



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 922-18P3S  
T9S R22E  
Section 18: SESE  
NWSE 1424' FSL, 2605' FEL (surface)  
SESE 203' FSL, 668' FEL (bottom hole)  
Uintah County, Utah

Dear Mrs. Mason:

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

- Kerr-McGee's NBU 922-18P3S 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

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

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

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. <b>UTU-0461</b>
b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name <b>TRIBAL SURFACE</b>
2. Name of Operator <b>KERR MCGEE OIL AND GAS ONSHORE LP</b>		7. If Unit or CA Agreement, Name and No. <b>UNIT #891008900A</b>
3A. Address <b>1368 SOUTH 1200 EAST VERNAL, UT 84078</b>	3b. Phone No. (include area code) <b>(435) 781-7024</b>	8. Lease Name and Well No. <b>NBU 922-18P3S</b>
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface <b>NW/SE 1424'FSL, 2605'FEL</b> At proposed prod. Zone <b>SE/SE 203'FSL, 668'FEL</b>		9. API Well No. <b>43-047-39829</b>
14. Distance in miles and direction from nearest town or post office* <b>16.6 +/- MILES FROM OURAY, UTAH</b>		10. Field and Pool, or Exploratory <b>NATURAL BUTTES</b>
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) <b>1442'</b>	16. No. of Acres in lease <b>601.96</b>	11. Sec., T., R., M., or Blk. and Survey or Area <b>SEC. 18, T9S, R22E</b>
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. <b>REFER TO TOPO C</b>	19. Proposed Depth <b>10,107'</b>	12. County or Parish <b>UINTAH</b>
21. Elevations (Show whether DF, KDB, RT, GL, etc.) <b>4861'GL</b>	22. Approximate date work will start* <b>UPON APPROVAL</b>	13. State <b>UTAH</b>
17. Spacing Unit dedicated to this well <b>40.00</b>		
20. BLM/BIA Bond No. on file <b>RLB0005239</b>		
23. Estimated duration <b>TO BE DETERMINED</b>		

24. Attachments

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

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

25. Signature 	Name (Printed/Typed) <b>SHEILA UPCHEGO</b>	Date <b>11/16/2007</b>
Title <b>SENIOR LAND ADMIN SPECIALIST</b>		
Approved by (Signature) 	Name (Printed/Typed) <b>BRADLEY G. HILL</b>	Date <b>11-20-07</b>
Title <b>ENVIRONMENTAL MANAGER</b>		

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

Conditions of approval, if any, are attached.

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

\*(Instructions on reverse)

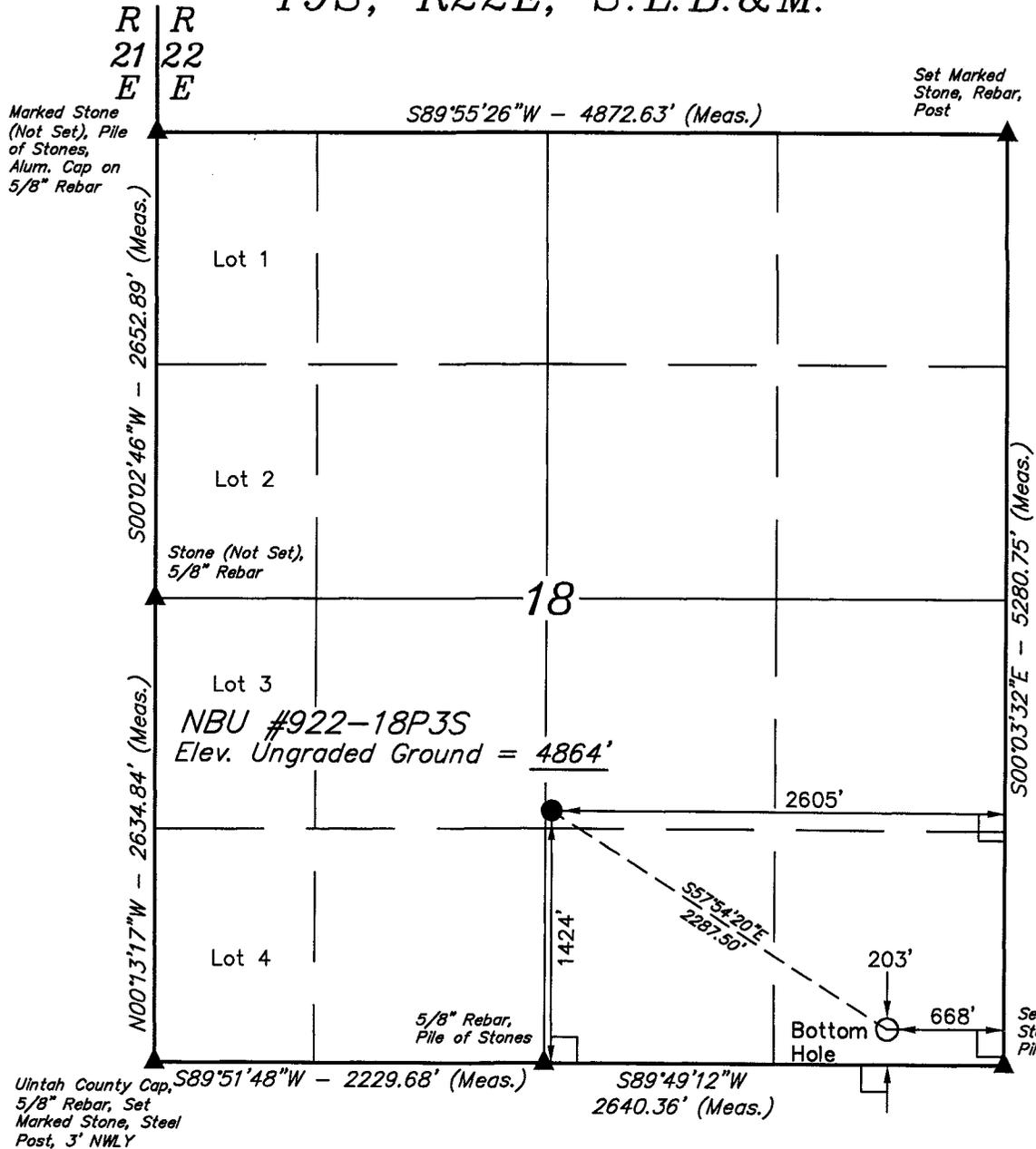
Surf  
629529X  
4432276Y  
40.032600  
-109. 481894

BML  
630129X  
4431916Y  
40.029325  
-109. 474945

Federal Approval of this  
Action is Necessary

RECEIVED  
NOV 20 2007  
DIV. OF OIL, GAS & MINING

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



Kerr-McGee Oil & Gas Onshore LP

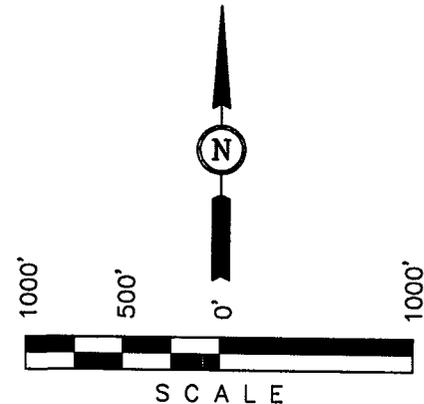
Well location, NBU #922-18P3S, located as shown in the NW 1/4 SE 1/4 of Section 18, T9S, R22E, S.L.B.&M., Uintah County, Utah.

BASIS OF ELEVATION

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

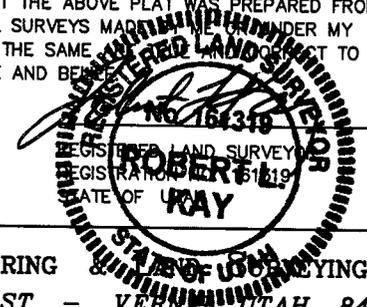
BASIS OF BEARINGS

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



CERTIFICATE

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



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

LEGEND:

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

(NAD 83)  
LATITUDE = 40°01'57.56" (40.032656)  
LONGITUDE = 109°28'57.40" (109.482611)  
(NAD 27)  
LATITUDE = 40°01'57.69" (40.032692)  
LONGITUDE = 109°28'54.93" (109.481925)

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 922-18P3S  
NW/SE Sec. 18, T9S, R22E  
UINTAH COUNTY, UTAH  
UTU-0461**

**ONSHORE ORDER NO. 1**

***DRILLING PROGRAM***

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

<u>Formation</u>	<u>Depth</u>
Uinta	0- Surface
Green River	1689'
Top of Birds Nest Water	1954'
Mahogany	2297'
Wasatch	4885'
Mesaverde	7527'
MVU2	8533'
MVL1	9019'
TVD	9610'
TD (MD)	10,107'

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

<u>Substance</u>	<u>Formation</u>	<u>Depth</u>
	Green River	1689'
	Top of Birds Nest Water	1954'
	Mahogany	2297'
Gas	Wasatch	4885'
Gas	Mesaverde	7572'
Gas	MVU2	8533'
Gas	MVL1	9610'
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 10,107' TD, approximately equals 6266 psi (calculated at 0.62 psi/foot).

Maximum anticipated surface pressure equals approximately 4042 psi (bottomhole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

8. **Anticipated Starting Dates:**

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

9. **Variances:**

*Please see Natural Buttes Unit SOP.*

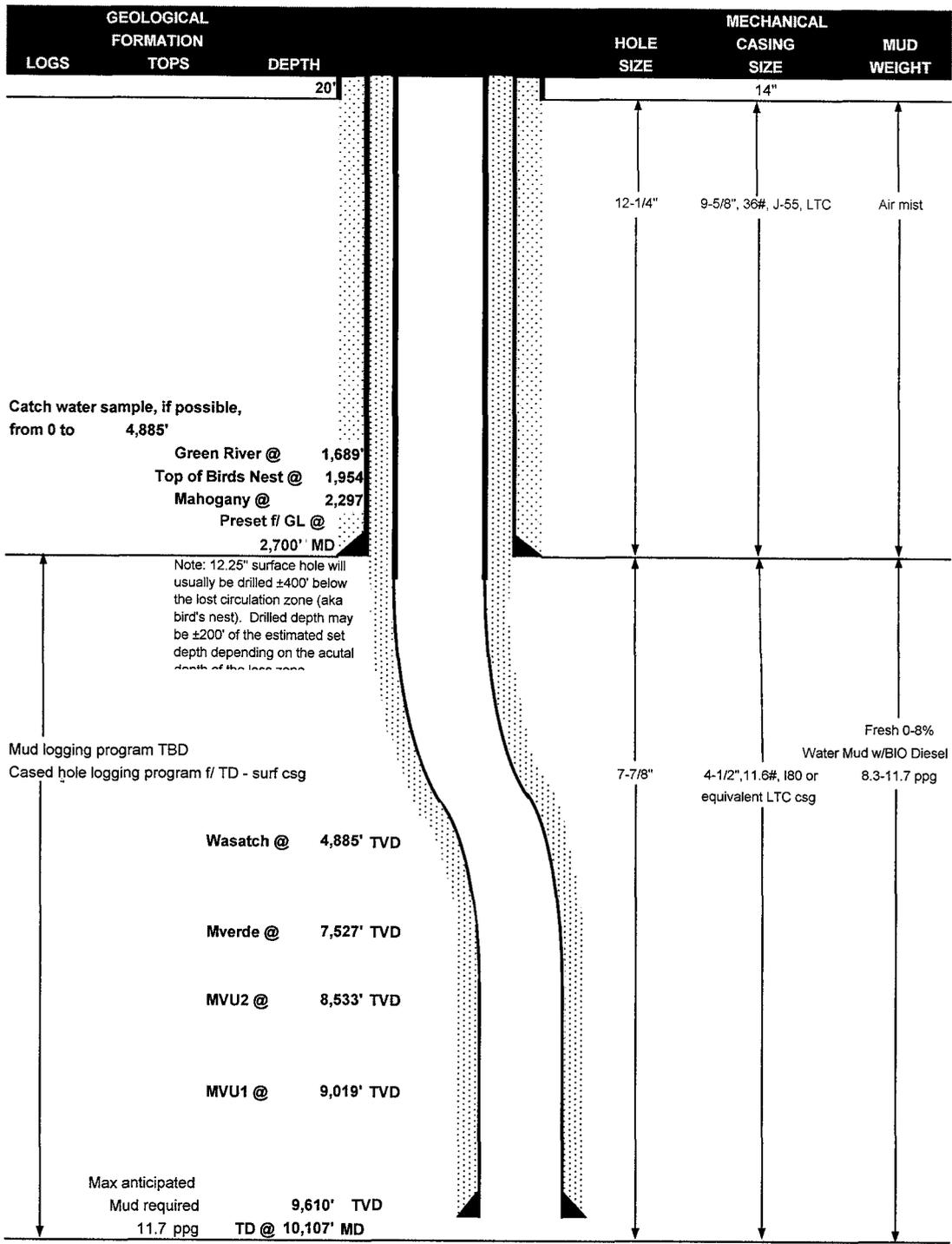
10. **Other Information:**

*Please see Natural Buttes Unit SOP.*



# KERR-McGEE OIL & GAS ONSHORE LP DRILLING PROGRAM

COMPANY NAME KERR-McGEE OIL & GAS ONSHORE LP DATE November 16, 2007  
 WELL NAME NBU 922-18P3S TD 10,107' MD 9,610' TVD  
 FIELD Natural Buttes COUNTY Uintah STATE Utah ELEVATION 4,861' GL KB 4,876'  
 SURFACE LOCATION NW/SE SEC. 18, T9S, R22E 1424'FSL, 2605'FEL  
 Latitude: 40.032656 Longitude: 109.482611  
 BTM HOLE LOCATION SE/SE SEC. 18, T9S, R22E 203'FSL, 668'FEL  
 OBJECTIVE ZONE(S) Wasatch/Mesaverde  
 ADDITIONAL INFO Regulatory Agencies: TRIBAL SURFACE, BLM MINERALS, UDOGM, Tri-County Health Dept.





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

**CASING PROGRAM**

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS		
						BURST	COLLAPSE	TENSION
CONDUCTOR	14"	0-40'				3520	2020	453000
SURFACE	9-5/8"	0 to 2700	36.00	J-55	LTC	0.90	1.60	5.93
PRODUCTION	4-1/2"	0 to 10107	11.60	I-80	LTC	1.98	1.03	201000

- 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 3926 psi

**CEMENT PROGRAM**

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE Option 1	LEAD	500	Premium cmt + 2% CaCl + .25 pps flocele	215	60%	15.60	1.18
	TOP OUT CMT (1)	200	20 gals sodium silicate + Premium cmt + 2% CaCl + .25 pps flocele	50		15.60	1.18
	TOP OUT CMT (2)	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
SURFACE Option 2	LEAD	1500	NOTE: If well will circulate water to surface, option 2 will be utilized 65/35 Poz + 6% Gel + 10 pps gilsonite + .25 pps flocele + 3% salt BWOW	360	35%	12.60	1.81
	TAIL	500	Premium cmt + 2% CaCl + 25 pps flocele	180	35%	15.60	1.18
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
PRODUCTION	LEAD	7,027'	Premium Lite II + 3% KCl + 0.25 pps celloflake + 5 pps gilsonite + 10% gel + 0.5% extender	760	60%	11.00	3.38
	TAIL	3,080'	50/50 Poz/G + 10% salt + 2% gel + .1% R-3	860	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.

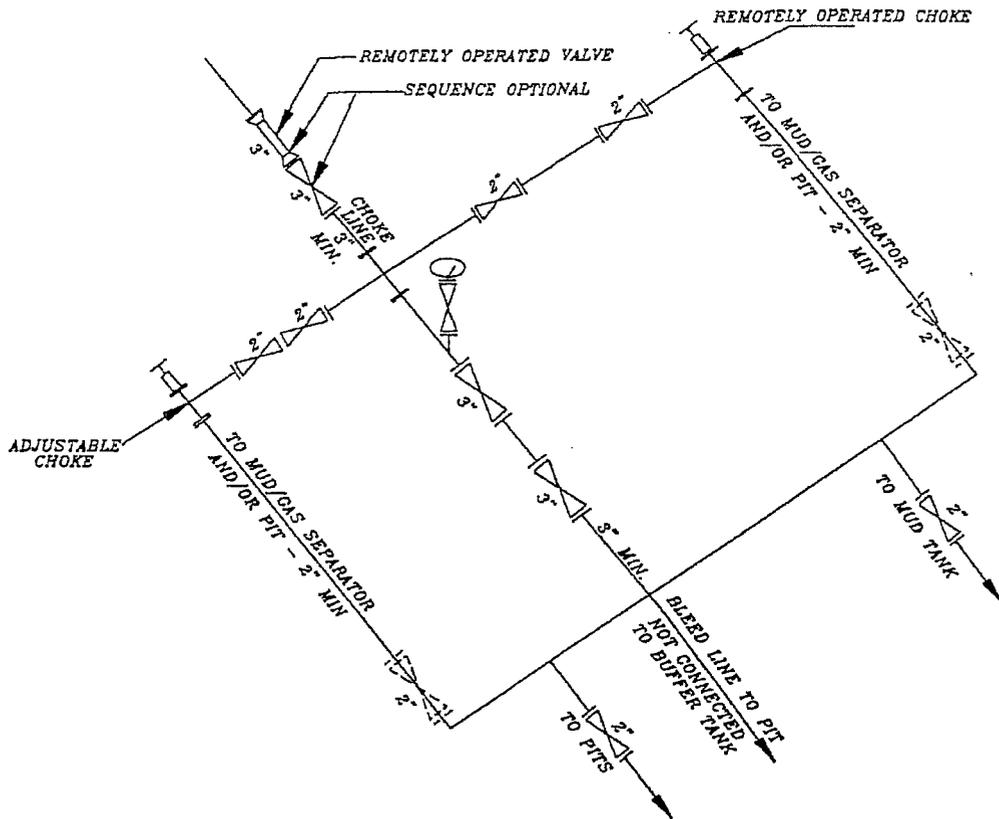
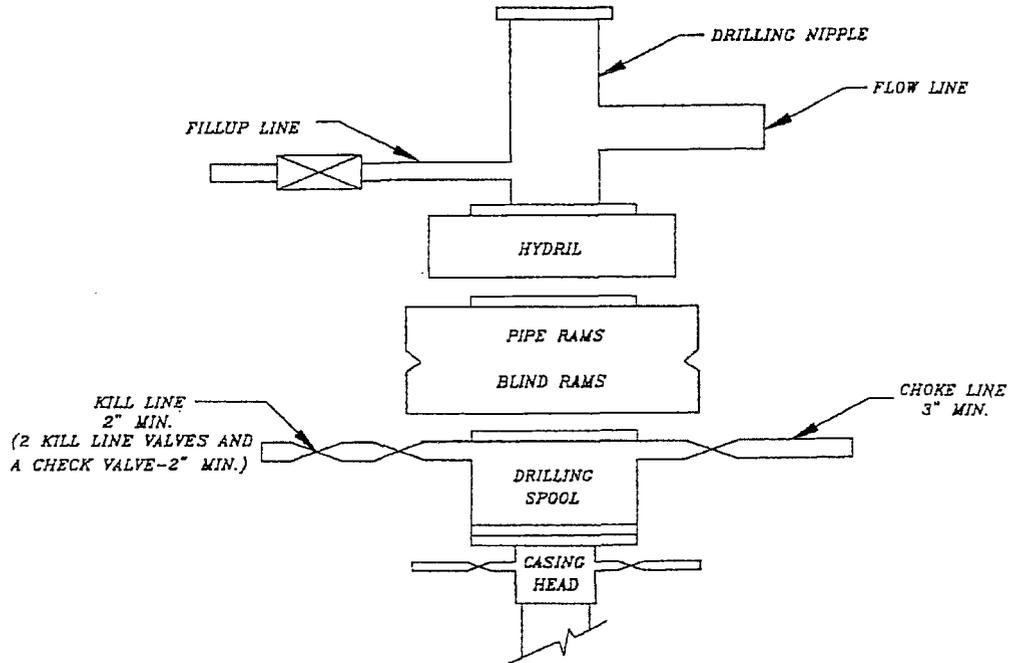
DRILLING ENGINEER: \_\_\_\_\_  
 Brad Laney

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

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

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

# 5M BOP STACK and CHOKE MANIFOLD SYSTEM





**Weatherford™**

## **Drilling Services**

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## **Proposal**

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### **ANADARKO - KERR MCGEE**

NBU 922-18P3S

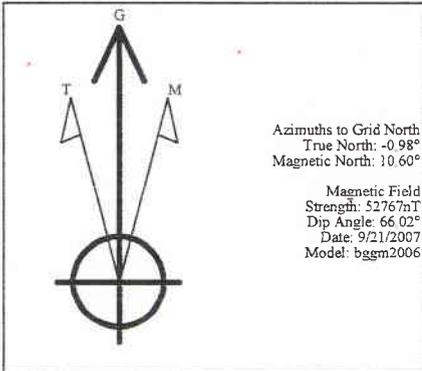
UINTAH COUNTY, UTAH

WELL FILE: PLAN 1

DATE: SEPTEMBER 24, 2007

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



SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N-S	+E-W	DLeg	TFace	VSec	Target
1	0.00	0.00	121.22	0.00	0.00	0.00	0.00	0.00	0.00	
2	300.00	0.00	121.22	300.00	0.00	0.00	0.00	121.22	0.00	
3	1500.00	10.00	121.22	1294.93	-45.11	74.44	1.00	121.22	87.05	
4	2726.74	10.00	121.22	2700.00	-173.51	286.32	0.00	0.00	334.80	
5	2786.74	10.00	121.22	2759.09	-178.91	295.23	0.00	0.00	345.22	
6	3453.41	30.00	121.22	3382.37	-296.49	489.25	3.00	0.00	572.07	
7	6129.24	30.00	121.22	5699.71	-989.88	1633.46	0.00	0.00	1909.99	
8	7629.24	0.00	121.22	7132.11	-1188.80	1961.70	2.00	180.00	2293.80	
9	10107.14	0.00	121.22	9610.00	-1188.80	1961.70	0.00	0.00	2293.80	PBHL

WELL DETAILS							
Name	+N-S	+E-W	Northing	Easting	Latitude	Longitude	Slot
18P3S	0.00	0.00	14541553.30	2065379.10	40°01'57.522N	109°28'54.843W	N/A

CASING DETAILS				
No.	TVD	MD	Name	Size
1	2700.00	2726.74	9 5/8"	9.62

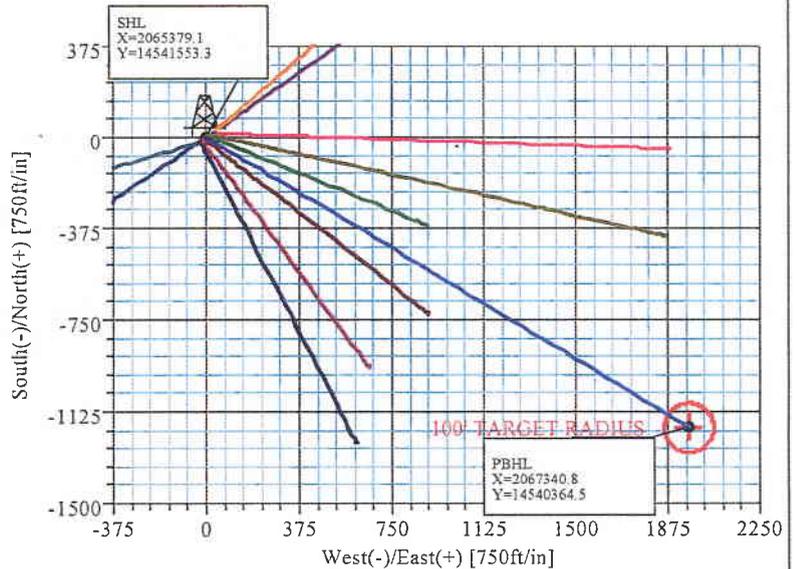
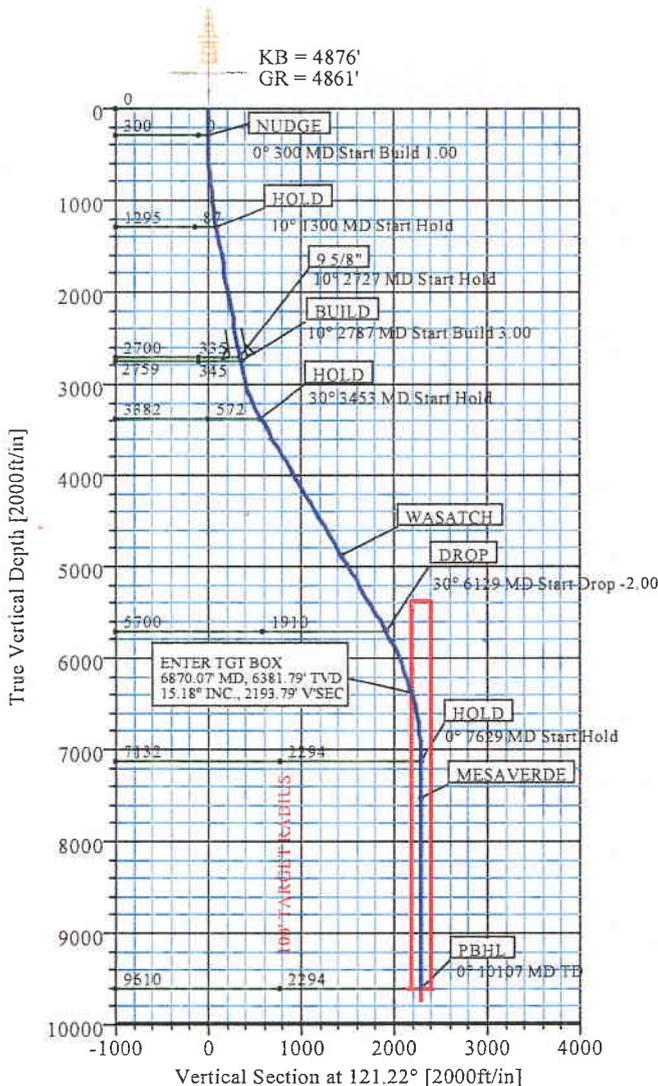
FORMATION TOP DETAILS			
No.	TVDPath	MDPath	Formation
1	4885.00	5188.49	WASATCH
2	7527.00	8024.14	MESAVERDE

**FIELD DETAILS**  
UINTAH COUNTY, UTAH (UTM Zone 12N-NAD 27)

Geodetic System: Universal Transverse Mercator (USfeet)  
Ellipsoid: NAD27 (Clarke 1866)  
Zone: UTM Zone 12, North 114W to 108W  
Magnetic Model: bggm2006

System Datum: Mean Sea Level  
Local North: Grid North

LEGEND	
<span style="color: red;">■</span>	18I3S (1)
<span style="color: orange;">■</span>	18J1S (1)
<span style="color: blue;">■</span>	18J5S (1)
<span style="color: darkblue;">■</span>	18N2AS (1)
<span style="color: green;">■</span>	18N2S (1)
<span style="color: darkgreen;">■</span>	18O1BS (1)
<span style="color: brown;">■</span>	18O1CS (1)
<span style="color: purple;">■</span>	18O3AS (1)
<span style="color: black;">■</span>	18O3DS (1)
<span style="color: grey;">■</span>	18P2S (1)
<span style="color: blue;">■</span>	Plan #1 18P3S



# Weatherford Drilling Services

## DIRECTIONAL PLAN REPORT



Weatherford

<b>Company:</b> Anadarko-Kerr-McGee	<b>Date:</b> 9/27/2007	<b>Time:</b> 16:14:43	<b>Page:</b> 1
<b>Field:</b> UINTAH COUNTY, UTAH (UTM Zone 12N-NAD 27)	<b>Co-ordinate(NE) Reference:</b>	Site: NBU 922-18P3S PAD IJNOP, Grid Nort	
<b>Site:</b> NBU 922-18P3S PAD IJNOP	<b>Vertical (TVD) Reference:</b>	SITE 4876.0	
<b>Well:</b> 18P3S	<b>Section (VS) Reference:</b>	Well (0.00N,0.00E,121.22Azi)	
<b>Wellpath:</b> 1	<b>Survey Calculation Method:</b>	Minimum Curvature	<b>Db:</b> Sybase

<b>Plan:</b> Plan #1 18P3S	<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 922-18P3S PAD IJNOP

1424 FSL, 2605 FEL - SEC18 T9S R22E

<b>Site Position:</b>	<b>Northing:</b> 14541553.30 ft	<b>Latitude:</b> 40 1 57.522 N	
<b>From:</b> Map	<b>Easting:</b> 2065379.10 ft	<b>Longitude:</b> 109 28 54.843 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> 18P3S	<b>Slot Name:</b>
<b>Well Position:</b>	
+N/-S 0.00 ft	<b>Northing:</b> 14541553.30 ft
+E/-W 0.00 ft	<b>Latitude:</b> 40 1 57.522 N
<b>Position Uncertainty:</b> 0.00 ft	<b>Longitude:</b> 109 28 54.843 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	<b>+N/-S</b>
	<b>+E/-W</b>
	<b>Direction</b>
	<b>deg</b>
0.00	0.00
0.00	0.00
0.00	121.22

**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	121.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	121.22	300.00	0.00	0.00	0.00	0.00	0.00	121.22	
1300.00	10.00	121.22	1294.93	-45.11	74.44	1.00	1.00	0.00	121.22	
2726.74	10.00	121.22	2700.00	-173.51	286.32	0.00	0.00	0.00	0.00	
2786.74	10.00	121.22	2759.09	-178.91	295.23	0.00	0.00	0.00	0.00	
3453.41	30.00	121.22	3382.37	-296.49	489.25	3.00	3.00	0.00	0.00	
6129.24	30.00	121.22	5699.71	-989.88	1633.46	0.00	0.00	0.00	0.00	
7629.24	0.00	121.22	7132.11	-1188.80	1961.70	2.00	-2.00	0.00	180.00	
10107.14	0.00	121.22	9610.00	-1188.80	1961.70	0.00	0.00	0.00	0.00	PBHL

**Survey**

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	MapN ft	MapE ft	Comment
300.00	0.00	121.22	300.00	0.00	0.00	0.00	0.00	14541553.30	2065379.10	NUDGE
400.00	1.00	121.22	399.99	-0.45	0.75	0.87	1.00	14541552.85	2065379.85	
500.00	2.00	121.22	499.96	-1.81	2.98	3.49	1.00	14541551.49	2065382.08	
600.00	3.00	121.22	599.86	-4.07	6.72	7.85	1.00	14541549.23	2065385.82	
700.00	4.00	121.22	699.68	-7.23	11.94	13.96	1.00	14541546.07	2065391.04	
800.00	5.00	121.22	799.37	-11.30	18.65	21.80	1.00	14541542.00	2065397.75	
900.00	6.00	121.22	898.90	-16.27	26.84	31.39	1.00	14541537.03	2065405.94	
1000.00	7.00	121.22	998.26	-22.13	36.52	42.71	1.00	14541531.17	2065415.62	
1100.00	8.00	121.22	1097.40	-28.90	47.69	55.76	1.00	14541524.40	2065426.79	
1200.00	9.00	121.22	1196.30	-36.56	60.33	70.54	1.00	14541516.74	2065439.43	
1300.00	10.00	121.22	1294.93	-45.11	74.44	87.05	1.00	14541508.19	2065453.54	HOLD
1400.00	10.00	121.22	1393.41	-54.11	89.29	104.41	0.00	14541499.19	2065468.39	
1500.00	10.00	121.22	1491.89	-63.11	104.14	121.77	0.00	14541490.19	2065483.24	

# Weatherford Drilling Services

## DIRECTIONAL PLAN REPORT



<b>Company:</b> Anadarko-Kerr-McGee	<b>Date:</b> 9/27/2007	<b>Time:</b> 16:14:43	<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 922-18P3S PAD IJNOP, Grid Nort	
<b>Site:</b> NBU 922-18P3S PAD IJNOP	<b>Vertical (TVD) Reference:</b>	<b>SITE</b> 4876.0	
<b>Well:</b> 18P3S	<b>Section (VS) Reference:</b>	<b>Well</b> (0.00N,0.00E,121.22Azi)	
<b>Wellpath:</b> 1	<b>Survey Calculation Method:</b>	<b>Minimum Curvature</b>	<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
1600.00	10.00	121.22	1590.37	-72.11	118.99	139.14	0.00	14541481.19	2065498.09	
1700.00	10.00	121.22	1688.85	-81.11	133.85	156.50	0.00	14541472.19	2065512.95	
1800.00	10.00	121.22	1787.33	-90.11	148.70	173.87	0.00	14541463.19	2065527.80	
1900.00	10.00	121.22	1885.82	-99.11	163.55	191.23	0.00	14541454.19	2065542.65	
2000.00	10.00	121.22	1984.30	-108.11	178.40	208.60	0.00	14541445.19	2065557.50	
2100.00	10.00	121.22	2082.78	-117.11	193.25	225.96	0.00	14541436.19	2065572.35	
2200.00	10.00	121.22	2181.26	-126.11	208.10	243.33	0.00	14541427.19	2065587.20	
2300.00	10.00	121.22	2279.74	-135.11	222.95	260.69	0.00	14541418.19	2065602.05	
2400.00	10.00	121.22	2378.22	-144.11	237.80	278.06	0.00	14541409.19	2065616.90	
2500.00	10.00	121.22	2476.70	-153.11	252.65	295.42	0.00	14541400.19	2065631.75	
2600.00	10.00	121.22	2575.18	-162.11	267.50	312.79	0.00	14541391.19	2065646.60	
2700.00	10.00	121.22	2673.66	-171.11	282.35	330.15	0.00	14541382.19	2065661.45	
2726.74	10.00	121.22	2700.00	-173.51	286.32	334.80	0.00	14541379.79	2065665.42	9 5/8"
2786.74	10.00	121.22	2759.09	-178.91	295.23	345.22	0.00	14541374.39	2065674.33	BUILD
2800.00	10.40	121.22	2772.13	-180.13	297.24	347.56	3.00	14541373.17	2065676.34	
2900.00	13.40	121.22	2869.97	-190.81	314.87	368.18	3.00	14541362.49	2065693.97	
3000.00	16.40	121.22	2966.60	-204.14	336.86	393.88	3.00	14541349.16	2065715.96	
3100.00	19.40	121.22	3061.75	-220.06	363.14	424.61	3.00	14541333.24	2065742.24	
3200.00	22.40	121.22	3155.16	-238.55	393.64	460.28	3.00	14541314.75	2065772.74	
3300.00	25.40	121.22	3246.58	-259.54	428.28	500.78	3.00	14541293.76	2065807.38	
3400.00	28.40	121.22	3335.75	-282.98	466.96	546.02	3.00	14541270.32	2065846.06	
3453.41	30.00	121.22	3382.37	-296.49	489.25	572.07	3.00	14541256.81	2065868.35	HOLD
3500.00	30.00	121.22	3422.72	-308.56	509.17	595.37	0.00	14541244.74	2065888.27	
3600.00	30.00	121.22	3509.32	-334.47	551.93	645.37	0.00	14541218.83	2065931.03	
3700.00	30.00	121.22	3595.93	-360.39	594.69	695.37	0.00	14541192.91	2065973.79	
3800.00	30.00	121.22	3682.53	-386.30	637.45	745.37	0.00	14541167.00	2066016.55	
3900.00	30.00	121.22	3769.13	-412.21	680.21	795.37	0.00	14541141.09	2066059.31	
4000.00	30.00	121.22	3855.73	-438.13	722.97	845.37	0.00	14541115.17	2066102.07	
4100.00	30.00	121.22	3942.34	-464.04	765.74	895.37	0.00	14541089.26	2066144.84	
4200.00	30.00	121.22	4028.94	-489.95	808.50	945.37	0.00	14541063.35	2066187.60	
4300.00	30.00	121.22	4115.54	-515.87	851.26	995.37	0.00	14541037.43	2066230.36	
4400.00	30.00	121.22	4202.14	-541.78	894.02	1045.37	0.00	14541011.52	2066273.12	
4500.00	30.00	121.22	4288.75	-567.69	936.78	1095.37	0.00	14540985.61	2066315.88	
4600.00	30.00	121.22	4375.35	-593.61	979.54	1145.37	0.00	14540959.69	2066358.64	
4700.00	30.00	121.22	4461.95	-619.52	1022.30	1195.37	0.00	14540933.78	2066401.40	
4800.00	30.00	121.22	4548.55	-645.43	1065.06	1245.37	0.00	14540907.87	2066444.16	
4900.00	30.00	121.22	4635.16	-671.35	1107.82	1295.37	0.00	14540881.95	2066486.92	
5000.00	30.00	121.22	4721.76	-697.26	1150.58	1345.37	0.00	14540856.04	2066529.68	
5100.00	30.00	121.22	4808.36	-723.17	1193.34	1395.37	0.00	14540830.13	2066572.44	
5188.49	30.00	121.22	4885.00	-746.10	1231.19	1439.61	0.00	14540807.20	2066610.29	WASATCH
5200.00	30.00	121.22	4894.96	-749.09	1236.11	1445.37	0.00	14540804.21	2066615.21	
5300.00	30.00	121.22	4981.57	-775.00	1278.87	1495.37	0.00	14540778.30	2066657.97	
5400.00	30.00	121.22	5068.17	-800.91	1321.63	1545.37	0.00	14540752.39	2066700.73	
5500.00	30.00	121.22	5154.77	-826.83	1364.39	1595.37	0.00	14540726.47	2066743.49	
5600.00	30.00	121.22	5241.37	-852.74	1407.15	1645.37	0.00	14540700.56	2066786.25	
5700.00	30.00	121.22	5327.98	-878.65	1449.91	1695.37	0.00	14540674.65	2066829.01	
5800.00	30.00	121.22	5414.58	-904.57	1492.67	1745.37	0.00	14540648.73	2066871.77	
5900.00	30.00	121.22	5501.18	-930.48	1535.43	1795.37	0.00	14540622.82	2066914.53	
6000.00	30.00	121.22	5587.79	-956.39	1578.19	1845.37	0.00	14540596.91	2066957.29	
6100.00	30.00	121.22	5674.39	-982.31	1620.95	1895.37	0.00	14540570.99	2067000.05	
6129.24	30.00	121.22	5699.71	-989.88	1633.46	1909.99	0.00	14540563.42	2067012.56	DROP
6200.00	28.58	121.22	5761.42	-1007.83	1663.06	1944.61	2.00	14540545.47	2067042.16	

# Weatherford Drilling Services

## DIRECTIONAL PLAN REPORT



<b>Company:</b> Anadarko-Kerr-McGee	<b>Date:</b> 9/27/2007	<b>Time:</b> 16:14:43	<b>Page:</b> 3
<b>Field:</b> UINTAH COUNTY, UTAH (UTM Zone 12N-NAD 27)	<b>Co-ordinate(NE) Reference:</b>	<b>Site:</b> NBU 922-18P3S PAD IJNOP, Grid Nort	
<b>Site:</b> NBU 922-18P3S PAD IJNOP	<b>Vertical (TVD) Reference:</b>	<b>SITE</b> 4876.0	
<b>Well:</b> 18P3S	<b>Section (VS) Reference:</b>	<b>Well</b> (0.00N,0.00E,121.22Azi)	
<b>Wellpath:</b> 1	<b>Survey Calculation Method:</b>	<b>Minimum Curvature</b>	<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
6300.00	26.58	121.22	5850.05	-1031.82	1702.66	1990.91	2.00	14540521.48	2067081.76	
6400.00	24.58	121.22	5940.24	-1054.20	1739.60	2034.09	2.00	14540499.10	2067118.70	
6500.00	22.58	121.22	6031.88	-1074.94	1773.81	2074.10	2.00	14540478.36	2067152.91	
6600.00	20.58	121.22	6124.86	-1094.00	1805.27	2110.89	2.00	14540459.30	2067184.37	
6700.00	18.58	121.22	6219.07	-1111.38	1833.94	2144.41	2.00	14540441.92	2067213.04	
6800.00	16.58	121.22	6314.40	-1127.03	1859.77	2174.62	2.00	14540426.27	2067238.87	
6870.07	15.18	121.22	6381.79	-1136.97	1876.17	2193.79	2.00	14540416.33	2067255.27	ENTER TGT BOX
6900.00	14.58	121.22	6410.71	-1140.96	1882.75	2201.48	2.00	14540412.34	2067261.85	
7000.00	12.58	121.22	6507.91	-1153.13	1902.84	2224.97	2.00	14540400.17	2067281.94	
7100.00	10.58	121.22	6605.87	-1163.54	1920.01	2245.05	2.00	14540389.76	2067299.11	
7200.00	8.58	121.22	6704.47	-1172.16	1934.25	2261.70	2.00	14540381.14	2067313.35	
7300.00	6.58	121.22	6803.59	-1179.01	1945.54	2274.90	2.00	14540374.29	2067324.64	
7400.00	4.58	121.22	6903.11	-1184.05	1953.86	2284.63	2.00	14540369.25	2067332.96	
7500.00	2.58	121.22	7002.91	-1187.29	1959.21	2290.88	2.00	14540366.01	2067338.31	
7600.00	0.58	121.22	7102.86	-1188.72	1961.57	2293.65	2.00	14540364.58	2067340.67	
7626.24	0.06	121.22	7129.10	-1188.80	1961.70	2293.80	2.00	14540364.50	2067340.80	HOLD
7629.24	0.00	121.22	7132.11	-1188.80	1961.70	2293.80	2.00	14540364.50	2067340.80	
7700.00	0.00	121.22	7202.86	-1188.80	1961.70	2293.80	0.00	14540364.50	2067340.80	
7800.00	0.00	121.22	7302.86	-1188.80	1961.70	2293.80	0.00	14540364.50	2067340.80	
7900.00	0.00	121.22	7402.86	-1188.80	1961.70	2293.80	0.00	14540364.50	2067340.80	
8000.00	0.00	121.22	7502.86	-1188.80	1961.70	2293.80	0.00	14540364.50	2067340.80	
8024.14	0.00	121.22	7527.00	-1188.80	1961.70	2293.80	0.00	14540364.50	2067340.80	MESAVERDE
8100.00	0.00	121.22	7602.86	-1188.80	1961.70	2293.80	0.00	14540364.50	2067340.80	
8200.00	0.00	121.22	7702.86	-1188.80	1961.70	2293.80	0.00	14540364.50	2067340.80	
8300.00	0.00	121.22	7802.86	-1188.80	1961.70	2293.80	0.00	14540364.50	2067340.80	
8400.00	0.00	121.22	7902.86	-1188.80	1961.70	2293.80	0.00	14540364.50	2067340.80	
8500.00	0.00	121.22	8002.86	-1188.80	1961.70	2293.80	0.00	14540364.50	2067340.80	
8600.00	0.00	121.22	8102.86	-1188.80	1961.70	2293.80	0.00	14540364.50	2067340.80	
8700.00	0.00	121.22	8202.86	-1188.80	1961.70	2293.80	0.00	14540364.50	2067340.80	
8800.00	0.00	121.22	8302.86	-1188.80	1961.70	2293.80	0.00	14540364.50	2067340.80	
8900.00	0.00	121.22	8402.86	-1188.80	1961.70	2293.80	0.00	14540364.50	2067340.80	
9000.00	0.00	121.22	8502.86	-1188.80	1961.70	2293.80	0.00	14540364.50	2067340.80	
9100.00	0.00	121.22	8602.86	-1188.80	1961.70	2293.80	0.00	14540364.50	2067340.80	
9200.00	0.00	121.22	8702.86	-1188.80	1961.70	2293.80	0.00	14540364.50	2067340.80	
9300.00	0.00	121.22	8802.86	-1188.80	1961.70	2293.80	0.00	14540364.50	2067340.80	
9400.00	0.00	121.22	8902.86	-1188.80	1961.70	2293.80	0.00	14540364.50	2067340.80	
9500.00	0.00	121.22	9002.86	-1188.80	1961.70	2293.80	0.00	14540364.50	2067340.80	
9600.00	0.00	121.22	9102.86	-1188.80	1961.70	2293.80	0.00	14540364.50	2067340.80	
9700.00	0.00	121.22	9202.86	-1188.80	1961.70	2293.80	0.00	14540364.50	2067340.80	
9800.00	0.00	121.22	9302.86	-1188.80	1961.70	2293.80	0.00	14540364.50	2067340.80	
9900.00	0.00	121.22	9402.86	-1188.80	1961.70	2293.80	0.00	14540364.50	2067340.80	
10000.00	0.00	121.22	9502.86	-1188.80	1961.70	2293.80	0.00	14540364.50	2067340.80	
10100.00	0.00	121.22	9602.86	-1188.80	1961.70	2293.80	0.00	14540364.50	2067340.80	
10107.14	0.00	121.22	9610.00	-1188.80	1961.70	2293.80	0.00	14540364.50	2067340.80	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	-Circle (Radius: 100) -Plan hit target	9610.00	-1188.80	1961.70	14540364.50	2067340.80	40	1	45.442	N	109	28	29.885	W

# Weatherford Drilling Services

## DIRECTIONAL PLAN REPORT



<b>Company:</b> Anadarko-Kerr-McGee	<b>Date:</b> 9/27/2007	<b>Time:</b> 16:14:43	<b>Page:</b> 4
<b>Field:</b> UINTAH COUNTY, UTAH (UTM Zone 12N-NAD 27)	<b>Co-ordinate(NE) Reference:</b>	<b>Site:</b> NBU 922-18P3S PAD IJNOP, Grid Nort	
<b>Site:</b> NBU 922-18P3S PAD IJNOP	<b>Vertical (TVD) Reference:</b>	SITE 4876.0	
<b>Well:</b> 18P3S	<b>Section (VS) Reference:</b>	Well (0.00N,0.00E,121.22Azi)	
<b>Wellpath:</b> 1	<b>Survey Calculation Method:</b>	Minimum Curvature	<b>Db:</b> Sybase

### Casing Points

MD ft	TVD ft	Diameter in	Hole Size in	Name
2726.74	2700.00	9.62	12.25	9 5/8"

### Annotation

MD ft	TVD ft	Description
300.00	300.00	NUDGE
1300.00	1294.93	HOLD
2786.74	2759.08	BUILD
3453.41	3382.37	HOLD
6129.24	5699.71	DROP
6870.07	6381.79	ENTER TGT BOX
7626.24	7129.10	HOLD
10107.14	0.00	PBHL

### Formations

MD ft	TVD ft	Formations	Lithology	Dip Angle deg	Dip Direction deg
5188.49	4885.00	WASATCH		0.00	0.00
8024.14	7527.00	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 922-18P3S  
 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 14541553.300 USFT	Latitude 40.0326450 DEG
East/West 2065379.100 USFT	Longitude -109.4819009 DEG
Grid Convergence: .97667117°	
Total Correction: +10.5911°	

Geodetic Location WGS84                      Elevation = 1482.0 Meters  
 Latitude =        40.03265° N        40° 1 min 57.522 sec  
 Longitude =      109.48190° W      109° 28 min 54.843 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: \_\_\_\_\_



# Weatherford Drilling Services

## Anticollision Report



**Company:** Anadarko-Kerr-McGee **Date:** 9/24/2007 **Time:** 09:51:08 **Page:** 1  
**Field:** UINTAH COUNTY, UTAH (UTM Zone 12N-NAD 27)  
**Reference Site:** NBU 922-18P3S PAD IJNOP **Co-ordinate(NE) Reference:** Site: NBU 922-18P3S PAD IJNOP, Grid Nort  
**Reference Well:** 18P3S **Vertical (TVD) Reference:** SITE 4876.0  
**Reference Wellpath:** 1 **Db:** Sybase

**NO GLOBAL SCAN: Using user defined selection & scan criteria**  
**Interpolation Method:** MD **Interval:** 100.00 ft  
**Depth Range:** 0.00 to 10107.97 ft  
**Maximum Radius:** 10000.00 ft  
**Reference:** Plan: Plan #1  
**Error Model:** ISCWSA Ellipse  
**Scan Method:** Closest Approach 3D  
**Error Surface:** Ellipse

**Plan:** Plan #1 **Date Composed:** 9/21/2007  
**Principal:** Yes **Version:** 1  
**Tied-to:** From Surface

**Summary**

Site	Offset Wellpath Well	Wellpath	Reference MD ft	Offset MD ft	Ctr-Ctr Distance ft	Edge Distance ft	Separation Factor	Warning
NBU 922-18O1CS PAD B01CS		1 V0 Plan: Plan #1 V1	500.00	499.96	11.64	9.79	6.28	

**Site:** NBU 922-18O1CS PAD IJNOP  
**Well:** 18O1CS  
**Wellpath:** 1 V0 Plan: Plan #1 V1

**Inter-Site Error:** 0.00 ft

Reference MD ft	TVD ft	Offset MD ft	TVD ft	Semi-Major Axis Ref ft	Offset ft	TFO-HS deg	Offset Location North ft	East ft	Ctr-Ctr Distance ft	Edge Distance ft	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	231.52	-6.20	-7.80	9.96			No Data
100.00	100.00	100.00	100.00	0.09	0.09	231.52	-6.20	-7.80	9.96	9.79	55.97	
200.00	200.00	200.00	200.00	0.30	0.30	231.52	-6.20	-7.80	9.96	9.37	16.69	
300.00	300.00	300.00	300.00	0.51	0.51	231.52	-6.20	-7.80	9.96	8.95	9.81	
400.00	399.99	399.99	399.99	0.72	0.72	114.86	-6.20	-7.80	10.30	8.86	7.18	
500.00	499.96	499.96	499.96	0.93	0.93	126.61	-6.20	-7.80	11.64	9.79	6.28	
600.00	599.86	599.86	599.86	1.15	1.14	140.40	-6.20	-7.80	14.67	12.39	6.44	
700.00	699.68	699.68	699.68	1.37	1.34	151.72	-6.20	-7.80	19.76	17.06	7.32	
800.00	799.37	799.37	799.37	1.61	1.55	159.63	-6.20	-7.80	26.93	23.81	8.62	
900.00	898.90	899.47	899.47	1.86	1.76	164.40	-6.74	-7.12	35.28	31.73	9.94	
1000.00	998.26	999.74	999.70	2.13	1.97	167.06	-8.36	-5.07	43.84	39.86	11.03	
1100.00	1097.40	1100.15	1100.01	2.42	2.19	168.62	-11.08	-1.64	52.51	48.10	11.92	
1200.00	1196.30	1200.71	1200.38	2.73	2.41	169.53	-14.90	3.18	61.25	56.41	12.65	
1300.00	1294.93	1301.42	1300.78	3.07	2.64	170.03	-19.81	9.39	70.04	64.76	13.26	
1400.00	1393.41	1402.35	1401.24	3.42	2.88	170.17	-25.84	17.00	78.02	72.29	13.61	
1500.00	1491.89	1503.53	1501.76	3.78	3.13	169.93	-32.98	26.02	84.31	78.12	13.62	
1600.00	1590.37	1604.88	1602.23	4.14	3.41	169.38	-41.24	36.45	88.93	82.27	13.36	
1700.00	1688.85	1706.35	1702.57	4.51	3.70	168.53	-50.61	48.28	91.87	84.74	12.88	
1800.00	1787.33	1807.75	1802.57	4.88	4.02	167.37	-61.08	61.49	93.16	85.54	12.23	
1900.00	1885.82	1907.73	1901.02	5.26	4.35	166.10	-71.86	75.10	93.79	85.67	11.55	
2000.00	1984.30	2007.71	1999.48	5.63	4.68	164.84	-82.64	88.71	94.46	85.82	10.93	
2100.00	2082.78	2107.68	2097.94	6.01	5.03	163.61	-93.41	102.32	95.18	86.01	10.38	
2200.00	2181.26	2207.66	2196.40	6.39	5.38	162.39	-104.19	115.93	95.94	86.24	9.88	
2300.00	2279.74	2307.64	2294.85	6.77	5.73	161.19	-114.97	129.54	96.74	86.49	9.43	
2400.00	2378.22	2407.61	2393.31	7.15	6.09	160.01	-125.75	143.15	97.59	86.77	9.02	
2500.00	2476.70	2507.59	2491.77	7.53	6.46	158.86	-136.53	156.76	98.48	87.08	8.64	
2600.00	2575.18	2607.57	2590.23	7.91	6.82	157.72	-147.31	170.37	99.40	87.42	8.30	
2700.00	2673.66	2707.54	2688.69	8.29	7.19	156.60	-158.09	183.98	100.36	87.79	7.98	
2800.00	2772.07	2807.52	2787.14	8.68	7.56	155.60	-168.86	197.59	101.75	88.57	7.72	
2900.00	2869.61	2910.92	2888.64	9.13	7.96	155.07	-181.10	213.03	105.60	91.83	7.67	
3000.00	2965.87	3014.94	2989.76	9.66	8.44	154.47	-196.24	232.15	110.38	95.98	7.67	
3100.00	3060.58	3119.10	3089.79	10.26	8.97	153.81	-214.24	254.87	116.07	100.97	7.69	
3200.00	3153.48	3223.42	3188.55	10.95	9.58	153.12	-235.07	281.18	122.65	106.78	7.73	
3300.00	3244.32	3327.91	3285.85	11.73	10.26	152.42	-258.72	311.04	130.11	113.38	7.78	
3400.00	3332.85	3429.02	3378.67	12.60	10.98	151.97	-283.62	342.48	139.33	121.70	7.90	
3500.00	3419.54	3528.25	3469.66	13.54	11.71	152.29	-308.18	373.49	151.74	133.17	8.17	

<b>Company:</b>	Anadarko-Kerr-McGee	<b>Date:</b>	9/24/2007	<b>Time:</b>	09:51:08	<b>Page:</b>	2
<b>Field:</b>	UINTAH COUNTY, UTAH (UTM Zone 12N-NAD 27)						
<b>Reference Site:</b>	NBU 922-18P3S PAD IJNOP	<b>Co-ordinate(NE) Reference:</b>	Site: NBU 922-18P3S PAD IJNOP, Grid Nort				
<b>Reference Well:</b>	18P3S	<b>Vertical (TVD) Reference:</b>	SITE 4876.0				
<b>Reference Wellpath:</b>	1						<b>Db:</b> Sybase

Site: NBU 922-18O1CS PAD IJNOP  
 Well: 18O1CS  
 Wellpath: 1 V0 Plan: Plan #1 V1

Inter-Site Error: 0.00 ft

Reference MD ft	TVD ft	Offset		Semi-Major Axis			Offset Location		Ctr-Ctr Distance ft	Edge Distance ft	Separation Factor	Warning
		MD ft	TVD ft	Ref ft	Offset ft	TFO-HS deg	North ft	East ft				
3600.00	3506.15	3627.45	3560.63	14.50	12.44	152.64	-332.74	404.50	164.32	144.79	8.41	
3700.00	3592.75	3726.65	3651.61	15.46	13.18	152.93	-357.30	435.51	176.90	156.39	8.63	
3800.00	3679.35	3825.85	3742.58	16.43	13.93	153.19	-381.86	466.52	189.48	168.00	8.82	
3900.00	3765.95	3925.05	3833.55	17.41	14.68	153.41	-406.42	497.53	202.07	179.60	8.99	
4000.00	3852.56	4024.26	3924.53	18.40	15.44	153.61	-430.98	528.54	214.66	191.19	9.15	
4100.00	3939.16	4123.46	4015.50	19.39	16.20	153.78	-455.54	559.55	227.25	202.79	9.29	
4200.00	4025.76	4222.66	4106.47	20.39	16.96	153.94	-480.10	590.56	239.85	214.37	9.42	
4300.00	4112.37	4321.86	4197.45	21.39	17.73	154.08	-504.66	621.57	252.44	225.96	9.53	
4400.00	4198.97	4420.36	4287.79	22.39	18.47	154.21	-529.04	652.35	265.06	237.58	9.65	
4500.00	4285.57	4513.75	4373.99	23.39	19.00	154.48	-551.34	680.51	278.95	250.69	9.87	
4600.00	4372.17	4606.51	4460.45	24.40	19.37	154.96	-572.19	706.83	294.90	266.09	10.24	
4700.00	4458.78	4698.54	4547.02	25.41	19.72	155.60	-591.58	731.31	312.91	283.61	10.68	
4800.00	4545.38	4789.74	4633.52	26.42	20.05	156.36	-609.51	753.96	333.00	303.32	11.22	
4900.00	4631.98	4880.02	4719.81	27.43	20.35	157.21	-626.00	774.77	355.18	325.18	11.84	
5000.00	4718.58	4969.30	4805.73	28.45	20.63	158.11	-641.05	793.78	379.44	349.19	12.54	
5100.00	4805.19	5057.50	4891.15	29.46	20.88	159.04	-654.69	811.00	405.79	375.33	13.32	
5200.00	4891.79	5144.54	4975.92	30.48	21.11	159.98	-666.95	826.48	434.22	403.59	14.17	
5300.00	4978.39	5230.36	5059.92	31.50	21.30	160.91	-677.86	840.26	464.72	433.94	15.10	
5400.00	5064.99	5314.90	5143.03	32.52	21.47	161.82	-687.46	852.38	497.26	466.36	16.10	
5500.00	5151.60	5398.11	5225.15	33.54	21.62	162.70	-695.79	862.90	531.81	500.81	17.15	
5600.00	5238.20	5479.93	5306.17	34.56	21.73	163.54	-702.90	871.87	568.35	537.26	18.28	
5700.00	5324.80	5560.34	5386.00	35.58	21.82	164.35	-708.83	879.36	606.83	575.66	19.47	
5800.00	5411.40	5639.30	5464.58	36.60	21.88	165.11	-713.64	885.43	647.22	615.97	20.71	
5900.00	5498.01	5716.78	5541.82	37.62	21.92	165.84	-717.38	890.15	689.46	658.14	22.01	
6000.00	5584.61	5792.76	5617.68	38.65	21.94	166.52	-720.10	893.59	733.52	702.12	23.36	
6100.00	5671.21	5867.23	5692.09	39.67	21.94	167.17	-721.85	895.80	779.34	747.87	24.76	
6200.00	5758.48	5940.72	5765.57	40.54	21.93	167.95	-722.70	896.88	825.71	795.36	27.20	
6300.00	5847.39	6022.54	5847.39	41.20	21.93	168.72	-722.80	897.00	870.54	839.19	27.77	
6400.00	5937.84	6113.00	5937.84	41.81	21.90	169.42	-722.80	897.00	912.54	881.34	29.25	
6500.00	6029.72	6204.88	6029.72	42.37	21.86	170.00	-722.80	897.00	951.45	920.40	30.65	
6600.00	6122.93	6298.08	6122.93	42.87	21.83	170.49	-722.80	897.00	987.21	956.32	31.95	
6700.00	6217.34	6392.50	6217.34	43.33	21.81	170.91	-722.80	897.00	1019.77	989.03	33.18	
6800.00	6312.85	6488.00	6312.85	43.73	21.78	171.26	-722.80	897.00	1049.07	1018.51	34.33	
6900.00	6409.33	6584.48	6409.33	44.07	21.75	171.55	-722.80	897.00	1075.07	1044.70	35.40	
7000.00	6506.67	6681.82	6506.67	44.37	21.73	171.79	-722.80	897.00	1097.74	1067.58	36.40	
7100.00	6604.74	6779.90	6604.74	44.61	21.71	171.99	-722.80	897.00	1117.04	1087.11	37.33	
7200.00	6703.44	6878.60	6703.44	44.79	21.69	172.15	-722.80	897.00	1132.93	1103.27	38.19	
7300.00	6802.64	6977.80	6802.64	44.93	21.67	172.27	-722.80	897.00	1145.41	1116.03	38.97	
7400.00	6902.22	7077.37	6902.22	45.01	21.65	172.35	-722.80	897.00	1154.46	1125.37	39.69	
7500.00	7002.05	7177.21	7002.05	45.05	21.64	172.40	-722.80	897.00	1160.05	1131.30	40.34	
7600.00	7102.03	7277.18	7102.03	45.03	21.62	172.42	-722.80	897.00	1162.19	1133.78	40.91	
7700.00	7202.03	7377.18	7202.03	45.03	21.61	293.64	-722.80	897.00	1162.21	1109.91	22.22	
7800.00	7302.03	7477.18	7302.03	45.07	21.61	293.64	-722.80	897.00	1162.21	1109.87	22.21	
7900.00	7402.03	7577.18	7402.03	45.12	21.60	293.64	-722.80	897.00	1162.21	1109.84	22.19	
8000.00	7502.03	7677.18	7502.03	45.17	21.60	293.64	-722.80	897.00	1162.21	1109.79	22.17	
8100.00	7602.03	7777.18	7602.03	45.22	21.59	293.64	-722.80	897.00	1162.21	1109.75	22.15	
8200.00	7702.03	7877.18	7702.03	45.27	21.59	293.64	-722.80	897.00	1162.21	1109.69	22.13	
8300.00	7802.03	7977.18	7802.03	45.32	21.59	293.64	-722.80	897.00	1162.21	1109.63	22.10	
8400.00	7902.03	8077.18	7902.03	45.37	21.60	293.64	-722.80	897.00	1162.21	1109.57	22.08	
8500.00	8002.03	8177.18	8002.03	45.42	21.60	293.64	-722.80	897.00	1162.21	1109.50	22.05	
8600.00	8102.03	8277.18	8102.03	45.47	21.61	293.64	-722.80	897.00	1162.21	1109.43	22.02	

<b>Company:</b>	Anadarko-Kerr-McGee	<b>Date:</b>	9/24/2007	<b>Time:</b>	09:51:08	<b>Page:</b>	3
<b>Field:</b>	UINTAH COUNTY, UTAH (UTM Zone 12N-NAD 27)						
<b>Reference Site:</b>	NBU 922-18P3S PAD IJNOP	<b>Co-ordinate(NE) Reference:</b>	Site: NBU 922-18P3S PAD IJNOP, Grid Nort				
<b>Reference Well:</b>	18P3S	<b>Vertical (FVD) Reference:</b>	SITE 4876.0				
<b>Reference Wellpath:</b>	1					<b>Db:</b>	Sybase

Site: NBU 922-18O1CS PAD IJNOP  
 Well: 18O1CS  
 Wellpath: 1 V0 Plan: Plan #1 V1

Inter-Site Error: 0.00 ft

Reference MD ft	TVD ft	Offset		Semi-Major Axis			Offset Location		Ctr-Ctr Distance ft	Edge Distance ft	Separation Factor	Warning
		MD ft	TVD ft	Ref ft	Offset ft	TFO-HS deg	North ft	East ft				
8700.00	8202.03	8377.18	8202.03	45.53	21.62	293.64	-722.80	897.00	1162.21	1109.35	21.98	
8800.00	8302.03	8477.18	8302.03	45.58	21.63	293.64	-722.80	897.00	1162.21	1109.26	21.95	
8900.00	8402.03	8577.18	8402.03	45.64	21.65	293.64	-722.80	897.00	1162.21	1109.17	21.91	
9000.00	8502.03	8677.18	8502.03	45.69	21.66	293.64	-722.80	897.00	1162.21	1109.08	21.87	
9100.00	8602.03	8777.18	8602.03	45.75	21.68	293.64	-722.80	897.00	1162.21	1108.98	21.83	
9200.00	8702.03	8877.18	8702.03	45.81	21.70	293.64	-722.80	897.00	1162.21	1108.87	21.79	
9300.00	8802.03	8977.18	8802.03	45.87	21.72	293.64	-722.80	897.00	1162.21	1108.76	21.74	
9400.00	8902.03	9077.18	8902.03	45.93	21.75	293.64	-722.80	897.00	1162.21	1108.65	21.70	
9500.00	9002.03	9177.18	9002.03	45.99	21.77	293.64	-722.80	897.00	1162.21	1108.53	21.65	
9600.00	9102.03	9277.18	9102.03	46.05	21.80	293.64	-722.80	897.00	1162.21	1108.41	21.60	
9700.00	9202.03	9377.18	9202.03	46.11	21.83	293.64	-722.80	897.00	1162.21	1108.28	21.55	
9800.00	9302.03	9477.18	9302.03	46.18	21.86	293.64	-722.80	897.00	1162.21	1108.14	21.49	
9900.00	9402.03	9577.18	9402.03	46.24	21.89	293.64	-722.80	897.00	1162.21	1108.01	21.44	
10000.00	9502.03	9677.18	9502.03	46.31	21.93	293.64	-722.80	897.00	1162.21	1107.86	21.38	
10100.00	9602.03	9777.18	9602.03	46.37	21.97	293.64	-722.80	897.00	1162.21	1107.72	21.33	
10107.97	9610.00	9785.15	9610.00	46.38	21.97	293.64	-722.80	897.00	1162.21	1107.70	21.32	

**NBU 922-18P3S  
NW/SE SEC. 18, T9S, R22E  
UINTAH COUNTY, UTAH  
UTU-0461**

**ONSHORE ORDER NO. 1**

***MULTI-POINT SURFACE USE & OPERATIONS PLAN***

**1. Existing Roads:**

Refer to the attached location directions.

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

**2. Planned Access Roads:**

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

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

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

Please refer to Topo Map C.

**4. Location of Existing & Proposed Facilities:**

*Please see the Natural Buttes Unit SOP.*

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

Approximately 672' +/- of 4" steel pipeline needs to be re-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.

# 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.

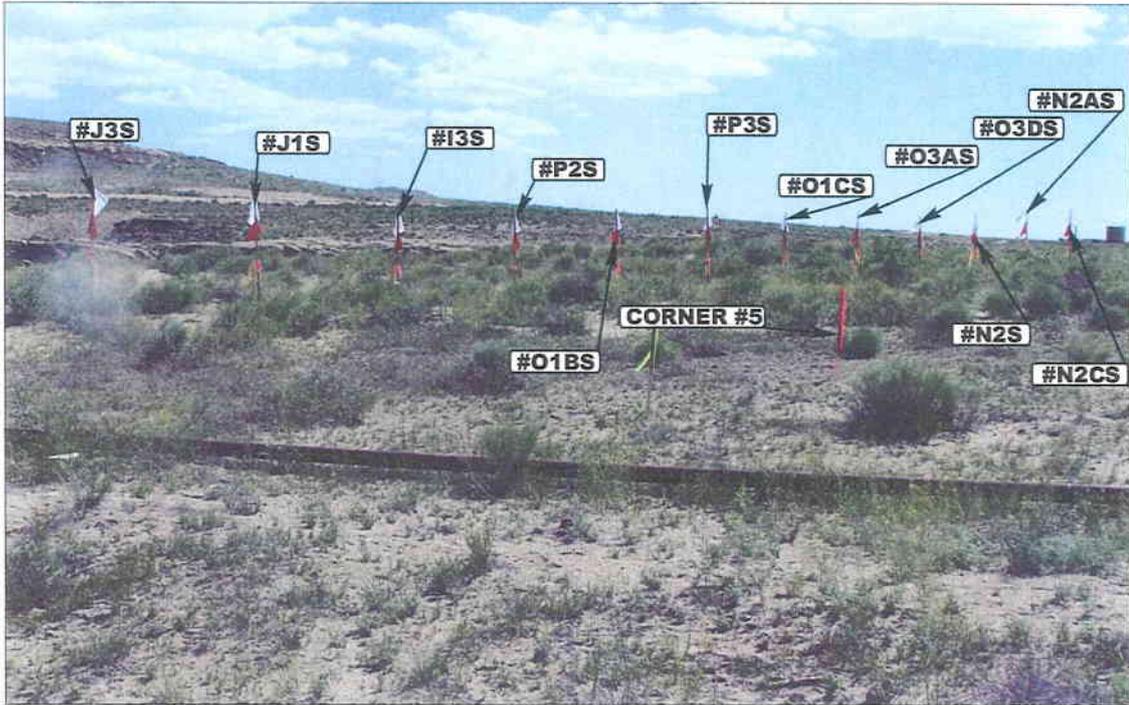


PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKES

CAMERA ANGLE: SOUTHEASTERLY



PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

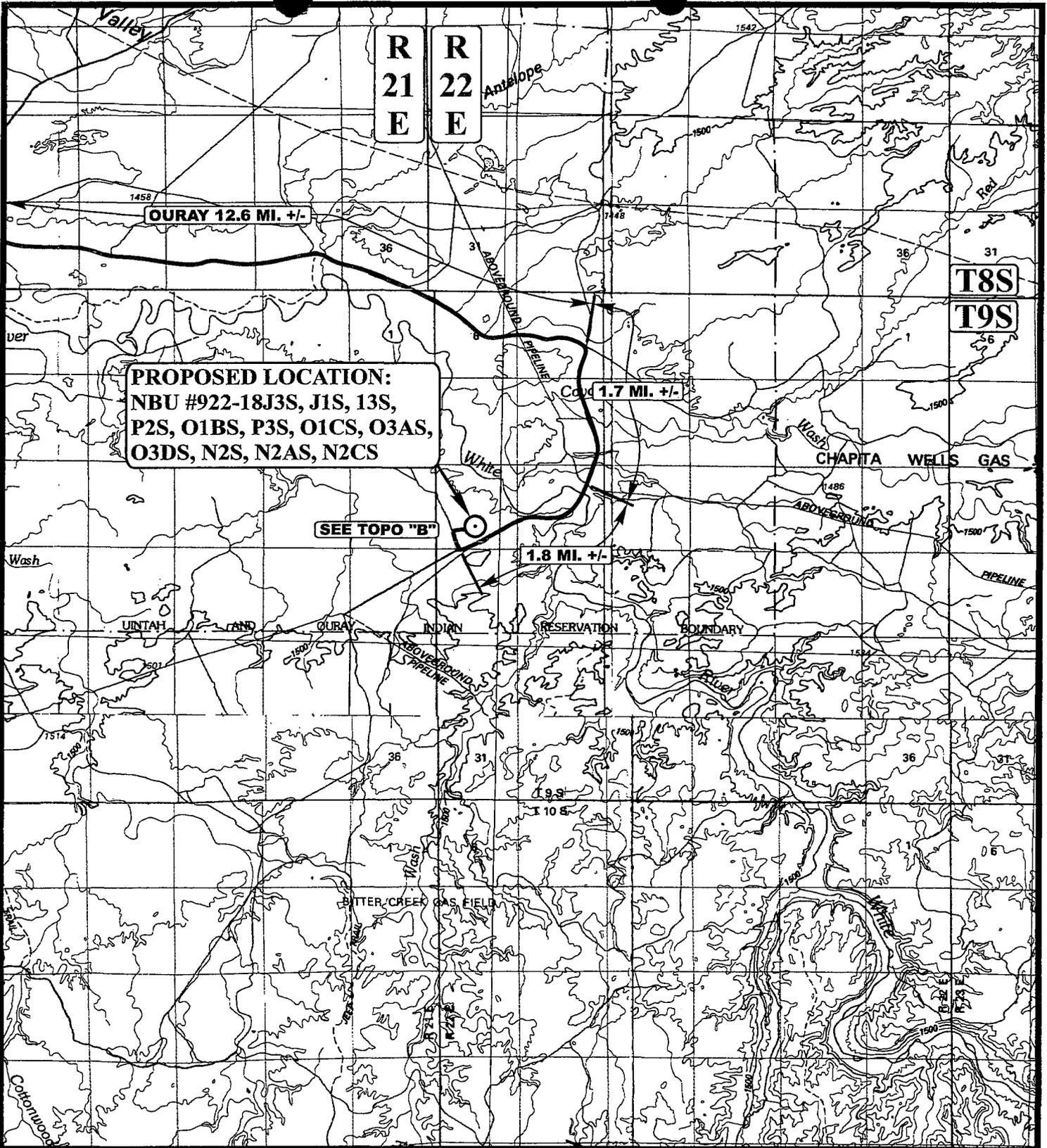
CAMERA ANGLE: NORTHEASTERLY



- Since 1964 -

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

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



**LEGEND:**

○ PROPOSED LOCATION



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

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



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

**TOPOGRAPHIC**  
**MAP**

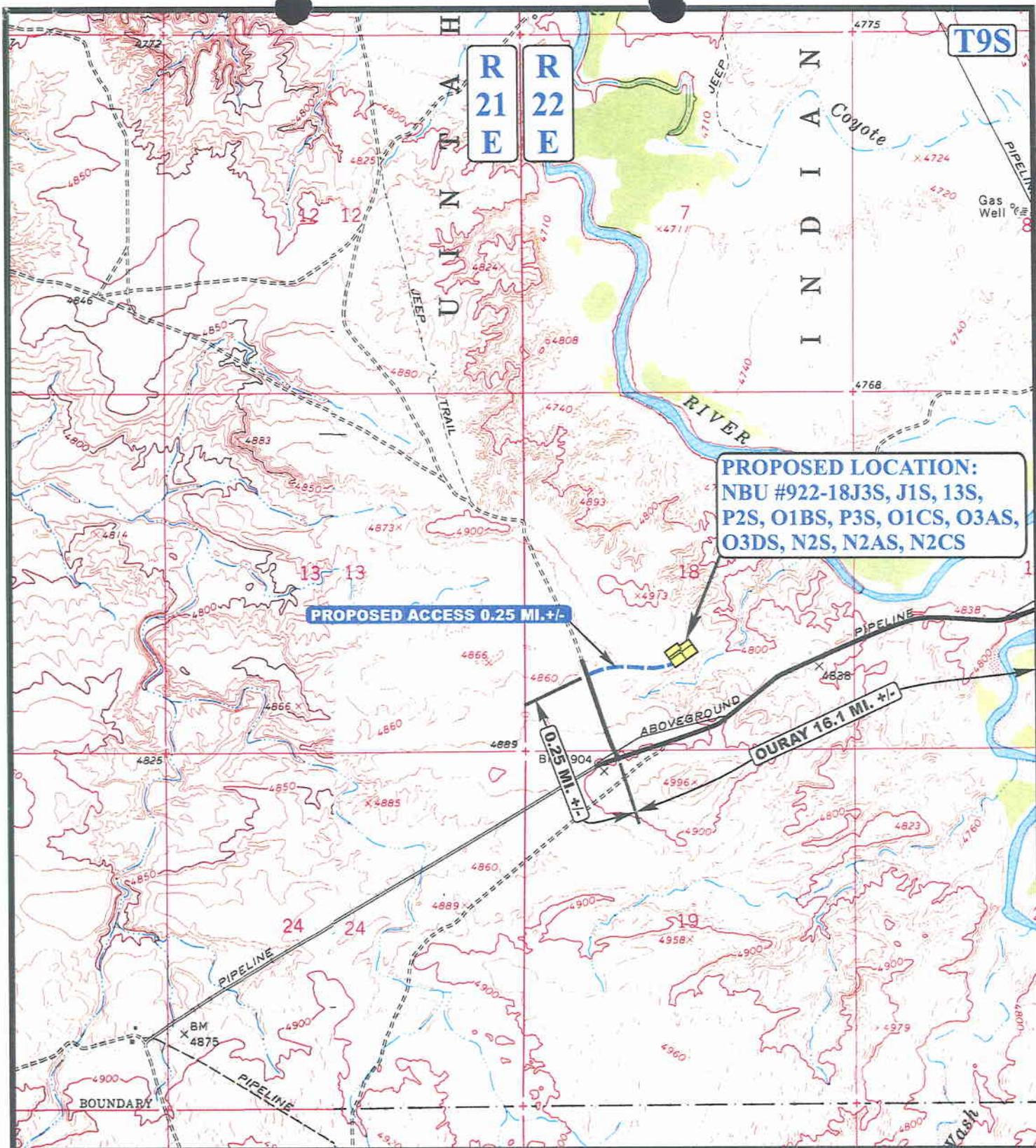
**05** | **16** | **07**  
MONTH | DAY | YEAR

SCALE: 1:100,000

DRAWN BY: C.P.

REVISED: 00-00-00





**LEGEND:**

- EXISTING ROAD
- PROPOSED ACCESS ROAD



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

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



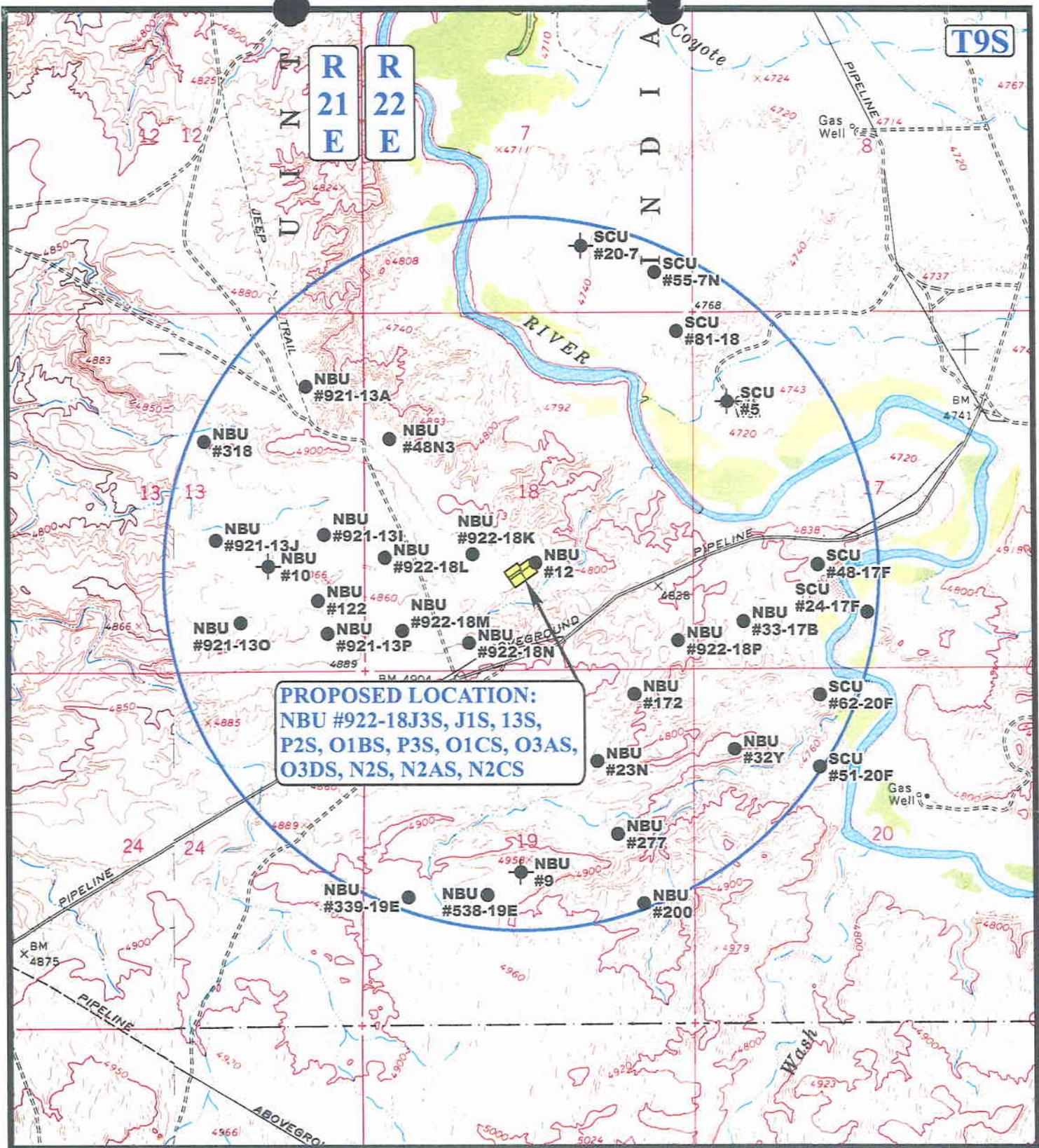
**Utah Engineering & Land Surveying**  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813

**TOPOGRAPHIC  
 MAP**

<b>05</b>	<b>16</b>	<b>07</b>
MONTH	DAY	YEAR



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



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

**LEGEND:**

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



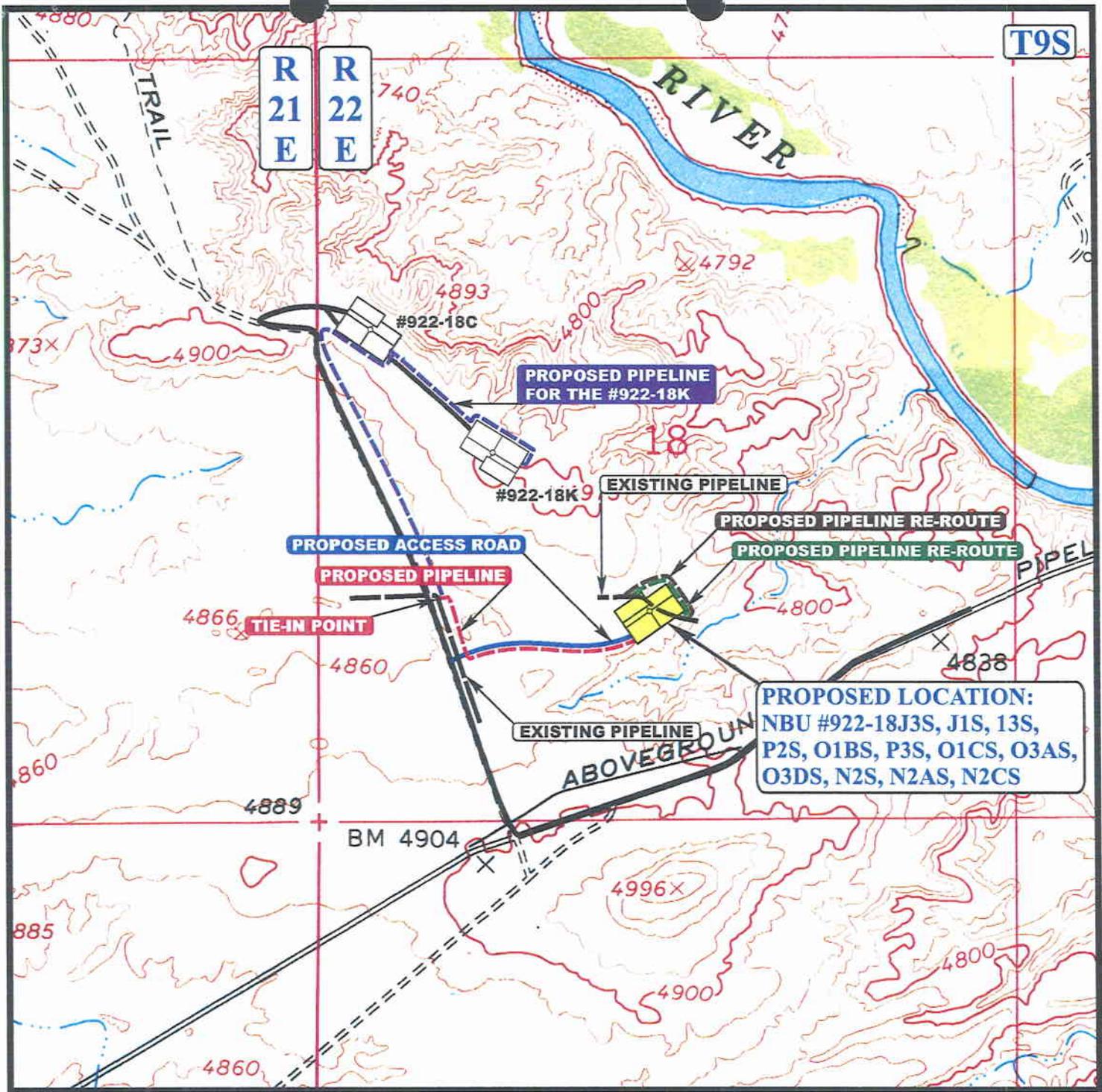
**Uintah Engineering & Land Surveying**  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813

**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



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

**TOPOGRAPHIC MAP**

05	16	07
MONTH	DAY	YEAR

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



# Kerr-McGee Oil & Gas Onshore LP

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

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



TIE-IN POINT

PHOTO: VIEW FROM TIE-IN POINT

CAMERA ANGLE: EASTERLY

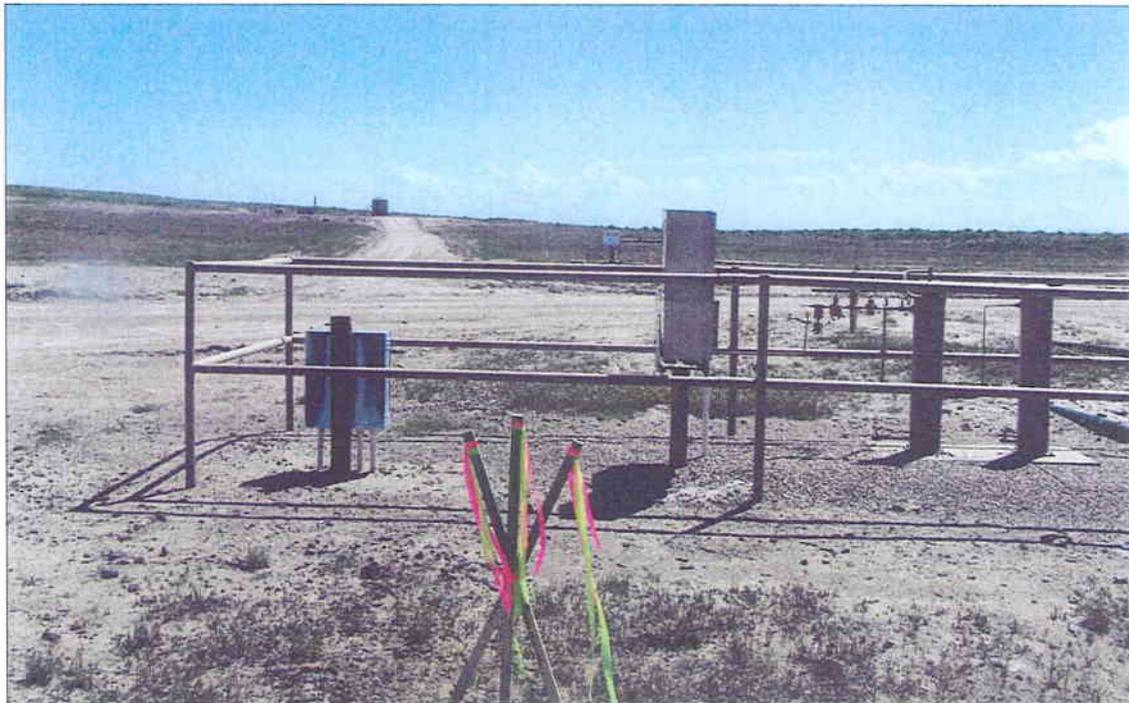


PHOTO: VIEW OF PIPELINE ALIGNMENT

CAMERA ANGLE: EASTERLY



- 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

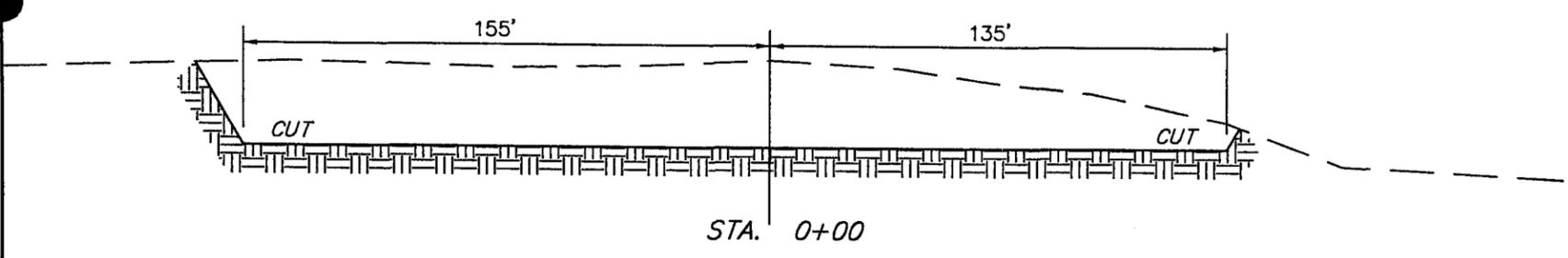
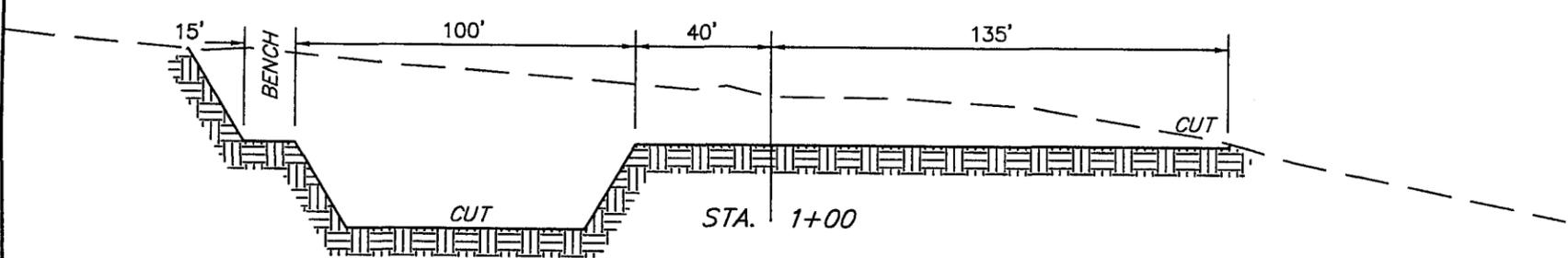
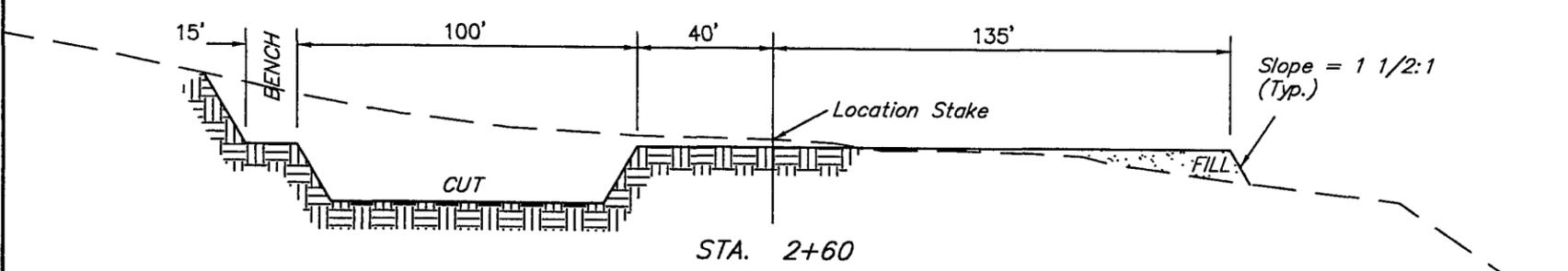
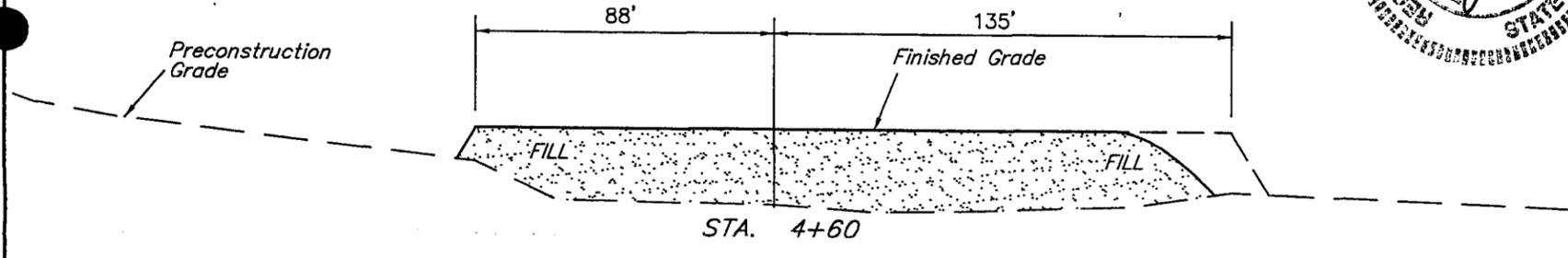
TYPICAL CROSS SECTIONS FOR

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 #922-18J35, J1S, I3S, P2S, O1BS, P3S, O1CS

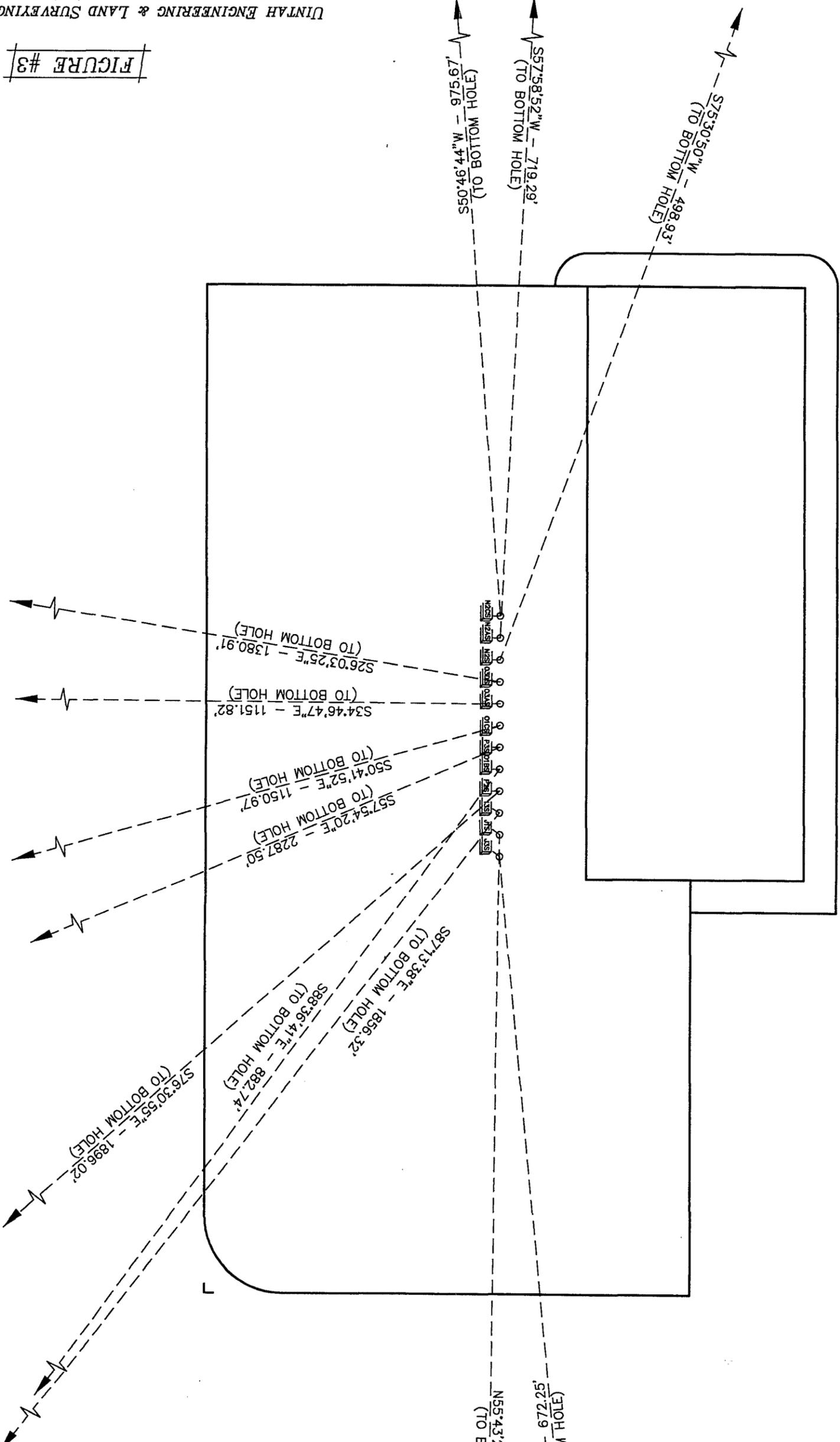
03AS, 03DS, N2S, N2AS, N2CS

SECTION 18, T9S, R22E, S1.B.&M.

S 1/2

N55°43'27"E - 1096.64'  
(TO BOTTOM HOLE)

N49°30'50"E - 672.25'  
(TO BOTTOM HOLE)



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: 43-047-39829

WELL NAME: NBU 922-18P3S  
 OPERATOR: KERR-MCGEE OIL & GAS ( N2995 )  
 CONTACT: SHEILA UPCHEGO

PHONE NUMBER: 435-781-7024

PROPOSED LOCATION:  
 NWSE 18 090S 220E  
 SURFACE: 1424 FSL 2605 FEL  
 BOTTOM: 0203 FSL 0668 FEL  
 COUNTY: UINTAH  
 LATITUDE: 40.03266 LONGITUDE: -109.4819  
 UTM SURF EASTINGS: 629529 NORTHINGS: 4432276  
 FIELD NAME: NATURAL BUTTES ( 630 )

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

LEASE TYPE: 1 - Federal  
 LEASE NUMBER: UTU-0461  
 SURFACE OWNER: 2 - Indian

PROPOSED FORMATION: WSMVD  
 COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

Plat

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

Potash (Y/N)

Oil Shale 190-5 (B) or 190-3 or 190-13

Water Permit  
 (No. 43-8496 )

RDCC Review (Y/N)  
 (Date: \_\_\_\_\_ )

Fee Surf Agreement (Y/N)

Intent to Commingle (Y/N)

LOCATION AND SITING:

         R649-2-3.

Unit: NATURAL BUTTES

         R649-3-2. General  
 Siting: 460 From Qtr/Qtr & 920' Between Wells

         R649-3-3. Exception

Drilling Unit  
 Board Cause No: 173-14  
 Eff Date: 12-2-1999  
 Siting: 460' to u.b.d.r.s. of u.n.e.m.m. tract

R649-3-11. Directional Drill

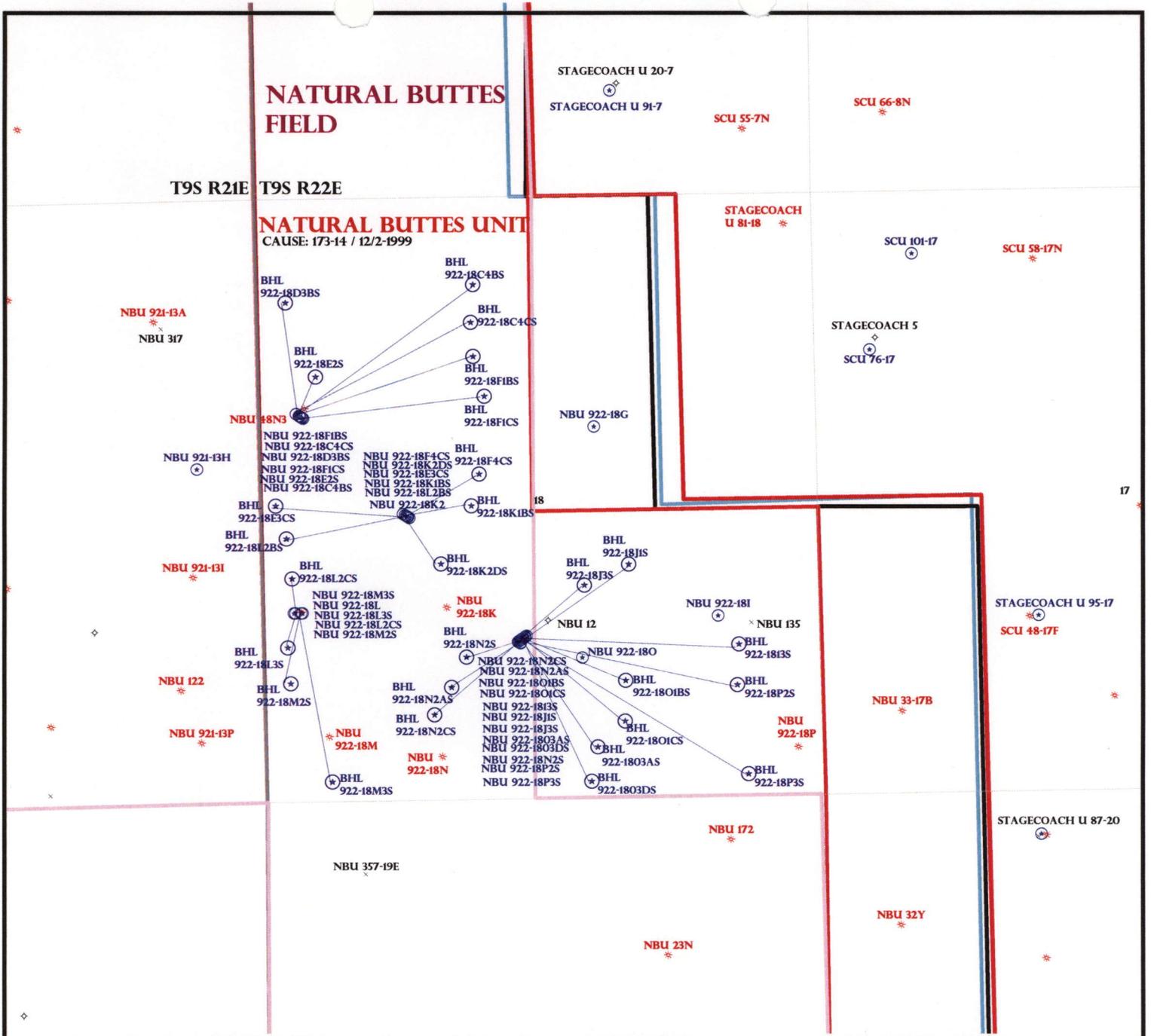
COMMENTS: See Separate NW

STIPULATIONS: 1- Federal Approval  
2- Oil Sale

# NATURAL BUTTES FIELD

## NATURAL BUTTES UNIT

CAUSE: 173-14 / 12/2-1999



OPERATOR: KERR MCGEE O&G (N2995)

SEC: 18 T.9S R. 22E

FIELD: NATURAL BUTTES (630)

COUNTY: UINTAH

CAUSE: 173-14 / 12/2-1999

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

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

**Wells Status**

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



OIL, GAS & MINING



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

# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

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

IN REPLY REFER TO:  
3160  
(UT-922)

November 30, 2007

Memorandum

To: Assistant District Manager Minerals, Vernal District  
From: Michael Coulthard, Petroleum Engineer  
Subject: 2007 Plan of Development Natural Buttes Unit  
Uintah County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2007 within the Natural Buttes Unit, Uintah County, Utah.

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

43-047-39828 NBU 922-18M2S Sec 18 T09S R22E 1689 FSL 0284 FWL  
BHL Sec 18 T09S R22E 1075 FSL 0232 FWL

43-047-39829 NBU 922-18P3S Sec 18 T09S R22E 1424 FSL 2605 FEL  
BHL Sec 18 T09S R22E 0203 FSL 0668 FEL

43-047-39830 NBU 922-18P2S Sec 18 T09S R22E 1436 FSL 2588 FEL  
BHL Sec 18 T09S R22E 0988 FSL 0745 FEL

43-047-39831 NBU 922-18N2S Sec 18 T09S R22E 1402 FSL 2637 FEL  
BHL Sec 18 T09S R22E 1278 FSL 1753 FWL

43-047-39832 NBU 922-18O3DS Sec 18 T09S R22E 1407 FSL 2629 FEL  
BHL Sec 18 T09S R22E 0165 FSL 2024 FEL

43-047-39833 NBU 922-18O3AS Sec 18 T09S R22E 1413 FSL 2621 FEL  
BHL Sec 18 T09S R22E 0465 FSL 1965 FEL

43-047-39834 NBU 922-18O1CS Sec 18 T09S R22E 1419 FSL 2613 FEL  
BHL Sec 18 T09S R22E 0687 FSL 1723 FEL

43-047-39835 NBU 922-18O1BS Sec 18 T09S R22E 1430 FSL 2596 FEL  
BHL Sec 18 T09S R22E 1046 FSL 1714 FEL

43-047-39836 NBU 922-18C4BS Sec 18 T09S R22E 1875 FNL 0362 FWL  
BHL Sec 18 T09S R22E 0745 FNL 1878 FWL

43-047-39837 NBU 922-18E2S Sec 18 T09S R22E 1870 FNL 0354 FWL  
BHL Sec 18 T09S R22E 1529 FNL 0503 FWL

43-047-39838 NBU 922-18F1CS Sec 18 T09S R22E 1892 FNL 0387 FWL  
BHL Sec 18 T09S R22E 1724 FNL 1956 FWL

43-047-39839 NBU 922-18N2AS Sec 18 T09S R22E 1396 FSL 2228 FWL  
BHL Sec 18 T09S R22E 1016 FSL 1617 FWL

43-047-39840 NBU 922-18L2BS Sec 18 T09S R22E 2513 FSL 1273 FWL  
BHL Sec 18 T09S R22E 2344 FSL 0223 FWL

43-047-39841 NBU 922-18D3BS Sec 18 T09S R22E 1853 FNL 0329 FWL  
BHL Sec 18 T09S R22E 0877 FNL 0256 FWL

43-047-39842 NBU 922-18J3S Sec 18 T09S R22E 1453 FSL 2564 FEL  
BHL Sec 18 T09S R22E 1888 FSL 2052 FEL

43-047-39843 NBU 922-18J1S Sec 18 T09S R22E 1447 FSL 2572 FEL  
BHL Sec 18 T09S R22E 2062 FSL 1665 FEL

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

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

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

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

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

/s/ Michael L. Coulthard

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

MCoulthard:mc:11-30-07



JON M. HUNTSMAN, JR.  
Governor

GARY R. HERBERT  
Lieutenant Governor

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

### Division of Oil Gas and Mining

JOHN R. BAZA  
Division Director

December 3, 2007

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

Re: NBU 922-18P3S Well, Surface Location 1424' FSL, 2605' FEL, NW SE, Sec. 18, T. 9 South, R. 22 East, Bottom Location 203' FSL, 668' FEL, SE SE, Sec. 18, T. 9 South, R. 22 East, Uintah County, Utah

Gentlemen:

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

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-047-39829.

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 922-18P3S  
API Number: 43-047-39829  
Lease: UTU-0461

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

### Conditions of Approval

#### 1. General

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

#### 2. Notification Requirements

Notify the Division with 24 hours of spudding the well.

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

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

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

#### 3. Reporting Requirements

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

4. State approval of this well does not supersede the required federal approval, which must be obtained prior to drilling.
5. In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.
6. In accordance with Order in Cause No. 190-5(b) dated October 28, 1982, the Operator shall comply with requirements of Rules R649-3-31 and R649-3-27 pertaining to Designated Oil Shale Areas. Additionally, the operator shall ensure that the surface and/or production casing is properly cemented over the entire oil shale interval as defined by Rule R649-3-31. The Operator shall report the actual depth the oil shale is encountered to the Division.

RECEIVED  
VERNAL FIELD OFFICE  
2007 NOV 5 PM 12:31

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

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

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

5. Lease Serial No.  
**UTU-0461**  
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 922-18P3S**

2. Name of Operator  
**KERR MCGEE OIL AND GAS ONSHORE LP**

9. API Well No.  
**43 047 39829**  
10. Field and Pool, or Exploratory  
**NATURAL BUTTES**

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 **NW/SE 1424'FSL, 2605'FEL**  
At proposed prod. Zone **SE/SE 203'FSL, 668'FEL**

11. Sec., T., R., M., or Blk, and Survey or Area  
**SEC. 18, T9S, R22E**

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

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

15. Distance from proposed\* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)  
**1442'**

16. No. of Acres in lease  
**601.96**

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  
**10,107'**

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:

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

25. Signature *Sheila Upchego* Name (Printed/Typed) **SHEILA UPCHEGO** Date **11/16/2007**  
Title **SENIOR LAND ADMIN SPECIALIST**

Approved by (Signature) *Jerry Kewada* Name (Printed/Typed) **Jerry Kewada** Date **3-25-2008**  
Title **Lands & Mineral Resources** Office **VERNAL FIELD OFFICE**

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

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

\* (Instructions on reverse)

NOTICE OF APPROVAL

CONDITIONS OF APPROVAL ATTACHED

RECEIVED  
MAR 28 2008  
DIV. OF OIL, GAS & MINING

No WOS  
08/16/00 10A



**UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
VERNAL FIELD OFFICE  
170 South 500 East    VERNAL, UT 84078    (435) 781-4400**



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

**Company:** Kerr-McGee Oil & Gas Onshore, LP    **Location:**    NWSE, Sec. 18, T9S, R22E  
**Well No:**    NBU 922-18P3S    **Lease No:**    UTU-0461  
**API No:**    43-047-39829    **Agreement:**    Natural Buttes Unit

<b>Title</b>	<b>Name</b>	<b>Office Phone Number</b>	<b>Cell Phone Number</b>
Petroleum Engineer:	Matt Baker	(435) 781-4490	(435) 828-4470
Petroleum Engineer:	Michael Lee	(435) 781-4432	(435) 828-7875
Petroleum Engineer:	James Ashley	(435) 781-4470	(435) 828-7874
Petroleum Engineer:	Ryan Angus	(435) 781-4430	(435) 828-7368
Supervisory Petroleum Technician:	Jamie Sparger	(435) 781-4502	(435) 828-3913
NRS/Enviro Scientist:		(435) 781-4475	(435) 828-4029
NRS/Enviro Scientist:	Karl Wright	(435) 781-4484	(435) 828-7381
NRS/Enviro Scientist:	Holly Villa	(435) 781-4404	(435) 828-3544
NRS/Enviro Scientist:		(435) 781-4476	
NRS/Enviro Scientist:	Chuck Macdonald	(435) 781-4441	(435) 828-7482
NRS/Enviro Scientist:		(435) 781-3400	(435) 828-3544
NRS/Enviro Scientist:	Michael Cutler	(435) 781-3401	(435) 828-3546
NRS/Enviro Scientist:	Anna Figueroa	(435) 781-3407	(435) 828-3548
NRS/Enviro Scientist:	Verlyn Pindell	(435) 781-3402	(435) 828-3547
NRS/Enviro Scientist:	Darren Williams	(435) 781-4447	(435) 828-4029
NRS/Enviro Scientist:	Nathan Packer	(435) 781-3405	(435) 828-3545

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

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

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

**NOTIFICATION REQUIREMENTS**

- |  |  |
|--|--|
| Location Construction<br>(Notify NRS/Enviro Scientist)                     | - Forty-Eight (48) hours prior to construction of location and access roads.   |
| Location Completion<br>(Notify NRS/Enviro Scientist)                       | - Prior to moving on the drilling rig.   |
| Spud Notice<br>(Notify Petroleum Engineer)                                 | - Twenty-Four (24) hours prior to spudding the well.   |
| Casing String & Cementing<br>(Notify Supervisory Petroleum Technician)     | - Twenty-Four (24) hours prior to running casing and cementing all casing strings.   |
| BOP & Related Equipment Tests<br>(Notify Supervisory Petroleum Technician) | - Twenty-Four (24) hours prior to initiating pressure tests.   |
| First Production Notice<br>(Notify Petroleum Engineer)                     | - Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days. |

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

**General Surface COAs**

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

**Specific Surface COAs**

Additional Stipulations:

- Re-route 24 Inch pipeline on location. 2)
- 8-Inch pipeline.

General Conditions of Approval

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

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

## **DOWNHOLE CONDITIONS OF APPROVAL**

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

- Production casing cement shall be brought up and into the surface casing. Production casing minimum cement top is 1800 ft. The minimum cement top is approximately 800 ft above the surface casing shoe.
- Cmnt Top (TOC) standard will place cmnt behind casing across formation lost circulation zone, Birds Nest Zone.
- COA specification fulfills operators performance standard stated in APD (where operators toc is calc'd with an excess to reach surface).
- Covering air/gas drilling operations, requirements will be adhered to covering air/gas drilling operations as described in Onshore Order #2 III. E. 1. Drilling Operations, Special Drilling Operations, air/gas drilling.
- A Gamma Ray well Log shall be run from the well Total Depth to the surface.
- A copy of the Gamma Ray well Log shall be submitted to the BLM Vernal Field Office.
- Surface casing cement shall be brought up and into the surface.

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

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

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.

- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- **Cement baskets shall not be run on surface casing.**
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.
- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- **Please submit an electronic copy of all other logs run on this well in LAS format to UT\_VN\_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.**
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

## OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- In accordance with 43 CFR 3162.4-3, this well shall be reported on the "Monthly Report of Operations" (Oil and Gas Operations Report ((OGOR)) starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report shall be filed in duplicate, directly with the Minerals Management Service, P.O. Box 17110, Denver, Colorado 80217-0110, or call 1-800-525-7922 (303) 231-3650 for reporting information.
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
  - Operator name, address, and telephone number.
  - Well name and number.
  - Well location (¼¼, Sec., TwN, Rng, and P.M.).
  - Date well was placed in a producing status (date of first production for which royalty will be paid).
  - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
  - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
  - Unit agreement and/or participating area name and number, if applicable.
  - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include

deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

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

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

FORM 9

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>		5. LEASE DESIGNATION AND SERIAL NUMBER: <b>UTU-0461</b>
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: <b>Ute Tribe</b>
		7. UNIT or CA AGREEMENT NAME: <b>891008900A</b>
1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____	8. WELL NAME and NUMBER: <b>NBU 922-18P3S</b>	
2. NAME OF OPERATOR: <b>Kerr-McGee Oil &amp; Gas Onshore, LP</b>		9. API NUMBER: <b>4304739829</b>
3. ADDRESS OF OPERATOR: P.O. Box 173779 CITY <b>Denver</b> STATE <b>CO</b> ZIP <b>80217-3779</b>	PHONE NUMBER: <b>(720) 929-6226</b>	10. FIELD AND POOL, OR WILDCAT: <b>Natural Buttes Field</b>
4. LOCATION OF WELL FOOTAGES AT SURFACE: <b>1424' FSL &amp; 2605' FEL</b>		COUNTY: <b>Uintah</b>
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: <b>NWSE 18 9S 22E</b>		STATE: <b>UTAH</b>

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____  <input type="checkbox"/> 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><b>APD Extension</b></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 in order to complete drilling operations for this location. The Utah Division of Oil, Gas, and Mining initially approved this APD on 12/3/2007.

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

Date: 12-06-08  
By: [Signature]

NAME (PLEASE PRINT) <u>Kevin McIntyre</u>	TITLE <u>Regulatory Analyst</u>
SIGNATURE <u>[Signature]</u>	DATE <u>11/23/2008</u>

(This space for State use only)

COPY SENT TO OPERATOR

Date: 12-9-2008

Initials: VS

(See Instructions on Reverse Side)

**RECEIVED**

**DEC 04 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:** 4304739829  
**Well Name:** NBU 922-18P3S  
**Location:** NWSE 1424' FSL & 2605' 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

11/23/2008  
Date

Title: Regulatory Analyst

Representing: Kerr-McGee Oil & Gas Onshore, LP

RECEIVED

DEC 04 2008

DIV. OF OIL, GAS & MINING

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>  <b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-0461
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b> UTE  <b>7. UNIT or CA AGREEMENT NAME:</b> NATURAL BUTTES
<b>1. TYPE OF WELL</b> Gas Well	<b>8. WELL NAME and NUMBER:</b> NBU 922-18P3S
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.	<b>9. API NUMBER:</b> 43047398290000
<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> 1424 FSL 2605 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWSE Section: 18 Township: 09.0S Range: 22.0E Meridian: S	<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES  <b>COUNTY:</b> UINTAH  <b>STATE:</b> UTAH

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

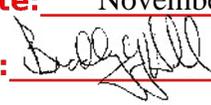
TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 11/30/2009	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> 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 type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input checked="" type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: _____

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

Kerr-McGee Oil & Gas Onshore, L.P. (Kerr-McGee) respectfully requests an extension to this APD for the maximum time allowed. Please contact the undersigned with any questions and/or comments. Thank you.

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

**Date:** November 30, 2009

**By:** 

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



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

- State of Utah  
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

**Request for Permit Extension Validation Well Number 43047398290000**

**API:** 43047398290000

**Well Name:** NBU 922-18P3S

**Location:** 1424 FSL 2605 FEL QTR NWSE SEC 18 TWP 090S RNG 220E MER S

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

**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 rightof- way, which could affect the proposed location?  Yes  No
  
- Has the approved source of water for drilling changed?  Yes  No
  
- Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation?  Yes  No
  
- Is bonding still in place, which covers this proposed well?  Yes  No

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

**Signature:** Danielle Piernot

**Date:** 11/24/2009

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

**Date:** November 30, 2009

**By:** 

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>  <b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-0461
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b> UTE  <b>7. UNIT or CA AGREEMENT NAME:</b> NATURAL BUTTES
<b>1. TYPE OF WELL</b> Gas Well	<b>8. WELL NAME and NUMBER:</b> NBU 922-18P3S
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.	<b>9. API NUMBER:</b> 43047398290000
<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> 1424 FSL 2605 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWSE Section: 18 Township: 09.0S Range: 22.0E Meridian: S	<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES  <b>COUNTY:</b> UINTAH  <b>STATE:</b> UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 12/3/2010  <input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:  <input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:  <input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input checked="" type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>

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

Kerr-McGee Oil & Gas Onshore, L.P. (Kerr-McGee) respectfully requests an extension to this APD for the maximum time allowed. Please contact the undersigned with any questions and/or comments. Thank you.

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

Date: 12/06/2010

By: 

<b>NAME (PLEASE PRINT)</b> Danielle Piernot	<b>PHONE NUMBER</b> 720 929-6156	<b>TITLE</b> Regulatory Analyst
<b>SIGNATURE</b> N/A		<b>DATE</b> 11/30/2010



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

- State of Utah  
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

**Request for Permit Extension Validation Well Number 43047398290000**

**API:** 43047398290000

**Well Name:** NBU 922-18P3S

**Location:** 1424 FSL 2605 FEL QTR NWSE SEC 18 TWP 090S RNG 220E MER S

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

**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 rightof- way, which could affect the proposed location?  Yes  No
- Has the approved source of water for drilling changed?  Yes  No
- Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation?  Yes  No
- Is bonding still in place, which covers this proposed well?  Yes  No

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

**Signature:** Danielle Piernot

**Date:** 11/30/2010

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

**Date:** 12/06/2010  
**By:** 



GARY R. HERBERT  
Governor

GREGORY S. BELL  
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 16, 2011

Danielle Piernot  
Kerr McGee Oil & Gas Onshore, L.P.  
P.O. Box 173779  
Denver, CO 80217

43 047 39829  
NBU 922-18 P3S  
9S 22E 18

Re: APDs Rescinded for Kerr McGee Oil & Gas Onshore, L.P.  
Uintah County

Dear Ms. Piernot:

Enclosed find the list of APDs that you requested to be rescinded. No drilling activity at these locations has been reported to the division. Therefore, approval to drill these wells is hereby rescinded, effective December 16, 2011.

A new APD must be filed with this office for approval prior to the commencement of any future work on the subject location.

If any previously unreported operations have been performed on this well location, it is imperative that you notify the Division immediately.

Sincerely,

  
Diana Mason  
Environmental Scientist

cc: Well File  
Bureau of Land Management, Vernal



43-047-40567	NBU 920-33D
43-047-38813	BONANZA 1023-12C
43-047-40416	NBU 677-26E
43-047-40417	NBU 692-06E
43-047-40418	NBU 712-35E
43-047-50185	NBU 920-29A
43-047-50186	NBU 920-29D
43-047-50187	NBU 920-29E
43-047-50188	NBU 920-29F
43-047-50189	NBU 920-29G
43-047-50190	NBU 920-29H
43-047-38879	TABEE 34-197
→ 43-047-39829	NBU 922-18P3S
43-047-39831	NBU 922-18N2S
43-047-40444	NBU 921-10G4S
43-047-40445	NBU 921-10F2S
43-047-40446	NBU 921-10E3S
43-047-40447	NBU 921-10F3T
43-047-40437	NBU 1022-3C1S
43-047-38913	BONANZA 1023-7E-4
43-047-40567	NBU 920-33D



# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Green River District-Vernal Field Office

170 South 500 East

Vernal, UT 84078

(435) 781-4400 Fax: (435) 781-4410

<http://www.blm.gov/ut/st/en/fo/vernal.html>



**MAR 27 2012**

IN REPLY REFER TO:  
3160 (UTG011)

Julie Jacobson  
Anadarko Petroleum Corporation  
Kerr McGee Oil & Gas Onshore LP  
1099 18<sup>th</sup> Street, Suite 600  
Denver, CO 80202

Re: Notice of Expiration  
Well No. NBU 922-18P3S  
NWSE, Sec. 18, T9S, R22E  
Uintah County, Utah  
Lease No. UTU-461  
Natural Buttes Unit

43 047 39829

Dear Ms. Jacobson:

The Application for Permit to Drill (APD) for the above-referenced well was approved on March 25, 2008. No extension request of the original APD was received. According to our records, no known activity has transpired at the approved location. In view of the foregoing, this office is notifying you that the approval of the referenced application has expired. If you intend to drill at this location in the future, a new Application for Permit to Drill must be submitted.

This office requires a letter confirming that no surface disturbance has been made for this drill site. Any surface disturbance associated with the approved location of this well is to be rehabilitated. A schedule for this rehabilitation must be submitted to this office. Your cooperation in this matter is appreciated.

If you have any questions regarding this matter, please contact Cindy Severson at (435) 781-4455.

Sincerely,

Jerry Kenczka  
Assistant Field Manager  
Lands & Mineral Resources

cc: UDOGM

RECEIVED

APR 11 2012

DIV. OF OIL, GAS & MINING



# United States Department of the Interior

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Green River District-Vernal Field Office

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Vernal, UT 84078

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Jerry Kenczka  
Assistant Field Manager  
Lands & Mineral Resources

cc: UDOGM

RECEIVED

APR 11 2012

DIV. OF OIL, GAS & MINING