

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

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

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. <b>UTU-0359</b>
b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name <b>TRIBAL SURFACE</b>
2. Name of Operator <b>KERR MCGEE OIL AND GAS ONSHORE LP</b>		7. If Unit or CA Agreement, Name and No. <b>UNIT #891008900A</b>
3a. Address <b>1368 SOUTH 1200 EAST VERNAL, UT 84078</b>	3b. Phone No. (include area code) <b>(435) 781-7024</b>	8. Lease Name and Well No. <b>NBU 922-18E3BS</b>
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface <b>NE/SW 2535'FSL, 1240'FWL</b> At proposed prod. Zone <b>SW/NW 2206'FNL, 294'FWL (LOT 2)</b>		9. API Well No. <b>43-047-34803</b>
14. Distance in miles and direction from nearest town or post office* <b>27.95 +/- 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>1223'</b>	16. No. of Acres in lease <b>162.39</b>	11. Sec., T., R., M., or Blk. and Survey or Area <b>SEC. 18, T9S, R22E</b>
18. Distance from proposed* location to nearest well, drilling, completed, applied for, on this lease, ft. <b>REFER TO TOPO C</b>	17. Spacing Unit dedicated to this well <b>40.00</b>	12. County or Parish <b>UINTAH</b>
21. Elevations (Show whether DF, KDB, RT, GL, etc.) <b>4899'GL</b>	19. Proposed Depth <b>10,092'</b>	13. State <b>UTAH</b>
22. Approximate date work will start* <b>UPON APPROVAL</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>11/27/2007</b>
Title <b>SENIOR LAND ADMIN SPECIALIST</b>		
Approved by (Signature) 	Name (Printed/Typed) <b>BRADLEY G. HILL</b>	Date <b>08-20-06</b>
Title <b>ENVIRONMENTAL MANAGER</b>	Office <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)

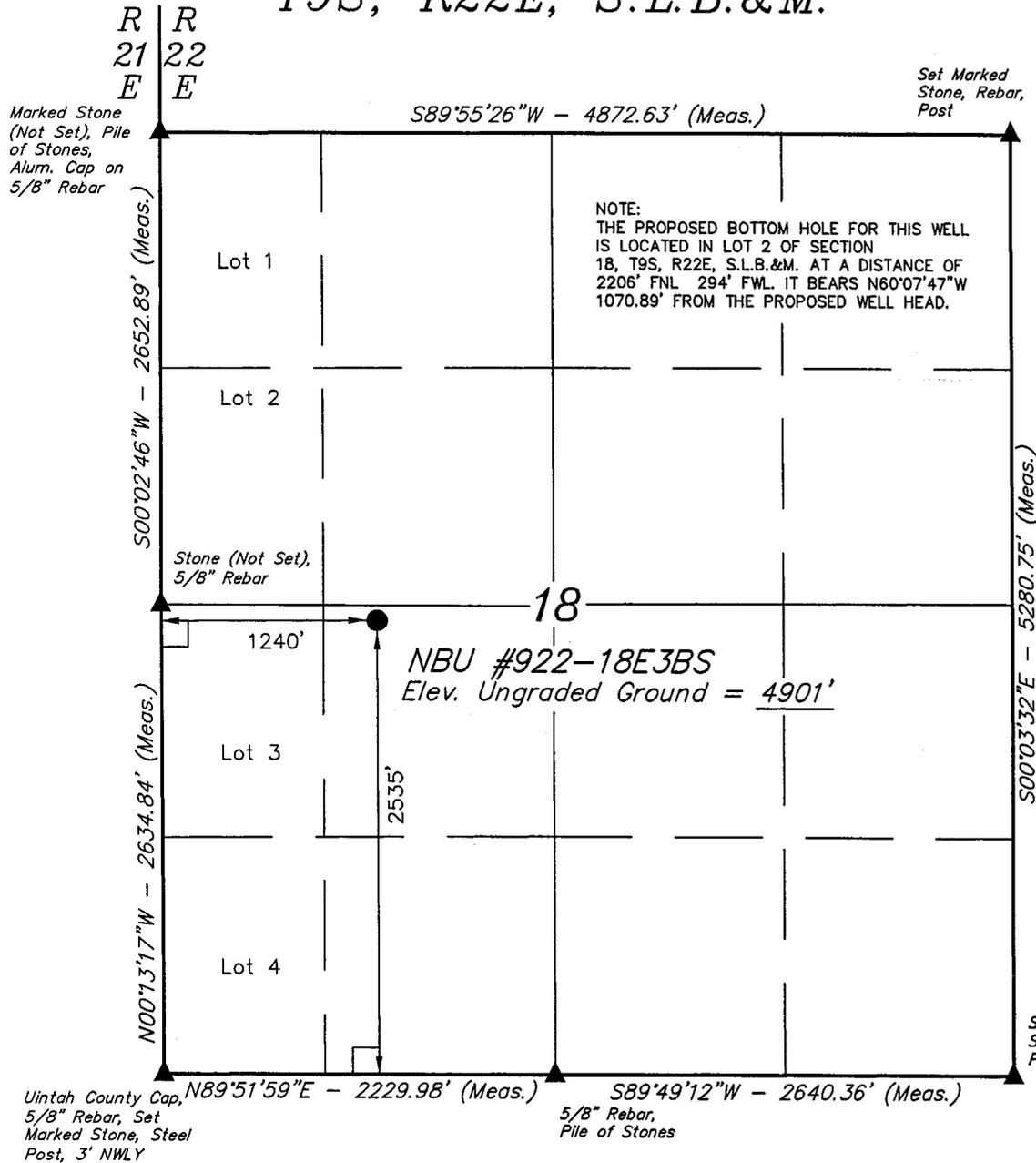
Surf  
629219X  
4432608Y  
40.035636  
-104.485463

BHU  
628928X  
4432769Y  
40.037194  
-109.488847

Federal Approval of this Action is Necessary

RECEIVED  
DEC 03 2007  
DIV. OF OIL, GAS & MINING

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



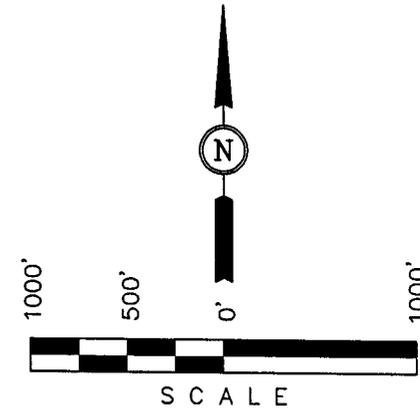
**Kerr-McGee Oil & Gas Onshore LP**  
 Well location, NBU #922-18E3BS, located as shown in the NE 1/4 SW 1/4 of Section 18, T9S, R22E, S.L.B.&M., Uintah County, Utah.

### BASIS OF ELEVATION

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

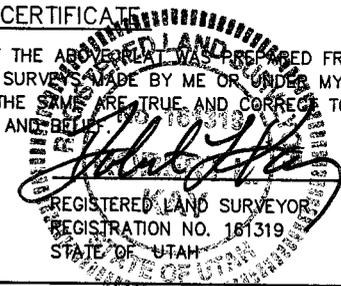
### BASIS OF BEARINGS

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



### CERTIFICATE

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



Set Marked Stone, Large Pile of Stones  
 REV: 11-02-07  
 REV: 10-25-07

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

SCALE 1" = 1000'	DATE SURVEYED: 05-07-07	DATE DRAWN: 05-21-07
PARTY D.K. L.K. C.H.	REFERENCES G.L.O. PLAT	
WEATHER WARM	FILE Kerr-McGee Oil & Gas Onshore LP	

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

(NAD 83)  
 LATITUDE = 40°02'08.61" (40.035725)  
 LONGITUDE = 109°29'10.91" (109.486364)  
 (NAD 27)  
 LATITUDE = 40°02'08.74" (40.035761)  
 LONGITUDE = 109°29'08.44" (109.485678)

**NBU 922-18E3BS  
NE/SW SEC. 18, T9S, R22E  
UINTAH COUNTY, UTAH  
UTU-0359**

**ONSHORE ORDER NO. 1**

***DRILLING PROGRAM***

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

<u>Formation</u>	<u>Depth</u>
Uinta	0- Surface
Green River	1783'
Top of Birds Nest Water	2082'
Mahogany	2448'
Wasatch	5061'
Mesaverde	7813'
MVU2	8725'
MVL1	9251'
TVD	9880'
TD (MD)	10,092'

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

<u>Substance</u>	<u>Formation</u>	<u>Depth</u>
	Green River	1783'
	Top of Birds Nest Water	2082'
	Mahogany	2448'
Gas	Wasatch	5061'
Gas	Mesaverde	7813'
Gas	MVU2	8725'
Gas	MVL1	9251'
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 10,092' TD, approximately equals 6257 psi (calculated at 0.62 psi/foot).

Maximum anticipated surface pressure equals approximately 4037 psi (bottomhole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

8. **Anticipated Starting Dates:**

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

9. **Variations:**

*Please see Natural Buttes Unit SOP.*

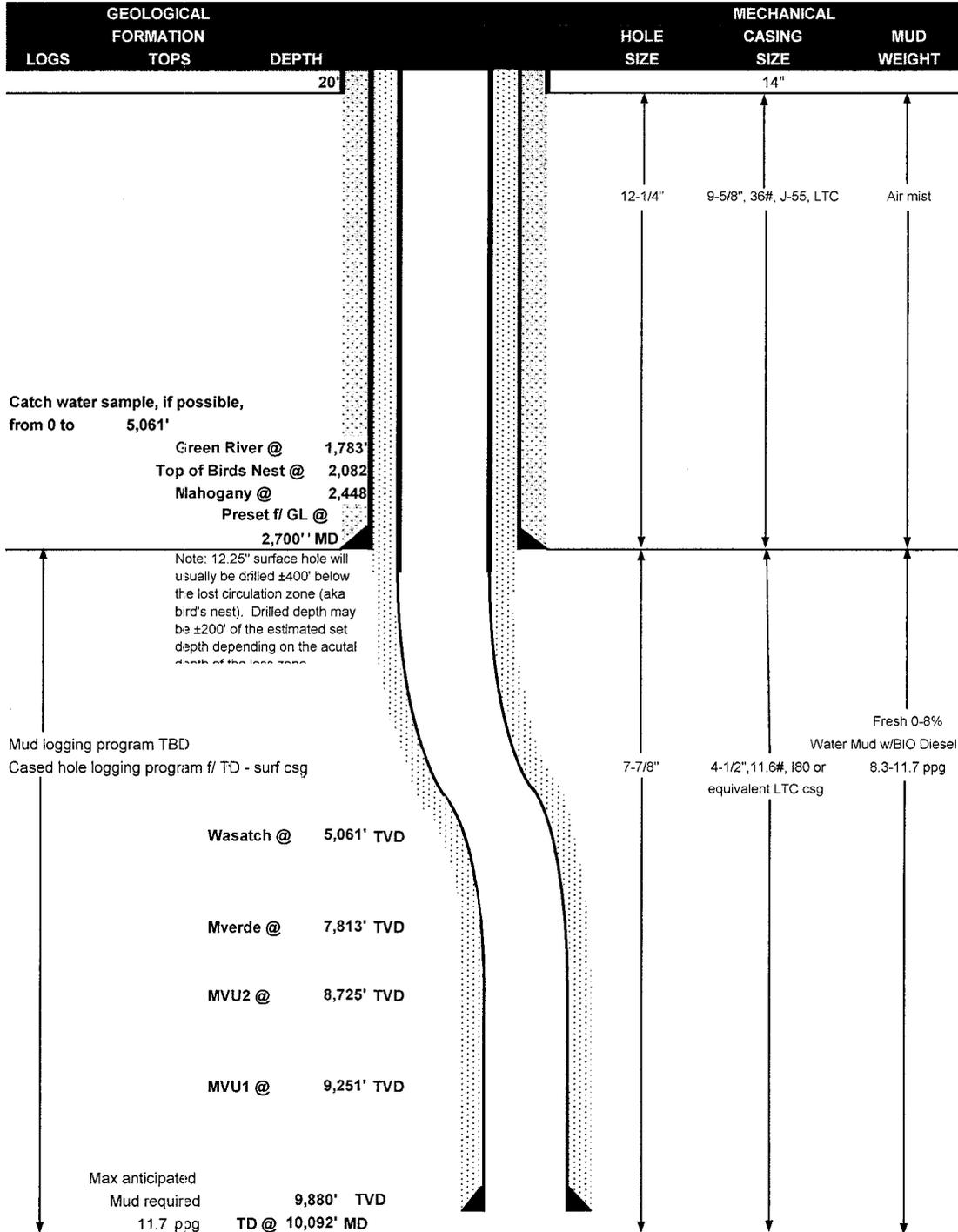
10. **Other Information:**

*Please see Natural Buttes Unit SOP.*



# KERR-McGEE OIL & GAS ONSHORE LP DRILLING PROGRAM

COMPANY NAME	KERR-McGEE OIL & GAS ONSHORE LP		DATE	November 27, 2007			
WELL NAME	<b>NBU 922-18E3BS</b>		TD	10,092'	MD	9,880' TVD	
FIELD	Natural Buttes	COUNTY	Uintah	STATE	Utah	ELEVATION	4,899' GL KB 4,914'
SURFACE LOCATION	NE/SW SEC. 18, T9S, R22E 2535'FSL, 1240'FWL						
	Latitude: 40.035725 Longitude: 19.486364						
BTM HOLE LOCATION	SW/NW LOT 2, SEC. 18, T9S, R22E 2206'FNL, 294'FWL						
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 10092	11.60	I-80	LTC	1.98	1.03	1.97

- 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\*Buoys.Fact. of water)  
 MASP 3920 psi

**CEMENT PROGRAM**

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD	
SURFACE	LEAD	500	Premium cmt + 2% CaCl + .25 pps flocele	215	60%	15.60	1.18	
Option 1	TOP OUT CMT (1)	200	20 gals sodium silicate + Premium cmt + 2% CaCl + .25 pps flocele	50		15.60	1.18	
	TOP OUT CMT (2)	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18	
SURFACE	Option 2	LEAD	<b>NOTE: If well will circulate water to surface, option 2 will be utilized</b>					
		1500	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	7,312'	Premium Lite II + 3% KCl + 0.25 pps celloflake + 5 pps gilsonite + 10% gel + 0.5% extender	800	60%	11.00	3.38	
	TAIL	2,780'	50/50 Poz/G + 10% salt + 2% gel +.1% R-3	780	60%	14.30	1.31	

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

**FLOAT EQUIPMENT & CENTRALIZERS**

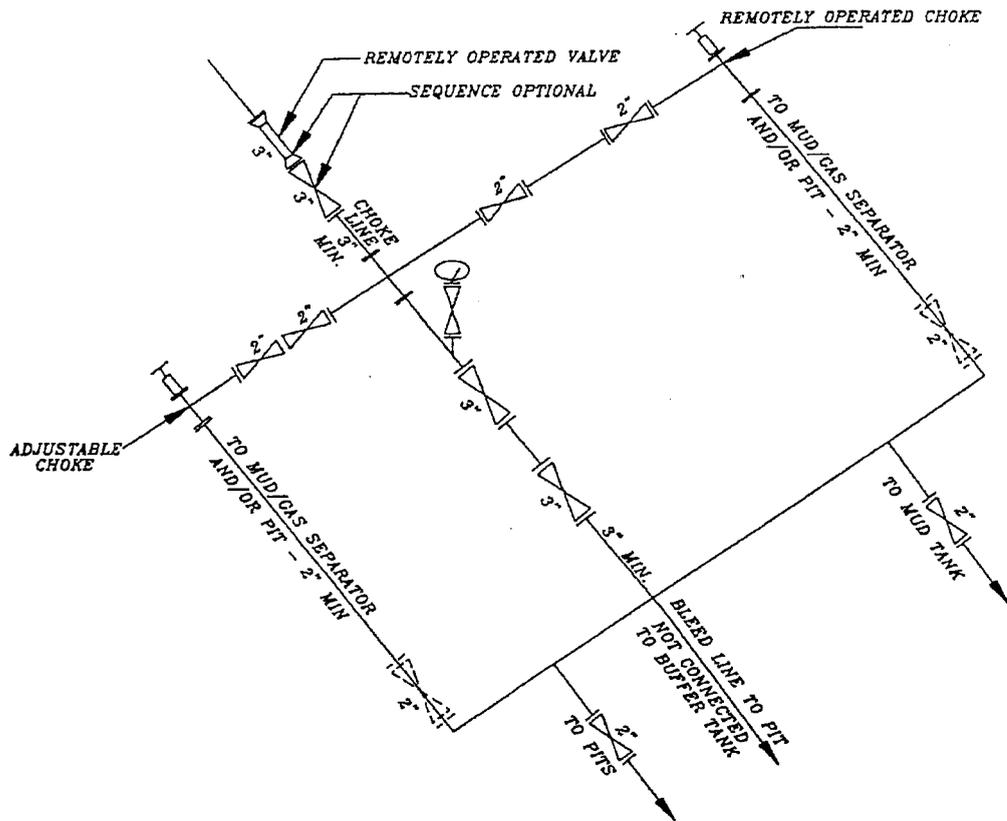
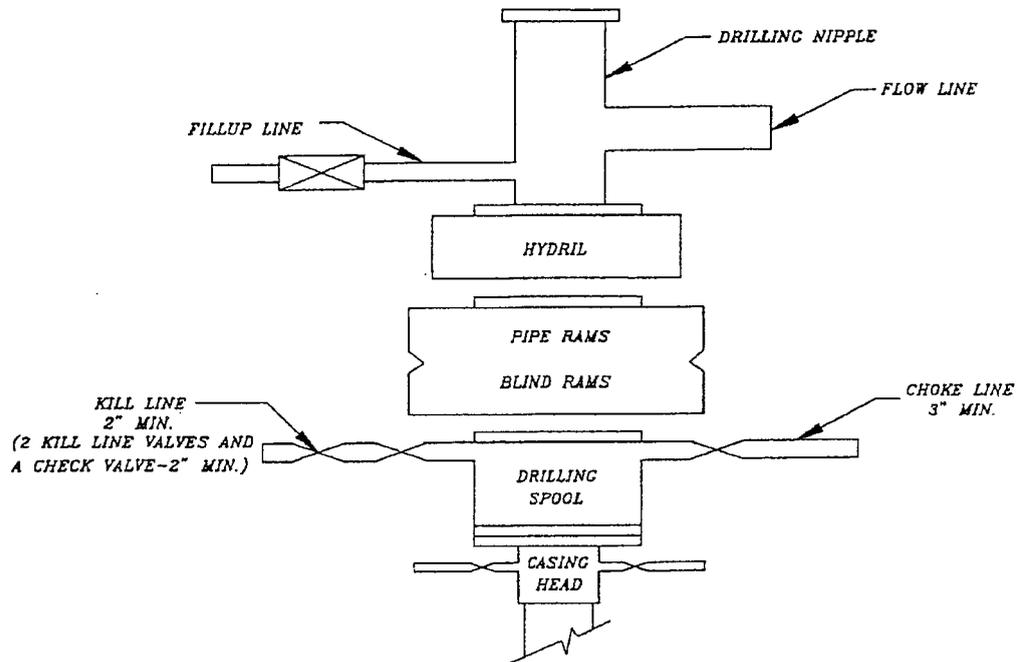
SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe.
PRODUCTION	Float shoe, 1 jt, float collar. Centralize first 3 joints & every third joint to top of tail cement with bow spring centralizers.

**ADDITIONAL INFORMATION**

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

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

# 5M BOP STACK and CHOKE MANIFOLD SYSTEM





**Weatherford<sup>®</sup>**

**Drilling Services**

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**Proposal**

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**ANADARKO - KERR McGEE**

NBU 922-18E3BS

UINTAH COUNTY, UTAH

WELL FILE: PLAN 1

DATE: SEPTEMBER 26, 2007

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**Weatherford International, Ltd.**

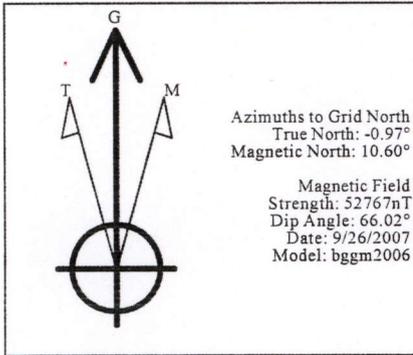
15710 John F. Kennedy Blvd

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	298.89	0.00	0.00	0.00	0.00	0.00	0.00		
2	2800.00	0.00	298.89	2800.00	0.00	0.00	0.00	0.00	0.00		
3	3995.91	29.90	298.89	3942.37	147.36	-267.04	2.50	298.89	305.00		
4	4519.24	29.90	298.89	4396.05	273.40	-495.43	0.00	0.00	565.86		
5	6512.41	0.00	298.89	6300.00	519.00	-940.50	1.50	180.00	1074.20		
6	10092.41	0.00	298.89	9880.00	519.00	-940.50	0.00	298.89	1074.20	PBHL	

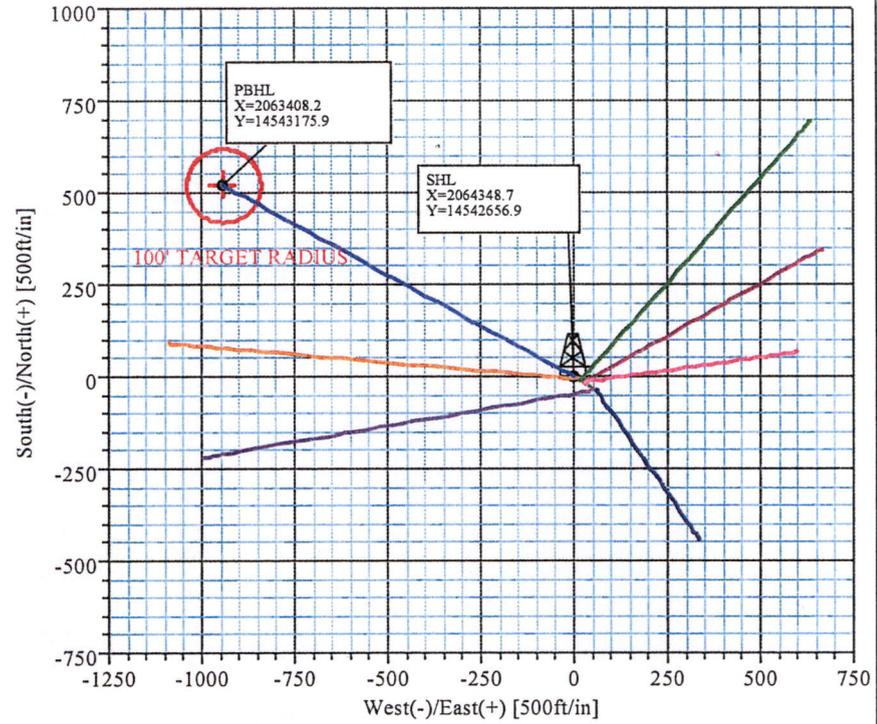
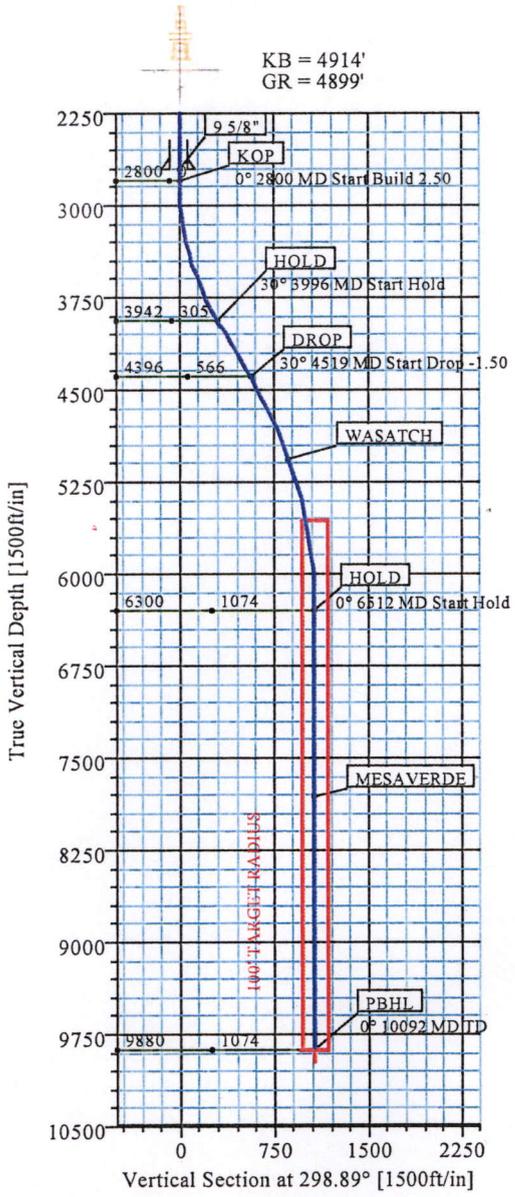
WELL DETAILS							
Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
18E3BS	0.00	0.00	14542656.90	2064348.70	40°02'08.602N	109°29'07.849W	N/A

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

FORMATION TOP DETAILS			
No.	TVDPath	MDPath	Formation
1	5061.00	5250.59	WASATCH
2	7813.00	8025.41	MESAVERDE

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

LEGEND	
<span style="color: red;">—</span>	18E3CS (1)
<span style="color: green;">—</span>	18F4BS (1)
<span style="color: blue;">—</span>	18F4CS (1)
<span style="color: red;">—</span>	18K1BS (1)
<span style="color: green;">—</span>	18K2 (1)
<span style="color: blue;">—</span>	18K2DS (1)
<span style="color: purple;">—</span>	18L2BS (1)
<span style="color: blue;">—</span>	Plan #1 18E3BS



# Weatherford Drilling Services

## DIRECTIONAL PLAN REPORT



<b>Company:</b> Anadarko-Kerr-McGee	<b>Date:</b> 9/28/2007	<b>Time:</b> 09:44:47	<b>Page:</b> 1
<b>Field:</b> UINTAH COUNTY, UTAH (UTM Zone 12N-NAD 27)	<b>Co-ordinate(NE) Reference:</b> Site: NBU 922-18E3BS PAD EFKL, Grid Nort		
<b>Site:</b> NBU 922-18E3BS PAD EFKL	<b>Vertical (TVD) Reference:</b> SITE 4914.0		
<b>Well:</b> 18E3BS	<b>Section (VS) Reference:</b> Well (0.00N,0.00E,298.89Azi)		
<b>Wellpath:</b> 1	<b>Survey Calculation Method:</b> Minimum Curvature	<b>Db:</b> Sybase	

<b>Plan:</b> Plan #1 18E3BS	<b>Date Composed:</b> 9/26/2007	
<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 922-18E3BS PAD EFKL

2546 FSL, 1223 FWL - SEC18 T9S R22E

<b>Site Position:</b>	<b>Northing:</b> 14542656.90 ft	<b>Latitude:</b> 40 2 8.602 N	
<b>From:</b> Map	<b>Easting:</b> 2064348.70 ft	<b>Longitude:</b> 109 29 7.849 W	
<b>Position Uncertainty:</b> 0.00 ft		<b>North Reference:</b> Grid	
<b>Ground Level:</b> 4899.00 ft		<b>Grid Convergence:</b> 0.97 deg	

<b>Well:</b> 18E3BS	<b>Slot Name:</b>
<b>Well Position:</b>	
+N/-S 0.00 ft	<b>Northing:</b> 14542656.90 ft
+E/-W 0.00 ft	<b>Easting:</b> 2064348.70 ft
<b>Position Uncertainty:</b> 0.00 ft	<b>Latitude:</b> 40 2 8.602 N
	<b>Longitude:</b> 109 29 7.849 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> 9/26/2007	<b>Above System Datum:</b> Mean Sea Level
<b>Field Strength:</b> 52767 nT	<b>Declination:</b> 11.57 deg
<b>Vertical Section:</b> Depth From (TVD)	<b>Mag Dip Angle:</b> 66.02 deg
ft	+N/-S
ft	+E/-W
ft	Direction
ft	deg
0.00	0.00
0.00	0.00
0.00	298.89

**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	298.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2800.00	0.00	298.89	2800.00	0.00	0.00	0.00	0.00	0.00	0.00	
3995.91	29.90	298.89	3942.37	147.36	-267.04	2.50	2.50	0.00	298.89	
4519.24	29.90	298.89	4396.05	273.40	-495.43	0.00	0.00	0.00	0.00	
6512.41	0.00	298.89	6300.00	519.00	-940.50	1.50	-1.50	0.00	180.00	
10092.41	0.00	298.89	9880.00	519.00	-940.50	0.00	0.00	0.00	298.89	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
2800.00	0.00	298.89	2800.00	0.00	0.00	0.00	0.00	14542656.90	2064348.70	KOP
2900.00	2.50	298.89	2899.97	1.05	-1.91	2.18	2.50	14542657.95	2064346.79	
3000.00	5.00	298.89	2999.75	4.21	-7.64	8.72	2.50	14542661.11	2064341.06	
3100.00	7.50	298.89	3099.14	9.47	-17.17	19.61	2.50	14542666.37	2064331.53	
3200.00	10.00	298.89	3197.97	16.82	-30.48	34.82	2.50	14542673.72	2064318.22	
3300.00	12.50	298.89	3296.04	26.25	-47.56	54.33	2.50	14542683.15	2064301.14	
3400.00	15.00	298.89	3393.17	37.73	-68.37	78.09	2.50	14542694.63	2064280.33	
3500.00	17.50	298.89	3489.17	51.25	-92.87	106.07	2.50	14542708.15	2064255.83	
3600.00	20.00	298.89	3583.85	66.78	-121.01	138.21	2.50	14542723.68	2064227.69	
3700.00	22.50	298.89	3677.05	84.29	-152.74	174.46	2.50	14542741.19	2064195.96	
3800.00	25.00	298.89	3768.57	103.75	-188.00	214.73	2.50	14542760.65	2064160.70	
3900.00	27.50	298.89	3858.25	125.11	-226.72	258.95	2.50	14542782.01	2064121.98	
3995.91	29.90	298.89	3942.37	147.36	-267.04	305.00	2.50	14542804.26	2064081.66	HOLD
4000.00	29.90	298.89	3945.92	148.35	-268.83	307.04	0.00	14542805.25	2064079.87	
4100.00	29.90	298.89	4032.61	172.43	-312.47	356.89	0.00	14542829.33	2064036.23	

# Weatherford Drilling Services

## DIRECTIONAL PLAN REPORT



<b>Company:</b> Anadarko-Kerr-McGee <b>Field:</b> UINTAH COUNTY, UTAH (UTM Zone 12N-NAD 27) <b>Site:</b> NBU 922-18E3BS PAD EFKL <b>Well:</b> 18E3BS <b>Wellpath:</b> 1	<b>Date:</b> 9/28/2007 <b>Co-ordinate(NE) Reference:</b> <b>Vertical (TVD) Reference:</b> <b>Section (VS) Reference:</b> <b>Survey Calculation Method:</b>	<b>Time:</b> 09:44:47 <b>Site:</b> NBU 922-18E3BS PAD EFKL, Grid North SITE 4914.0 Well (0.00N,0.00E,298.89Azi) Minimum Curvature	<b>Page:</b> 2 <b>Db:</b> Sybase
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**Survey**

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	MapN ft	MapE ft	Comment
4200.00	29.90	298.89	4119.30	196.51	-356.11	406.73	0.00	14542853.41	2063992.59	
4300.00	29.90	298.89	4205.99	220.60	-399.75	456.58	0.00	14542877.50	2063948.95	
4400.00	29.90	298.89	4292.68	244.68	-443.39	506.43	0.00	14542901.58	2063905.31	
4500.00	29.90	298.89	4379.38	268.76	-487.04	556.27	0.00	14542925.66	2063861.66	
4519.24	29.90	298.89	4396.05	273.40	-495.43	565.86	0.00	14542930.30	2063853.27	DROP
4600.00	28.69	298.89	4466.49	292.49	-530.03	605.37	1.50	14542949.39	2063818.67	
4700.00	27.19	298.89	4554.83	315.12	-571.04	652.22	1.50	14542972.02	2063777.66	
4800.00	25.69	298.89	4644.37	336.63	-610.02	696.74	1.50	14542993.53	2063738.68	
4900.00	24.19	298.89	4735.05	357.00	-646.93	738.90	1.50	14543013.90	2063701.77	
5000.00	22.69	298.89	4826.80	376.22	-681.75	778.67	1.50	14543033.12	2063666.95	
5100.00	21.19	298.89	4919.55	394.26	-714.46	816.03	1.50	14543051.16	2063634.24	
5200.00	19.69	298.89	5013.26	411.13	-745.03	850.94	1.50	14543068.03	2063603.67	
5250.59	18.93	298.89	5061.00	419.21	-759.68	867.67	1.50	14543076.11	2063589.02	WASATCH
5300.00	18.19	298.89	5107.84	426.81	-773.44	883.39	1.50	14543083.71	2063575.26	
5400.00	16.69	298.89	5203.24	441.29	-799.68	913.36	1.50	14543098.19	2063549.02	
5500.00	15.19	298.89	5299.40	454.55	-823.72	940.81	1.50	14543111.45	2063524.98	
5600.00	13.69	298.89	5396.24	466.60	-845.54	965.74	1.50	14543123.50	2063503.16	
5700.00	12.19	298.89	5493.70	477.41	-865.14	988.13	1.50	14543134.31	2063483.56	
5800.00	10.69	298.89	5591.71	486.99	-882.50	1007.95	1.50	14543143.89	2063466.20	
5900.00	9.19	298.89	5690.21	495.33	-897.61	1025.21	1.50	14543152.23	2063451.09	
6000.00	7.69	298.89	5789.12	502.42	-910.45	1039.88	1.50	14543159.32	2063438.25	
6100.00	6.19	298.89	5888.39	508.25	-921.03	1051.96	1.50	14543165.15	2063427.67	
6200.00	4.69	298.89	5987.93	512.83	-929.32	1061.43	1.50	14543169.73	2063419.38	
6300.00	3.19	298.89	6087.70	516.15	-935.33	1068.29	1.50	14543173.05	2063413.37	
6400.00	1.69	298.89	6187.60	518.20	-939.05	1072.54	1.50	14543175.10	2063409.65	
6500.00	0.19	298.89	6287.59	518.99	-940.48	1074.18	1.50	14543175.89	2063408.22	
6512.41	0.00	298.89	6300.00	519.00	-940.50	1074.20	1.50	14543175.90	2063408.20	HOLD
6600.00	0.00	298.89	6387.59	519.00	-940.50	1074.20	0.00	14543175.90	2063408.20	
6700.00	0.00	298.89	6487.59	519.00	-940.50	1074.20	0.00	14543175.90	2063408.20	
6800.00	0.00	298.89	6587.59	519.00	-940.50	1074.20	0.00	14543175.90	2063408.20	
6900.00	0.00	298.89	6687.59	519.00	-940.50	1074.20	0.00	14543175.90	2063408.20	
7000.00	0.00	298.89	6787.59	519.00	-940.50	1074.20	0.00	14543175.90	2063408.20	
7100.00	0.00	298.89	6887.59	519.00	-940.50	1074.20	0.00	14543175.90	2063408.20	
7200.00	0.00	298.89	6987.59	519.00	-940.50	1074.20	0.00	14543175.90	2063408.20	
7300.00	0.00	298.89	7087.59	519.00	-940.50	1074.20	0.00	14543175.90	2063408.20	
7400.00	0.00	298.89	7187.59	519.00	-940.50	1074.20	0.00	14543175.90	2063408.20	
7500.00	0.00	298.89	7287.59	519.00	-940.50	1074.20	0.00	14543175.90	2063408.20	
7600.00	0.00	298.89	7387.59	519.00	-940.50	1074.20	0.00	14543175.90	2063408.20	
7700.00	0.00	298.89	7487.59	519.00	-940.50	1074.20	0.00	14543175.90	2063408.20	
7800.00	0.00	298.89	7587.59	519.00	-940.50	1074.20	0.00	14543175.90	2063408.20	
7900.00	0.00	298.89	7687.59	519.00	-940.50	1074.20	0.00	14543175.90	2063408.20	
8000.00	0.00	298.89	7787.59	519.00	-940.50	1074.20	0.00	14543175.90	2063408.20	
8025.41	0.00	298.89	7813.00	519.00	-940.50	1074.20	0.00	14543175.90	2063408.20	MESAVERDE
8100.00	0.00	298.89	7887.59	519.00	-940.50	1074.20	0.00	14543175.90	2063408.20	
8200.00	0.00	298.89	7987.59	519.00	-940.50	1074.20	0.00	14543175.90	2063408.20	
8300.00	0.00	298.89	8087.59	519.00	-940.50	1074.20	0.00	14543175.90	2063408.20	
8400.00	0.00	298.89	8187.59	519.00	-940.50	1074.20	0.00	14543175.90	2063408.20	
8500.00	0.00	298.89	8287.59	519.00	-940.50	1074.20	0.00	14543175.90	2063408.20	
8600.00	0.00	298.89	8387.59	519.00	-940.50	1074.20	0.00	14543175.90	2063408.20	
8700.00	0.00	298.89	8487.59	519.00	-940.50	1074.20	0.00	14543175.90	2063408.20	
8800.00	0.00	298.89	8587.59	519.00	-940.50	1074.20	0.00	14543175.90	2063408.20	
8900.00	0.00	298.89	8687.59	519.00	-940.50	1074.20	0.00	14543175.90	2063408.20	
9000.00	0.00	298.89	8787.59	519.00	-940.50	1074.20	0.00	14543175.90	2063408.20	

# Weatherford Drilling Services

## DIRECTIONAL PLAN REPORT



<b>Company:</b> Anadarko-Kerr-McGee <b>Field:</b> UINTAH COUNTY, UTAH (UTM Zone 12N-NAD 27) <b>Site:</b> NBU 922-18E3BS PAD EFKL <b>Well:</b> 18E3BS <b>Wellpath:</b> 1	<b>Date:</b> 9/28/2007 <b>Co-ordinate(NE) Reference:</b> <b>Vertical (TVD) Reference:</b> <b>Section (VS) Reference:</b> <b>Survey Calculation Method:</b>	<b>Time:</b> 09:44:47 <b>Site:</b> NBU 922-18E3BS PAD EFKL, Grid Nort SITE 4914.0 <b>Well (0.00N,0.00E,298.89Azi)</b> <b>Minimum Curvature</b>	<b>Page:</b> 3 <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
9100.00	0.00	298.89	8887.59	519.00	-940.50	1074.20	0.00	14543175.90	2063408.20	
9200.00	0.00	298.89	8987.59	519.00	-940.50	1074.20	0.00	14543175.90	2063408.20	
9300.00	0.00	298.89	9087.59	519.00	-940.50	1074.20	0.00	14543175.90	2063408.20	
9400.00	0.00	298.89	9187.59	519.00	-940.50	1074.20	0.00	14543175.90	2063408.20	
9500.00	0.00	298.89	9287.59	519.00	-940.50	1074.20	0.00	14543175.90	2063408.20	
9600.00	0.00	298.89	9387.59	519.00	-940.50	1074.20	0.00	14543175.90	2063408.20	
9700.00	0.00	298.89	9487.59	519.00	-940.50	1074.20	0.00	14543175.90	2063408.20	
9800.00	0.00	298.89	9587.59	519.00	-940.50	1074.20	0.00	14543175.90	2063408.20	
9900.00	0.00	298.89	9687.59	519.00	-940.50	1074.20	0.00	14543175.90	2063408.20	
10000.00	0.00	298.89	9787.59	519.00	-940.50	1074.20	0.00	14543175.90	2063408.20	
10092.41	0.00	298.89	9880.00	519.00	-940.50	1074.20	0.00	14543175.90	2063408.20	PBHL

### Targets

Name	Description Dip. Dir.	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	<--- Latitude --->			<--- Longitude --->				
							Deg	Min	Sec	Deg	Min	Sec		
PBHL		9880.00	519.00	-940.50	14543175.90	2063408.20	40	2	13.889	N	109	29	19.827	W
	-Circle (Radius: 100)													
	-Plan hit target													

### Casing Points

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

### Annotation

MD ft	TVD ft	
2800.00	2800.00	KOP
3995.91	3942.37	HOLD
4519.24	4396.06	DROP
6512.41	6300.00	HOLD
10092.41	9880.00	PBHL

### Formations

MD ft	TVD ft	Formations	Lithology	Dip Angle deg	Dip Direction deg
5250.59	5061.00	WASATCH		0.00	0.00
8025.41	7813.00	MESAVERDE		0.00	0.00



**Weatherford**

**Weatherford Drilling Services**

GeoDec v4.1.130

Report Date: September 26, 2007  
 Job Number: \_\_\_\_\_  
 Customer: ANADARKO-KERR McGEE  
 Well Name: NBU 922-18E3BS  
 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 14542656.900 USFT	Latitude 40 2 8.6023139 DMS
East/West 2064348.700 USFT	Longitude -109 29 7.8487809 DMS
Grid Convergence: .97440860°	
Total Correction: +10.5946°	

Geodetic Location WGS84                      Elevation = 1493.0 Meters  
 Latitude =        40.03572° N                      40° 2 min 8.602 sec  
 Longitude =      109.48551° W                      109° 29 min 7.849 sec

Magnetic Declination =	+11.5690°	[True North Offset]	
Local Gravity =	.9995 g		
Local Field Strength=	52728 nT	Mag Vector X =	20993 nT
Dip =	66.0210°	Mag Vector Y =	4297 nT
Model File:	bggm2006	Mag Vector Z =	48177 nT
Spud Date:	Sep 26, 2007	Mag Vector H =	21428 nT

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

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

NBU 922-18E3BS  
NE/SW SEC. 18, T9S, R22E  
UINTAH COUNTY, UTAH  
UTU-0359

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 0.15 +/- 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 3394' +/- of 10" steel pipeline is proposed from the location to an existing pipeline. 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 Upchego  
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

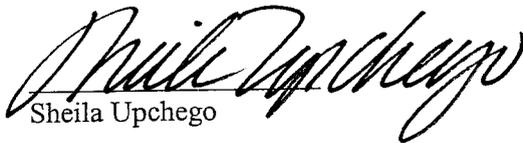
Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

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 Upchego

11/8/2007

Date

**Kerr-McGee Oil & Gas Onshore LP**  
**NBU #922-18K2,K2DS, K1BS, E3CS, E3S, K2BS,**  
**F4CS, & F4BS**  
**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 6.9 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHEAST; TURN LEFT AND PROCEED IN A SOUTHEASTERLY, THEN EASTERLY DIRECTION APPROXIMATELY 5.0 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHWEST; TURN LEFT AND PROCEED IN A NORTHWESTERLY DIRECTION APPROXIMATELY 0.3 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHEAST; TURN RIGHT AND PROCEED IN A NORTHEASTERLY DIRECTION APPROXIMATELY 3.9 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHEAST; PROCEED IN A NORTHEASTERLY DIRECTION APPROXIMATELY 1.6 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHWEST; TURN LEFT AND PROCEED IN A NORTHWESTERLY DIRECTION APPROXIMATELY 0.8 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHEAST; TURN RIGHT AND PROCEED IN A NORTHEASTERLY DIRECTION APPROXIMATELY 0.1 MILES TO THE BEGINNING OF THE PROPOSED ACCESS FOR THE #922-18E2 TO THE SOUTHEAST; FOLLOW ROAD FLAGS IN A SOUTHEASTERLY DIRECTION APPROXIMATELY 150' TO THE PROPOSED #922-18E2 AND THE BEGINNING OF THE PROPOSED ACCESS TO THE SOUTHEAST; FOLLOW ROAD FLAGS IN A SOUTHEASTERLY DIRECTION APPROXIMATELY 0.15 MILES TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 49.75 MILES.

# Kerr-McGee Oil & Gas Onshore LP

NBU #922-18K2, K2DS, K1BS, E3CS, E3BS, K2BS, F4CS, & F4BS  
LOCATED IN UINTAH COUNTY, UTAH  
SECTION 18, T9S, R22E, S.L.B.&M.

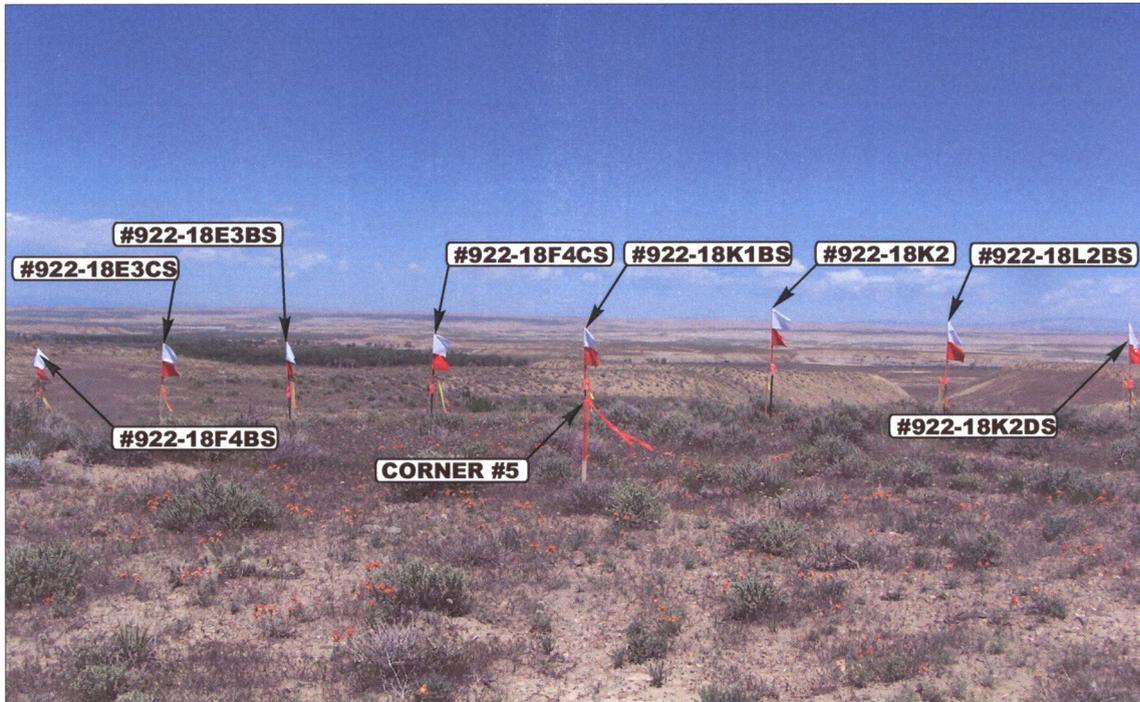


PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKES

CAMERA ANGLE: NORTHEASTERLY



PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

CAMERA ANGLE: SOUTHEASTERLY



- Since 1964 -

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

LOCATION PHOTOS

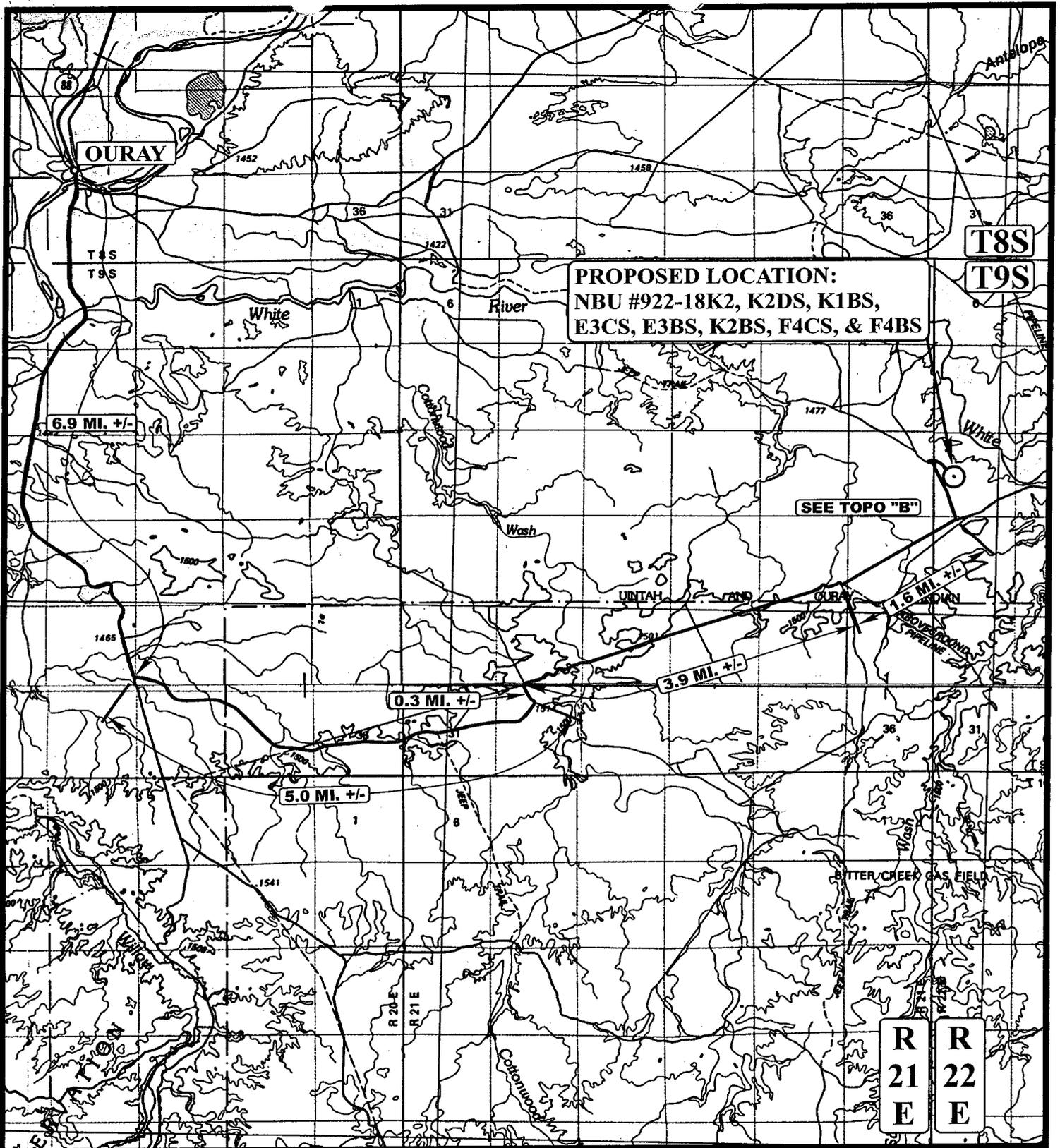
05 16 07  
MONTH DAY YEAR

PHOTO

TAKEN BY: L.K.

DRAWN BY: B.C.

REVISED: 11-05-07C.P.



**PROPOSED LOCATION:**  
 NBU #922-18K2, K2DS, K1BS,  
 E3CS, E3BS, K2BS, F4CS, & F4BS

SEE TOPO "B"

**LEGEND:**

○ PROPOSED LOCATION

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

NBU #922-18K2, K2DS, K1BS, E3CS,  
 E3BS, K2BS, F4CS, & F4BS  
 SECTION 18, T9S, R22E, S.L.B.&M.  
 NE 1/4 SW 1/4



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

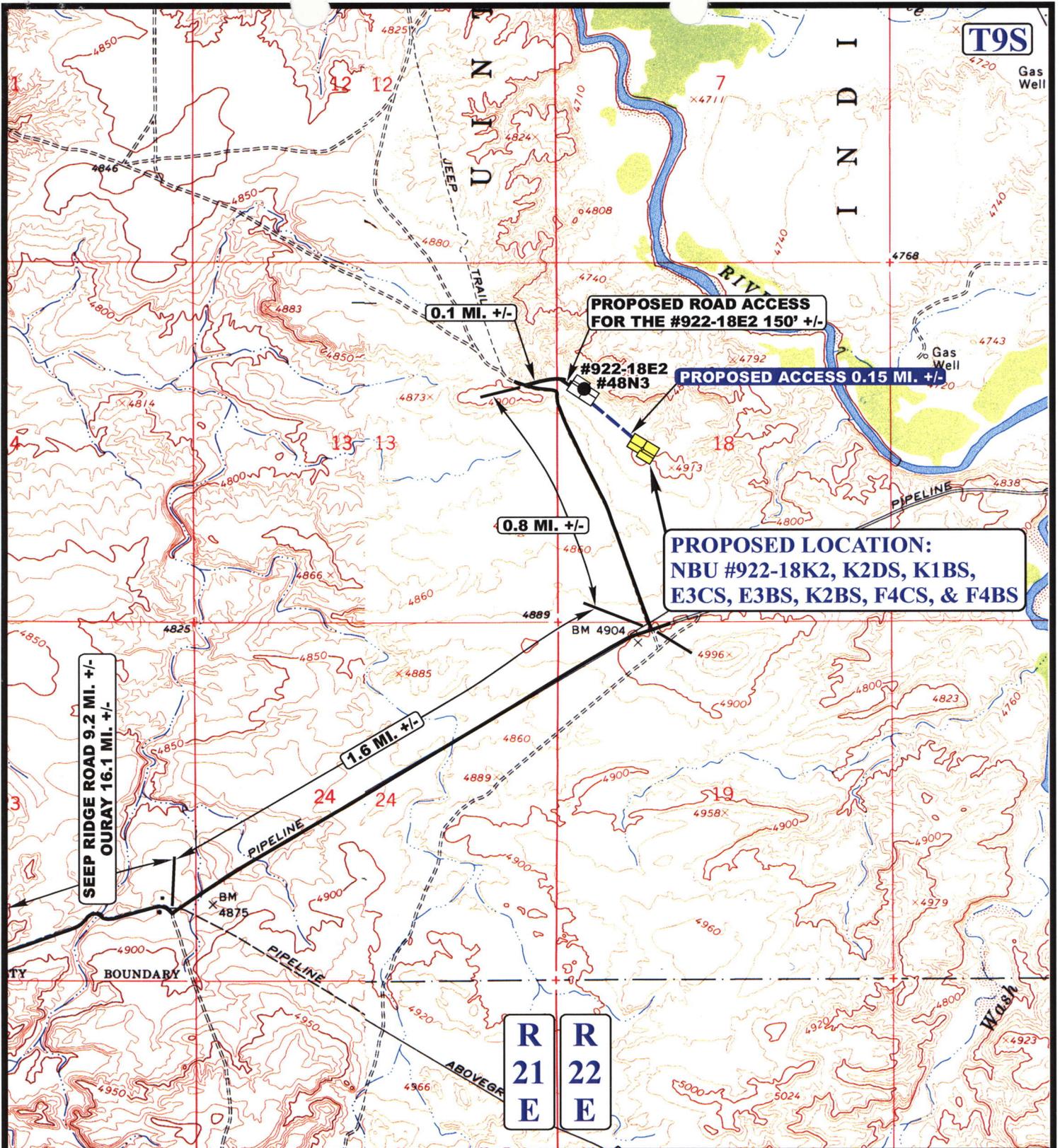


**TOPOGRAPHIC**  
**MAP**

**05 16 07**  
 MONTH DAY YEAR

SCALE: 1:100,000 DRAWN BY: B.C. REVISED: 11-05-07C.P.





**LEGEND:**

-  EXISTING ROAD
-  PROPOSED ACCESS ROAD

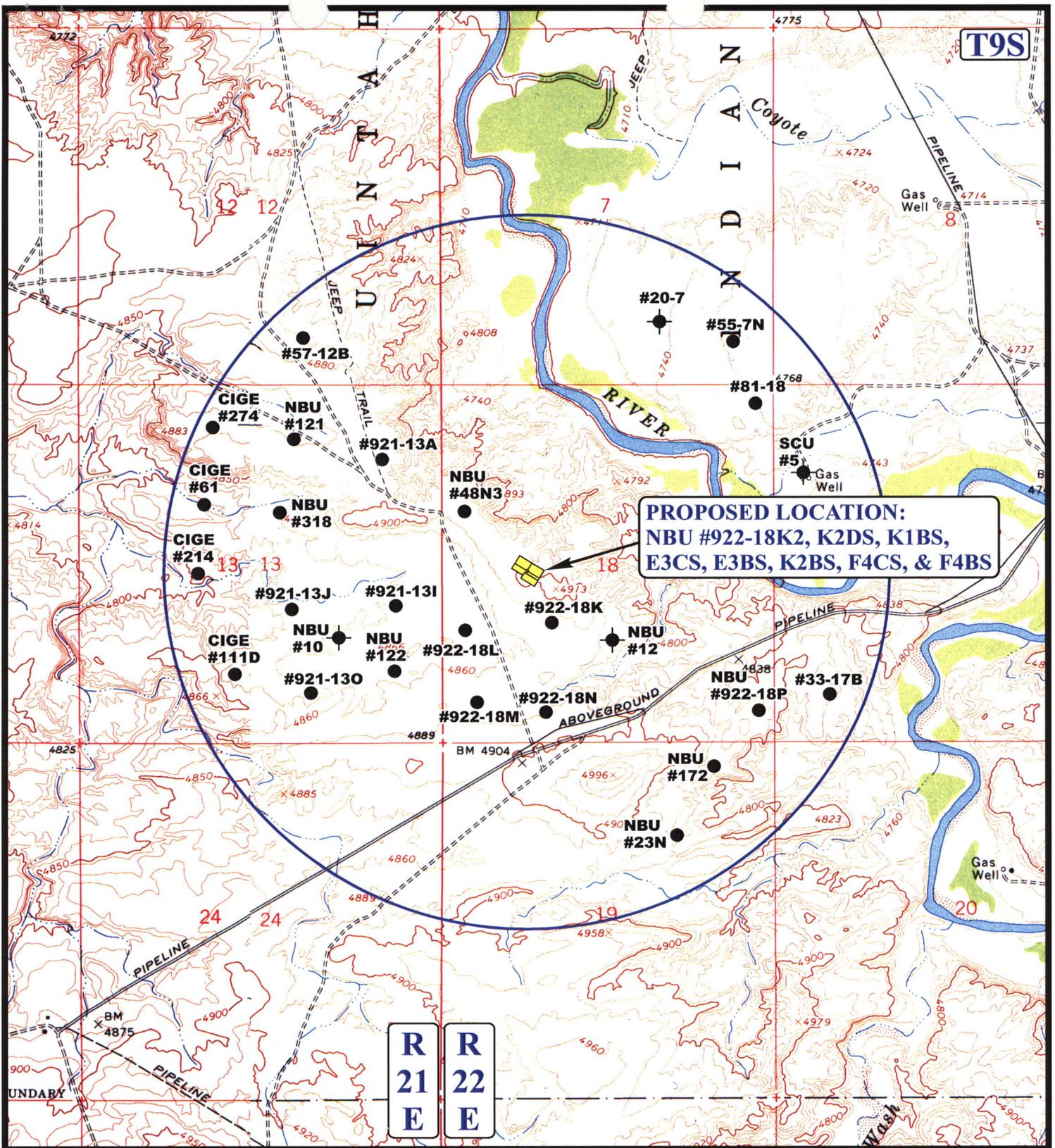
**Kerr-McGee Oil & Gas Onshore LP**

NBU #922-18K2, K2DS, K1BS, E3CS,  
E3BS, K2BS, F4CS, & F4BS  
SECTION 18, T9S, R22E, S.L.B.&M.  
NE 1/4 SW 1/4

**U&Ls** 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: B.C. REVISED: 11-05-07C.P. **B TOPO**



**PROPOSED LOCATION:**  
**NBU #922-18K2, K2DS, K1BS,**  
**E3CS, E3BS, K2BS, F4CS, & F4BS**

**LEGEND:**

- ⊗ DISPOSAL WELLS
- PRODUCING WELLS
- ⊖ SHUT IN WELLS
- ⊗ WATER WELLS
- ABANDONED WELLS
- TEMPORARILY ABANDONED

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

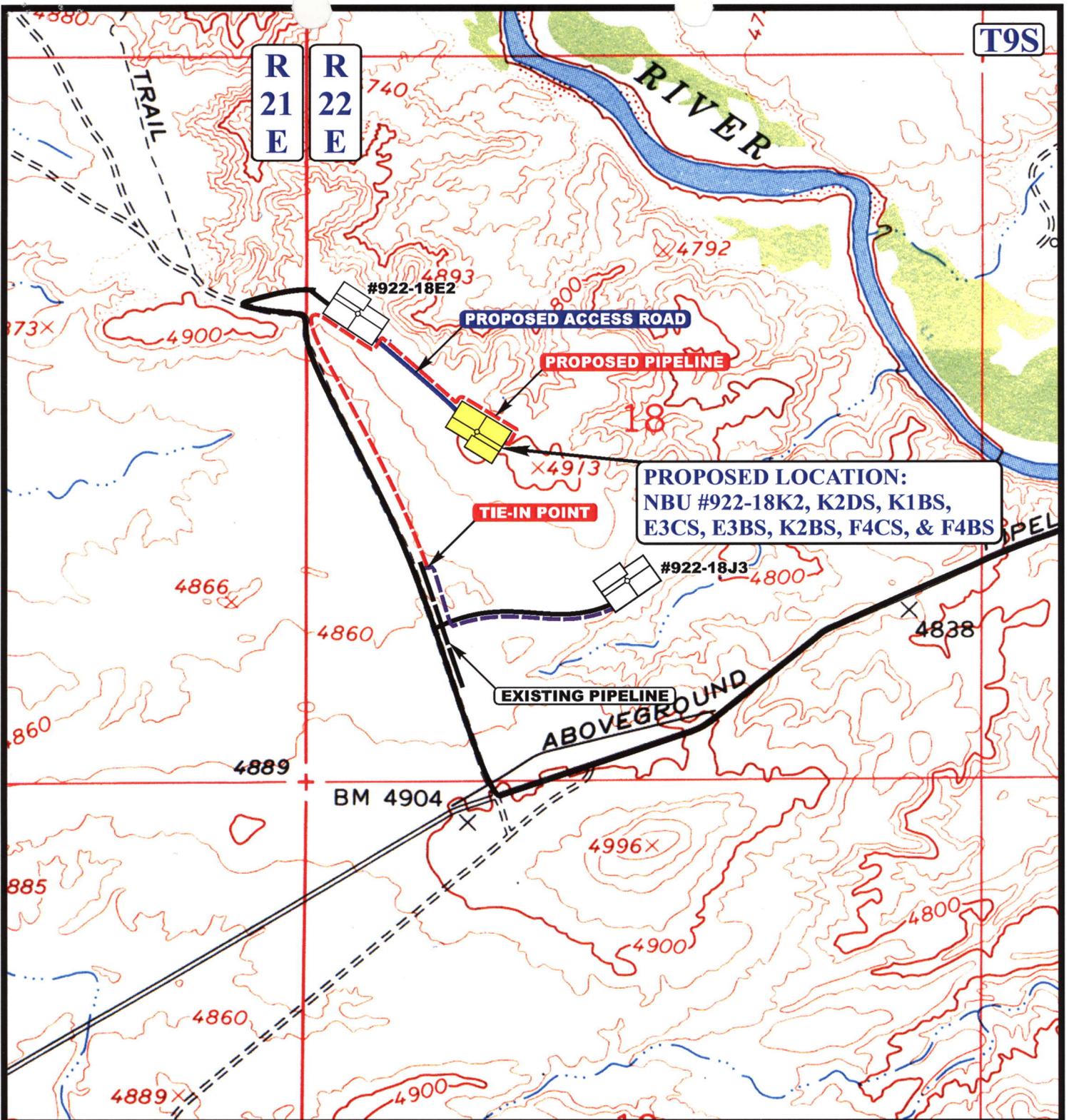
NBU #922-18K2, K2DS, K1BS, E3CS,  
 E3BS, K2BS, F4CS, & F4BS  
 SECTION 18, T9S, R22E, S.L.B.&M.  
 NE 1/4 SW 1/4

**UELS**  
**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: B.C. REVISED: 11-05-07C.P.





**APPROXIMATE TOTAL 10" PIPELINE DISTANCE = 3,394' +/-**

**LEGEND:**

- PROPOSED ACCESS ROAD
- EXISTING PIPELINE
- PROPOSED PIPELINE
- PROPOSED PIPELINE (SERVICING OTHER WELLS)

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

NBU #922-18K2, K2DS, K1BS, E3CS,  
 E3BS, K2BS, F4CS, & F4BS  
 SECTION 18, T9S, R22E, S.L.B.&M.  
 NE 1/4 SW 1/4



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



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

SCALE: 1" = 1000' DRAWN BY: B.C. REVISED: 11-05-07C.P.



**Kerr-McGee Oil & Gas Onshore LP**  
**NBU #922-18K2, K2DS, K1BS, E3CS, E3BS, K2BS, F4CS, & F4BS**  
**PIPELINE ALIGNMENT**  
**LOCATED IN UINTAH COUNTY, UTAH**  
**SECTION 18, T9S, R22E, S.L.B.&M.**



**PHOTO: VIEW OF TIE-IN POINT**

**CAMERA ANGLE: SOUTHEASTERLY**



**PHOTO: VIEW OF PIPELINE ALIGNMENT**

**CAMERA ANGLE: SOUTHEASTERLY**



- Since 1964 -

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

<b>PIPELINE PHOTOS</b>	<b>05</b> MONTH	<b>16</b> DAY	<b>07</b> YEAR	<b>PHOTO</b>
TAKEN BY: L.K.	DRAWN BY: B.C.		REVISED: 11-05-07C.P.	



Kerr-McGee Oil & Gas Onshore LP

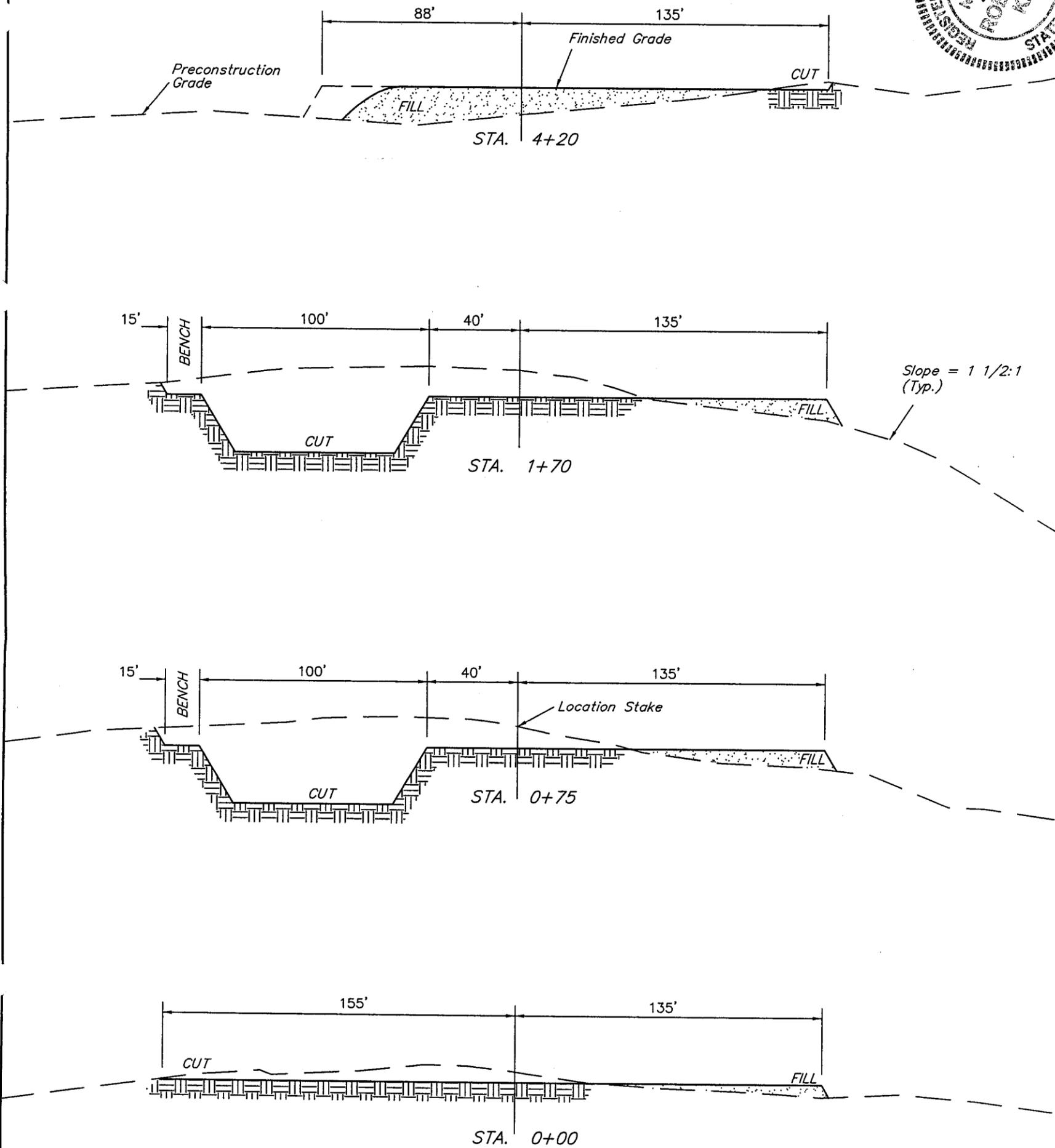
TYPICAL CROSS SECTIONS FOR

NBU #922-18K2, K2DS, K1BS, E3CS, E3BS, K2BS, F4CS, & F4BS  
SECTION 18, T9S, R22E, S.L.B.&M.  
NE 1/4 SW 1/4

FIGURE #2

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

DATE: 05-22-07  
Drawn By: C.H.  
REV: 11-02-07



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

\* NOTE:  
FILL QUANTITY INCLUDES 5% FOR COMPACTION

APPROXIMATE YARDAGES

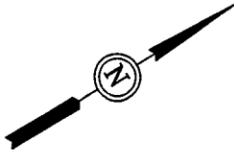
CUT  
(12") Topsoil Stripping = 4,490 Cu. Yds.  
Remaining Location = 11,170 Cu. Yds.  
TOTAL CUT = 15,660 CU.YDS.  
FILL = 7,940 CU.YDS.

EXCESS MATERIAL = 7,720 Cu. Yds.  
Topsoil & Pit Backfill (1/2 Pit Vol.) = 7,720 Cu. Yds.  
EXCESS UNBALANCE = 0 Cu. Yds. (After Interim Rehabilitation)

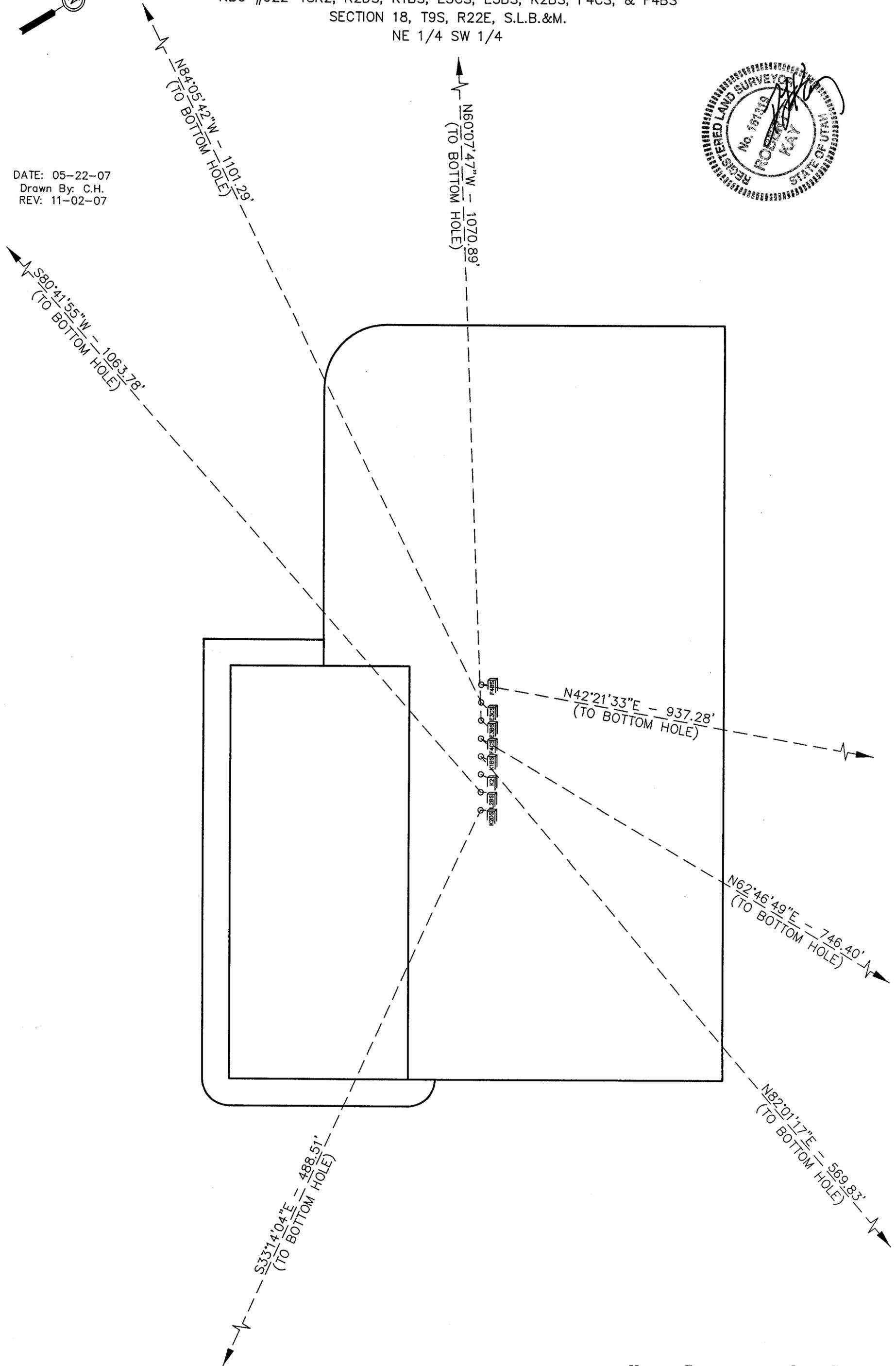
Kerr-McGee Oil & Gas Onshore LP

SITE PLAN LAYOUT FOR

NBU #922-18K2, K2DS, K1BS, E3CS, E3BS, K2BS, F4CS, & F4BS  
SECTION 18, T9S, R22E, S.L.B.&M.  
NE 1/4 SW 1/4



DATE: 05-22-07  
Drawn By: C.H.  
REV: 11-02-07



**WORKSHEET  
APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 12/03/2007

API NO. ASSIGNED: 43-047-39803

WELL NAME: NBU 922-18E3BS  
 OPERATOR: KERR-MCGEE OIL & GAS ( N2995 )  
 CONTACT: SHEILA UPCHEGO

PHONE NUMBER: 435-781-7024

PROPOSED LOCATION:

*Surface*

NESW 18 090S 220E  
 SURFACE: 2535 FSL 1240 FWL  
 BOTTOM: 2206 FNL 0294 FWL  
 COUNTY: UINTAH  
 LATITUDE: 40.03570 LONGITUDE: -109.4855  
 UTM SURF EASTINGS: 629219 NORTHINGS: 4432608  
 FIELD NAME: NATURAL BUTTES ( 630 )

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

LEASE TYPE: 1 - Federal  
 LEASE NUMBER: UTU-0359  
 SURFACE OWNER: 2 - Indian

PROPOSED FORMATION: WSMVD  
 COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

- Plat
- Bond: Fed[1] Ind[] Sta[] Fee[]  
(No. RLB0005239 )
- Potash (Y/N)
- Oil Shale 190-5 (B) or 190-3 or 190-13
- Water Permit  
(No. 43-8496 )
- RDCC Review (Y/N)  
(Date: \_\_\_\_\_ )
- Fee Surf Agreement (Y/N)
- Intent to Commingle (Y/N)

LOCATION AND SITING:

- R649-2-3.
- Unit: NATURAL BUTTES
- R649-3-2. General  
Siting: 460' From Qtr/Qtr & 920' Between Wells
- R649-3-3. Exception
- Drilling Unit  
Board Cause No: 173-14  
Eff Date: 12-2-1999  
Siting: 460' fr uldrg & uncomm. Tracts
- R649-3-11. Directional Drill

COMMENTS: Sup, Separate file

STIPULATIONS: 1- Federal Approval  
2- OIL SHALE



# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Utah State Office

P.O. Box 45155

Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:

3160

(UT-922)

December 10, 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)

43-047-39803 NBU 922-18E3BS Sec 18 T09S R22E 2535 FSL 1240 FWL  
BHL Sec 18 T09S R22E 2206 FNL 0294 FWL

43-047-39804 NBU 922-18D3DS Sec 18 T09S R22E 1864 FNL 0346 FWL  
BHL Sec 18 T09S R22E 1230 FNL 0385 FWL

43-047-39805 NBU 922-18F4BS Sec 18 T09S R22E 2545 FSL 1223 FWL  
BHL Sec 18 T09S R22E 2060 FSL 1871 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:12-10-07



Kerr-McGee Oil & Gas Onshore LP  
PO Box 173779  
Denver, CO 80217

August 13, 2008

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

Re: Directional Drilling R649-3-11  
NBU 922-18E3BS  
T9S R22E  
Section 18: SWNW  
NESW, 2535' FSL, 1240' FWL (surface)  
SWNW, 2206' FNL, 294' FWL (bottom hole)  
Uintah County, Utah

Dear Mrs. Mason:

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

- Kerr-McGee's NBU 922-18E3BS is located within the Natural Buttes Unit area.
- Kerr-McGee is permitting this well as a directional well in order to minimize surface disturbance. Locating the well at the surface location and directionally drilling from this location, Kerr-McGee will be able to utilize the existing road and pipelines in the area.
- Furthermore, Kerr-McGee certifies that it is the sole working interest owner within 460 feet of the entire directional well bore and the W/2, W/2NE/4 and SE/4 of Section 18 (federal leases USA UTU-0359, USA-UTU 0359-A and USA-UTU 0461).

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

Sincerely,

KERR-MCGEE OIL & GAS ONSHORE LP

A handwritten signature in black ink, appearing to read 'James C. Colligan III', with a stylized flourish at the end.

James C. Colligan III  
Landman



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

August 20, 2008

Kerr-McGee Oil and Gas Onshore LP  
1368 S 1200 E  
Vernal, UT 84078

Re: NBU 922-18E3BS Well, Surface Location 2535' FSL, 1240' FWL, NE SW, Sec. 18, T. 9 South, R. 22 East, Bottom Location 2206' FNL, 294' FWL, SW NW, 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 43-047-39803.

Sincerely,

Gil Hunt  
Associate Director

pab  
Enclosures

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

**Operator:** Kerr-McGee Oil and Gas Onshore LP  
**Well Name & Number** NBU 922-18E3BS  
**API Number:** 43-047-39803  
**Lease:** UTU-0359

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

### Conditions of Approval

#### 1. General

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

#### 2. Notification Requirements

Notify the Division with 24 hours of spudding the well.

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

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

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

#### 3. Reporting Requirements

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

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

RECEIVED

NOV - 9 2007

FORM APPROVED  
OMB No. 1004-0136

Expires November 30, 2000

**BLM**

Form 3160-3  
(August 1999)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED  
VERNAL FIELD OFFICE  
2007 NOV 28 PM 1:03  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work:  DRILL  REENTER

5. Lease Serial No.  
**UTU-0359**

b. Type of Well:  Oil Well  Gas Well  Other  Single Zone  Multiple Zone

6. If Indian, Allottee or Tribe Name  
**TRIBAL SURFACE**

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

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

3A. Address  
**1368 SOUTH 1200 EAST VERNAL, UT 84078**

3b. Phone No. (include area code)  
**(435) 781-7024**

8. Lease Name and Well No.  
**NBU 922-18E3BS**

4. Location of Well (Report location clearly and in accordance with any State requirements. \*)  
At surface **NE/SW 2535'FSL, 1240'FWL**  
At proposed prod. Zone **SW/NW 2206'FNL, 294'FWL (LOT 2)**

9. API Well No.  
**43 0A7 39803**

10. Field and Pool, or Exploratory  
**NATURAL BUTTES**

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

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

15. Distance from proposed\* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)  
**1223'**

16. No. of Acres in lease  
**162.39**

17. Spacing Unit dedicated to this well  
**40.00**

18. Distance from proposed location\* to nearest well, drilling, completed, applied for, on this lease, ft.  
**REFER TO TOPO C**

19. Proposed Depth  
**10,092'**

20. BLM/BIA Bond No. on file  
**RLB0005239**

21. Elevations (Show whether DF, KDB, RT, GL, etc.)  
**4899'GL**

22. Approximate date work will start\*  
**UPON APPROVAL**

12. County or Parish  
**UINTAH**

13. State  
**UTAH**

24. Attachments

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

- 1. Well plat certified by a registered surveyor.
- 2. A Drilling Plan.
- 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office.

- 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- 5. Operator certification.
- 6. Such other site specific information and/or plans as may be required by the authorized office.

25. Signature  
*Sheila Upchego*

Name (Printed/Typed)  
**SHEILA UPCHEGO**

Date  
**11/27/2007**

Title  
**SENIOR LAND ADMIN SPECIALIST**

Approved by (Signature)  
*John Kevicka*

Title  
**Assistant Field Manager  
Lands & Mineral Resources**

Name (Printed/Typed)  
*John Kevicka*

Office  
**VERNAL FIELD OFFICE**

Date  
**SEP 08 2008**

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

Conditions of approval, if any, are attached. **CONDITIONS OF APPROVAL ATTACHED**

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

\*(Instructions on reverse)

**NOTICE OF APPROVAL**

**RECEIVED**

**SEP 16 2008**

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

**UDOGM**

**NO NOS  
08 MIC01B3A**

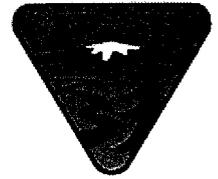


**UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
VERNAL FIELD OFFICE**

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:** NESW, Sec. 18, T9S, R22E (S)  
**Well No:** NBU 922-18E3BS      **Lease No:** UTU-0359  
**API No:** 43-047-39803      **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
Supervisory NRS:	Karl Wright	(435) 781-4484	(435) 828-7381
NRS/Enviro Scientist:	Holly Villa	(435) 781-4404	(435) 828-3544
NRS/Enviro Scientist:	James Hereford	(435) 781-3412	
NRS/Enviro Scientist:	Chuck Macdonald	(435) 781-4441	(435) 828-7481
NRS/Enviro Scientist:	Dan Emmett	(435) 781-3414	
NRS/Enviro Scientist:	Paul Percival	(435) 781-4493	
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**

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

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

***Surface COAs:***

- If there is an active Gilsonite mining operation within 2 miles of the well location, operator shall notify the Gilsonite operator at least 48 hours prior to any blasting during construction.
- If paleontological materials are uncovered during construction, the operator is to immediately stop work and contact the Authorized Officer (AO). A determination will be made by the AO as to what mitigation may be necessary for the discovered paleontologic material before construction can continue.

**SITE SPECIFIC COAs:**

**Additional Stipulations:**

- Paint equipment Carlsbad Canyon.
- Contrary to paleo report – the moving of paleo effects is not authorized, per Tribal C.P.O.

**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 ROW's.
- 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 APD's 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 should cultural remains from subsurface deposits be exposed or identified during construction. All construction will cease.
- All mitigative stipulations contained in the Bureau of Indian Affairs Site Specific Environmental Assessment (EA) will be strictly adhered.

**Upon completion of Application for Corridor Right-Way, the company will notify the Ute Tribe Energy & Minerals Department, so that a Tribal Technician can verify Affidavit of Completion.**

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

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

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

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

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

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- **Cement baskets shall not be run on surface casing.**
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each

encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.

- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- Chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- **Please submit an electronic copy of all other logs run on this well in LAS format to [UT\\_VN\\_Wellogs@BLM.gov](mailto:UT_VN_Wellogs@BLM.gov). This submission will supersede the requirement for submittal of paper logs to the BLM.**
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

**OPERATING REQUIREMENT REMINDERS:**

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

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

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

# DIVISION OF OIL, GAS AND MINING

## **SPUDDING INFORMATION**

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

Well Name: NBU 922-18E3BS

Api No: 43-047-39803 Lease Type: FEDERAL

Section 18 Township 09S Range 22E County UINTAH

Drilling Contractor PETE MARTIN DRLG RIG # BUCKET

## **SPUDDED:**

Date 11/01/08

Time 2:00 PM

How DRY

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

Reported by LEW WELDON

Telephone # (435) 828-7035

Date 11/03/08 Signed CHD

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

FORM 6

**ENTITY ACTION FORM**

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

**Well 1**

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304739803	NBU 922-18E3BS		NESW	18	9S	22E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
<u>B</u>	99999	<u>2900</u>	11/1/2008			<u>11/10/08</u>	
<b>Comments:</b> MIRU PETE MARTIN BUCKET RIG. <u>WSMVD</u> SPUD WELL LOCATION ON 11/1/2008 AT 1400 HRS. <u>BHL = SWNW</u>							

**Well 2**

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

**Well 3**

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

**ACTION CODES:**

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

SHEILA UPCHEGO

Name (Please Print)

Sheila Upchego me

Signature

REGULATORY ANALYST

11/10/2008

Title

Date

(5/2000)

RECEIVED

NOV 10 2008

DIV. OF OIL, GAS & MINING

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or reenter an abandoned well. Use Form 3160-3 (APD) for such proposals.

FORM APPROVED  
OMB No. 1004-0135  
Expires November 30, 2000

**SUBMIT IN TRIPLICATE - Other instructions on reverse side**

1. Type of Well  
 Oil Well  Gas Well  Other

2. Name of Operator  
**KERR-McGEE OIL & GAS ONSHORE LP**

3a. Address  
**1368 SOUTH 1200 EAST VERNAL, UT 84078**

3b. Phone No. (include area code)  
**(435) 781-7024**

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
**2535' FSL, 1240' FWL  
 NE/SW, SEC.18, T9S-R22E**

5. Lease Serial No.  
**UTU-0359**

6. If Indian, Allottee or Tribe Name  
**TRIBAL SURFACE**

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

8. Well Name and No.  
**NBU 922-18E3BS**

9. API Well No.  
**4304739803**

10. Field and Pool, or Exploratory Area  
**NATURAL BUTTES**

11. County or Parish, State  
**UINTAH COUNTY, UTAH**

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

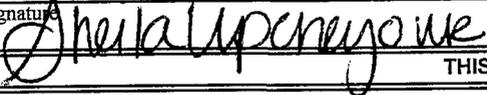
TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/>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

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

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

SPUD WELL LOCATION ON 11/1/2008 AT 1400 HRS.

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

Name (Printed/Typed) <b>SHEILA UPCHEGO</b>	Title <b>REGULATORY ANALYST</b>
Signature 	Date <b>November 10, 2008</b>

THIS SPACE FOR FEDERAL OR STATE USE

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

Title 18 U.S.C. Section 1001, 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)

RECEIVED  
NOV 12 2008  
DIV. OF OIL, GAS & MINING

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

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

5. Lease Serial No.  
UTU-0359

6. If Indian, Allottee or Tribe Name  
TRIBAL SURFACE

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

1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other		7. If Unit of CA/Agreement, Name and/or No. UNIT #891008900A
2. Name of Operator KERR MCGEE OIL & GAS ONSHORE LP		8. Well Name and No. NBU 922-18E3BS
3a. Address 1368 SOUTH 1200 EAST VERNAL, UTAH 84078	3b. Phone No. (include area code) 435.781.7024	9. API Well No. 4304739803
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) SURFACE: NE/SW SEC. 18, T9S, R22E 2535'FSL, 1240'FWL BOTTOM HOLE: SW/NW LOT. 2, SEC. 18, T9S, R22E 2206'FNL, 294'FWL		10. Field and Pool or Exploratory Area NATURAL BUTTES
		11. Country or Parish, State UINTAH COUNTY, UTAH

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

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

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

MIRU H&P 298 RIG. DRILLED 12 1/4" SURFACE HOLE TO 2755'. RAN 9 5/8" 36# J-55 SURFACE CSG. LEAD CMT W/260 SX HIFILL CLASS G @11.0 PPG 3.38 YIELD. TAILED CMT W/200 SX PREM CLASS G @15.8 PPG 1.15 YIELD. PARTIAL RETURNS DURING JOB BUT NO CMT TO SURFACE. RAN 200' OF 1" PIPE. CMT W/100 SX PREM CLASS G @15.8 PPG 1.15 YIELD. TOP OUT W/125 SX PREM CLASS G @ 15.8 PPG 1.15 YIELD. DOWN BACKSIDE. HOLE STAYED FULL. REMOVE LANDING JT NIPPLE DOWN

WORT.

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed) SHEILA UPCHEGO		Title REGULATORY ANALYST
Signature 		Date 02/20/2009

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

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

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

(Instructions on page 2)

**RECEIVED**  
**FEB 23 2009**  
DIV. OF OIL, GAS & MINING

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

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

5. Lease Serial No.  
UTU-0359

6. If Indian, Allottee or Tribe Name

TRIBAL SURFACE

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

1. Type of Well

Oil Well     Gas Well     Other

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

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

8. Well Name and No.  
NBU 922-18E3BS

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

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

9. APL Well No.  
4304739803

10. Field and Pool or Exploratory Area  
NATURAL BUTTES

4. Location of Well (Footage, Sec., T, R, M, or Survey Description)  
SURFACE: NE/SW SEC. 18, T9S, R22E 2535'FSL, 1240'FWL  
BOTTOM HOLE: SW/NW LOT. 2, SEC. 18, T9S, R22E 2206'FNL, 294'FWL

11. Country or Parish, State  
UINTAH COUNTY, UTAH

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

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

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

FINISHED DRILLING FROM 2755' TO 10,105' ON 03/27/2009. RAN 4 1/2" 11.6# I-80 PRODUCTION CSG. LEAD CMT W/340 SX PREM LITE II @11.0 PPG 3.38 YIELD. TAILED CMT W/1300 SX 50/50 POZ @14.3 PPG 1.31 YIELD. DISPLACE W/156.6 BBLs FW LOST RETURNS START OF DISPLACEMENT BUMP PLUG W/3200 PSI 500 OVER FLOATS OK. LAY DOWN LANDING JT & SETTING TOOL SET PACK OFF & TEST TO 5000 NIPPLE DOWN BOP CLEAN PITS.

RELEASED H&P RIG 298 ON 03/28/2009 AT 0000 HRS.

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

Name (Printed/Typed)  
SHEILA UPCHEGO

Title REGULATORY ANALYST

Signature



Date 03/30/2009

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

Approved by

Title

Date

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

Office

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

(Instructions on page 2)

**RECEIVED**

**APR 20 2009**

BUREAU 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-0359
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b> UTE  <b>7. UNIT or CA AGREEMENT NAME:</b> NATURAL BUTTES
<b>1. TYPE OF WELL</b> Gas Well	<b>8. WELL NAME and NUMBER:</b> NBU 922-18E3BS
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.	<b>9. API NUMBER:</b> 43047398030000
<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> 2535 FSL 1240 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NESW Section: 18 Township: 09.0S Range: 22.0E Meridian: S	<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES  <b>COUNTY:</b> UINTAH  <b>STATE:</b> UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 10/15/2009	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input checked="" type="checkbox"/> OTHER	OTHER: FOOTAGE UPDATE

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

THE OPERATOR WISHES TO INFORM ON UPDATED SURFACE FOOTAGE CALLS FOR THIS WELL. THE SURFACE LOCATION UNDERWENT MINOR ADJUSTMENTS DUE TO DRILLING RIG CONFIGURATIONS. THE SURFACE LOCATION CHANGED FROM 2535 FSL & 1240 FWL TO: 2561 FSL & 1197 FWL. PLEASE SEE THE ATTACHED REVISED SURVEY PLAT FOR ADDITIONAL INFORMATION. THE BOTTOM HOLE LOCATION DID NOT CHANGE.

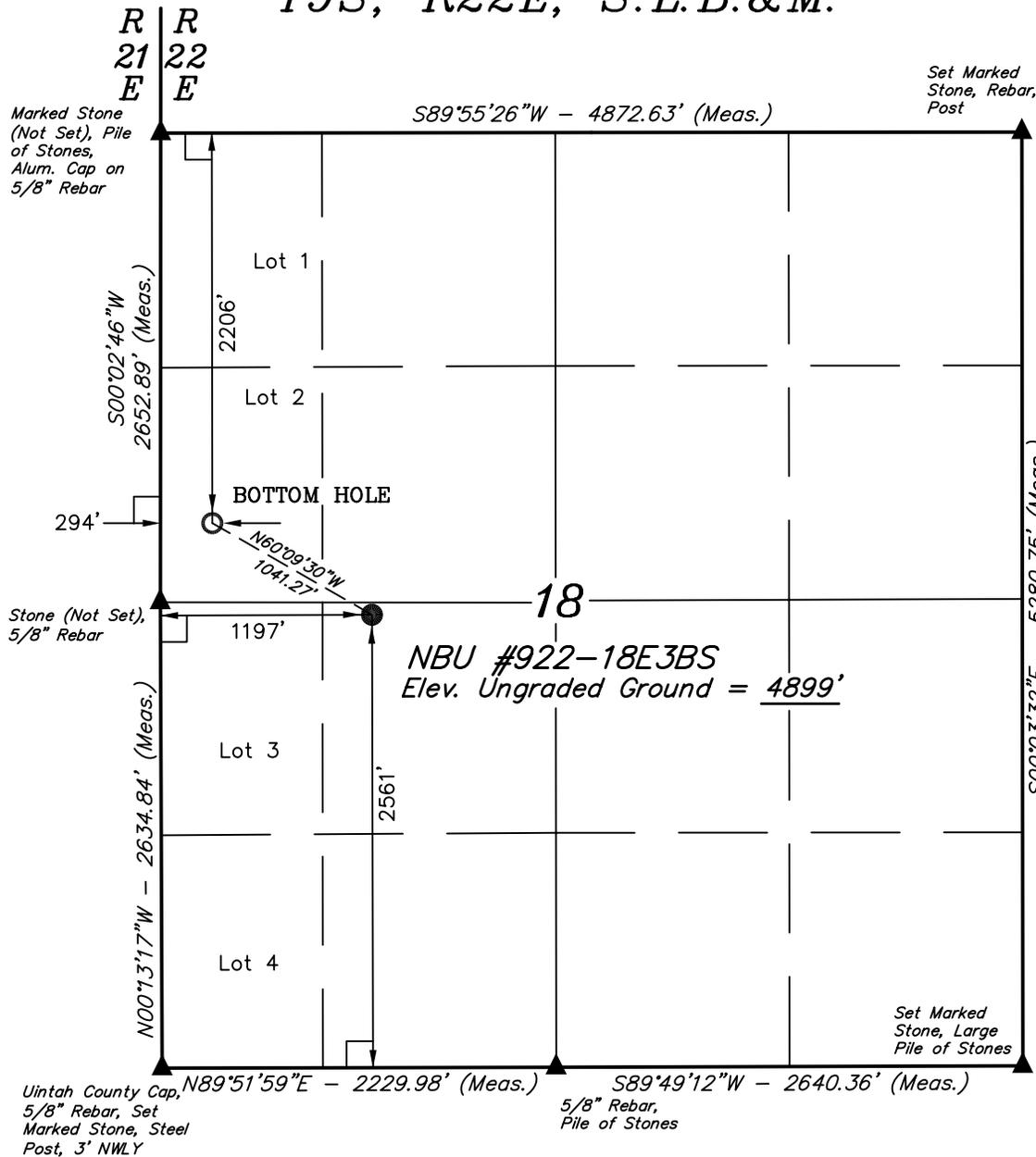
**Approved by the Utah Division of Oil, Gas and Mining**

**Date:** October 19, 2009

**By:**

<b>NAME (PLEASE PRINT)</b> Andy Lytle	<b>PHONE NUMBER</b> 720 929-6100	<b>TITLE</b> Regulatory Analyst
<b>SIGNATURE</b> N/A		<b>DATE</b> 10/15/2009

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



## Kerr-McGee Oil & Gas Onshore LP

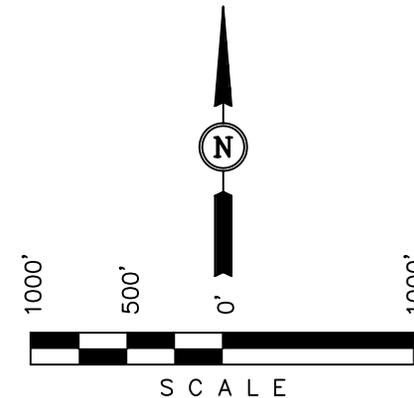
Well location, NBU #922-18E3BS, located as shown in the NE 1/4 SW 1/4 of Section 18, T9S, R22E, S.L.B.&M., Uintah County, Utah.

### BASIS OF ELEVATION

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

### BASIS OF BEARINGS

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



### CERTIFICATE

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

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

REVISED: 10-29-08  
REVISED: 10-25-07

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

### LEGEND:

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

NAD 83 (TARGET BOTTOM HOLE)	NAD 83 (SURFACE LOCATION)
LATITUDE = 40°02'13.89" (40.037192)	LATITUDE = 40°02'08.77" (40.035769)
LONGITUDE = 109°29'22.85" (109.489681)	LONGITUDE = 109°29'11.24" (109.486456)
NAD 27 (TARGET BOTTOM HOLE)	NAD 27 (SURFACE LOCATION)
LATITUDE = 40°02'14.02" (40.037228)	LATITUDE = 40°02'08.90" (40.035806)
LONGITUDE = 109°29'20.38" (109.488994)	LONGITUDE = 109°29'08.77" (109.485769)

SCALE 1" = 1000'	DATE SURVEYED: 05-07-07	DATE DRAWN: 05-21-07
PARTY D.K. L.K. C.H.	REFERENCES G.L.O. PLAT	
WEATHER WARM	FILE Kerr-McGee Oil & Gas Onshore LP	

RECEIVED October 15, 2009

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

**WELL COMPLETION OR RECOMPLETION REPORT AND LOG**

5. Lease Serial No.  
UTU0359

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

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

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

4. Location of Well (Report location clearly and in accordance with Federal requirements)\*  
 At surface **NESW 2561FSL 1197FWL 40.03581 N Lat, 109.48577 W Lon**  
 At top prod interval reported below **SWNW 2223FNL 289FWL**  
 At total depth **SWNW 2242FNL 297FWL** *2243 FNL 0299 FNL S-18 T09SR22E*

6. If Indian, Allottee or Tribe Name \_\_\_\_\_  
 7. Unit or CA Agreement Name and No.  
**UTU63047A**

8. Lease Name and Well No.  
**NBU 922-18E3BS**

9. API Well No. **43-047-39803**

10. Field and Pool, or Exploratory  
**NATURAL BUTTES**

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

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

14. Date Spudded **11/01/2008** 15. Date T.D. Reached **03/27/2009** 16. Date Completed  
 D & A  Ready to Prod.  
**10/15/2009**

17. Elevations (DF, KB, RT, GL)\*  
**4899 GL**

18. Total Depth: MD **10105** 19. Plug Back T.D.: MD **10071**  
 TVD **9919 9920** TVD **9886** 20. Depth Bridge Plug Set: MD  
 TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)  
**DSN-SDK-ACRT-BHV-CHI-GR-CCL**

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

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

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
20.000	14.000 STEEL	36.7		40		28			
12.250	9.625 J-55	36.0		2716		685			
7.875	4.500 I-80	11.6		10068		1730			

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.375	9533							

25. Producing Intervals				26. Perforation Record			
Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status	
A) MESAVERDE	8158	10018	8158 TO 10018	0.360	239	OPEN	
B)							
C)							
D)							

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

Depth Interval	Amount and Type of Material
8158 TO 10018	PMP 10,540 BBLs SLICK H2O & 410,692 LBS 30/50 SD.

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
10/15/2009	10/19/2009	24	→	0.0	2474.0	25.0			FLows FROM WELL
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
16/64	SI 2114	2858.0	→	0	2474	25		PGW	

28a. Production - Interval B

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

**RECEIVED**  
**NOV 19 2009**

28b. Production - Interval C

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

28c. Production - Interval D

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

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

30. Summary of Porous Zones (Include Aquifers):

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

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
GREEN RIVER	1791				
MAHOGANY	2553				
WASATCH	5290	8136			
MESAVERDE	8249	10032			

32. Additional remarks (include plugging procedure):

ATTACHED TO THIS COMPLETION REPORT IS THE CHRONOLOGICAL WELL HISTORY AND END OF WELL REPORT (DIRECTIONAL SURVEY).

33. Circle enclosed attachments:

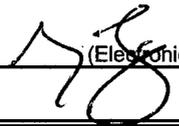
- 1. Electrical/Mechanical Logs (1 full set req'd)
- 2. Geologic Report
- 3. DST Report
- 4. Directional Survey
- 5. Sundry Notice for plugging and cement verification
- 6. Core Analysis
- 7 Other:

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

**Electronic Submission #77443 Verified by the BLM Well Information System.  
For KERR-MCGEE OIL&GAS ONSHORE, LP, sent to the Vernal**

Name (please print) ANDY LYTLE

Title REGULATORY ANALYST

Signature  (Electronic Submission)

Date 11/16/2009

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

**US ROCKIES REGION  
Operation Summary Report**

Well: NBU 922-18E3BS [YELLOW]		Spud Date: 2/16/2009	
Project: UTAH-UINTAH		Site: NBU 922-18L PAD	Rig Name No: H&P 298/298, H&P 298/298
Event: DRILLING		Start Date: 12/16/2008	End Date: 3/28/2009
Active Datum: RKB @4,925.00ft (above Mean Sea Level)		UWI: NW/SW/0/9/S/22/E/18/0/0/6/PM/S/2,561.00/W/0/1,197.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
2/16/2009	14:00 - 16:30	2.50	DRLSUR	01	C	P		PREP RIG FOR SKID
	16:30 - 17:00	0.50	DRLSUR	01	C	P		SKID RIG
	17:00 - 19:30	2.50	DRLSUR	01	B	P		RIG UP FLOWLINE,MUD LINE,SET STAIRS & V-DOOR
	19:30 - 20:30	1.00	DRLSUR	14	A	P		NIPPLE UP CONDUCTOR,RIG ACCEPTED ON DAYWORK @ 1930 HRS 02/16/2009
	20:30 - 21:30	1.00	DRLSUR	07	C	P		CHANGE SWIVEL PACKING
	21:30 - 22:30	1.00	DRLSUR	06	A	P		MU BIT,MWD TOOL,TIH TAG @ 107'
	22:30 - 0:00	1.50	DRLSUR	02	D	P		DRILLING 107-197=90=60,WOB 14,PUMPS 1&2 70 SPM,GPM 630,RPM 45,MM 70,SPP ON/OFF 600/450 TQ ON/OFF 4/0 WT 8.3 VIS
2/17/2009	0:00 - 7:30	7.50	DRLSUR	02	D	P		DRILL& SLIDE FROM 197-1030=833=111 FPH,WOB 16-20,GPM 735,SPM PUMPS 1&2=82 SPM,RPM 40 MM 80,PP ON/OFF 1500/11340,TQ ON/OFF 8/2,PU/SO/ROT 92/89/90VIS 28 WT 8.6 SLIDE PARAMETERS (1258/278),(529-549),(920-901-926)( 993-1023 (2121-2146) WOB 17 RPM 40 MM 80 SPP ON/OFF 1680-1550 GPM 735 TQ ON/OFF 8/2 PU/SO/ROT 105/94/96 VIS 29/WT 8.6
	7:30 - 8:00	0.50	DRLSUR	07	A	P		RIG SERVICE
	8:00 - 19:00	11.00	DRLSUR	02	D	P		DRILL 1030-2122=1091' = 99.2 FPH,WOB 16-20,GPM 735,SPM PUMPS 1&2=82 SPM,RPM 40 MM 80,PP ON/OFF 1700/1500,TQ ON/OFF 8/2,PU/SO/ROT 105/94/96,VIS 30 WT 8.4
	19:00 - 19:30	0.50	DRLSUR	02	D	P		SLIDE DRILL 2121-2146 = 25' = 50 FPH, WOB 17, DIFF 170, MM RPM 81, SPP ON/OFF 1680-1550, SPM 164, 737 GPM, MW 8.4, VIS 30
	19:30 - 0:00	4.50	DRLSUR	02	D	P		DRILL 2146-2755 TD=2145=244=54.2 FPH ,WOB 16-20,GPM 735,SPM PUMPS 1&2=82 SPM,RPM 40 MM 80,PP ON/OFF 1700/1500,TQ ON/OFF 8/2,PU/SO/ROT 105/94/96,VIS 30 WT 8.4
2/18/2009	0:00 - 0:30	0.50	DRLPRO	02	D	P		DRILL 2475-2504 = 29' = 58 FPH, WOB 23, DIFF 320, TORQUE ON/OFF 9/2, SPP ON/OFF 1980/1660, RPM 45, MM RPM 81, SPM 164, GPM 737, P/U-S/O-ROT118-108-111
	0:30 - 1:00	0.50	DRLPRO	02	D	P		SLIDE DRILL 2504-2524 = 20' = 40 FPH, WOB 17, DIFF 180, MM RPM 81, SPP ON/OFF 1870/1660, SPM 164, GPM 737
	1:00 - 4:00	3.00	DRLPRO	02	D	P		DRILL 2524-2755 TD = 231' = 77 FPH, WOB 23, DIFF 320, TORQUE ON/OFF 8/2, SPP ON/OFF 2000/1810, RPM 45, MM RPM 81, SPM 164, GPM 737, P/U-S/O-ROT118-108-111
	4:00 - 5:00	1.00	DRLPRO	05	C	P		CONDITION & CIRCULATE HOLE, PUMP HI-VIS SWEEP OUT
	5:00 - 6:00	1.00	DRLPRO	06	A	P		POOH TO RUN SURFACE CASING
	6:00 - 6:30	0.50	DRLPRO	07	A	P		RIG SERVICE
	6:30 - 7:00	0.50	DRLPRO	06	A	P		POOH TO RUN SURFACE CASING
	7:00 - 7:30	0.50	DRLPRO	07	B	P		LEVEL DERRICK
	7:30 - 8:30	1.00	DRLPRO	06	A	P		POOH DIRECTIONAL TOOLS
	8:30 - 11:00	2.50	DRLPRO	12	A	P		R/U PICKUP MACHINE, CASING BAILS, SAFETY MEETING WITH CASING CREWS

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

Well: NBU 922-18E3BS [YELLOW]

Spud Date: 2/16/2009

Project: UTAH-UINTAH

Site: NBU 922-18L PAD

Rig Name No: H&P 298/298, H&P 298/298

Event: DRILLING

Start Date: 12/16/2008

End Date: 3/28/2009

Active Datum: RKB @4,925.00ft (above Mean Sea Level)

UWI: NW/SW/0/9/S/22/E/18/0/0/6/PM/S/2,561.00/W/0/1,197.00/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	11:00 - 14:00	3.00	DRLPRO	12	C	P		RUN 63 JTS 9.625 36# CASING, SHOE @ 2716 GL LOST RETURNS WITH SHOE @ 2000', CONTINUE RUNNING CASING, LAND SAME IN HANGER, 116,000 UP, 105 SLACK OFF
	14:00 - 15:30	1.50	DRLPRO	05	D	P		FILL CASING, REGAIN RETURNS, CIRCULATE CASING VOLUME WITH RETURNS,R/D CASING CREW, HOLD SAFETY MEETING WITH CEMENTERS
	15:30 - 17:30	2.00	DRLPRO	12	E	P		R/U & TEST LINES TO 2000, PUMP 50 BBL WATER SPACER, PUMP 260 SX 11# LEAD, 200 SX 15.8# TAIL, PARTIAL RETURNS DURING JOB BUT NO CEMENT TO SURFACE, PUMP 100SX DOWN 1" TO BACK SIDE, NO RETURNS, WAIT ON CEMENT UNTIL 2130 HRS, PUMP 125 SX 15.8 DOWN BACK SIDE-STAYED FULL
	17:30 - 19:00	1.50	DRLPRO	14	A	P		REMOVE LANDING JOINT, NIPPLE DOWN TO SKID RIG, RIG RELEASED TO NBU 922-183CS @ 1900 HRS
3/17/2009	11:30 - 12:30	1.00	RDMO	01	E	P		PREP FOR SKID
	12:30 - 13:00	0.50	RDMO	01	C	P		SKID RIG
	13:00 - 14:00	1.00	MIRU	01	B	P		RURT
	14:00 - 14:30	0.50	MIRU	14	A	P		NUBOP,TEST DTO HEAD
	14:30 - 21:30	7.00	PRSPD	15	A	P		TEST BOP,UPPER & LOWER KELLY VALVES,PIPE & BLIND RAMS,CHOKE VALVES-MANIFOLD,KILL LINE TO 5K HI,250 LOWS,ANNULAR 2.5K HI 250LOW,9.625 CSG TO 1.5K FOR /30 MIN
	21:30 - 23:00	1.50	PRSPD	09	A	P		CUT & SLIP 120' DRLG LINE
	23:00 - 23:30	0.50	PRSPD	07	A	P		RIG SERVICE
	23:30 - 0:00	0.50	PRSPD	06	A	P		INSTALL WEARRING,P/U BIT & MTR#1,DIR TOOLS
3/18/2009	0:00 - 4:00	4.00	PRSPD	06	A	P		TIH W/BHA #1,INSTALL ROTATING RUBBER
	4:00 - 6:00	2.00	PRSPD	02	F	P		DRILL CEMENT & FE F/2689 TO 2755'
	6:00 - 12:00	6.00	DRLPRO	02	D	P		DRILL & SLIDE F/2755 TO 3233=478=79.6 FPH AVG 50, WOB 15,RPM 45,MTR 72,SPM 100,GPM 450,SPP ON/OFF 1450/1255,TQ ON/OFF 6/2,PU/SO/ROT 111/97/105,VIS 26 WT 8.6, SLIDE WOB 18,SPP ON/OFF 1510/1260 SPM 100,GPM 450,
	12:00 - 16:30	4.50	DRLPRO	02	D	P		DRILL & SLIDE AVG 50 F/3233-3471=238=52.8 FPH AVG 50, WOB 15,RPM 45,MTR 72,SPM 100,GPM 450,SPP ON/OFF 1450/1255,TQ ON/OFF 6/2,PU/SO/ROT 115/98/107,VIS 26 WT 8.6, SLIDE WOB 18, SPM 100,GPM 450, SPP ON/OFF 1800/2050, 500 # PRESSURE INCREASE
	16:30 - 17:30	1.00	DRLPRO	05	F	S		HAD 500 # PRESSURE INCREASE,TO 2100 #CIRC WORK PIPE PUMP HI VIS SWEEP,PRESSURE INCREASE TO 3100,W/NORMAL DRAG & TQ,PUMP SLUG F/ TRIP
	17:30 - 21:00	3.50	DRLPRO	06	A	S		TOH,FOUND BIT PLUGGED W/ METAL FROM MUD MTR,,XO MUD MTR & BIT.,L/D 2 DCS, PU 2 HWDP, 30' DEPTH CORR ON HWDP (DEEPER)
	21:00 - 23:00	2.00	DRLPRO	06	H	S		TIH,INSTALL ROT HEAD,BREAK CIRC
	23:00 - 0:00	1.00	DRLPRO	02	D	P		DRILL & SLIDE AVE 52 F/3503- 3550=47 WOB 14-16,RPM 45,MTR 72,SPM 100,GPM 450,SPP ON/OFF 1300/1050,TQ ON/OFF 6/3,PU/SO/ROT 112/105/107,VIS 26 WT 8.6, SLIDE WOB 18-20, SPM 100,GPM 450, SPP ON/OFF 1300/1050,PU/SO/ROT 112/105/107

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

Well: NBU 922-18E3BS [YELLOW]

Spud Date: 2/16/2009

Project: UTAH-UINTAH

Site: NBU 922-18L PAD

Rig Name No: H&P 298/298, H&P 298/298

Event: DRILLING

Start Date: 12/16/2008

End Date: 3/28/2009

Active Datum: RKB @4,925.00ft (above Mean Sea Level)

UWI: NW/SW/0/9/S/22/E/18/0/0/6/PM/S/2,561.00/W/0/1,197.00/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
3/19/2009	0:00 - 11:30	11.50	DRLPRO	02	D	P		DRILL & SLIDE 50% F/3550-4041=491=42.6 ROP WOB 14-16,RPM 45,MTR 76,SPM 105,GPM 475,SPP ON/OFF 1600/1350,TQ ON/OFF 4/2,PU/SO/ROT 126/100/110,VIS 26 WT 8.7, SLIDE WOB 20-24, SPM 105,GPM 475, SPP ON/OFF 1600/1350,PU/SO/ROT 126/100/110
	11:30 - 12:00	0.50	DRLPRO	07	A	P		RIG SERVICE
	12:00 - 18:00	6.00	DRLPRO	02	D	P		DRILL & SLIDE 50% F /4041-4355=314=52.3 ROP WOB 14-16,RPM 45,MTR 76,SPM 105,GPM 475,SPP ON/OFF 1600/1400,TQ ON/OFF 7/4,PU/SO/ROT 133/102/116,VIS 27 WT 8.8, SLIDE WOB 20-25, SPM 105,GPM 475, SPP ON/OFF 1600/1350,PU/SO/ROT 133/102/116
	18:00 - 0:00	6.00	DRLPRO	02	D	P		DRILL & SLIDE 45-55% F /4355-4523=168=28 ROP WOB 14-16,RPM 45,MTR 76,SPM 105,GPM 475,SPP ON/OFF 1600/1400,TQ ON/OFF 6/2,PU/SO/ROT 135/103/117,VIS 27 WT 8.8, SLIDE WOB 20-25, SPM 105,GPM 475, SPP ON/OFF 1600/1350,PU/SO/ROT 133/102/116 DRILL ROP 57.3,SLIDE ROP=24.2 HAVING TO SLIDE W/ LIGHTER BIT TO HOLD TOOL FACE,(RATTY FORMATION) 4300-4523
3/20/2009	0:00 - 6:00	6.00	DRLPRO	02	D	P		DRILL & SLIDE 45-55% F/ 4523-4770=247=41.2 FPH,WOB16,RPM45,GPM 475,SPM 105,SPP ON/OFF 1600/1400,PU/SO/ROT 158/98/119,SLIDE 14/25,MTR RPM 75,SPP1600/1400HAVING TO SLIDE W/ LIGHTER BIT WT DUE TO RATTY FORMATION(WASATCH TRANSITION)SLIDE ROP 24.2,DRILL ROP 58,LAST SURVEY@ 4711',INC 22.19 AZ 304.54,8' LEFT OF LINE,8' BELOW,
	6:00 - 12:30	6.50	DRLPRO	02	D	P		DRILL & SLIDE 45-55% F/ 4770-5077=307=47.2 FPH,WOB16,RPM45,GPM 475,SPM 105,SPP ON/OFF 1600/1400,PU/SO/ROT 158/98/119,SLIDE 14/25,MTR RPM 75,SPP1600/1400
	12:30 - 13:00	0.50	DRLPRO	07	A	P		RIG SERVICE
	13:00 - 17:30	4.50	DRLPRO	02	D	P		DRILL & SLIDE 70-30%F/5077-5334=257=64.2 FPH,WOB16,RPM45,GPM 475,SPM 105,SPP ON/OFF 1600/1400,PU/SO/ROT 158/98/119,SLIDE 14/25,MTR RPM 75,SPP1600/1400
	17:30 - 19:00	1.50	DRLPRO	10	D	Z		DIRECTIONAL TOOL PROBLEMS UNABLE TO GET SURVEY,CHECK OUT SURFACE EQUIPMENT,MWD PROBLEMS
	19:00 - 21:30	2.50	DRLPRO	06	H	Z		PUMP SLUG TRIP OUT F/DIRECTIONAL TOOLS
	21:30 - 23:00	1.50	DRLPRO	10	B	P		CHANGE OUT DIRECTIONAL TOOLS & BIT
3/21/2009	23:00 - 0:00	1.00	DRLPRO	02	D	P		TIH
	0:00 - 1:00	1.00	DRLPRO	06	H	P		TIH,BREAK CIRC @ 2800',CIH ,5' FILL,TRIP GAS 4000 U, W/ 12' FLARE
	1:00 - 6:00	5.00	DRLPRO	02	D	P		DRILL&SLIDE 5334-5690=356=71.2,WOB 15-18 RPM 45,MTR 72,PU/SO/ROT 178/110/132,TQ ON/OFF 8/4,GPM 475,SPM 105 SPP ON/OFF 1900/1700 ,MW 9.2 VIS 34,SLIDE 5648-5658, WOB 18-22,SPM 105,GPM 475,PU/SO/ROT 180/110/132
	6:00 - 13:00	7.00	DRLPRO	02	D	P		DRILL&SLIDE 90.10 5690-6117=427=61,WOB 16-19 RPM 45,MTR 72,PU/SO/ROT 192/117/142,TQ ON/OFF 9/5,GPM 475,SPM 105 SPP ON/OFF 1975/1760 ,MW 9.3 VIS 34,SLIDES 5774-5786, 5931-5943,6026-6041,6117-6136, WOB 18-22,SPM 105,GPM 475,SPP ON/OFF 2000/1800 PU/SO/ROT 192/117/142 SURVEY@6066 INC 5.06 AZ 313.41

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

Well: NBU 922-18E3BS [YELLOW]

Spud Date: 2/16/2009

Project: UTAH-UINTAH

Site: NBU 922-18L PAD

Rig Name No: H&P 298/298, H&P 298/298

Event: DRILLING

Start Date: 12/16/2008

End Date: 3/28/2009

Active Datum: RKB @4,925.00ft (above Mean Sea Level)

UWI: NW/SW/0/9/S/22/E/18/0/0/6/PM/S/2,561.00/W/0/1,197.00/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	13:00 - 13:30	0.50	DRLPRO	02	D	P		RIG SERVICE
	13:30 - 0:00	10.50	DRLPRO	02	D	P		DRILL&SLIDE 95%.5% 6117- 6745=628=59.8,WOB 15.20,RPM 45,MTR 72,PU/SO/ROT 200/134/156,TQ ON/OFF 13/10,GPM 475,SPM 105 SPP ON/OFF2200/1920,MW 9.5 VIS 36 ,SLIDES 6152-6161,6231-6245,6306-6325,6592-6605 WOB 15-30,SPM 105,GPM 475,SPP ON/OFF 2200//1920 PU/SO/ROT 200/134/156 MW 9.5,VIS 36
3/22/2009	0:00 - 6:00	6.00	DRLPRO	02	D	P		DRILL&SLIDE 95%.5% 6745-7080=335=55.8 WOB 16-20 RPM 45,MTR 72,PU/SO/ROT 200/134/156,TQ ON/OFF13/10,GPM 475,SPM 105 SPP ON/OFF2200/1920,MW 9.5 VIS 36 ,SLIDE 7076-7079 WOB 15-30,SPM 105,GPM 475,SPP ON/OFF 2200//1920 PU/SO/ROT 200/134/156 MW 9.5,VIS 36
	6:00 - 16:00	10.00	DRLPRO	02	D	P		DRILL&SLIDE 95%.5% 7080- 7446=366=36.6 WOB 16-20 RPM 35/50,MTR 72,PU/SO/ROT 226130/162,TQ ON/OFF14/9,GPM 475,SPM 105 SPP ON/OFF2230/2050,MW 9.8 VIS 37 ,SLIDES 7255-7269 WOB 15-40,SPM 105,GPM 475,SPP ON/OFF 2200//1920 PU/SO/ROT 220/125/161 MW 9.8,VIS 37
	16:00 - 16:30	0.50	DRLPRO	07	A	P		RIG SERVICE
	16:30 - 22:30	6.00	DRLPRO	02	D	P		DRILL 7446- 7583=139=22.8 WOB 12-24 RPM 30/50,MTR 75,PU/SO/ROT 230/126/160,TQ ON/OFF13/9,GPM 475,SPM 105 SPP ON/OFF2200/1920,MW 9.8 VIS 37
3/23/2009	22:30 - 0:00	1.50	DRLPRO	06	A	P		PUMP SLUG,TOH,100 K DRAG OFF BTM
	0:00 - 3:00	3.00	DRLPRO	06	A	P		TOH, FUNCT TEST BOP'S XO M MTR & BIT
	3:00 - 6:00	3.00	DRLPRO	06	A	P		TIH, LEAVE OUT 2 STDS HWDP,BREAK CIRC @ 2800',CIH
	6:00 - 12:30	6.50	DRLPRO	02	D	P		DRILL 7583 7738=155=23.8 WOB 12-20 RPM 30/50,MTR 75,PU/SO/ROT 230/126/160,TQ ON/OFF13/9,GPM 475,SPM 105 SPP ON/OFF2200/1920,MW 9.9 VIS 37
	12:30 - 13:30	1.00	DRLPRO	02	D	P		SLIDE 7738-7754=16 WOB 15/25 RPM MTR 73,SPM 105,GPM 475, SPP ON/OFF 2360/2150 PU/SO/ROT 225/125/161,MW 10.0 VIS 38
	13:30 - 16:00	2.50	DRLPRO	02	D	P		DRILL7754-7824=70=28 WOB 12-20 RPM 30/50,MTR 75,PU/SO/ROT 230/126/160,TQ ON/OFF13/9,GPM 475,SPM 105 SPP ON/OFF2200/1920,MW 10.0 VIS 38
	16:00 - 16:30	0.50	DRLPRO	07	A	P		RIG SERVICE
	16:30 - 19:30	3.00	DRLPRO	02	A	P		DRILL7824-7919=95=31.6 WOB 38-45 RPM 30-50,MTR 75,PU/SO/ROT 231/138/162,TQ ON/OFF13/9,GPM 475,SPM 105 SPP ON/OFF2200/1920,MW 10.1 VIS 38
	19:30 - 20:30	1.00	DRLPRO	02	D	P		SLIDE 7919-7931=12 WOB 15/25 RPM MTR 73,SPM 105,GPM 475, SPP ON/OFF 2360/2150 PU/SO/ROT 225/125/161,MW 10.1 VIS 38
	20:30 - 0:00	3.50	DRLPRO	02	D	P		DRILL7931-8044=113=83 = 32.2 WOB 38-45 RPM 30-50,MTR 75,PU/SO/ROT 231/138/162,TQ ON/OFF13/9,GPM 475,SPM 105 SPP ON/OFF2200/1920,MW 10.1 VIS 39
3/24/2009	0:00 - 2:00	2.00	DRLPRO	02	D	P		DRILL 8044 -8109=65 = 32.5 WOB 14-20, RPM 30-50,MTR 75,PU/SO/ROT 231/132/162,TQ ON/OFF14/12 SPM 105,GPM 475 SPP ON/OFF2390/2230,MW 10.2VIS 39 .
	2:00 - 2:30	0.50	DRLPRO	02	D	P		SLIDE F/ 8109-8124=15,WOB 40/50,RPM MTR 75,PU/SO/ROT 231/140/162,SPM 105,GPM 475,SPP 2390/2230, MW 10.2,VIS 40

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

Well: NBU 922-18E3BS [YELLOW]

Spud Date: 2/16/2009

Project: UTAH-UINTAH

Site: NBU 922-18L PAD

Rig Name No: H&P 298/298, H&P 298/298

Event: DRILLING

Start Date: 12/16/2008

End Date: 3/28/2009

Active Datum: RKB @4,925.00ft (above Mean Sea Level)

UWI: NW/SW/0/9/S/22/E/18/0/0/6/PM/S/2,561.00/W/0/1,197.00/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	2:30 - 4:30	2.00	DRLPRO	02	D	P		DRILL 8124-8203=79 = 39.5 WOB 14-20, RPM 30-50,MTR 75,PU/SO/ROT 231/132/164,TQ ON/OFF14/12 SPM 105,GPM 475 SPP ON/OFF2390/2230,MW 10.2VIS 39 .
	4:30 - 5:30	1.00	DRLPRO	02	D	P		SLIDE F/ 8203-8221=18,WOB 40/50,RPM MTR 75,PU/SO/ROT 232/138/166,SPM 105,GPM 475,SPP 2390/2230, MW 10.2,VIS 40
	5:30 - 14:00	8.50	DRLPRO	02	D	P		DRILL 8221-8484=263= 30.9 WOB 14-20, RPM 30-50,MTR 75,PU/SO/ROT 245/132/172,TQ ON/OFF14/12 SPM 105,GPM 475 SPP ON/OFF2390/2230,MW 10.4VIS 39 .
	14:00 - 14:30	0.50	DRLPRO	07	A	P		RIG SERVICE
	14:30 - 0:00	9.50	DRLPRO	02	D	P		DRILL 8484-8828=344= 36.2 WOB 14-20, RPM 30-50,MTR 73,PU/SO/ROT 245/132/172,TQ ON/OFF15/12 SPM 105,GPM 450 SPP ON/OFF2600/2375,MW 10.6 VIS 40 .
3/25/2009	0:00 - 6:00	6.00	DRLPRO	02	D	P		DRILL 8828-9056=228= 38 WOB 14-20, RPM 30-50,MTR 73,PU/SO/ROT 245/132/172,TQ ON/OFF15/12 SPM 105,GPM 450 SPP ON/OFF2600/2375,MW IN 10.8 OUT 10.5 VIS 40,LOST 65 BBLs MUD 8965-9035 PUMP SWEEPS BYPASS SHAKERS,BGG 3200 CONN 6000 U 5' FLARE LAST SURVEY 1.13 INC,197.29 AZ
	6:00 - 7:30	1.50	DRLPRO	02	D	P		SLIDE F/9056-9076=20=13.3 ,WOB 40/50,RPM MTR 68,PU/SO/ROT 265/138/166,SPM 95,GPM 425,SPP 2400/2225, MW 11.0 VIS 40,LOOSING 8-10 BBLs HR ,5%LCM
	7:30 - 16:30	9.00	DRLPRO	02	D	P		DRILL 9076--9337=261= 29 WOB 14-22, RPM 45,MTR 68,PU/SO/ROT 270/135/189,TQ ON/OFF14/12 SPM 95,GPM 425 SPP ON/OFF2400/2275,MW IN 11.1 OUT 11.1 VIS 40, RIG SERVICE
	16:30 - 17:00	0.50	DRLPRO	07	A	P		RIG SERVICE
	17:00 - 0:00	7.00	DRLPRO	02	D	P		DRILL 9337-9525=188= 26.8 WOB 14-22, RPM 45,MTR 68,PU/SO/ROT265/145/189,TQ ON/OFF16/12 SPM 95,GPM 425 SPP ON/OFF2450/2275,MW IN 11.2 OUT 11.2 VIS 40,
3/26/2009	0:00 - 2:00	2.00	DRLPRO	02	D	P		DRILL9525-9549=24= 12, WOB 14-22, RPM 45,MTR 68,PU/SO/ROT 265/145/189,TQ ON/OFF16/12 SPM 95,GPM 425 SPP ON/OFF2450/2275,MW IN 11.2 OUT 11.2 VIS 42
	2:00 - 3:00	1.00	DRLPRO	05	C	P		CCH,FOR BIT TRIP,BGG 1200 U
	3:00 - 8:30	5.50	DRLPRO	06	A	P		TOH,9549-8700 100-130K DRAG,F/8700 50-80
	8:30 - 9:30	1.00	DRLPRO	06	A	P		FUNCT TEST BOP'S ,CHECK M MTR,CHANGE BITS,& MWD TOOLS
	9:30 - 11:00	1.50	DRLPRO	06	A	P		TIH TO CSG SHOE 2800',INSTALL ROT HEAD,BREAK CIRC
	11:00 - 11:30	0.50	DRLPRO	07	A	P		RIG SERVICE
	11:30 - 14:30	3.00	DRLPRO	06				TIH, BREAK CIRC @ 6500', CIH , HOLE GOOD
	14:30 - 15:00	0.50	DRLPRO	03	D	P		WASH & REAM 50 TO BTM, 6' FILL,50 BBL MUD LOSS ON TRIP
	15:00 - 0:00	9.00	DRLPRO	02	D	P		DRILL9549-9900=351= 39, WOB 16-20, RPM 35,MTR 68,PU/SO/ROT 265/145/189,TQ ON/OFF16/12 SPM 95,GPM 425 SPP ON/OFF2450/2275,MW IN 11.3 OUT 11.3 VIS 42
3/27/2009	0:00 - 2:00	2.00	DRLPRO	02	D	P		DRILL 9900-9950=50= 25, WOB 16-20, RPM 35,MTR 68,PU/SO/ROT 265/145/189,TQ ON/OFF16/12 SPM 95,GPM 425 SPP ON/OFF2450/2275,MW IN 11.4 OUT 11.3 VIS 42
	2:00 - 2:30	0.50	DRLPRO	08	B	S		BGG 450, CONN 6640
								RIG REPAIR,TROUBLE SHOOT,TENSION LINK (WT INDICATOR) FOUND BAD PLUG @ SENSER

**US ROCKIES REGION  
Operation Summary Report**

Well: NBU 922-18E3BS [YELLOW]

Spud Date: 2/16/2009

Project: UTAH-UINTAH

Site: NBU 922-18L PAD

Rig Name No: H&P 298/298, H&P 298/298

Event: DRILLING

Start Date: 12/16/2008

End Date: 3/28/2009

Active Datum: RKB @4,925.00ft (above Mean Sea Level)

UWI: NW/SW/0/9/S/22/E/18/0/0/6/PM/S/2,561.00/W/0/1,197.00/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	2:30 - 4:30	2.00	DRLPRO	02	D	P		DRILL 9950-10,000=50= 25, WOB 16-20, RPM 35,MTR 68,PU/SO/ROT 265/145/189,TQ ON/OFF 19/15 SPM 95,GPM 425 SPP
	4:30 - 6:00	1.50	DRLPRO	08	B	S		ON/OFF2450/2275,MW IN 11.4 OUT 11.3 VIS 42 RIG REPAIR LOST STANDPIPE
	6:00 - 15:00	9.00	DRLPRO	02	D	P		PRESSURE,TROUBLE SHOOT STAND PIPE SENSOR,FOUND BAD WIRING, DRILL10,000-10,105=105= 11.6, WOB 16-24, RPM 35,MTR 68,PU/SO/ROT 280/150/198,TQ ON/OFF 18/15 SPM 95,GPM 425 SPP
	15:00 - 16:00	1.00	DRLPRO	05	C	P		ON/OFF2500/2275,MW IN 11.4 OUT 11.4 VIS 45,TD 10,105 @1500 HRS 3/27/2009
	16:00 - 18:00	2.00	DRLPRO	06	E	P		CCH, PUMP SWEEP
	18:00 - 20:00	2.00	DRLPRO	05	C	P		WIPER TRIP 10 STDS,PUMPING ,OUT 5 STDS
	20:00 - 0:00	4.00	DRLPRO	06	B	P		CCH, F/LOGS, PUMP SWEEP
3/28/2009	0:00 - 1:30	1.50	DRLPRO	06	B	P		TOH F/ E-LOGS
	1:30 - 7:30	6.00	DRLPRO	11	G	P		TOH F/ LOGS,L/D M MTR
	7:30 - 15:30	8.00	DRLPRO	12	C	P		S/M RU HALLIBURTON,RUN TRJPLE COMBO,LOGS STOPPED @ 6984',LOG OUT & RD,PULL WEAR RING
	15:30 - 17:30	2.00	DRLPRO	05	D	P		SM/ RU WEATHERFORD TRS, RUN 41/2 PROD CSG' 11 JTS OF P-110,442.25' , 225 JTS 9651.68' OF I-80 + 1 MARKER JT,LAND CSG @ 10,094'
	17:30 - 21:00	3.50	DRLPRO	12	E	P		RU BJ EQUIP & CIRC CSG, BTMS UP GAS 6200 U - 8' FLARE
	21:00 - 22:00	1.00	DRLPRO	15	A	P		SM W/ BJ & RIG CREW,TEST LINES TO 4000,PUMP 20 BBLS MUD CLEAN,20 BBLS FW,FOLLOWED BY 340 SKS (258.8 BBLS) LEAD @ 11.0#, 3.38,YIELD,1300 SKS (303.8 BBLS) TAIL@ 14.3, 1.31 YIELD,DISPLACE W/ 156.6 BBLS FW, LOST RETURNS START OF
	22:00 - 0:00	2.00	DRLPRO	14	A	P		DISPLACEMENT,BUMP PLUG W/ 3200 PSI 500 OVER, FLOATS OKAY ,R/D BJ LAY DOWN LANDING JT & SETTING TOOL,SET PACK OFF & TEST TO 5000
								NIPPLE DOWN BOP,CLEAN PITS,PREP RIG FOR SKID,RIG RELEASED @ 12:00 MIDNIGHT 3/28/2009 TO NBU 922-18F4CS

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

Well: NBU 922-18E3BS [YELLOW]

Spud Date: 2/16/2009

Project: UTAH-UINTAH

Site: NBU 922-18L PAD

Rig Name No:

Event: COMPLETION

Start Date: 10/5/2009

End Date: 10/14/2009

Active Datum: RKB @4,925.00ft (above Mean Sea Level)

UWI: NW/SW/0/9/S/22/E/18/0/0/6/PM/S/2,561.00/W/0/1,197.00/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
10/2/2009	7:00 - 7:15	0.25	COMP	48		P		HSM, R/U WIRE LINE
	7:15 - 11:00	3.75	COMP	37	A	P		MIRU CUTTERS WIRE LINE, P/U RIH W/ PERF GUN, PERF MESAVERDE USING 3-3/8 EXPEND, 23 GRM, 0.36" HOLE, 10014'-10018' 4 SPF, 90* PH, 16 HOLES. 9964'-9968' 3 SPF, 120* PH, 12 HOLES. 9878'-9880' 3 SPF, 120* PH, 6 HOLES. 9854'-9856' 3 SPF, 120* PH, 6 HOLES. [40 HOLES] SWI. READY TO FRAC.
10/5/2009	7:00 - 7:15	0.25	COMP	48		P		HSM, REVIEW PERFORATING & FRACING
	7:15 - 17:00	9.75	COMP	36	E	P		FRAC STG STG #1 MESAVERDE 9854'-10018' [40 HOLES]  WHP=1666, BRK DN PERFS @ 3646#, INJ PSI=5810, INJT RT=49, ISIP=2840, FG=.72, PUMP'D 1525 BBLS SLK WTR W/ 52986# 30/50 MESH W/ 5000# RESIN COAT IN TAIL, ISIP=2816#, FG=.72, AR=49.1, AP=5455#, MR=50.4, MP=6759#, NPI=-24#, 33/42 CALC PERFS OPEN.  STG #2] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @ 9792', PERF MESAVERDE USING 3-3/8 EXPEND, 23GRM, 0.36" HOLE, 9760'-9762' 4 SPF, 90* PH, 8 HOLES. 9674'-9676' 4 SPF, 90* PH, 8 HOLES. 9652'-9654' 3 SPF, 120* PH, 6 HOLES. 9634'-9636' 3 SPF, 120* PH, 6 HOLES. 9564'-9568' 3 SPF, 120* PH, 12 HOLES. [40 HOLES]  WHP=2662, BRK DN PERFS @ 3444#, INJ PSI=6050, INJT RT=52, ISIP=2733, FG=.72, PUMP'D 2089 BBLS SLK WTR W/ 83393# 30/50 MESH W/ 5000# RESIN COAT IN TAIL, ISIP=2761#, FG=.72, AR=49.8, AP=6036#, MR=52.3, MP=6824#, NPI=-28#, 31/42 CALC PERFS OPEN.  STG #3] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @ 9540', PERF MESAVERDE USING 3-3/8 EXPEND, 23GRM, 0.36" HOLE, 9506'-9510' 4 SPF, 90* PH, 16 HOLES. 9420'-9422' 3 SPF, 120* PH, 6 HOLES. 9364'-9368' 3 SPF, 120* PH, 12 HOLES. 9274'-9276' 3 SPF, 120* PH, 6 HOLES. [40 HOLES] SWIFN.
10/6/2009	7:00 - 7:15	0.25	COMP	48		P		HSM, WORKING W/ PRESSURE

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

Well: NBU 922-18E3BS [YELLOW]

Spud Date: 2/16/2009

Project: UTAH-UINTAH

Site: NBU 922-18L PAD

Rig Name No:

Event: COMPLETION

Start Date: 10/5/2009

End Date: 10/14/2009

Active Datum: RKB @4,925.00ft (above Mean Sea Level)

UWI: NW/SW/0/9/S/22/E/18/0/0/6/PM/S/2,561.00/W/0/1,197.00/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	7:15 - 18:00	10.75	COMP	36	E	P		<p>STG #3] WHP=2519#, BRK DN PERFS @ 3646#, INJ PSI=5239, INJT RT=50.8, ISIP=2739#, FG=.72, PUMP'D 2075 BBLS SLK WTR W/ 80627# 30/50 MESH W/ 5000# RESIN COAT IN TAIL, ISIP=2713#, FG=.72, AR=50.6, AP=5028#, MR=52.6, MP=6427#, NPI=-26#, 40/40 CALC PERFS OPEN.</p> <p>STG #4] P/U RIH W/ HALIBURTON 8K CBP &amp; PERF GUN, SET CBP @ 9120', PERF MESAVERDE USING 3-3/8 EXPEND, 23 GRM, 0&gt;36" HOLE. 9084'-9090' 3 SPF, 120* PH, 18 HOLES. 9020'-9022' 3 SPF, 120* PH, 6 HOLES. 8942'-8944' 3 SPF, 120* PH, 6 HOLES. 8872'-8875' 3 SPF, 120* PH, 9 HOLES. [39 HOLES]</p> <p>WHP=1997#, BRK DN PERFS @ 2863#, INJ PSI=4350#, INJT RT=50, ISIP=2117, FG=.67, PUMP'D 2610 BBLS SLK WTR W/ 105832# 30/50 MESH W/ 5000# RESIN COAT IN TAIL, ISIP=2259#, FG=.68, AR=51.2, AP=4334#, MR=51.7, MP=4731#, NPI=142#, 39/39 CALC PERFS OPEN.</p> <p>STG #5] P/U RIH W/ HALIBURTON 8K CBP &amp; PERF GUN, SET CBP @ 8690', PERF MESAVERDE USING 3-3/8 EXPEND, 23 GRM, 0&gt;36" HOLE. 8654'-8660' 4 SPF, 90* PH, 24 HOLES. 8632'-8636' 4 SPF, 90* PH, 16 HOLES. [40 HOLES]</p> <p>WHP=1440#, BRK DN PERFS @ 3806#, INJ PSI=5175#, INJT RT=50.6, ISIP=2175, FG=.68, PUMP'D 739 BBLS SLK WTR W/ 25514# 30/50 MESH W/ 5000# RESIN COAT IN TAIL, ISIP=2690#, FG=.74, AR=50, AP=5247#, MR=50.3, MP=5603#, NPI=515#, 34/40 CALC PERFS OPEN.</p> <p>STG #6] P/U RIH W/ HALIBURTON 8K CBP &amp; PERF GUN, SET CBP @ 8395', PERF MESAVERDE USING 3-3/8 EXPEND, 23 GRM, 0&gt;36" HOLE. 8360'-8364' 4 SPF, 90* PH, 16 HHOLES. 8254'-8256' 3 SPF, 120* PH, 6 HOLES. 8172'-8176' 3 SPF, 120* PH, 12 HOLES. 8158'-8160' 3 SPF, 120* PH, 6 HOLES. [40 HOLES] SWIFN. AFTER SETTING PLUG PULLED UP TO SHOOT GUN, WENT SHORT PULLED OUT OF HOLE FIXED PROBLEM, RUN BACK IN HOLE SHOT GUN.</p>
10/7/2009	7:00 - 7:15	0.25	COMP	48		P		HSM, OVER HEAD OBJECTS
	7:15 - 13:00	5.75	COMP	36	E	P		<p>FRAC STG #6 MESAVERDE 8158'-8364' {40 HOLES}</p> <p>WHP=956#, BRK DN PERFS @ 2922#, INJ PSI=4947#, INJ RT=51.3, ISIP=1381#, FG=.60, PUMP'D 1502 BBLS SLK WTR W/ # 30/50 MESH W/ 5000# RESIN COAT IN TAIL, ISIP=2247#, FG=.70, AR=51.4, AP=4666#, MR=56.2, MP=5158#, NPI=866#, 24/40 CALC PERFS OPEN.</p> <p>P/U RIH W/ HALIBURTON 8K CBP FOR TOP KILL, SET @ 8108'. R/D CUTTER WIRE LINE &amp; FRAC TECH EQUIP. SWI.</p>

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

Well: NBU 922-18E3BS [YELLOW]

Spud Date: 2/16/2009

Project: UTAH-UINTAH

Site: NBU 922-18L PAD

Rig Name No:

Event: COMPLETION

Start Date: 10/5/2009

End Date: 10/14/2009

Active Datum: RKB @4,925.00ft (above Mean Sea Level)

UWI: NW/SW/0/9/S/22/E/18/0/0/6/PM/S/2,561.00/W/0/1,197.00/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
10/13/2009	9:00 - 17:00	8.00	COMP	31		P		MIRU, ND WH, NUBOP'S, RIN HOLE WITH PUMP OFF BIT SUB, BIT, SN WITH 2 3/8' 4.7# L-80 TBG.TO 8108'. TAGGED PLUG. SWIFN
10/14/2009	7:00 - 7:30	0.50	COMP	48		P		DRILLING PLUGS
	7:30 - 13:00	5.50	COMP	31		P		RU PSWL DRILL PLUGS. 2 3/8' 4.7# L-80 TBG.TO 8108'. PLUG #1 8108' 30' SAND 10 MIN KICK 400# PLUG #2 8394' 30' SAND 7 MIN KICK 200# PLUG #3 8690' 30' SAND 7 MIN KICK 400# PLUG #4 9274 30' SAND 8 MIN KICK 400# PLUG #5 9540' 25' SAND 7 MIN KICK 300# PLUG #6 9792' 20' SAND 6 MIN N KICK 300# CLEAN OUT TO PBTD 10,071' WITH 317 JTS. CIRC HOLE. POOH WITH 17 JTS TBG TO 9536.28' LAND TBG, ND BOP'S, NU WH, PUMP OFF BIT SUB. 1700#, 300 JTS TBG 9515.25', RDMO TO NBU 922-18F4CS 3.03 SN, EOT 9533', SN 9536' TURNED OVER TO PRODUCTION 1300 hrs.
10/15/2009	7:00 -			33	A			Note: Spools need to be inspected/replaced at a latter date 7 AM FLBK REPORT: CP 2200#, TP 2100#, 20/64" CK, 52 BWPH, LIGHT SAND, LIGHT GAS TTL BBLS RECOVERED: 3277 BBLS LEFT TO RECOVER: 7398
	9:30 -		PROD	50				WELL TURNED TO SALE @ 0930 HR ON 10/15/09 - FTP 2100#, CP 2200#, 1.3 MCFD, 52 BWPH, 20/64 CK
10/16/2009	7:00 -			33	A			7 AM FLBK REPORT: CP 2550#, TP 2150#, 20/64" CK, 43 BWPH, LIGHT SAND, - GAS TTL BBLS RECOVERED: 4416 BBLS LEFT TO RECOVER: 6259
10/17/2009	7:00 -			33	A			7 AM FLBK REPORT: CP 3100#, TP 2100#, 20/64" CK, 34 BWPH, TRACE SAND, - GAS TTL BBLS RECOVERED:5324 BBLS LEFT TO RECOVER:5351
10/18/2009	7:00 -			33	A			7 AM FLBK REPORT: CP 2925#, TP 2000#, 20/64" CK,28 BWPH,TRACE SAND, - GAS TTL BBLS RECOVERED: 6046 BBLS LEFT TO RECOVER: 4629
10/19/2009	7:00 -			33	A			7 AM FLBK REPORT: CP 2725#, TP 1875#, 20/64" CK, 22 BWPH, TRACE SAND, - GAS TTL BBLS RECOVERED: 6630 BBLS LEFT TO RECOVER: 4045



# **ANADARKO PETROLEUM CORP.**

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

**NBU 922-18 PAD EFKL**

**NBU 922-18E3BS**

**1**

**Survey: FINAL**

## **Standard Survey Report**

**30 March, 2009**



**Weatherford®**



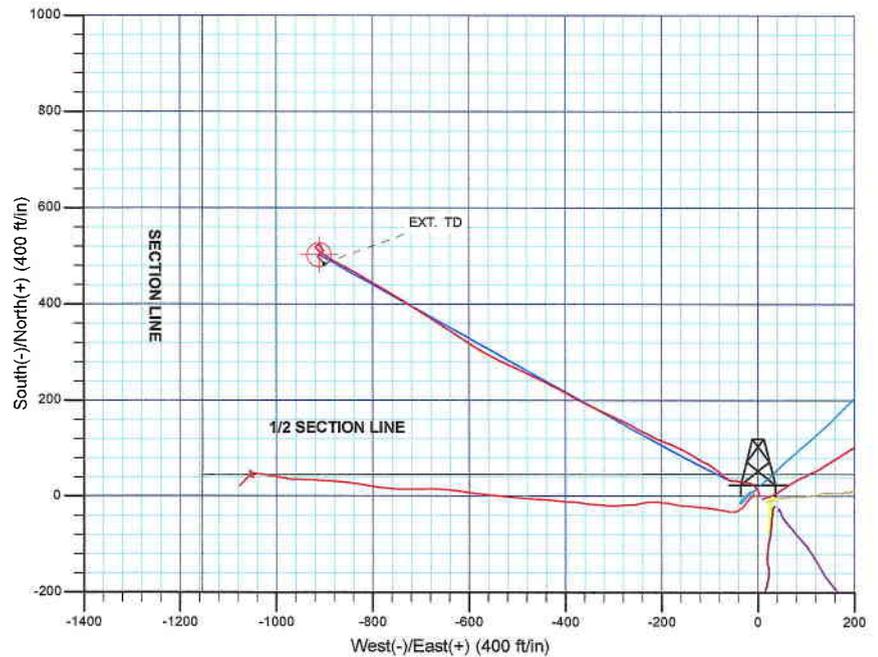
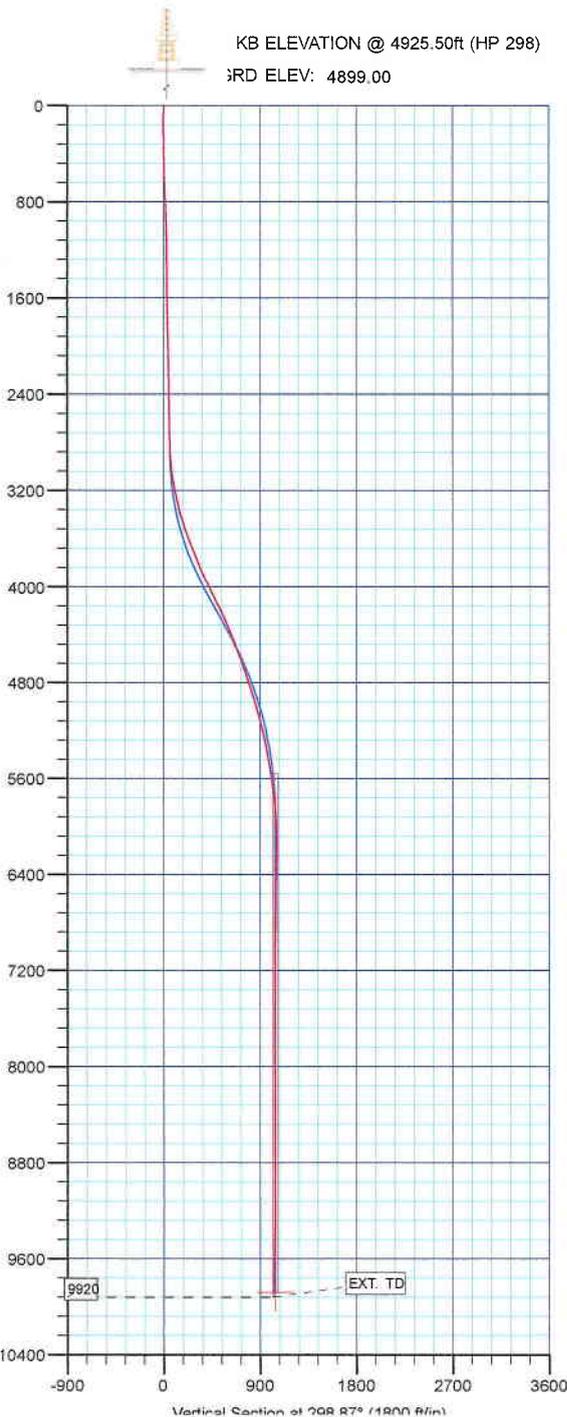
WELL DETAILS: NBU 922-18E3BS						
+N/-S	+E/-W	Northing	Ground Level:	4899.00		
0.00	0.00	14542685.79	Easting	2064276.56	Latitude	40° 2' 8.900 N
					Longitude	109° 29' 8.770 W
					Slot	

EXT TD: (NBU 922-18E3BS/1)								
MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec
10105.00	2.00	128.66	9919.96	484.03	-900.43	0.00	0.00	1022.23

FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
5061.00	5254.54	WASATCH
7813.00	8019.02	MESAVERDE

Azimuths to Grid North  
 True North: -0.97°  
 Magnetic North: 10.42°  
 Magnetic Field  
 Strength: 52590.9snT  
 Dip Angle: 65.99°  
 Date: 3/11/2009  
 Model: BGGM2008

SECTION DETAILS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
2755.00	1.65	270.77	2753.91	33.08	-48.87	0.00	0.00	58.77	
2961.75	1.65	270.77	2960.57	33.16	-54.84	0.00	0.00	64.03	
4051.31	31.41	299.17	3993.73	174.99	-324.65	2.75	29.75	368.79	
4535.58	31.41	299.17	4407.04	297.99	-545.02	0.00	0.00	621.16	
6106.02	0.00	0.00	5900.00	502.58	-911.56	2.00	180.00	1040.93	
10086.02	0.00	0.00	9880.00	502.58	-911.56	0.00	0.00	1040.93	PBHL-E3BS



WELLBORE TARGET DETAILS (LAT/LONG)						
Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
PBHL-E3BS	9880.00	502.58	-911.56	40° 2' 14.020 N	109° 29' 20.380 W	Circle (Radius: 25.00)

CASING DETAILS			
TVD	MD	Name	Size
2753.91	2755.00	9 5/8"	9.62

**Company:** ANADARKO PETROLEUM CORP.  
**Project:** UINTAH COUNTY, UTAH (nad 27)  
**Site:** NBU 922-18 PAD EFKL  
**Well:** NBU 922-18E3BS  
**Wellbore:** 1  
**Design:** 1

**Local Co-ordinate Reference:** Well NBU 922-18E3BS  
**TVD Reference:** KB ELEVATION @ 4925.50ft (HP 298)  
**MD Reference:** KB ELEVATION @ 4925.50ft (HP 298)  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM 2003.21 Single User Db

<b>Project</b>	UINTAH COUNTY, UTAH (nad 27),		
<b>Map System:</b>	Universal Transverse Mercator (US Survey Fee	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	NAD 1927 - Western US		
<b>Map Zone:</b>	Zone 12N (114 W to 108 W)		

<b>Site</b>	NBU 922-18 PAD EFKL, SEC 18 T9S R22E				
<b>Site Position:</b>		<b>Northing:</b>	14,542,660.22 ft	<b>Latitude:</b>	40° 2' 8.640 N
<b>From:</b>	Lat/Long	<b>Easting:</b>	2,064,319.77 ft	<b>Longitude:</b>	109° 29' 8.220 W
<b>Position Uncertainty:</b>	0.00 ft	<b>Slot Radius:</b>	0.00 in	<b>Grid Convergence:</b>	0.97 °

<b>Well</b>	NBU 922-18E3BS					
<b>Well Position</b>	<b>+N/-S</b>	0.00 ft	<b>Northing:</b>	14,542,685.79 ft	<b>Latitude:</b>	40° 2' 8.900 N
	<b>+E/-W</b>	0.00 ft	<b>Easting:</b>	2,064,276.56 ft	<b>Longitude:</b>	109° 29' 8.770 W
<b>Position Uncertainty</b>		0.00 ft	<b>Wellhead Elevation:</b>	ft	<b>Ground Level:</b>	4,899.00 ft

<b>Wellbore</b>	1				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	BGGM2008	3/11/2009	11.39	65.99	52,591

<b>Design</b>	1				
<b>Audit Notes:</b>					
<b>Version:</b>	1.0	<b>Phase:</b>	ACTUAL	<b>Tie On Depth:</b>	0.00
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>	
	0.00	0.00	0.00	298.87	

<b>Survey Program</b>	<b>Date</b>	3/30/2009			
<b>From (ft)</b>	<b>To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>	
141.00	10,105.00	Survey #1 (1)	MWD	MWD - Standard	

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
141.00	0.38	67.79	141.00	0.18	0.43	-0.29	0.27	0.27	0.00
203.00	0.88	34.29	203.00	0.65	0.89	-0.47	0.97	0.81	-54.03
295.00	1.69	0.41	294.97	2.59	1.30	0.11	1.17	0.88	-36.83
387.00	2.25	348.91	386.92	5.72	0.96	1.92	0.74	0.61	-12.50
479.00	2.50	352.66	478.84	9.48	0.36	4.26	0.32	0.27	4.08
570.00	2.25	331.54	569.76	13.02	-0.75	6.94	0.99	-0.27	-23.21
662.00	2.44	319.79	661.69	16.10	-2.87	10.29	0.56	0.21	-12.77
754.00	2.75	317.66	753.59	19.23	-5.62	14.21	0.35	0.34	-2.32
846.00	3.31	309.04	845.46	22.53	-9.17	18.91	0.78	0.61	-9.37
938.00	2.63	309.91	937.34	25.56	-12.85	23.60	0.74	-0.74	0.95
1,031.00	0.75	289.91	1,030.29	27.14	-15.06	26.29	2.09	-2.02	-21.51
1,123.00	0.69	298.16	1,122.29	27.60	-16.12	27.44	0.13	-0.07	8.97

**Company:** ANADARKO PETROLEUM CORP.  
**Project:** Uintah County, Utah (nad 27)  
**Site:** NBU 922-18 PAD EFKL  
**Well:** NBU 922-18E3BS  
**Wellbore:** 1  
**Design:** 1

**Local Co-ordinate Reference:** Well NBU 922-18E3BS  
**TVD Reference:** KB ELEVATION @ 4925.50ft (HP 298)  
**MD Reference:** KB ELEVATION @ 4925.50ft (HP 298)  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM 2003.21 Single User Db

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
1,217.00	0.56	274.91	1,216.28	27.91	-17.07	28.43	0.30	-0.14	-24.73
1,312.00	0.88	292.54	1,311.27	28.23	-18.21	29.58	0.41	0.34	18.56
1,406.00	0.58	270.86	1,405.27	28.51	-19.35	30.71	0.43	-0.32	-23.06
1,501.00	1.06	290.54	1,500.26	28.83	-20.66	32.01	0.58	0.51	20.72
1,596.00	0.81	286.79	1,595.24	29.33	-22.12	33.53	0.27	-0.26	-3.95
1,690.00	1.13	263.04	1,689.23	29.41	-23.68	34.94	0.54	0.34	-25.27
1,785.00	1.19	284.54	1,784.21	29.54	-25.56	36.65	0.46	0.06	22.63
1,880.00	1.38	295.16	1,879.19	30.28	-27.55	38.75	0.32	0.20	11.18
1,975.00	1.69	270.79	1,974.16	30.78	-29.99	41.13	0.75	0.33	-25.65
2,069.00	2.19	263.91	2,068.10	30.61	-33.16	43.82	0.59	0.53	-7.32
2,164.00	1.13	283.54	2,163.06	30.64	-35.88	46.21	1.25	-1.12	20.66
2,259.00	1.25	284.04	2,258.04	31.11	-37.79	48.12	0.13	0.13	0.53
2,354.00	1.25	272.91	2,353.02	31.41	-39.83	50.05	0.26	0.00	-11.72
2,449.00	1.31	266.79	2,447.99	31.41	-41.95	51.90	0.16	0.06	-6.44
2,544.00	1.25	295.41	2,542.97	31.79	-43.97	53.86	0.67	-0.06	30.13
2,639.00	1.13	293.71	2,637.95	32.61	-45.77	55.82	0.13	-0.13	-1.79
2,700.00	1.75	276.91	2,698.93	32.96	-47.24	57.29	1.22	1.02	-27.54
2,819.00	1.57	262.80	2,817.88	32.98	-50.66	60.29	0.37	-0.15	-11.86
2,914.00	4.06	275.66	2,912.76	33.15	-55.30	64.43	2.69	2.62	13.54
3,009.00	6.94	300.16	3,007.33	36.36	-63.61	73.26	3.85	3.03	25.79
3,103.00	10.56	311.79	3,100.22	44.96	-74.95	87.34	4.27	3.85	12.37
3,198.00	12.44	307.79	3,193.31	57.03	-89.53	105.94	2.15	1.98	-4.21
3,293.00	13.75	298.04	3,285.85	68.61	-107.58	127.34	2.70	1.38	-10.26
3,388.00	16.38	299.91	3,377.58	80.60	-129.16	152.03	2.81	2.77	1.97
3,482.00	20.11	300.19	3,466.84	95.34	-154.63	181.44	3.97	3.97	0.30
3,577.00	21.33	289.56	3,555.72	109.34	-185.04	214.83	4.16	1.28	-11.19
3,672.00	23.45	296.00	3,643.57	123.42	-218.32	250.77	3.41	2.23	6.78
3,766.00	24.38	299.29	3,729.50	141.11	-252.05	288.86	1.73	0.99	3.50
3,861.00	25.19	295.19	3,815.76	159.31	-287.45	328.64	2.00	0.85	-4.32
3,956.00	26.50	295.66	3,901.25	177.09	-324.85	369.98	1.40	1.38	0.49
4,051.00	30.06	296.41	3,984.90	196.86	-365.28	414.93	3.77	3.75	0.79
4,146.00	28.31	300.04	4,067.85	218.72	-406.09	461.23	2.62	-1.84	3.82
4,240.00	29.81	295.91	4,150.02	240.09	-446.41	506.85	2.66	1.60	-4.39
4,333.00	27.63	295.04	4,231.57	259.33	-486.75	551.46	2.39	-2.34	-0.94
4,428.00	24.81	294.41	4,316.79	276.89	-524.86	593.32	2.98	-2.97	-0.66
4,523.00	24.88	297.79	4,403.00	294.44	-560.69	633.17	1.50	0.07	3.56
4,618.00	23.25	302.66	4,489.75	313.88	-594.16	671.87	2.70	-1.72	5.13
4,711.00	22.19	304.54	4,575.53	333.75	-624.09	707.66	1.38	-1.14	2.02
4,806.00	20.94	302.79	4,663.88	353.11	-653.14	742.45	1.48	-1.32	-1.84
4,900.00	20.88	302.79	4,751.69	371.28	-681.34	775.92	0.06	-0.06	0.00
4,995.00	20.69	301.91	4,840.51	389.32	-709.82	809.57	0.38	-0.20	-0.93
5,090.00	19.31	301.54	4,929.78	406.41	-737.45	842.02	1.46	-1.45	-0.39
5,185.00	17.31	301.41	5,019.96	421.99	-762.90	871.84	2.11	-2.11	-0.14
5,279.00	15.63	299.41	5,110.10	435.50	-785.87	898.47	1.89	-1.79	-2.13
5,374.00	15.50	301.41	5,201.62	448.40	-807.85	923.95	0.58	-0.14	2.11
5,468.00	13.63	300.04	5,292.60	460.49	-828.16	947.57	2.02	-1.99	-1.46
5,562.00	12.19	299.66	5,384.22	470.95	-846.38	968.57	1.53	-1.53	-0.40
5,657.00	10.69	298.04	5,477.33	480.05	-862.87	987.41	1.61	-1.58	-1.71
5,720.00	9.56	296.04	5,539.35	485.10	-872.73	998.48	1.88	-1.79	-3.17
5,783.00	9.56	301.54	5,601.47	490.13	-881.89	1,008.93	1.45	0.00	8.73
5,877.00	8.44	302.29	5,694.31	497.90	-894.37	1,023.61	1.20	-1.19	0.80
5,972.00	6.75	304.41	5,788.48	504.78	-904.87	1,036.13	1.80	-1.78	2.23
6,066.00	5.06	313.41	5,881.98	510.75	-912.44	1,045.64	2.04	-1.80	9.57
6,161.00	2.31	308.41	5,976.77	514.82	-916.99	1,051.59	2.91	-2.89	-5.26

**Company:** ANADARKO PETROLEUM CORP.  
**Project:** UINTAH COUNTY, UTAH (nad 27)  
**Site:** NBU 922-18 PAD EFKL  
**Well:** NBU 922-18E3BS  
**Wellbore:** 1  
**Design:** 1

**Local Co-ordinate Reference:** Well NBU 922-18E3BS  
**TVD Reference:** KB ELEVATION @ 4925.50ft (HP 298)  
**MD Reference:** KB ELEVATION @ 4925.50ft (HP 298)  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM 2003.21 Single User Db

### Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
6,254.00	1.63	344.41	6,069.72	517.26	-918.81	1,054.36	1.48	-0.73	38.71
6,349.00	2.44	51.16	6,164.67	519.83	-917.60	1,054.54	2.46	0.85	70.26
6,443.00	2.06	46.54	6,258.60	522.25	-914.81	1,053.27	0.45	-0.40	-4.91
6,538.00	1.69	47.79	6,353.55	524.36	-912.54	1,052.30	0.39	-0.39	1.32
6,632.00	1.06	118.29	6,447.52	524.88	-910.74	1,050.98	1.77	-0.67	75.00
6,728.00	1.31	149.79	6,543.50	523.51	-909.41	1,049.15	0.72	0.26	32.81
6,823.00	0.75	162.04	6,638.49	521.98	-908.67	1,047.76	0.63	-0.59	12.89
6,918.00	1.31	153.91	6,733.47	520.41	-908.00	1,046.42	0.61	0.59	-8.56
7,013.00	1.38	153.66	6,828.45	518.41	-907.02	1,044.59	0.07	0.07	-0.26
7,108.00	1.00	173.04	6,923.43	516.57	-906.41	1,043.17	0.58	-0.40	20.40
7,203.00	1.24	173.18	7,018.41	514.72	-906.19	1,042.08	0.25	0.25	0.15
7,298.00	0.38	101.04	7,113.40	513.64	-905.75	1,041.18	1.24	-0.91	-75.94
7,392.00	0.44	92.54	7,207.40	513.57	-905.09	1,040.56	0.09	0.06	-9.04
7,487.00	0.56	138.79	7,302.39	513.20	-904.42	1,039.80	0.43	0.13	48.68
7,584.00	0.75	146.91	7,399.39	512.31	-903.76	1,038.79	0.22	0.20	8.37
7,679.00	0.94	123.79	7,494.38	511.36	-902.77	1,037.47	0.41	0.20	-24.34
7,773.00	0.94	246.41	7,588.37	510.62	-902.84	1,037.17	1.75	0.00	130.45
7,867.00	1.31	217.54	7,682.35	509.46	-904.20	1,037.80	0.71	0.39	-30.71
7,962.00	1.56	200.41	7,777.32	507.39	-905.31	1,037.78	0.52	0.26	-18.03
8,057.00	1.00	225.66	7,872.30	505.59	-906.36	1,037.82	0.82	-0.59	26.58
8,151.00	1.38	208.16	7,966.28	504.02	-907.48	1,038.05	0.55	0.40	-18.62
8,246.00	0.75	275.91	8,061.27	503.08	-908.63	1,038.61	1.37	-0.66	71.32
8,341.00	0.38	292.66	8,156.26	503.26	-909.54	1,039.49	0.42	-0.39	17.63
8,435.00	0.63	246.16	8,250.26	503.18	-910.30	1,040.11	0.49	0.27	-49.47
8,530.00	0.31	231.54	8,345.26	502.80	-910.98	1,040.53	0.36	-0.34	-15.39
8,625.00	0.50	263.04	8,440.25	502.59	-911.60	1,040.97	0.30	0.20	33.16
8,720.00	0.75	215.04	8,535.25	502.04	-912.36	1,041.37	0.59	0.26	-50.53
8,814.00	0.88	191.16	8,629.24	500.82	-912.86	1,041.21	0.38	0.14	-25.40
8,909.00	0.44	194.41	8,724.23	499.75	-913.09	1,040.90	0.46	-0.46	3.42
9,004.00	1.13	197.29	8,819.22	498.51	-913.46	1,040.62	0.73	0.73	3.03
9,098.00	0.31	27.79	8,913.22	497.85	-913.62	1,040.44	1.53	-0.87	-180.32
9,193.00	0.25	104.04	9,008.22	498.02	-913.29	1,040.25	0.37	-0.06	80.26
9,287.00	0.31	157.91	9,102.22	497.74	-913.00	1,039.85	0.28	0.06	57.31
9,381.00	0.44	167.91	9,196.21	497.15	-912.83	1,039.42	0.15	0.14	10.64
9,475.00	0.69	128.16	9,290.21	496.45	-912.31	1,038.62	0.48	0.27	-42.29
9,570.00	1.25	142.91	9,385.20	495.27	-911.23	1,037.11	0.64	0.59	15.53
9,665.00	1.50	135.66	9,480.17	493.55	-909.74	1,034.97	0.32	0.26	-7.63
9,760.00	1.56	140.16	9,575.14	491.67	-908.04	1,032.58	0.14	0.06	4.74
9,854.00	1.69	143.29	9,669.10	489.58	-906.39	1,030.12	0.17	0.14	3.33
9,948.00	1.81	133.41	9,763.05	487.44	-904.49	1,027.42	0.34	0.13	-10.51
10,053.00	2.00	128.66	9,868.00	485.16	-901.85	1,024.01	0.24	0.18	-4.52
EXT. TD									
10,105.00	2.00	128.66	9,919.96	484.03	-900.43	1,022.23	0.00	0.00	0.00

### Survey Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
10,105.00	9,919.96	484.03	-900.43	EXT. TD

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



# Weatherford®

## **Weatherford International, Ltd**

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+1.303.825.6558 Denver, Colorado

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<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>  <b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-0359
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b> UTE  <b>7. UNIT or CA AGREEMENT NAME:</b> NATURAL BUTTES
<b>1. TYPE OF WELL</b> Gas Well	<b>8. WELL NAME and NUMBER:</b> NBU 922-18E3BS
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.	<b>9. API NUMBER:</b> 43047398030000
<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> 2561 FSL 1197 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NESW Section: 18 Township: 09.0S Range: 22.0E Meridian: S	<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES  <b>COUNTY:</b> UINTAH  <b>STATE:</b> UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 8/3/2010  <input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:  <input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:  <input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input checked="" type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>

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

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

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

Date: August 19, 2010  
By: *Danielle Piernot*

<b>NAME (PLEASE PRINT)</b> Danielle Piernot	<b>PHONE NUMBER</b> 720 929-6156	<b>TITLE</b> Regulatory Analyst
<b>SIGNATURE</b> N/A		<b>DATE</b> 8/3/2010



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

- State of Utah
- Department of Natural Resources

**Electronic Permitting System - Sundry Notices**

**Sundry Conditions of Approval Well Number 43047398030000**

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

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

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

# Greater Natural Buttes Unit



**NBU 922-18E3BS**  
**RE-COMPLETIONS PROCEDURE**

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

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

**SIGNATURE:**

**ENGINEERING MANAGER:** JEFF DUFRESNE

**SIGNATURE:**

**REMEMBER SAFETY FIRST!**

**Name:** NBU 922-18E3BS  
**Location:** NW SW SW NW Sec. 18 T9S R22E  
**Uintah County, UT**  
**Date:** 7/23/2010

**ELEVATIONS:** 4899 GL 4925 KB

**TOTAL DEPTH:** 10105 **PBTD:** 10071  
**SURFACE CASING:** 9 5/8", 36# J-55 ST&C @ 2717'  
**PRODUCTION CASING:** 4 1/2", 11.6#, I-80 LT&C @ 10094'  
 Marker Joint **5098-5119'**

**TUBULAR PROPERTIES:**

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

**TOPS:**

1791' Green River  
 2089' Birds Nest  
 2553' Mahogany  
 4883' Wasatch  
 7913' Mesaverde  
 10105' Bottom of Mesaverde (TD)

CBL indicates good cement below N/A.

**GENERAL:**

- A minimum of **13** tanks (cleaned lined 500 bbl) of recycled water will be required. Note: Use biocide in tanks and the water needs to be at least 45°F at pump time.
- All perforation depths are from Halliburtons Induction-Density-Neutron log dated 3/27/09
- **4** fracturing stages required for coverage.
- Procedure calls for **5** CBP's (**8000** psi).
- Calculate open perforations after each breakdown. If less than 60% of the perforations appear to be open, ball out with 15% HCl.
- Pump scale inhibitor at 3 gal/1000 during pad and sand ramp up to 1.25 ppg. Pump at 10 gal/1000 during flush.
- 30/50 mesh Ottawa sand, **Slickwater frac.**
- Maximum surface pressure **7000** psi.
- Flush volumes are the sum of slick water and acid used during displacement (include scale inhibitor as mentioned above). Stage acid and scale inhibitor if necessary to cover the next perforated interval.

- **Call flush at 0 PPG @ inline densimeters. Slow to 5 bbl/min over last 10-20 bbls of flush. Flush to top perf.**
- **If distance between plug and top perf of previous stage is less than 50', it is considered to be tight spacing - over flush stage by 5 bbls (from top perf)**
- Service companies need to provide surface/production annulus pop-offs to be set for 1500 psi for each frac.
- Pump a **curable resin coated sand (such as SLC)** last 5,000# of all frac stages
- Tubing Currently Landed @~9543
- Originally completed on 9/30/09

**Existing Perforations:**

Zone	Perfs		SPF	Holes
	Top, ft.	Bot., ft		
MESAVERDE	8158	8160	3	6
MESAVERDE	8172	8176	3	12
MESAVERDE	8254	8256	3	6
MESAVERDE	8360	8364	4	16
MESAVERDE	8632	8636	4	16
MESAVERDE	8654	8660	4	24
MESAVERDE	8872	8875	3	9
MESAVERDE	8942	8944	3	6
MESAVERDE	9020	9022	3	6
MESAVERDE	9084	9090	3	18
MESAVERDE	9274	9276	3	6
MESAVERDE	9364	9368	3	12
MESAVERDE	9420	9422	3	6
MESAVERDE	9506	9510	4	16
MESAVERDE	9564	9568	3	12
MESAVERDE	9634	9636	3	6
MESAVERDE	9652	9654	3	6
MESAVERDE	9674	9676	4	8
MESAVERDE	9760	9762	4	8
MESAVERDE	9854	9856	3	6
MESAVERDE	9878	9880	3	6
MESAVERDE	9964	9968	3	12
MESAVERDE	10014	10018	4	16

**PROCEDURE:**

1. MIRU. Control well with recycled water and biocide as required. ND WH, NU BOP's and test.
2. TOO H with 2-3/8", 4.7#, J-55 (or N-80) tubing (currently landed at ~9543'). Visually inspect for scale and consider replacing if needed.
3. If tbg looks ok consider running a gauge ring to 8116 (50' below proposed CBP). Otherwise P/U a mill and C/O to 8116 (50' below proposed CBP).
4. Set 8000 psi CBP at ~ 8066'. Pressure test BOP and casing to 6000 psi. .
5. Perf the following with 3-3/8" gun, 23 gm, 0.36"hole:

Zone	From	To	spf	# of shots
WASATCH	7820	7824	3	12
WASATCH	8008	8010	4	8
WASATCH	8030	8036	3	18
6. Breakdown perfs and establish injection rate (include scale inhibitor in fluid). Spot 250 gal of 15% HCL and let soak. Fracture as outlined in Stage 1 on attached listing. Under-displace to ~7820' and trickle 250gal 15%HCL w/ scale inhibitor in flush .
7. Set 8000 psi CBP at ~7366'. Perf the following 3-3/8" gun, 23 gm, 0.36"hole:

Zone	From	To	spf	# of shots
WASATCH	7328	7336	4	32
8. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 2 on attached listing. Under-displace to ~7328' and trickle 250gal 15%HCL w/ scale inhibitor in flush.
9. Set 8000 psi CBP at ~6884'. Perf the following with 3-3/8" gun, 23 gm, 0.36" hole:

Zone	From	To	spf	# of shots
WASATCH	6730	6736	3	18
WASATCH	6850	6854	4	16
10. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 3 on attached listing. Under-displace to ~6730' trickle 250gal 15%HCL w/ scale inhibitor in flush.
11. Set 8000 psi CBP at ~5952'. Perf the following with 3-3/8" gun, 23 gm, 0.36" hole:

Zone	From	To	spf	# of shots
WASATCH	5912	5922	4	40
12. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 9 on attached listing. Under-displace to ~5912' and flush only with recycled water.
13. Set 8000 psi CBP at~5862'.
14. TIH with 3 7/8" mill, pump off sub, SN and tubing.

15. Mill ALL plugs and clean out to PBSD at 1071. Land tubing at  $\pm 9534'$  pump off bit and bit sub. This well WILL be commingled at this time.
16. Clean out well with foam and/or swabbing unit until steady flow has been established from recomplete.
17. RDMO

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

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

NOTES:

Name NBU 922-18E3BS  
 Perforation and CBP Summary

Stage	Zones	Perforations		SPF	Holes	Fracture Coverage		
		Top, ft	Bottom, ft					
1	WASATCH	7820	7824	3	12	7816.5	to	7826.5
	WASATCH	8008	8010	4	8	7991	to	8014.5
	WASATCH	8030	8036	3	18	8019.5	to	8045
	WASATCH							
	WASATCH							
	WASATCH							
	WASATCH							
	# of Perfs/stage				Look	38	CBP DEPTH	7,366
2	WASATCH	7328	7336	4	32	7321.5	to	7340
	WASATCH							
	WASATCH							
	WASATCH							
	WASATCH							
	WASATCH							
	WASATCH							
	# of Perfs/stage				Look	32	CBP DEPTH	6,884
3	WASATCH	6730	6736	3	18	6723.5	to	6739
	WASATCH	6850	6854	4	16	6848	to	6856.5
	WASATCH							
	WASATCH							
	WASATCH							
	WASATCH							
	WASATCH							
	# of Perfs/stage				Look	34	CBP DEPTH	5,952
4	WASATCH	5912	5922	4	40	5894	to	5941
	WASATCH							
	WASATCH							
	WASATCH							
	WASATCH							
	WASATCH							
	WASATCH							
	# of Perfs/stage					40	CBP DEPTH	5,862
Totals					144			



<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-0359
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 922-18E3BS	
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.	<b>9. API NUMBER:</b> 43047398030000	
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	<b>PHONE NUMBER:</b> 720 929-6515 Ext	<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 2561 FSL 1197 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NESW Section: 18 Township: 09.0S Range: 22.0E Meridian: S	<b>COUNTY:</b> UINTAH	
		<b>STATE:</b> UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input checked="" type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input 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 checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 8/2/2011	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION	<input type="checkbox"/> SPUD REPORT Date of Spud:
<input type="checkbox"/> DRILLING REPORT Report Date:	OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. THE OPERATOR HAS PERFORMED A RECOMPLETION ON THE SUBJECT WELL. THE OPERATOR HAS RECOMPLETED THE WASATCH FORMATION. THE OPERATOR HAS COMMINGLED THE NEWLY WASATCH FORMATION ALONG WITH THE EXISTING MESAVERDE FORMATION. THE SUBJECT WELL WAS PLACED ON PRODUCTION ON 08/02/2011 AT 12:00 PM. THE CHRONOLOGICAL WELL HISTORY WILL BE SUBMITTED WITH THE WELL COMPLETION REPORT.		
<b>NAME (PLEASE PRINT)</b> Sheila Wopsock	<b>PHONE NUMBER</b> 435 781-7024	<b>TITLE</b> Regulatory Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 8/9/2011	

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

**WELL COMPLETION OR RECOMPLETION REPORT AND LOG**

5. Lease Serial No.  
UTU0359

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

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.  
UTU63047A

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

8. Lease Name and Well No.  
NBU 922-18E3BS

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

9. API Well No.  
43-047-39803

4. Location of Well (Report location clearly and in accordance with Federal requirements)\*  
 At surface **NESW 2561FSL 1197FWL 40.035810 N Lat, 109.485770 W Lon**  
 At top prod interval reported below **SWNW 2223FNL 289FWL**  
 At total depth **SWNW 2242FNL 297FWL**

10. Field and Pool, or Exploratory  
NATURAL BUTTES

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

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

14. Date Spudded **11/01/2008** 15. Date T.D. Reached **03/27/2009** 16. Date Completed  
 D & A  Ready to Prod. **08/02/2011**

17. Elevations (DF, KB, RT, GL)\*  
4899 GL

18. Total Depth: MD **10105** TVD **9919** 19. Plug Back T.D.: MD **10071** TVD **9885** 20. Depth Bridge Plug Set: MD **MD** TVD **TVD**

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)  
**DSN/SDL/ACRT-BHV-CHI-GR-CCL** *Original Logs*

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

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

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
20.000	14.000 STL	36.7		40		28			
12.250	9.625 J-55	36.0		2716		685		0	
7.875	4.500 I-80	11.6		10068		1730		4250	

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.375	7324							

25. Producing Intervals 26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) WASATCH	5915	8033	5915 TO 8033	0.360	104	OPEN
B)						
C)						
D)						

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

Depth Interval	Amount and Type of Material
5915 TO 8033	PUMP 4,049 BBLs SLICK H2O 119,163 LBS SAND

**RECEIVED**  
**SEP 07 2011**

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
08/02/2011	08/19/2011	24	→	17.0	787.0	45.0			FLows FROM WELL
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
26/64	SI 267	383.0	→	17	787	45		PGW	

DIV. OF OIL, GAS & MINING

28a. Production - Interval B

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

28b. Production - Interval C

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

28c. Production - Interval D

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

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

30. Summary of Porous Zones (Include Aquifers):

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

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
GREEN RIVER	1742				
BIRD'S NEST	1941				
MAHOGANY	2588				
WASATCH	5260				
MESAVERDE	8026	10105			

32. Additional remarks (include plugging procedure):

Attached is the chronological recompletion history and perforation report.

33. Circle enclosed attachments:

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

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

**Electronic Submission #116248 Verified by the BLM Well Information System.  
 For KERR MCGEE OIL & GAS ONSHORE,L, sent to the Vernal**

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

Signature \_\_\_\_\_ (Electronic Submission) Date 08/26/2011

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

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

Well: NBU 922-18E3BS [BLUE] CHECK  
SPACER SPOOL

Spud Date: 2/16/2009

Project: UTAH-UINTAH	Site: NBU 922-18L PAD	Rig Name No: GWS 1/1
Event: RECOMPL/RESEREVEADD	Start Date: 7/12/2011	End Date: 7/29/2011
Active Datum: RKB @4,925.00ft (above Mean Sea Level)		UWI: NW/SW/09/S/22/E/18/0/0/6/PM/S/2,561.00/W/0/1,197.00/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
7/15/2011	9:00 - 9:15	0.25	COMP	48		P		HSM & JSA W/ROYAL WELL SERVICE. MIRU - SPOT EQUIP. WHP = 60 PSI TBG, 60 PSI CSG. PMP 15 BBLS DWN TBG & 25 BBLS DWN CSG TO CONTROL WELL. NDWH, NU BOP. LD TBG HNGR. (PULLED 78,000# TO UNSET HNGR (SCALED IN) - 72,000# TO COME OFF BTM) SCAN TBG OUT OF HOLE. (300 JTS SCANNED OUT - 3 BAD JTS - GUALDED PINS) RDMO B & C QUICK TEST. MIRU CUTTERS WIRELINE. PU 4.5" HALCO 10K CBP. RIH SET CBP @ 8070'. RDMO CUTTERS. LOAD CSG W/TMAC. SWI - RDMO WELL. SDFWE.
	9:15 - 16:30	7.25	COMP	31	I	P		
7/27/2011	7:00 - 15:00	8.00	COMP	47	B	P		MIRU B&C TESTERS, PRESSURE TEST CSG, 1000# W/ # LOSS IN 15 MIN. BUMP UP TO 3500# W/ # LOSS IN 15 MIN. BUMP UP TO 6200# W/ # LOSS IN 30 MIN, BUMP BACK UP TO 6200# W/ # LOSS IN 30 MIN. [GOOD TEST]
7/28/2011	7:00 - 10:00	3.00	COMP	48		P		MIRU / HSM, STAYING AWAY FROM PRESSURE LINES

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

Well: NBU 922-18E3BS [BLUE] CHECK  
SPACER SPOOL

Spud Date: 2/16/2009

Project: UTAH-UINTAH

Site: NBU 922-18L PAD

Rig Name No: GWS 1/1

Event: RECOMPL/RESEREVEADD

Start Date: 7/12/2011

End Date: 7/29/2011

Active Datum: RKB @4,925.00ft (above Mean Sea Level)

UWI: NW/SW/0/9/S/22/E/18/0/0/6/PM/S/2,561.00/W/0/1,197.00/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	10:00 - 10:00	0.00	COMP	36	E	P		<p>P/U RIH W/ PERF GUN, PERF WASATCH USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW</p> <p>FRAC STG #1] WHP=323#, BRK DN PERFS=2,850#, @=4.6 BPM, INJ RT=43.7, INJ PSI=4,801#, ISIP=1,761#, FG=.66, PUMP'D 826 BBLs SLK WTR W/ 19,303# 30/50 MESH TOTAL PROP PUMP'D, ISIP=2,279#, FG=.73, AR=48.3, AP=49.3, MR=50.5, MP=5,636#, NPI=518#, 17/22 78% CALC PERFS OPEN. X OVER TO WIRE LINE</p> <p>PERF STG #2] P/U RIH W/ HALIBURTON 8K CBP &amp; PERF GUN, SET CBP @=7,364', PERF WASATCH USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW</p> <p>FRAC STG #2] WHP=444#, BRK DN PERFS=3,012#, @=4.4 BPM, INJ RT=45.3, INJ PSI=#, ISIP=4,724#, FG=.59, PUMP'D 633 BBLs SLK WTR W/ 17,006# 30/50 MESH TOTAL PROP PUMP'D, ISIP=1,905#, FG=.70, AR=51.4, AP=3,968#, MR=50.8, MP=4,755#, NPI=814#, 16/24 65% CALC PERFS OPEN. X OVER TO WIRE LINE</p> <p>PERF STG #3] P/U RIH W/ HALIBURTON 8K CBP &amp; PERF GUN, SET CBP @=6,884', PERF WASATCH USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW</p> <p>FRAC STG #3] WHP=480#, BRK DN PERFS=2,216#, @=4.5 BPM, INJ RT=50.3, INJ PSI=3,682#, ISIP=1,415#, FG=.65, PUMP'D 741 BBLs SLK WTR W/ 21,189# 30/50 MESH TOTAL PROP PUMP'D, ISIP=1,193#, FG=.61, AR=50.7, AP=3,250#, MR=51.1, MP=4,370#, NPI=-222#, 26/34 77% CALC PERFS OPEN. X OVER TO WIRE LINE</p> <p>PERF STG #4] P/U RIH W/ HALIBURTON 8K CBP &amp; PERF GUN, SET CBP @=5,951', PERF WASATCH USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW</p> <p>FRAC STG #4] WHP=342#, BRK DN PERFS=1,151#, @=4.2 BPM, INJ RT=50.8, INJ PSI=3,282#, ISIP=682#, FG=.55, PUMP'D 1,849 BBLs SLK WTR W/ 61,666# 30/50 MESH TOTAL PROP PUMP'D, ISIP=1,714#, FG=.73, AR=50.7, AP=3,232#, MR=51.1, MP=4,346#, NPI=1,032#, 22/24 92% CALC PERFS OPEN. X OVER TO WIRE LINE</p> <p>P/U RIH W/ HALIBURTON 8K CBP, SET FOR TOP KILL @=5,865'</p> <p>4,049 TOTAL BBLs PUMP'D 119,163# TOTAL SAND PUMP'D 469 GALS SCALE INHIB 86 GALS BIO</p>

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

Well: NBU 922-18E3BS [BLUE] CHECK  
SPACER SPOOL

Spud Date: 2/16/2009

Project: UTAH-UINTAH

Site: NBU 922-18L PAD

Rig Name No: GWS 1/1

Event: RECOMPL/RESEREVEADD

Start Date: 7/12/2011

End Date: 7/29/2011

Active Datum: RKB @4,925.00ft (above Mean Sea Level)

UWI: NW/SW/0/9/S/22/E/18/0/0/6/PM/S/2,561.00/W/0/1,197.00/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
7/29/2011	7:00 - 20:00	13.00	COMP	30	A	P		<p>7AM [DAY4] JSA --P/U TBG, PINCH PTS, RABBIT, FOAM UNIT.</p> <p>ROAD RIG FROM NBU 922-18K PAD TO NBU 922-18L PAD. MIRU ON NBU 922-18E3BS. SPOT EQUIPMENT, PIPE RACKS, CAT WALK &amp; FOAM UNIT. NDFV, NUBOP, R/U FLOOR &amp; TBG EQUIPMENT. P/U 3-7/8" FLOW TECH MILL, PMP OPEN SUB W/ XN, 2-3/8" L-80 YELL BND TBG &amp; RIH. [SLM &amp; DRIFTED] TAG SAND @ 5845'. R/U SWVL &amp; RIG PMP. ESTABLISH CIRCULATION. P.T. BOP TO 3000#. LOST 0# IN 15 MINUTES. C/O 20' SAND TO CBP#1.</p> <p>[DRLG CBP#1] @ 5865'. D/O HALL 8K CBP IN 10 MIN. 50# INC. RIH &amp; C/O 50' SD TO CBP#2. FCP=50#.</p> <p>[DRLG CBP#2] @ 5971'. D/O HALL 8K CBP IN 6 MIN. 50# INC. RIH &amp; C/O 45' SD TO CBP#3. FCP=100#.</p> <p>[DRLG CBP#3] @ 6924'. D/O HALL 8K CBP IN 8 MIN. 0# INC. RIH &amp; C/O 30' SD TO CBP#4. FCP=50#.</p> <p>[DRLG CBP#4] @ 7384'. D/O HALL 8K CBP IN 7 MIN. 0# INC. RIH, TAG SD @ 8034'. C/O 25' SD TO 8059'. B.P @ 8033'. ISOLATION PLUG @ 8083'. CIRC WELL CLN. FCP=100# R/D SWVL. POOH &amp; L/D 23 JTS ON TBG RACK. LAND TBG ON HANGER W/ 230 JTS 2-3/8" L-80 YELL BND TBG. EOT @ 7324.25' PMP OPEN SUB W/ XN @ 7322.05'. R/D FLOOR &amp; TBG EQUIPMENT. NDBOP, NUWH. DROP BALL DN TBG &amp; PMP OPEN THE SUB @ 1250#. OPEN WELL TO FBT ON OPEN CHOKE. FTP=100#, SICP=200#. UNLOADING A LOT OF WATER.</p> <p>7:30 PM TURN WELL OVER TO APC MAINT CREW &amp; DELSCO FBC. LTR= 3299 BBLs. RACK EQUIP. FOAM UNIT ON CALL IF NEEDED.</p>
7/30/2011	7:00 -			33	A			<p>8 PM SDF-WE</p> <p>7 AM FLBK REPORT: CP 125#, TP 0#, OPEN/64" CK, 2 BWPH, LIGHT SAND, 0 GAS TTL BBLs RECOVERED: 817 BBLs LEFT TO RECOVER: 3232</p>
7/31/2011	7:00 -			33	A			<p>7 AM FLBK REPORT: CP 800#, TP 75#, OPEN/64" CK, 8 BWPH, LIGHT SAND, - GAS TTL BBLs RECOVERED: 1208 BBLs LEFT TO RECOVER: 2841</p>
8/1/2011	7:00 -			33	A			<p>7 AM FLBK REPORT: CP 450#, TP 50#, OPEN/64" CK, 9 BWPH, LIGHT SAND, - GAS TTL BBLs RECOVERED: 1439 BBLs LEFT TO RECOVER: 2610</p>
8/12/2011	7:00 - 7:15	0.25	COMP	48		P		<p>HSM, SLIPS, TRIPS &amp; FALLS, RIGGING UP &amp; DOWN.</p>

US ROCKIES REGION  
**Operation Summary Report**

Well: NBU 922-18E3BS [BLUE] CHECK  
 SPACER SPOOL

Spud Date: 2/16/2009

Project: UTAH-UINTAH

Site: NBU 922-18L PAD

Rig Name No: GWS 1/1

Event: RECOMPL/RESEREVEADD

Start Date: 7/12/2011

End Date: 7/29/2011

Active Datum: RKB @4,925.00ft (above Mean Sea Level)

UWI: NW/SW/0/9/S/22/E/18/0/0/6/PM/S/2,561.00/W/0/1,197.00/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	7:15 - 18:00	10.75	COMP	31	I	P		RD OFF NBU 922-18I3S, ROAD RIG & MIRU, SPOT EQUIP, CONTROL WELL W/ 30 BBLS DOWN TBG, ND WH, NU BOP & C/O 5K OUTLET VALVE ON STACK, RU FLOOR & TBG EQUIP, HOOK UP FLOWLINE TO FBT, PUMP 30 BBLS DOWN CSG, UNLAND TBG L/D HANGER, POOH 115 STDS L/D PUMP OPEN SUB, RERUN 3 7/8" MILL, NEW POBS & RERUN XN SN, RIH TO 7,324', INSTAL TIW VALVE & OPEN WELL TO SALES FOR WEEKEND, D/O ISOLATION PLUG ON MONDAY, PUMPED 160 BBLS TMAC TOTAL TO CONTROL WELL, SDFWE.

1 General

1.1 Customer Information

Company	US ROCKIES REGION		
Representative			
Address			

1.2 Well Information

Well	NBU 922-18E3BS [BLUE] CHECK SPACER SPOOL		
Common Name	NBU 922-18E3BS		
Well Name	NBU 922-18E3BS	Wellbore No.	OH
Report No.	1	Report Date	7/12/2011
Project	UTAH-UINTAH	Site	NBU 922-18L PAD
Rig Name/No.		Event	RECOMPL/RESEREVEADD
Start Date	7/12/2011	End Date	7/29/2011
Spud Date	2/16/2009	Active Datum	RKB @4,925.00ft (above Mean Sea Level)
UWI	NW/SW/09/S/22/E/18/0/0/6/PM/S/2,561.00/W/0/1,197.00/0/0		

1.3 General

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

1.4 Initial Conditions

1.5 Summary

Fluid Type		Fluid Density		Gross Interval	5,915.0 (ft)-8,033.0 (ft)	Start Date/Time	7/18/2011 12:00AM
Surface Press		Estimate Res Press		No. of Intervals	7	End Date/Time	7/18/2011 12:00AM
TVD Fluid Top		Fluid Head		Total Shots	104	Net Perforation Interval	28.00 (ft)
Hydrostatic Press		Press Difference		Avg Shot Density	3.71 (shot/ft)	Final Surface Pressure	
Balance Cond	NEUTRAL					Final Press Date	

2 Intervals

2.1 Perforated Interval

Date	Formation/Reservoir	CCL@ (ft)	CCL-T S (ft)	MD Top (ft)	MD Base (ft)	Shot Density (shot/ft)	Misfires/Add. Shot	Diameter (in)	Carr Type /Carr Manuf	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
12:00AM	WASATCH/			5,915.0	5,921.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO	N

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (ft)	CCL-T S (ft)	MD Top (ft)	MD Base (ft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diamete r (in)	Carr Type /Carr Manuf	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
12:00AM	WASATCH/			6,730.0	6,736.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AM	WASATCH/			6,850.0	6,854.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00AM	WASATCH/			7,328.0	7,334.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00AM	WASATCH/			7,820.0	7,822.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AM	WASATCH/			8,008.0	8,009.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00AM	WASATCH/			8,030.0	8,033.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	

3 Plots

3.1 Wellbore Schematic