIUM SAND, - GAS TTL BBLS RECOVERED: 5585 BBLS LEFT TO RECOVER: 5255
9/15/2009	7:00 -			33	A			7 AM FLBK REPORT: CP 1950#, TP 1100#, 20/64" CK, 25 BWPH, medium SAND, - GAS TTL BBLS RECOVERED: 6185 BBLS LEFT TO RECOVER: 4655
9/16/2009	7:00 -			33	A			7 AM FLBK REPORT: CP 1825#, TP 1050#, 20/64" CK, 15 BWPH, LIGHT SAND, - GAS TTL BBLS RECOVERED: 6690 BBLS LEFT TO RECOVER: 4150
9/18/2009	7:00 -		PROD	50				WELL IP'D 9/18/09- 1842 MCFD, 240 BWPD, 0 BOPD, FTP 1095#, CP 1130#, CK 20/64", LP 101#, 24 HRS

# 1 General

## 1.1 Customer Information

Company	US ROCKIES REGION
Representative	
Address	

## 1.2 Well Information

Well	NBU 922-18N2CS [RED]	Wellbore No.	OH
Well Name	NBU 922-18N2CS	Common Name	NBU 922-18N2CS
Project	UTAH-UINTAH	Site	NBU 922-18J PAD
Vertical Section Azimuth	228.37 (°)	North Reference	True
Origin N/S	0.0 (ft)	Origin E/W	0.0 (ft)
Spud Date	12/26/2008	UWI	NBU 922-18N2CS
Active Datum	RKB @4,887.00ft (above Mean Sea Level)		

# 2 Survey Name

## 2.1 Survey Name: GYRO 011409

Survey Name	GYRO 011409	Company	MULTI-SHOT
Started	1/14/2009	Ended	
Tool Name	GMS	Engineer	

### 2.1.1 Tie On Point

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)
3.00	0.00	0.00	3.00	0.00	0.00

### 2.1.2 Survey Stations

Date	Type	MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Build (°/100ft)	Turn (°/100ft)	TFace (°)
1/14/2009	Tie On	3.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NORMAL	103.00	0.25	329.82	103.00	0.19	-0.11	-0.04	0.25	0.25	0.00	329.82
	NORMAL	203.00	0.25	266.02	203.00	0.36	-0.44	0.09	0.26	0.00	-63.80	-121.90
	NORMAL	303.00	0.25	242.21	303.00	0.25	-0.85	0.47	0.10	0.00	-23.81	-101.90
	NORMAL	403.00	0.25	190.41	403.00	-0.07	-1.08	0.85	0.22	0.00	-51.80	-115.90
	NORMAL	503.00	0.25	287.60	503.00	-0.22	-1.33	1.14	0.38	0.00	97.19	138.59
	NORMAL	603.00	0.25	321.77	603.00	0.02	-1.67	1.24	0.15	0.00	34.17	107.08
	NORMAL	703.00	0.25	308.96	702.99	0.33	-1.98	1.26	0.06	0.00	-12.81	-96.40
	NORMAL	803.00	0.25	261.16	802.99	0.43	-2.36	1.48	0.20	0.00	-47.80	-113.90
	NORMAL	903.00	0.25	159.35	902.99	0.19	-2.50	1.74	0.39	0.00	-101.81	-140.90
	NORMAL	1,003.00	0.25	327.55	1,002.99	0.17	-2.54	1.78	0.50	0.00	168.20	174.10
	NORMAL	1,103.00	0.25	143.74	1,102.99	0.18	-2.53	1.77	0.50	0.00	176.19	178.09
	NORMAL	1,203.00	0.25	273.94	1,202.99	0.02	-2.62	1.94	0.45	0.00	130.20	155.10
	NORMAL	1,303.00	0.25	70.13	1,302.99	0.11	-2.63	1.89	0.49	0.00	156.19	168.09
	NORMAL	1,403.00	0.25	199.32	1,402.99	-0.02	-2.50	1.88	0.45	0.00	129.19	154.59
	NORMAL	1,503.00	0.25	303.52	1,502.99	-0.11	-2.75	2.13	0.39	0.00	104.20	142.10
	NORMAL	1,603.00	0.25	49.71	1,602.99	0.15	-2.76	1.96	0.40	0.00	106.19	143.09
	NORMAL	1,703.00	0.25	73.01	1,702.99	0.36	-2.39	1.55	0.10	0.00	23.30	101.65
	NORMAL	1,803.00	0.50	283.30	1,802.99	0.52	-2.61	1.60	0.73	0.25	-149.71	-159.70
	NORMAL	1,903.00	1.50	291.61	1,902.97	1.10	-4.25	2.44	1.01	1.00	8.31	12.42
	NORMAL	2,003.00	1.25	303.90	2,002.94	2.19	-6.37	3.30	0.39	-0.25	12.29	136.32

2.1.2 Survey Stations (Continued)

Date	Type	MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Build (°/100ft)	Turn (°/100ft)	TFace (°)
1/14/2009	NORMAL	2,103.00	1.00	297.19	2,102.92	3.20	-8.05	3.89	0.28	-0.25	-6.71	-155.54
	NORMAL	2,203.00	1.00	272.49	2,202.91	3.64	-9.70	4.83	0.43	0.00	-24.70	-102.35
	NORMAL	2,303.00	1.75	251.79	2,302.88	3.20	-12.02	6.86	0.89	0.75	-20.70	-44.15
	NORMAL	2,403.00	1.00	252.08	2,402.85	2.45	-14.30	9.06	0.75	-0.75	0.29	179.61
	NORMAL	2,503.00	1.25	253.37	2,502.83	1.87	-16.18	10.85	0.25	0.25	1.29	6.43
	NORMAL	2,603.00	1.75	235.14	2,602.80	0.69	-18.48	13.35	0.69	0.50	-18.23	-53.02
	NORMAL	2,663.00	1.50	218.43	2,662.77	-0.46	-19.70	15.03	0.00	0.00	0.00	0.00
4/10/2009	NORMAL	2,660.00	1.50	218.43	2,659.77	-0.39	-19.65	14.95	0.94	-0.44	-29.32	-126.00
	NORMAL	2,850.00	0.82	215.04	2,849.73	-3.47	-21.99	18.74	0.37	-0.36	-1.81	-175.93
	NORMAL	2,944.00	2.47	215.73	2,943.69	-5.66	-23.56	21.37	1.76	1.76	0.73	1.03
	NORMAL	3,039.00	5.53	221.31	3,038.45	-10.76	-27.78	27.91	3.24	3.22	5.87	10.04
	NORMAL	3,134.00	8.19	229.28	3,132.76	-18.62	-35.93	39.23	2.97	2.80	8.39	23.68
	NORMAL	3,229.00	10.18	224.61	3,226.54	-29.01	-46.96	54.37	2.24	2.09	-4.92	-22.85
	NORMAL	3,323.00	12.43	227.28	3,318.71	-41.79	-60.22	72.78	2.46	2.39	2.84	14.41
4/11/2009	NORMAL	3,418.00	14.08	227.55	3,411.18	-56.53	-76.26	94.55	1.74	1.74	0.28	2.28
	NORMAL	3,513.00	16.33	229.83	3,502.85	-72.94	-95.00	119.46	2.45	2.37	2.40	15.99
	NORMAL	3,608.00	18.39	233.13	3,593.52	-90.55	-117.19	147.75	2.40	2.17	3.47	27.13
	NORMAL	3,702.00	19.18	228.59	3,682.52	-109.66	-140.64	177.97	1.77	0.84	-4.83	-63.78
	NORMAL	3,797.00	19.81	227.28	3,772.07	-130.91	-164.17	209.67	0.81	0.66	-1.38	-35.38
	NORMAL	3,892.00	20.13	226.28	3,861.36	-153.13	-187.81	242.10	0.49	0.34	-1.05	-47.33
	NORMAL	3,987.00	21.81	226.53	3,950.06	-176.57	-212.44	276.08	1.77	1.77	0.26	3.17
	NORMAL	4,082.00	23.38	228.53	4,037.77	-201.19	-239.37	312.57	1.84	1.65	2.11	27.01
	NORMAL	4,177.00	24.56	228.28	4,124.57	-226.82	-268.23	351.17	1.25	1.24	-0.26	-5.03
	NORMAL	4,271.00	23.25	225.65	4,210.51	-252.79	-296.08	389.24	1.80	-1.39	-2.80	-142.07
	NORMAL	4,366.00	21.75	225.15	4,298.28	-278.31	-321.97	425.54	1.59	-1.58	-0.53	-172.96
	NORMAL	4,461.00	20.44	225.78	4,386.91	-302.29	-346.34	459.69	1.40	-1.38	0.66	170.47
4/12/2009	NORMAL	4,556.00	18.75	225.28	4,476.40	-324.61	-369.08	491.51	1.79	-1.78	-0.53	-174.57
	NORMAL	4,650.00	20.41	228.99	4,564.97	-345.99	-392.18	522.99	2.21	1.77	3.95	38.59
	NORMAL	4,745.00	21.75	226.40	4,653.61	-369.00	-417.43	557.14	1.72	1.41	-2.73	-36.02
	NORMAL	4,840.00	21.56	224.15	4,741.91	-393.67	-442.33	592.14	0.90	-0.20	-2.37	-103.93
	NORMAL	4,935.00	20.38	229.53	4,830.62	-416.93	-467.08	626.09	2.38	-1.24	5.66	124.00
	NORMAL	5,029.00	23.44	228.56	4,917.82	-439.93	-493.55	661.16	3.28	3.26	-1.03	-7.20
	NORMAL	5,122.00	23.38	229.65	5,003.17	-464.12	-521.48	698.11	0.47	-0.06	1.17	98.39
	NORMAL	5,217.00	23.19	232.28	5,090.43	-487.77	-550.64	735.61	1.11	-0.20	2.77	101.56
	NORMAL	5,312.00	21.69	231.40	5,178.24	-510.17	-579.16	771.81	1.62	-1.58	-0.93	-167.78
	NORMAL	5,407.00	19.00	232.40	5,267.30	-530.56	-605.14	804.77	2.86	-2.83	1.05	173.10
4/13/2009	NORMAL	5,502.00	17.13	234.40	5,357.62	-548.14	-628.77	834.11	2.07	-1.97	2.11	162.60
	NORMAL	5,597.00	14.00	234.28	5,449.12	-563.00	-649.48	859.46	3.29	-3.29	-0.13	-179.47
	NORMAL	5,692.00	13.56	232.53	5,541.39	-576.48	-667.65	882.00	0.64	-0.46	-1.84	-137.40
	NORMAL	5,787.00	11.88	231.90	5,634.05	-589.29	-684.18	902.87	1.77	-1.77	-0.66	-175.59
	NORMAL	5,881.00	9.81	234.65	5,726.37	-599.90	-698.33	920.49	2.27	-2.20	2.93	167.31
	NORMAL	5,976.00	7.44	231.15	5,820.29	-608.44	-709.72	934.68	2.55	-2.49	-3.68	-169.24
	NORMAL	6,071.00	6.01	220.26	5,914.64	-616.09	-717.73	945.75	2.01	-1.51	-11.46	-143.60
	NORMAL	6,167.00	4.13	218.03	6,010.26	-622.65	-723.11	954.12	1.97	-1.96	-2.32	-175.13
4/14/2009	NORMAL	6,262.00	3.38	223.78	6,105.05	-627.37	-727.15	960.28	0.88	-0.79	6.05	156.19
	NORMAL	6,357.00	1.31	142.40	6,199.99	-630.25	-728.43	963.15	3.62	-2.18	-85.66	-157.85
	NORMAL	6,451.00	1.69	77.82	6,293.96	-630.81	-726.42	962.02	1.74	0.40	-68.70	-110.95
	NORMAL	6,545.00	1.53	92.12	6,387.92	-630.57	-723.81	959.91	0.46	-0.17	15.21	118.76
	NORMAL	6,640.00	1.06	100.65	6,482.90	-630.77	-721.68	958.45	0.53	-0.49	8.98	161.92
	NORMAL	6,734.00	1.13	117.15	6,576.88	-631.36	-720.00	957.58	0.34	0.07	17.55	85.82
	NORMAL	6,829.00	1.31	134.03	6,671.86	-632.54	-718.38	957.16	0.42	0.19	17.77	72.00
	NORMAL	6,923.00	1.13	124.15	6,765.84	-633.81	-716.84	956.85	0.29	-0.19	-10.51	-135.42
	NORMAL	7,017.00	0.31	61.28	6,859.83	-634.21	-715.85	956.38	1.09	-0.87	-66.88	-164.41
	NORMAL	7,111.00	1.00	27.15	6,953.83	-633.35	-715.26	955.37	0.81	0.73	-36.31	-47.30
	NORMAL	7,205.00	1.44	26.03	7,047.80	-631.56	-714.36	953.51	0.47	0.47	-1.19	-3.66
	NORMAL	7,299.00	1.50	30.40	7,141.77	-629.44	-713.22	951.25	0.14	0.06	4.65	64.04
	NORMAL	7,394.00	1.06	42.15	7,236.75	-627.72	-712.00	949.19	0.54	-0.46	12.37	154.97

2.1.2 Survey Stations (Continued)

Date	Type	MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Build (°/100ft)	Turn (°/100ft)	TFace (°)
4/14/2009	NORMAL	7,489.00	1.13	42.65	7,331.73	-626.38	-710.78	947.38	0.07	0.07	0.53	8.02
4/15/2009	NORMAL	7,584.00	1.06	61.15	7,426.71	-625.26	-709.37	945.60	0.38	-0.07	19.47	110.35
	NORMAL	7,679.00	1.00	80.53	7,521.70	-624.70	-707.79	944.04	0.37	-0.06	20.40	109.37
	NORMAL	7,773.00	0.88	97.90	7,615.69	-624.67	-706.26	942.87	0.33	-0.13	18.48	121.36
	NORMAL	7,867.00	1.13	124.90	7,709.67	-625.30	-704.79	942.19	0.56	0.27	28.72	76.11
	NORMAL	7,962.00	1.44	132.78	7,804.65	-626.64	-703.14	941.85	0.37	0.33	8.29	33.66
	NORMAL	8,056.00	0.69	121.03	7,898.63	-627.74	-701.79	941.57	0.83	-0.80	-12.50	-169.58
	NORMAL	8,151.00	0.69	116.15	7,993.63	-628.28	-700.79	941.18	0.06	0.00	-5.14	-92.44
4/16/2009	NORMAL	8,246.00	1.06	136.78	8,088.61	-629.18	-699.67	940.94	0.51	0.39	21.72	51.04
	NORMAL	8,341.00	1.00	141.78	8,183.60	-630.47	-698.56	940.97	0.11	-0.06	5.26	126.21
	NORMAL	8,435.00	1.25	136.78	8,277.58	-631.86	-697.35	940.99	0.29	0.27	-5.32	-23.95
	NORMAL	8,529.00	0.38	69.65	8,371.57	-632.50	-696.35	940.67	1.23	-0.93	-71.41	-162.38
	NORMAL	8,624.00	0.75	20.65	8,466.57	-631.81	-695.84	939.83	0.61	0.39	-51.58	-78.80
	NORMAL	8,718.00	0.50	46.65	8,560.56	-630.95	-695.32	938.87	0.40	-0.27	27.66	143.90
	NORMAL	8,813.00	0.81	17.78	8,655.56	-630.03	-694.82	937.88	0.47	0.33	-30.39	-61.84
	NORMAL	8,908.00	0.94	25.65	8,750.54	-628.68	-694.28	936.58	0.19	0.14	8.28	46.73
	NORMAL	9,003.00	0.81	59.65	8,845.53	-627.64	-693.36	935.20	0.55	-0.14	35.79	120.66
4/17/2009	NORMAL	9,098.00	0.88	34.03	8,940.52	-626.70	-692.37	933.84	0.40	0.07	-26.97	-92.48
	NORMAL	9,192.00	0.75	311.28	9,034.52	-625.69	-692.43	933.22	1.15	-0.14	-88.03	-136.55
	NORMAL	9,286.00	0.88	299.90	9,128.51	-624.93	-693.52	933.52	0.22	0.14	-12.11	-57.01
4/18/2009	NORMAL	9,381.00	0.51	304.62	9,223.50	-624.32	-694.50	933.85	0.39	-0.39	4.97	173.56
	NORMAL	9,476.00	0.32	342.66	9,318.50	-623.83	-694.92	933.84	0.34	-0.20	40.04	142.61
	NORMAL	9,571.00	0.13	350.65	9,413.50	-623.47	-695.02	933.68	0.20	-0.20	8.41	174.60
	NORMAL	9,666.00	0.19	66.65	9,508.50	-623.30	-694.89	933.47	0.21	0.06	80.00	114.50
	NORMAL	9,760.00	0.31	110.65	9,602.50	-623.33	-694.51	933.20	0.23	0.13	46.81	81.29
4/19/2009	NORMAL	9,855.00	0.63	120.02	9,697.49	-623.68	-693.82	932.92	0.35	0.34	9.86	18.22
	NORMAL	9,883.00	0.63	127.90	9,725.49	-623.85	-693.57	932.84	0.31	0.00	28.14	93.94