

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

FORM 3

AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL				1. WELL NAME and NUMBER NBU 921-26D1CS		
2. TYPE OF WORK DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>				3. FIELD OR WILDCAT NATURAL BUTTES		
4. TYPE OF WELL Gas Well Coalbed Methane Well: NO				5. UNIT or COMMUNITIZATION AGREEMENT NAME NATURAL BUTTES		
6. NAME OF OPERATOR KERR-MCGEE OIL & GAS ONSHORE, L.P.				7. OPERATOR PHONE 720 929-6587		
8. ADDRESS OF OPERATOR P.O. Box 173779, Denver, CO, 80217				9. OPERATOR E-MAIL mary.mondragon@anadarko.com		
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) UO 01194		11. MINERAL OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>		12. SURFACE OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>		
13. NAME OF SURFACE OWNER (if box 12 = 'fee')				14. SURFACE OWNER PHONE (if box 12 = 'fee')		
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')				16. SURFACE OWNER E-MAIL (if box 12 = 'fee')		
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')		18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input checked="" type="checkbox"/> (Submit Commingling Application) NO <input type="checkbox"/>		19. SLANT VERTICAL <input type="checkbox"/> DIRECTIONAL <input checked="" type="checkbox"/> HORIZONTAL <input type="checkbox"/>		
20. LOCATION OF WELL	FOOTAGES	QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN
LOCATION AT SURFACE	836 FNL 1648 FWL	NENW	26	9.0 S	21.0 E	S
Top of Uppermost Producing Zone	600 FNL 980 FWL	NWNW	26	9.0 S	21.0 E	S
At Total Depth	600 FNL 980 FWL	NWNW	26	9.0 S	21.0 E	S
21. COUNTY UINTAH		22. DISTANCE TO NEAREST LEASE LINE (Feet) 600		23. NUMBER OF ACRES IN DRILLING UNIT 203		
		25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 500		26. PROPOSED DEPTH MD: 9886 TVD: 9750		
27. ELEVATION - GROUND LEVEL 4970		28. BOND NUMBER 22013542		29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE Permit #43-8496		

ATTACHMENTS

VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES

<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER	<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN
<input type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)	<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER
<input checked="" type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)	<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP

NAME Kathy Schneebeck-Dulnoan	TITLE Staff Regulatory Analyst	PHONE 720 929-6007
SIGNATURE	DATE 04/22/2009	EMAIL Kathy.SchneebeckDulnoan@anadarko.com
API NUMBER ASSIGNED 43047503620000	APPROVAL  Permit Manager	

Proposed Hole, Casing, and Cement

String	Hole Size	Casing Size	Top (MD)	Bottom (MD)		
Prod	7.875	4.5	0	9886		
Pipe	Grade	Length	Weight			
	Grade N-80 LT&C	9886	11.6			

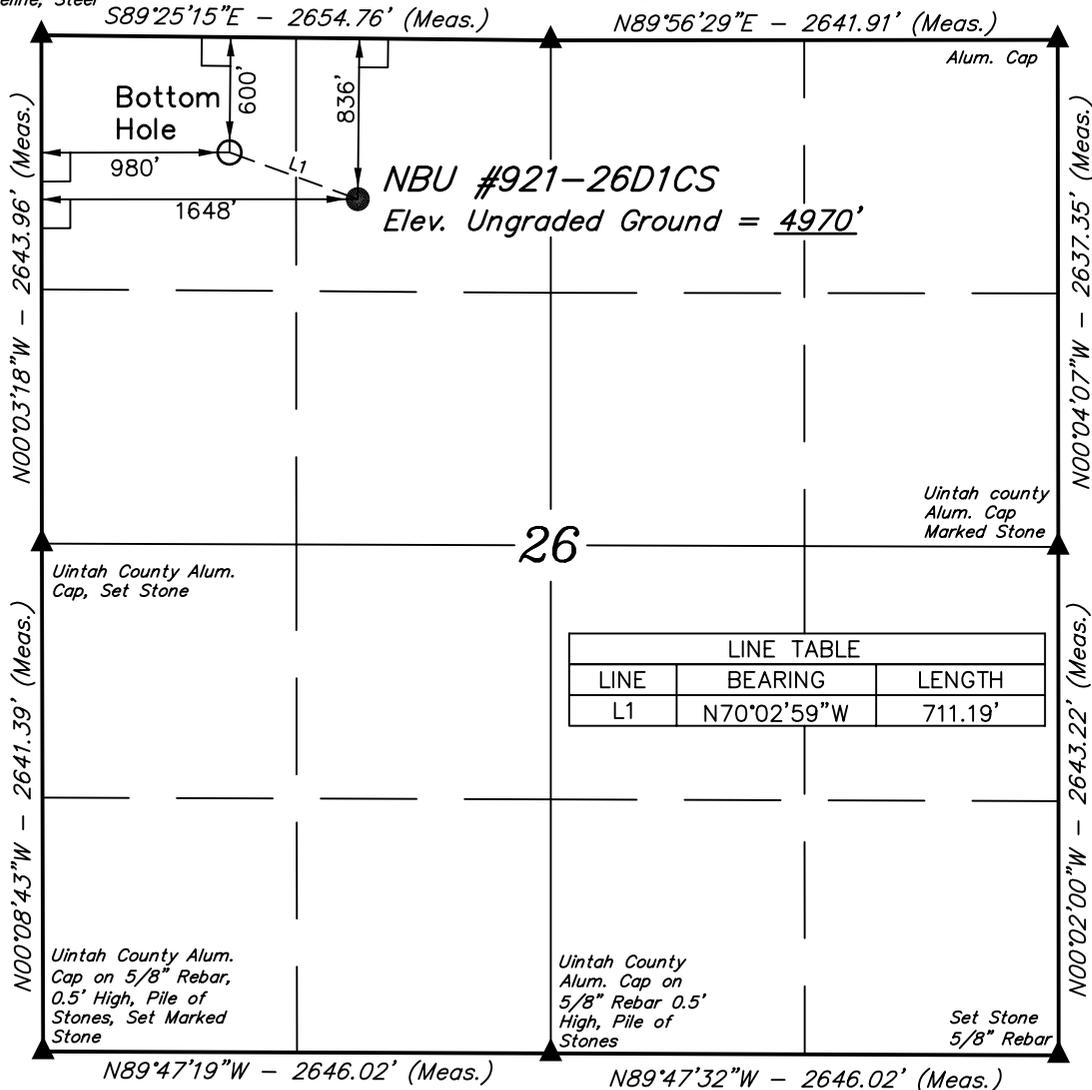
Proposed Hole, Casing, and Cement

String	Hole Size	Casing Size	Top (MD)	Bottom (MD)		
Surf	12.25	9.625	0	2600		
Pipe	Grade	Length	Weight			
	Grade J-55 LT&C	2600	36.0			

T9S, R21E, S.L.B.&M.

Uintah County
Alum. Cap on
5/8" Rebar 1.2'
High, E-W
Fenceline, Steel
Post

Uintah County Alum. Cap Marked (#2) on SW
Edge on 1/2" Rebar, 5/8" Rebar 0.1' East, Steel
Post in Center of Pile of Stones, E-W Fenceline
0.2' South, Loose Marked Stone



Kerr-McGee Oil & Gas Onshore LP

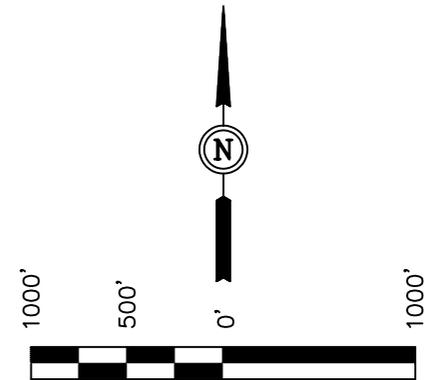
Well location, NBU #921-26D1CS, located as shown in the NE 1/4 NW 1/4 of Section 26, T9S, R21E, S.L.B.&M., Uintah County, Utah.

BASIS OF ELEVATION

TWO WATER TRIANGULATION STATION LOCATED IN THE NW 1/4 OF SECTION 1, T10S, R21E, S.L.B.&M. TAKEN FROM THE BIG PACK MTN NE QUADRANGLE, UTAH, UTAH COUNTY, 7.5 MINUTE SERIES (TOPOGRAPHICAL MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 5238 FEET.

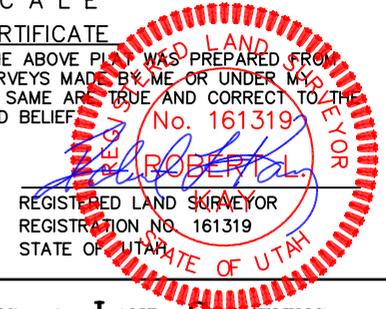
BASIS OF BEARINGS

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



SCALE CERTIFICATE

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



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

LEGEND:

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

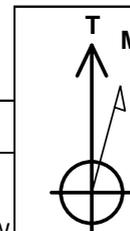
NAD 83 (TARGET BOTTOM HOLE)	NAD 83 (SURFACE LOCATION)
LATITUDE = 40°00'45.44" (40.012622)	LATITUDE = 40°00'43.04" (40.011956)
LONGITUDE = 109°31'29.70" (109.524917)	LONGITUDE = 109°31'21.11" (109.522531)
NAD 27 (TARGET BOTTOM HOLE)	NAD 27 (SURFACE LOCATION)
LATITUDE = 40°00'45.57" (40.012658)	LATITUDE = 40°00'43.17" (40.011992)
LONGITUDE = 109°31'27.22" (109.524228)	LONGITUDE = 109°31'18.63" (109.521842)

SCALE 1" = 1000'	DATE SURVEYED: 10-31-08	DATE DRAWN: 11-03-08
PARTY D.K. D.S. D.P.	REFERENCES G.L.O. PLAT	
WEATHER COOL	FILE Kerr-McGee Oil & Gas Onshore LP	



Scientific Drilling
Rocky Mountain Operations

Site: NBU 921-26C Pad
Well: NBU 921-26D1CS
Wellbore: OH
Design: Plan #1

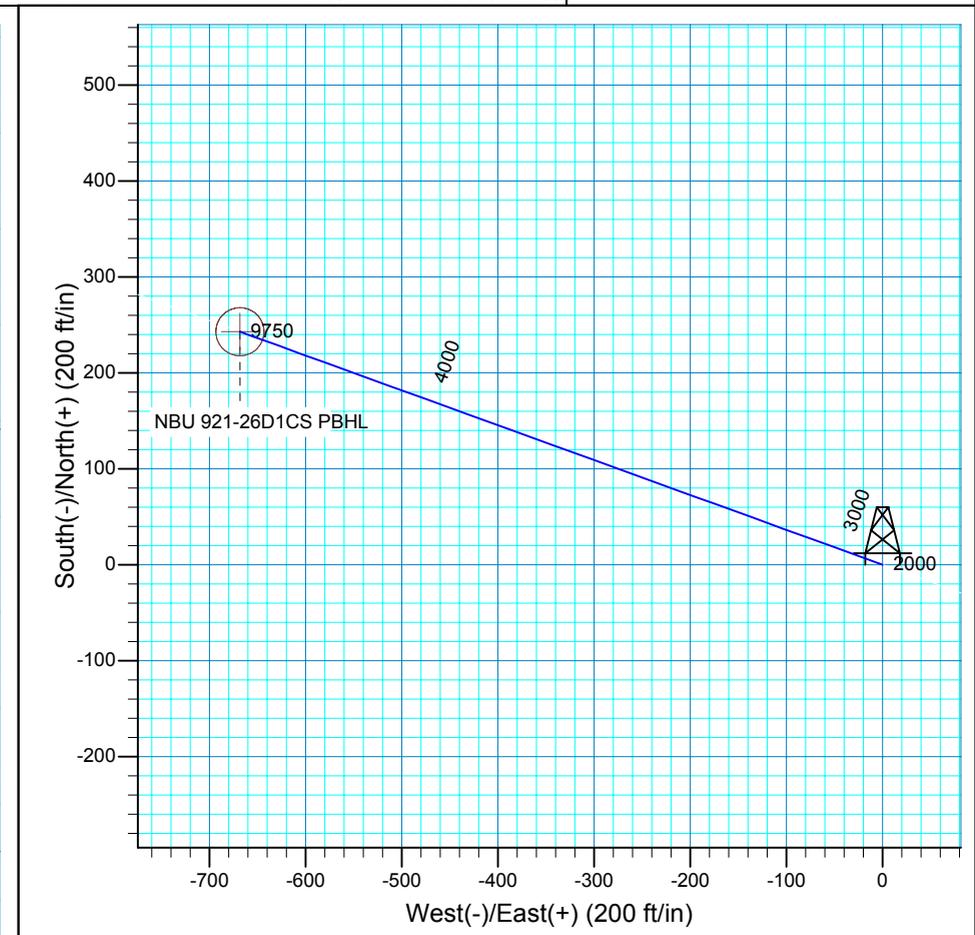
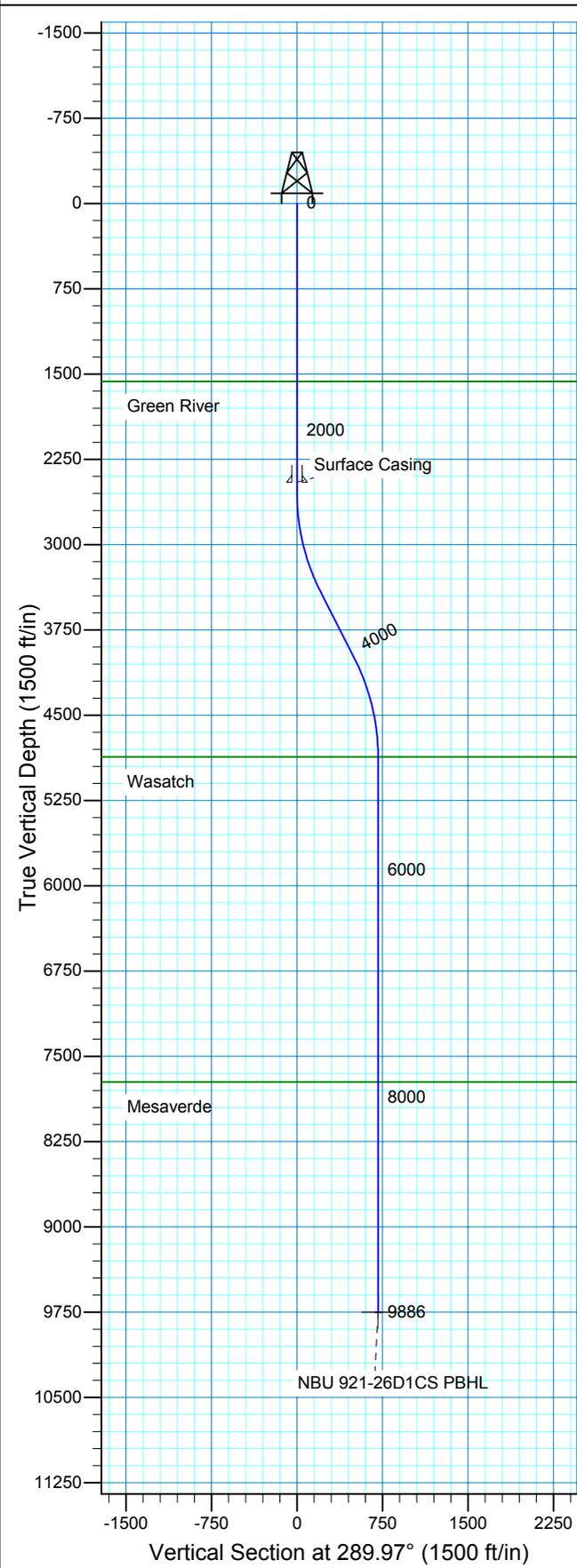


Azimuths to True North
Magnetic North: 11.37°

Magnetic Field
Strength: 52592.6snT
Dip Angle: 65.94°
Date: 2009/02/06
Model: IGRF2005-10

WELL DETAILS: NBU 921-26D1CS

GL 4969' & RKB 18' @ 4987.00ft 4969.00
+N/-S 0.00 +E/-W 0.00 Northing 617541.12 Easting 2554030.91 Latitude 40° 0' 43.170 N Longitude 109° 31' 18.630 W



Plan: Plan #1 (NBU 921-26D1CS/OH)
Created By: Julie Cruse Date: 2009-02-06
PROJECT DETAILS: Uintah County, UT NAD27
Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: Utah Central 4302
Location: Sec 26 T9S R21E
System Datum: Mean Sea Level
Local North: True

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2550.00	0.00	0.00	2550.00	0.00	0.00	0.00	0.00	0.00	
3445.52	26.87	289.97	3413.07	70.40	-193.74	3.00	289.97	206.14	
4106.76	26.87	289.97	4002.93	172.44	-474.59	0.00	0.00	504.95	
5002.28	0.00	0.00	4866.00	242.84	-668.33	3.00	180.00	711.08	
9886.28	0.00	0.00	9750.00	242.84	-668.33	0.00	0.00	711.08	NBU 921-26D1CS PBHL



Scientific Drilling
Rocky Mountain Operations

Kerr McGee Oil and Gas Onshore

LP

Uintah County, UT NAD27

NBU 921-26C Pad

NBU 921-26D1CS

OH

Plan: Plan #1

Standard Planning Report

06 February, 2009



Scientific Drilling Planning Report

Database: EDM 2003.16 Multi User DB	Local Co-ordinate Reference: Well NBU 921-26D1CS
Company: Kerr McGee Oil and Gas Onshore LP	TVD Reference: GL 4969' & RKB 18' @ 4987.00ft
Project: Uintah County, UT NAD27	MD Reference: GL 4969' & RKB 18' @ 4987.00ft
Site: NBU 921-26C Pad	North Reference: True
Well: NBU 921-26D1CS	Survey Calculation Method: Minimum Curvature
Wellbore: OH	
Design: Plan #1	

Project Uintah County, UT NAD27		
Map System: US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum: NAD 1927 (NADCON CONUS)		
Map Zone: Utah Central 4302		

Site NBU 921-26C Pad, Sec 26 T9S R21E					
Site Position:		Northing:	617,589.47 ft	Latitude:	40° 0' 43.640 N
From: Lat/Long		Easting:	2,554,066.42 ft	Longitude:	109° 31' 18.160 W
Position Uncertainty:	0.00 ft	Slot Radius:	in	Grid Convergence:	1.27 °

Well NBU 921-26D1CS, 836' FNL 1648' FWL						
Well Position	+N/-S	0.00 ft	Northing:	617,541.12 ft	Latitude:	40° 0' 43.170 N
	+E/-W	0.00 ft	Easting:	2,554,030.91 ft	Longitude:	109° 31' 18.630 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	4,969.00 ft

Wellbore OH					
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	IGRF2005-10	2009/02/06	11.37	65.94	52,593

Design Plan #1				
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(ft)	(ft)	(ft)	(°)
	0.00	0.00	0.00	289.97

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,550.00	0.00	0.00	2,550.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,445.52	26.87	289.97	3,413.07	70.40	-193.74	3.00	3.00	0.00	289.97	
4,106.76	26.87	289.97	4,002.93	172.44	-474.59	0.00	0.00	0.00	0.00	
5,002.28	0.00	0.00	4,866.00	242.84	-668.33	3.00	-3.00	0.00	180.00	
9,886.28	0.00	0.00	9,750.00	242.84	-668.33	0.00	0.00	0.00	0.00	NBU 921-26D1CS PE

Scientific Drilling

Planning Report



Database:	EDM 2003.16 Multi User DB	Local Co-ordinate Reference:	Well NBU 921-26D1CS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 4969' & RKB 18' @ 4987.00ft
Project:	Uintah County, UT NAD27	MD Reference:	GL 4969' & RKB 18' @ 4987.00ft
Site:	NBU 921-26C Pad	North Reference:	True
Well:	NBU 921-26D1CS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned 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)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,564.00	0.00	0.00	1,564.00	0.00	0.00	0.00	0.00	0.00	0.00
Green River									
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,450.00	0.00	0.00	2,450.00	0.00	0.00	0.00	0.00	0.00	0.00
Surface Casing									
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,550.00	0.00	0.00	2,550.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	1.50	289.97	2,599.99	0.22	-0.62	0.65	3.00	3.00	0.00
2,700.00	4.50	289.97	2,699.85	2.01	-5.53	5.89	3.00	3.00	0.00
2,800.00	7.50	289.97	2,799.29	5.58	-15.36	16.34	3.00	3.00	0.00
2,900.00	10.50	289.97	2,898.04	10.92	-30.06	31.98	3.00	3.00	0.00
3,000.00	13.50	289.97	2,995.85	18.02	-49.60	52.77	3.00	3.00	0.00
3,100.00	16.50	289.97	3,092.43	26.86	-73.92	78.65	3.00	3.00	0.00
3,200.00	19.50	289.97	3,187.52	37.41	-102.96	109.55	3.00	3.00	0.00
3,300.00	22.50	289.97	3,280.87	49.65	-136.64	145.38	3.00	3.00	0.00
3,400.00	25.50	289.97	3,372.22	63.54	-174.86	186.05	3.00	3.00	0.00
3,445.52	26.87	289.97	3,413.07	70.40	-193.74	206.14	3.00	3.00	0.00
3,500.00	26.87	289.97	3,461.66	78.80	-216.88	230.75	0.00	0.00	0.00
3,600.00	26.87	289.97	3,550.87	94.24	-259.35	275.94	0.00	0.00	0.00
3,700.00	26.87	289.97	3,640.08	109.67	-301.83	321.13	0.00	0.00	0.00
3,800.00	26.87	289.97	3,729.28	125.10	-344.30	366.32	0.00	0.00	0.00
3,900.00	26.87	289.97	3,818.49	140.53	-386.77	411.51	0.00	0.00	0.00
4,000.00	26.87	289.97	3,907.70	155.97	-429.25	456.70	0.00	0.00	0.00
4,100.00	26.87	289.97	3,996.90	171.40	-471.72	501.89	0.00	0.00	0.00
4,106.76	26.87	289.97	4,002.93	172.44	-474.59	504.95	0.00	0.00	0.00
4,200.00	24.07	289.97	4,087.11	186.13	-512.27	545.04	3.00	-3.00	0.00
4,300.00	21.07	289.97	4,179.44	199.24	-548.34	583.41	3.00	-3.00	0.00
4,400.00	18.07	289.97	4,273.65	210.68	-579.81	616.90	3.00	-3.00	0.00
4,500.00	15.07	289.97	4,369.49	220.41	-606.61	645.41	3.00	-3.00	0.00



Scientific Drilling Planning Report

Database: EDM 2003.16 Multi User DB	Local Co-ordinate Reference: Well NBU 921-26D1CS
Company: Kerr McGee Oil and Gas Onshore LP	TVD Reference: GL 4969' & RKB 18' @ 4987.00ft
Project: Uintah County, UT NAD27	MD Reference: GL 4969' & RKB 18' @ 4987.00ft
Site: NBU 921-26C Pad	North Reference: True
Well: NBU 921-26D1CS	Survey Calculation Method: Minimum Curvature
Wellbore: OH	
Design: Plan #1	

Planned 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)	
4,600.00	12.07	289.97	4,466.69	228.42	-628.66	668.87	3.00	-3.00	0.00	
4,700.00	9.07	289.97	4,564.98	234.69	-645.89	687.21	3.00	-3.00	0.00	
4,800.00	6.07	289.97	4,664.10	239.18	-658.27	700.38	3.00	-3.00	0.00	
4,900.00	3.07	289.97	4,763.77	241.90	-665.76	708.34	3.00	-3.00	0.00	
5,000.00	0.07	289.97	4,863.72	242.84	-668.33	711.08	3.00	-3.00	0.00	
5,002.28	0.00	0.00	4,866.00	242.84	-668.33	711.08	3.00	-3.00	0.00	
Wasatch										
5,100.00	0.00	0.00	4,963.72	242.84	-668.33	711.08	0.00	0.00	0.00	
5,200.00	0.00	0.00	5,063.72	242.84	-668.33	711.08	0.00	0.00	0.00	
5,300.00	0.00	0.00	5,163.72	242.84	-668.33	711.08	0.00	0.00	0.00	
5,400.00	0.00	0.00	5,263.72	242.84	-668.33	711.08	0.00	0.00	0.00	
5,500.00	0.00	0.00	5,363.72	242.84	-668.33	711.08	0.00	0.00	0.00	
5,600.00	0.00	0.00	5,463.72	242.84	-668.33	711.08	0.00	0.00	0.00	
5,700.00	0.00	0.00	5,563.72	242.84	-668.33	711.08	0.00	0.00	0.00	
5,800.00	0.00	0.00	5,663.72	242.84	-668.33	711.08	0.00	0.00	0.00	
5,900.00	0.00	0.00	5,763.72	242.84	-668.33	711.08	0.00	0.00	0.00	
6,000.00	0.00	0.00	5,863.72	242.84	-668.33	711.08	0.00	0.00	0.00	
6,100.00	0.00	0.00	5,963.72	242.84	-668.33	711.08	0.00	0.00	0.00	
6,200.00	0.00	0.00	6,063.72	242.84	-668.33	711.08	0.00	0.00	0.00	
6,300.00	0.00	0.00	6,163.72	242.84	-668.33	711.08	0.00	0.00	0.00	
6,400.00	0.00	0.00	6,263.72	242.84	-668.33	711.08	0.00	0.00	0.00	
6,500.00	0.00	0.00	6,363.72	242.84	-668.33	711.08	0.00	0.00	0.00	
6,600.00	0.00	0.00	6,463.72	242.84	-668.33	711.08	0.00	0.00	0.00	
6,700.00	0.00	0.00	6,563.72	242.84	-668.33	711.08	0.00	0.00	0.00	
6,800.00	0.00	0.00	6,663.72	242.84	-668.33	711.08	0.00	0.00	0.00	
6,900.00	0.00	0.00	6,763.72	242.84	-668.33	711.08	0.00	0.00	0.00	
7,000.00	0.00	0.00	6,863.72	242.84	-668.33	711.08	0.00	0.00	0.00	
7,100.00	0.00	0.00	6,963.72	242.84	-668.33	711.08	0.00	0.00	0.00	
7,200.00	0.00	0.00	7,063.72	242.84	-668.33	711.08	0.00	0.00	0.00	
7,300.00	0.00	0.00	7,163.72	242.84	-668.33	711.08	0.00	0.00	0.00	
7,400.00	0.00	0.00	7,263.72	242.84	-668.33	711.08	0.00	0.00	0.00	
7,500.00	0.00	0.00	7,363.72	242.84	-668.33	711.08	0.00	0.00	0.00	
7,600.00	0.00	0.00	7,463.72	242.84	-668.33	711.08	0.00	0.00	0.00	
7,700.00	0.00	0.00	7,563.72	242.84	-668.33	711.08	0.00	0.00	0.00	
7,800.00	0.00	0.00	7,663.72	242.84	-668.33	711.08	0.00	0.00	0.00	
7,861.28	0.00	0.00	7,725.00	242.84	-668.33	711.08	0.00	0.00	0.00	
Mesaverde										
7,900.00	0.00	0.00	7,763.72	242.84	-668.33	711.08	0.00	0.00	0.00	
8,000.00	0.00	0.00	7,863.72	242.84	-668.33	711.08	0.00	0.00	0.00	
8,100.00	0.00	0.00	7,963.72	242.84	-668.33	711.08	0.00	0.00	0.00	
8,200.00	0.00	0.00	8,063.72	242.84	-668.33	711.08	0.00	0.00	0.00	
8,300.00	0.00	0.00	8,163.72	242.84	-668.33	711.08	0.00	0.00	0.00	
8,400.00	0.00	0.00	8,263.72	242.84	-668.33	711.08	0.00	0.00	0.00	
8,500.00	0.00	0.00	8,363.72	242.84	-668.33	711.08	0.00	0.00	0.00	
8,600.00	0.00	0.00	8,463.72	242.84	-668.33	711.08	0.00	0.00	0.00	
8,700.00	0.00	0.00	8,563.72	242.84	-668.33	711.08	0.00	0.00	0.00	
8,800.00	0.00	0.00	8,663.72	242.84	-668.33	711.08	0.00	0.00	0.00	
8,900.00	0.00	0.00	8,763.72	242.84	-668.33	711.08	0.00	0.00	0.00	
9,000.00	0.00	0.00	8,863.72	242.84	-668.33	711.08	0.00	0.00	0.00	
9,100.00	0.00	0.00	8,963.72	242.84	-668.33	711.08	0.00	0.00	0.00	
9,200.00	0.00	0.00	9,063.72	242.84	-668.33	711.08	0.00	0.00	0.00	
9,300.00	0.00	0.00	9,163.72	242.84	-668.33	711.08	0.00	0.00	0.00	
9,400.00	0.00	0.00	9,263.72	242.84	-668.33	711.08	0.00	0.00	0.00	



Scientific Drilling
Planning Report

Database:	EDM 2003.16 Multi User DB	Local Co-ordinate Reference:	Well NBU 921-26D1CS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 4969' & RKB 18' @ 4987.00ft
Project:	Uintah County, UT NAD27	MD Reference:	GL 4969' & RKB 18' @ 4987.00ft
Site:	NBU 921-26C Pad	North Reference:	True
Well:	NBU 921-26D1CS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
9,500.00	0.00	0.00	9,363.72	242.84	-668.33	711.08	0.00	0.00	0.00	
9,600.00	0.00	0.00	9,463.72	242.84	-668.33	711.08	0.00	0.00	0.00	
9,700.00	0.00	0.00	9,563.72	242.84	-668.33	711.08	0.00	0.00	0.00	
9,800.00	0.00	0.00	9,663.72	242.84	-668.33	711.08	0.00	0.00	0.00	
9,886.28	0.00	0.00	9,750.00	242.84	-668.33	711.08	0.00	0.00	0.00	

Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude	
NBU 921-26D1CS PBHL - hit/miss target - Shape - Circle (radius 25.00)	0.00	0.00	9,750.00	242.84	-668.33	617,769.12	2,553,357.38	40° 0' 45.570 N	109° 31' 27.220 W	

Casing Points						
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)		
2,450.00	2,450.00	Surface Casing	9.625	13.500		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,564.00	1,564.00	Green River		0.00		
5,002.28	4,866.00	Wasatch		0.00		
7,861.28	7,725.00	Mesaverde		0.00		

NBU 921-26D1CS

Pad: NBU 921-26C

Surface: 836' FNL, 1,648' FWL (NE/4NW/4)

BHL: 600' FNL 980' FWL (NW/4NW/4)

Sec. 26 T9S R21E

Uintah, Utah

Mineral Lease: UO 01194

ONSHORE ORDER NO. 1

DRILLING PROGRAM

1. – 2. **Estimated Tops of Important Geologic Markers:**
Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations:

<u>Formation</u>	<u>Depth</u>	<u>Resource</u>
Uinta	0 – Surface	
Green River	1,564'	
Birds Nest	1,859'	Water
Mahogany	2,367'	Water
Wasatch	4,866'	Gas
Mesaverde	7,725'	Gas
MVU2	8,686'	Gas
MVL1	9,257'	Gas
TVD	9,750'	
TD	9,886'	

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

Please refer to the attached Drilling Program.

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

Please refer to the attached Drilling Program.

5. **Drilling Fluids Program:**

Please refer to the attached Drilling Program.

6. **Evaluation Program:**

Please refer to the attached Drilling Program.

7. **Abnormal Conditions:**

Maximum anticipated bottomhole pressure calculated at 9,886' TD, approximately equals 6,057 psi (calculated at 0.61 psi/foot).

Maximum anticipated surface pressure equals approximately 3,828 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 refer to the attached Drilling Program.

Onshore Order #2 – Air Drilling Variance

Kerr-McGee Oil & Gas Onshore LP (KMG) respectfully requests a variance to several requirements associated with air drilling outlined in Onshore Order 2

- *Blowout Prevention Equipment (BOPE) requirements;*
- *Mud program requirements; and*
- *Special drilling operation (surface equipment placement) requirements associated with air drilling.*

This Standard Operating Practices addendum provides supporting information as to why KMG current air drilling practices for constructing the surface casing hole should be granted a variance to Onshore Order 2 air drilling requirements.

The reader should note that the air rig is used only to construct a stable surface casing hole through a historically difficult lost circulation zone. A conventional rotary rig follows the air rig, and is used to drill and construct the majority of the wellbore.

More notable, KMG has used the air rig layout and procedures outlined below to drill the surface casing hole in approximately 675 wells without incident of blow out or loss of life.

Background

In a typical well, KMG utilizes an air rig for drilling the surface casing hole, an interval from the surface to surface casing depths, which varies in depth from 1,700 to 2,800 feet. The air rig drilling operation does not drill through productive or over pressured formations in KMG field, but does penetrate the Uinta and Green River Formations. The purpose of the air drilling operation is to overcome the severe loss circulation zone in the Green River known as the Bird's Nest while creating a stable hole for the surface casing. The surface casing hole is generally drilled to approximately 500 feet below the Bird's Nest.

Before the surface air rig is mobilized, a rathole rig is utilized to set and cement conductor pipe through a competent surface formation. Generally, the conductor is set at 40 feet. In some cases, conductor may be set deeper in areas that the surface formation is not found competent. This rig also drills the rat and mouse holes in preparation for the surface casing and production string drilling operations.

The air rig is then mobilized to drill the surface casing hole by drilling a 12-1/4 inch hole to just above the Bird's Nest interval with an air hammer. The hammer is then tripped and replaced with a 12-1/4 inch tri-cone bit. The tri-cone bit is used to drill to the surface casing point, approximately 500 feet below the loss circulation zone (Bird's Nest). The 9-5/8 inch surface casing is then run and cemented in place, thereby isolating the lost circulation zone.

KMG fully appreciates Onshore Order 2 well control and safety requirements associated with a typical air drilling operations. However, the requirements of Onshore Order 2 are excessive with respect to the air rig layout and drilling operation procedures that are currently in practice to drill and control the surface casing hole in KMG Fields.

Variance for BOPE Requirements

The air rig operation utilizes a properly lubricated and maintained air bowl diverter system which diverts the drilling returns to a six-inch blooie line. The air bowl is the only piece of BOPE equipment which is installed during drilling operations and is sufficient to contain the air returns associated with this drilling operation. As was discussed earlier, the drilling of the surface hole does not encounter any over pressured or productive zones, and as a result standard BOPE equipment should not be required. In addition, standard drilling practices do not support the use of BOPE on 40 feet of conductor pipe.

Variance for Mud Material Requirements

Onshore Order 2 also states that sufficient quantities of mud materials shall be maintained or readily accessible for the purpose of assuring adequate well control. Once again, the surface hole drilling operations does not encounter over pressured or productive intervals, and as a result there is not a need to control pressure in the surface hole with a mud system. Instead of mud, the air rigs utilize water from the reserve pit for well control, if necessary. A skid pump which is located near the reserve pit (see attachment) will supply the water to the well bore.

Variance for Special Drilling Operation (surface equipment placement) Requirements

Onshore Order 2 requires specific safety distances or setbacks for the placement of associated standard air drilling equipment, wellbore, and reserve pits. The air rigs used to drill the surface holes are not typical of an air rig used to drill a producing hole in other parts of the US. These are smaller in nature and designed to fit a KMG location. The typical air rig layout for drilling surface hole in the field is attached.

Typically the blooie line discharge point is required to be 100 feet from the well bore. In the case of a KMG well, the reserve pit is only 45 feet from the rig and is used for the drill cuttings. The blooie line, which transports the drill cuttings from the well to the reserve pit, subsequently discharges only 45 feet from the well bore.

Typically the air rig compressors are required to be located in the opposite direction from the blooie line and a minimum of 100 feet from the well bore. At the KMG locations, the air rig compressors are approximately 40 feet from the well bore and approximately 60 feet from the blooie line discharge due to the unique air rig design. The air compressors (see attachment) are located on the rig (1250 cfm) and on a standby trailer (1170 cfm). A booster sits between the two compressors and boosts the output from 350 psi to 2000 psi. The design does put the booster and standby compressor opposite from the blooie line.

Lastly, Onshore Order 2 addresses the need for an automatic igniter or continuous pilot light on the blooie line. The air rig does not utilize an igniter as the surface hole drilling operation does not encounter productive formations.

Conclusion

The air rig operating procedures and the attached air rig layout have effectively maintained well control while drilling the surface holes in KMG Fields. KMG respectfully requests a variance from Onshore Order 2 with respect to air drilling well control requirements as discussed above.

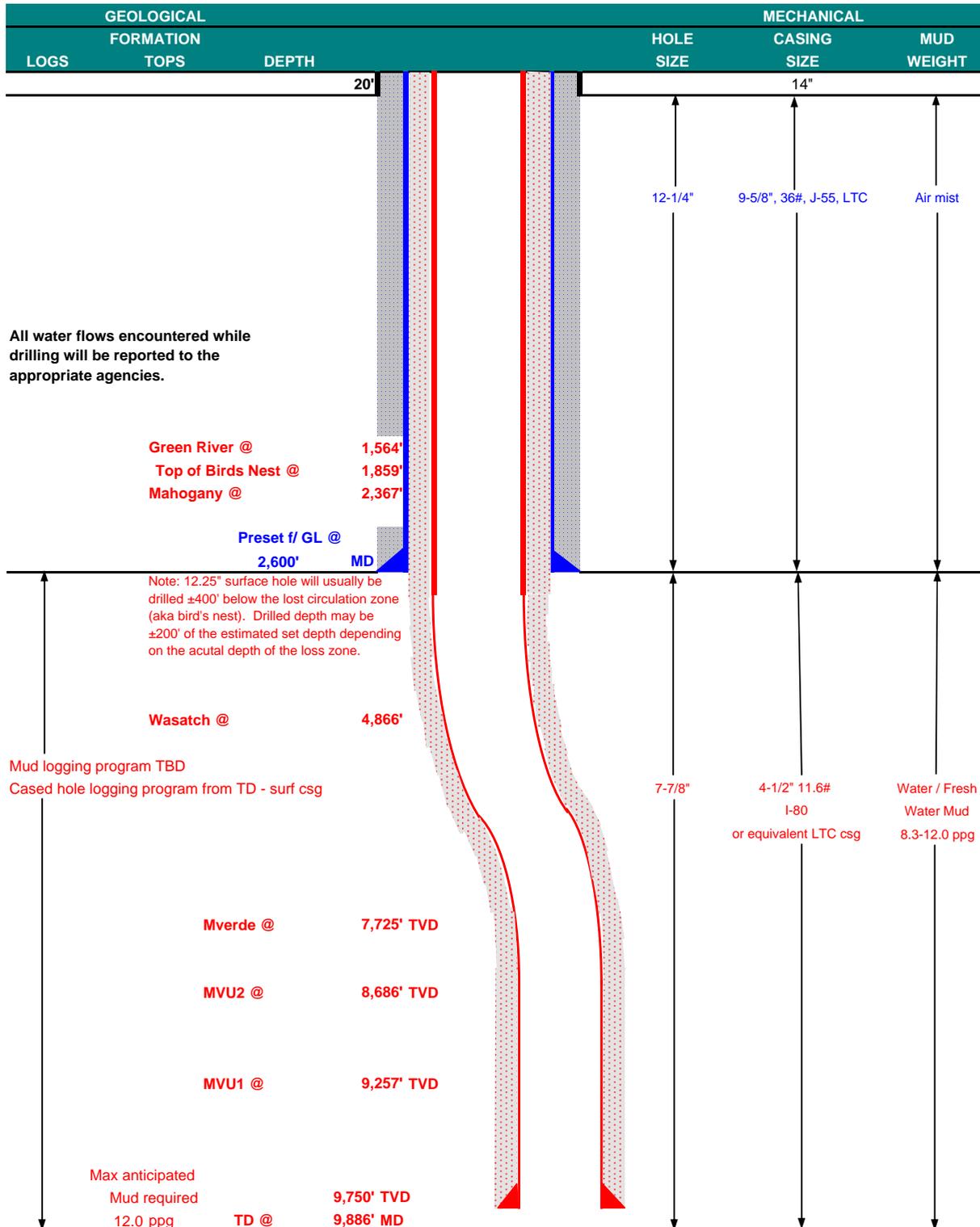
10. Other Information:

Please refer to the attached Drilling Program.



KERR-McGEE OIL & GAS ONSHORE LP DRILLING PROGRAM

COMPANY NAME	KERR-McGEE OIL & GAS ONSHORE LP		DATE	June 10, 2009				
WELL NAME	NBU 921-26D1CS		TD	9,750'	TVD	9,886' MD		
FIELD	Natural Buttes	COUNTY	Uintah	STATE	Utah	ELEVATION	4,970' GL	KB 4,985'
SURFACE LOCATION	NW/4 NE/4	836' FNL	1,648' FEL	Sec 26	T 9S	R 21E		
	Latitude:	40.011992	Longitude:	-109.521842		NAD 27		
BTM HOLE LOCATION	NW/4 NW/4	600' FNL	980' FWL	Sec 26	T 9S	R 21E		
	Latitude:	40.012658	Longitude:	-109.524228		NAD 27		
OBJECTIVE ZONE(S)	Wasatch/Mesaverde							
ADDITIONAL INFO	Regulatory Agencies: SITLA (Minerals), UDOGM (Surface), 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'				3,520	2,020	453,000
SURFACE	9-5/8"	0 to 2,600	36.00	J-55	LTC	0.88	1.66	6.16
PRODUCTION	4-1/2"	0 to 9,886	11.60	I-80	LTC	1.98	1.04	2.01

- 1) Max Anticipated Surf. Press.(MASP) (Surface Casing) = (Pore Pressure at next csg point-(0.22 psi/ft-partial evac gradient x TVD of next csg point))
- 2) MASP (Prod Casing) = Pore Pressure at TD - (0.22 psi/ft-partial evac gradient x TD)
 (Burst Assumptions: TD = 12.0 ppg) 0.22 psi/ft = gradient for partially evac wellbore
 (Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)
MASP 3,828 psi
- 3) Maximum Anticipated Bottom Hole Pressure (MABHP) = Pore Pressure at TD
 (Burst Assumptions: TD = 12.0 ppg) 0.61 psi/ft = bottomhole gradient
 (Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)
MABHP 6,057 psi

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE	LEAD	500'	Premium cmt + 2% CaCl + 0.25 pps flocele	215	60%	15.60	1.18
Option 1	TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt + 2% CaCl + 0.25 pps flocele Premium cmt + 2% CaCl	380	0%	15.60	1.18
SURFACE		NOTE: If well will circulate water to surface, option 2 will be utilized					
Option 2	LEAD	2,100'	65/35 Poz + 6% Gel + 10 pps gilsonite + 0.25 pps Flocele + 3% salt BWOW	500	35%	12.60	1.81
	TAIL	500'	Premium cmt + 2% CaCl + 0.25 pps flocele	180	35%	15.60	1.18
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
PRODUCTION	LEAD	4,366'	Premium Lite II + 3% KCl + 0.25 pps celloflake + 5 pps gilsonite + 10% gel + 0.5% extender	420	40%	11.00	3.38
	TAIL	5,520'	50/50 Poz/G + 10% salt + 2% gel + 0.1% R-3	1,350	40%	14.30	1.31

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

FLOAT EQUIPMENT & CENTRALIZERS

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe
PRODUCTION	Float shoe, 1 jt, float collar. No centralizers will be used.

ADDITIONAL INFORMATION

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.

BOPE: 11" 5M with one annular and 2 rams. The BOPE will be installed before the production hole is drilled and tested to 5,000 psi (annular to 2,500 psi) prior to drilling out the surface casing shoe. Record on chart recorder and tour sheet. Function test rams on each trip. Maintain safety valve and inside BOP on rig floor at all times. Most rigs have top drives; however, if used, the Kelly is to be equipped with upper and lower kelly valves.

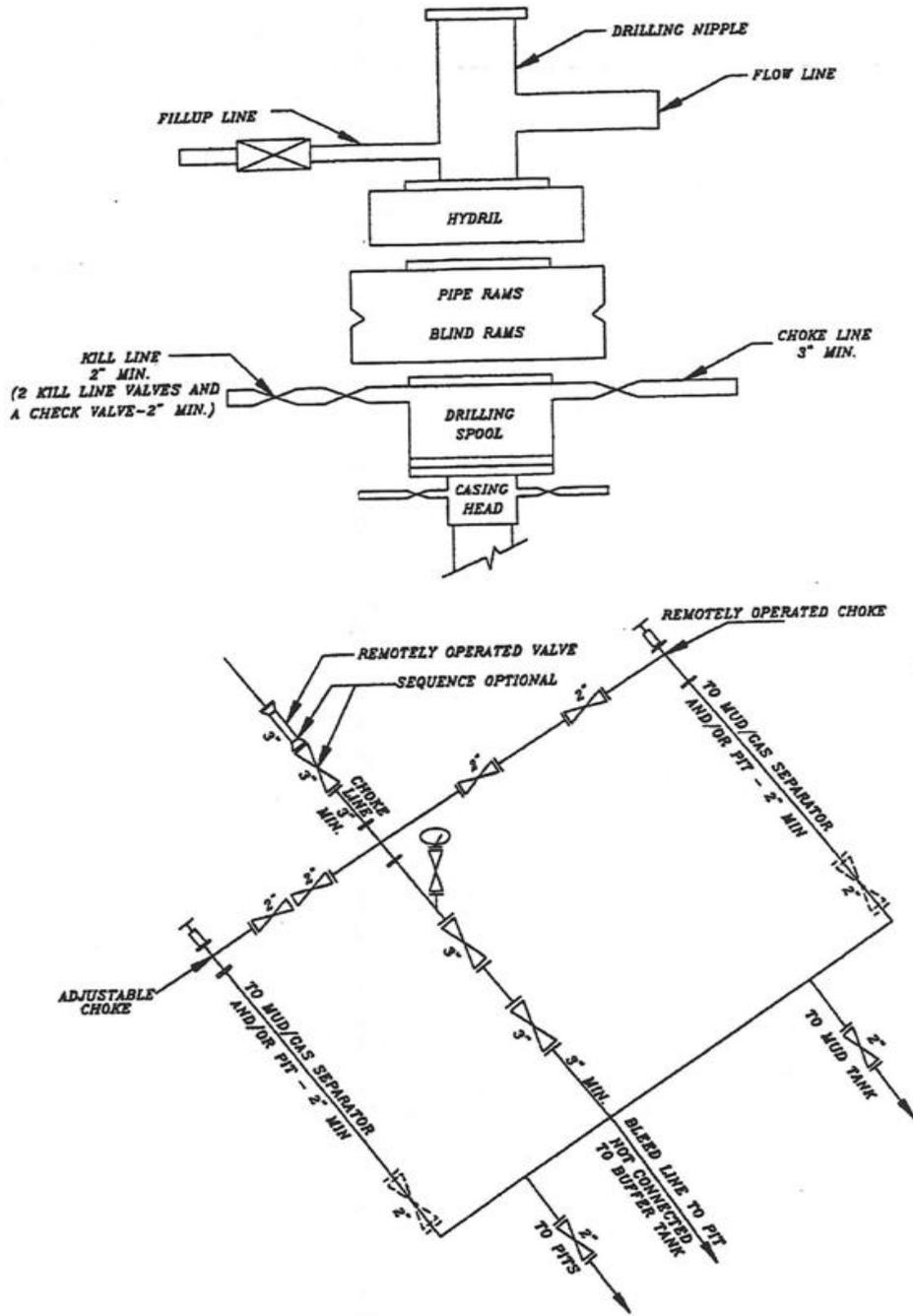
Surveys will be taken at 1,000' minimum intervals.

Most rigs have PVT System for mud monitoring. If no PVT is available, visual monitoring will be utilized.

DRILLING ENGINEER: _____ **DATE:** _____
 John Huycke / Emile Goodwin

DRILLING SUPERINTENDENT: _____ **DATE:** _____
 John Merkel / Lovel Young

EXHIBIT A NBU 921-26D1CS



SCHEMATIC DIAGRAM OF 5,000 PSI BOP STACK

Kerr-McGee Oil & Gas Onshore LP

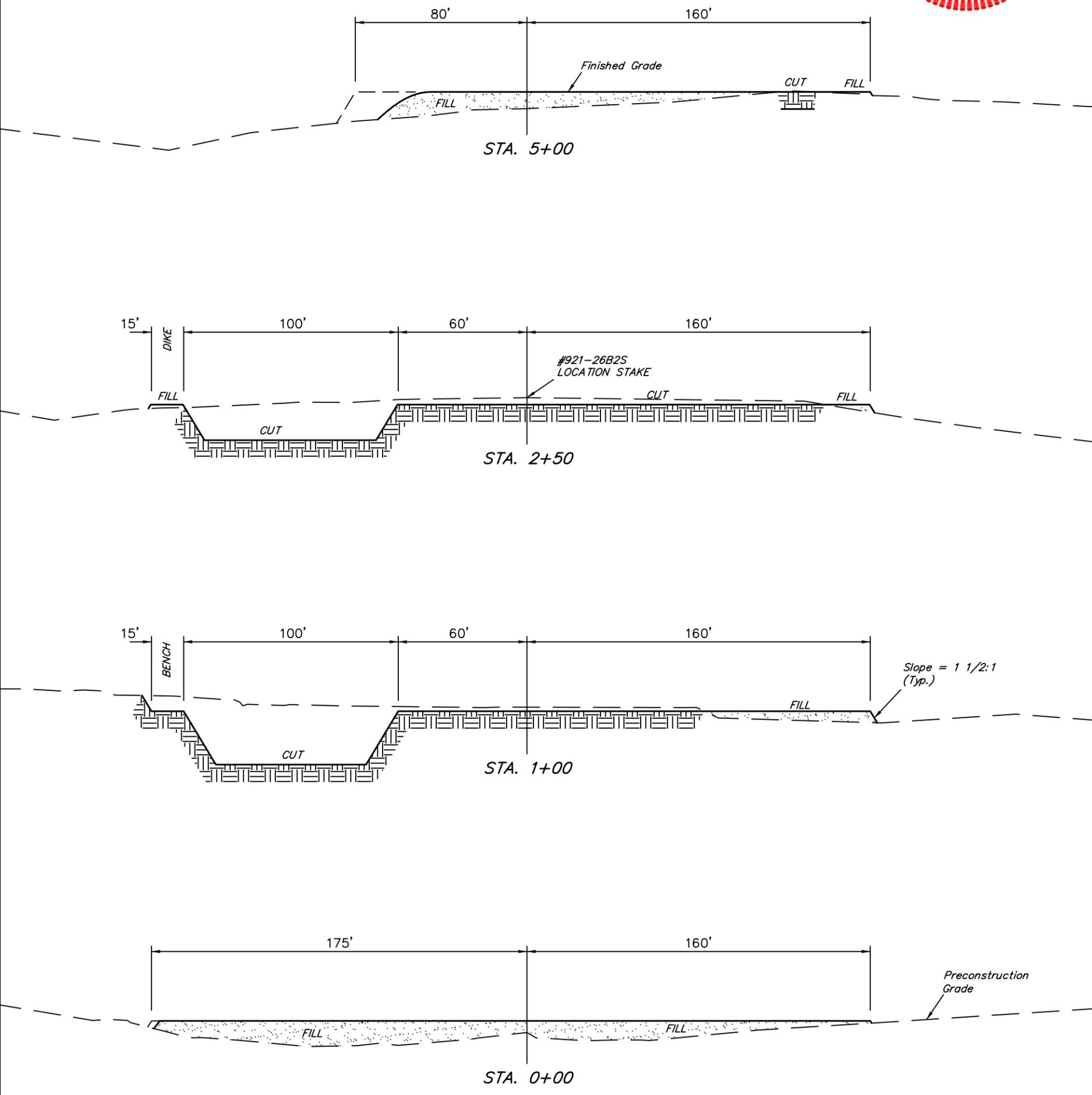
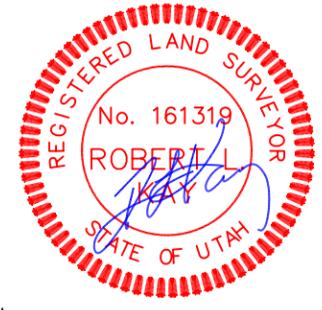
FIGURE #2

TYPICAL CROSS SECTIONS FOR

NBU #921-26B2S, #921-26B3S, #921-26D1BS & #921-26D1CS
SECTION 26, T9S, R21E, S.L.B.&M.
NE 1/4 NW 1/4

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

DATE: 11-01-08
Drawn By: D.P.



NOTE:

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

*** NOTE:**

FILL QUANTITY INCLUDES 5% FOR COMPACTION

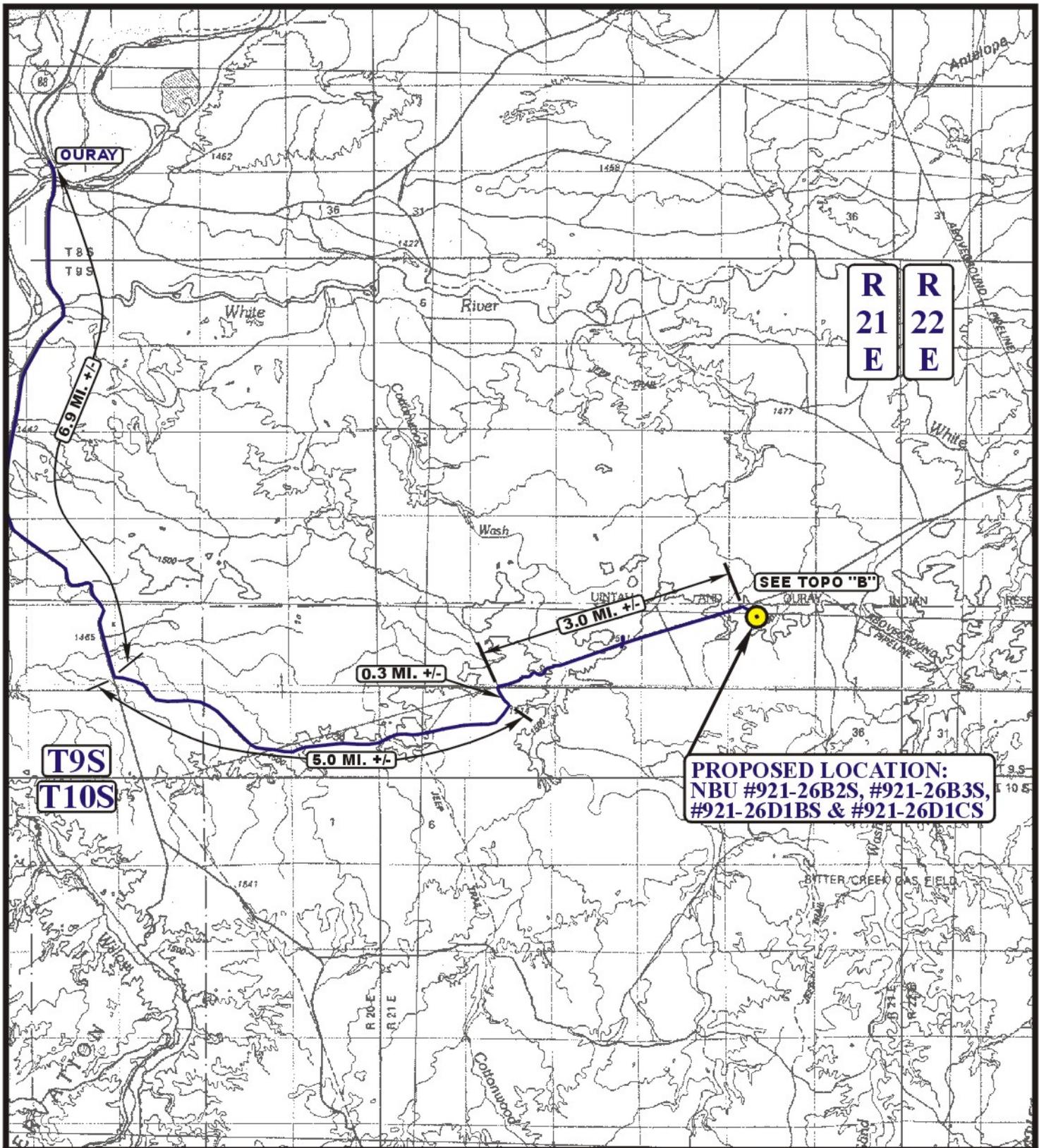
APPROXIMATE ACREAGES

NEW CONSTRUCTION WELL SITE DISTURBANCE	= ± 1.816 ACRES
EXISTING WELL SITE DISTURBANCE	= ± 3.105 ACRES
ACCESS ROAD DISTURBANCE	= ± 0.126 ACRES
PIPELINE DISTURBANCE	= ± 0.018 ACRES
TOTAL	= ± 5.065 ACRES

APPROXIMATE YARDAGES

(6") Topsoil Stripping	= 2,900 Cu. Yds.
Remaining Location	= 8,100 Cu. Yds.
TOTAL CUT	= 11,000 CU.YDS.
FILL	= 4,550 CU.YDS.

EXCESS MATERIAL	= 6,450 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	= 6,450 Cu. Yds.
EXCESS UNBALANCE (After Interim Rehabilitation)	= 0 Cu. Yds.



R 21 E
R 22 E

T9S
T10S

PROPOSED LOCATION:
NBU #921-26B2S, #921-26B3S,
#921-26D1BS & #921-26D1CS

SEE TOPO 'B'

LEGEND:

PROPOSED LOCATION

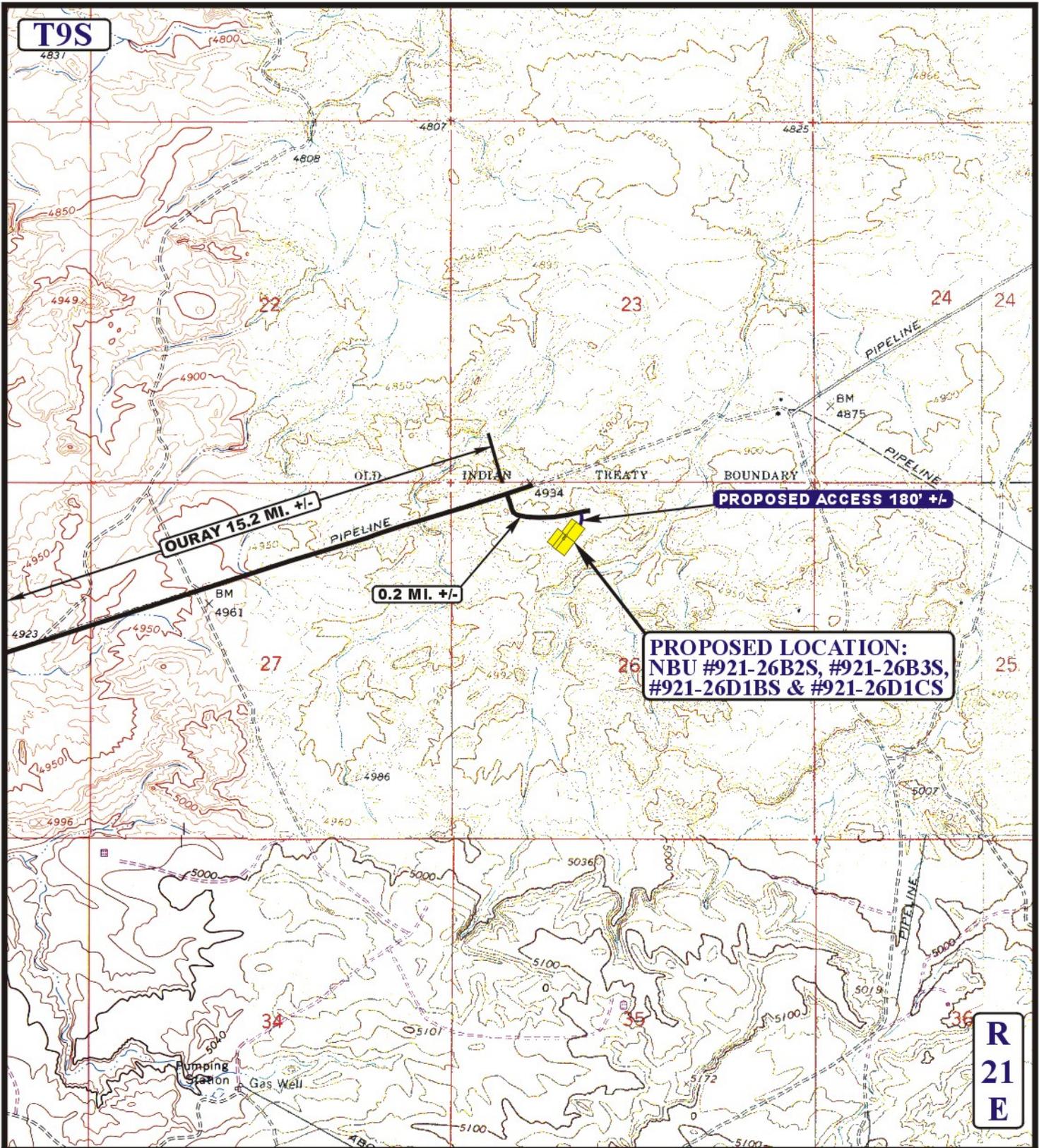


Kerr-McGee Oil & Gas Onshore LP

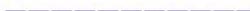
**NBU #921-26B2S, #921-26B3S,
#921-26D1BS & #921-26D1CS
SECTION 26, T9S, R21E, S.L.B.&M.
NE 1/4 NW 1/4**

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

TOPOGRAPHIC **11 04 08**
MAP MONTH DAY YEAR
SCALE: 1:100,000 DRAWN BY: D.P. REVISED: 00-00-00 **TOPO**



LEGEND:

-  EXISTING ROAD
-  PROPOSED ACCESS ROAD

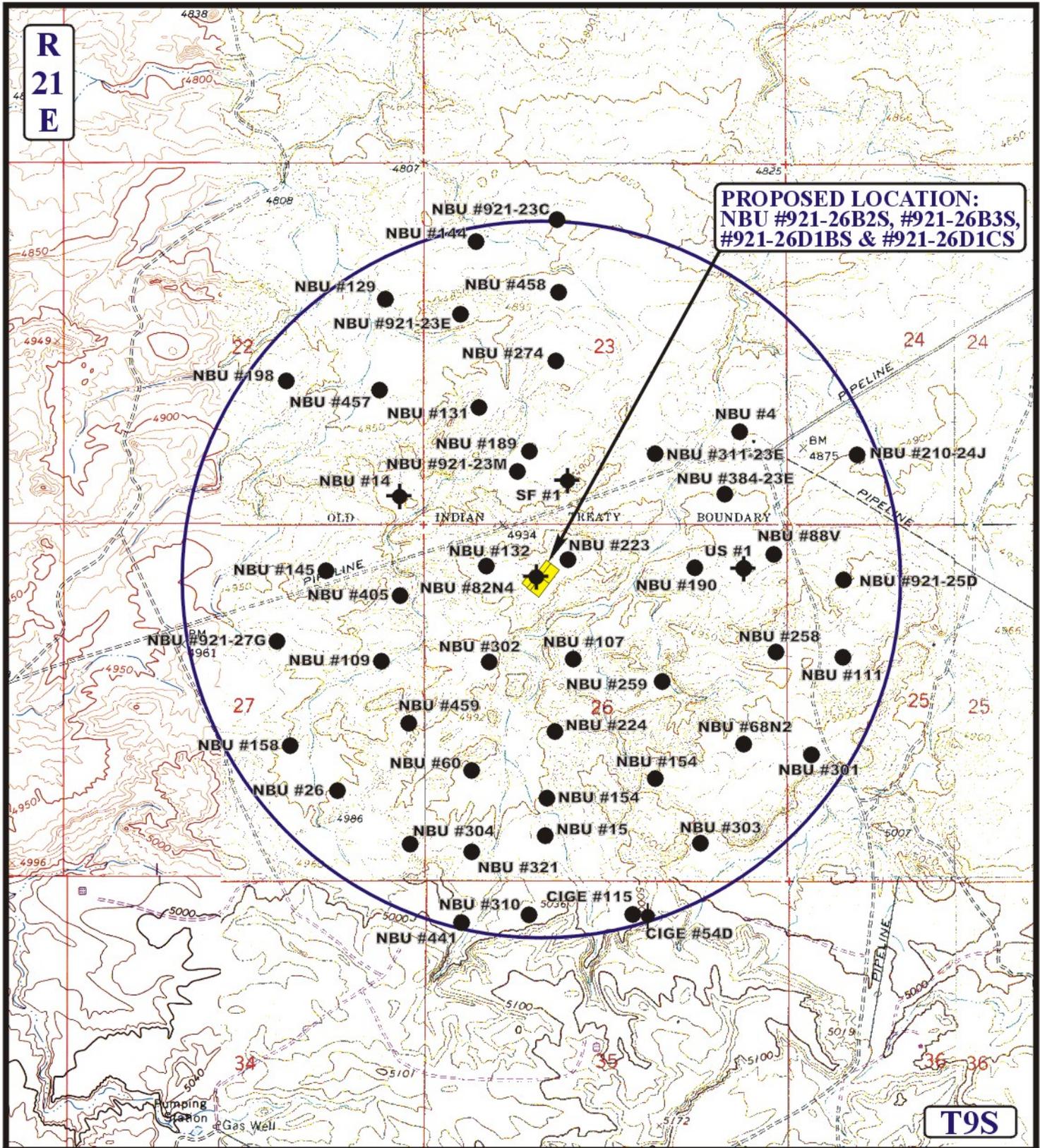
Kerr-McGee Oil & Gas Onshore LP

**NBU #921-26B2S, #921-26B3S,
#921-26D1BS & #921-26D1CS
SECTION 26, T9S, R21E, S.L.B.&M.
NE 1/4 NW 1/4**

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



TOPOGRAPHIC **11 04 08**
MAP MONTH DAY YEAR
SCALE: 1" = 2000' DRAWN BY: D.P. REVISED: 00-00-00 **B TOPO**



LEGEND:

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

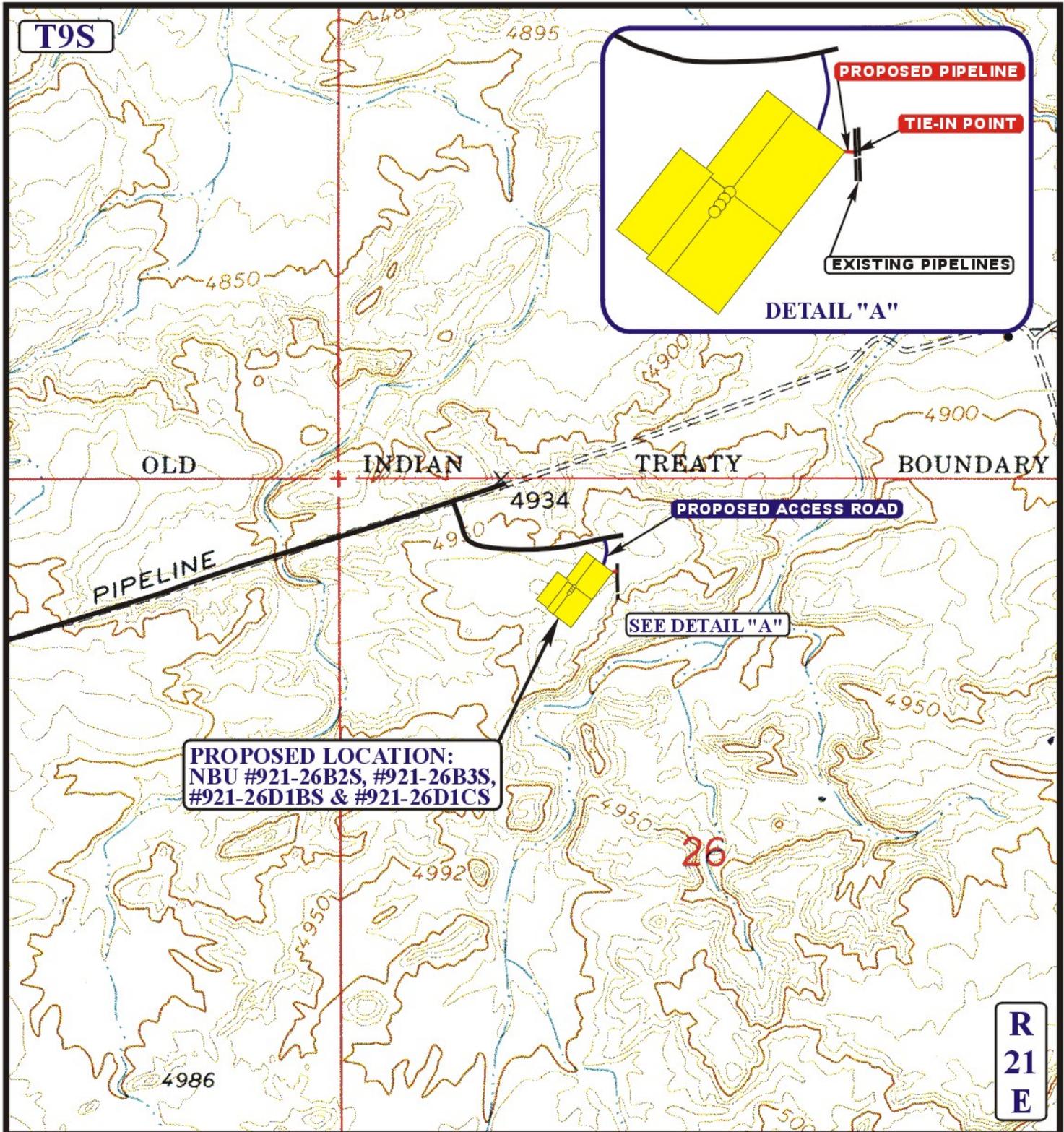
Kerr-McGee Oil & Gas Onshore LP

**NBU #921-26B2S, #921-26B3S,
#921-26D1BS & #921-26D1CS
SECTION 26, T9S, R21E, S.L.B.&M.
NE 1/4 NW 1/4**

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



TOPOGRAPHIC MAP **11 04 08**
MONTH DAY YEAR
SCALE: 1" = 2000' DRAWN BY: D.P. REVISED: 00-00-00 **C TOPO**



APPROXIMATE TOTAL PIPELINE DISTANCE = 26' +/-

LEGEND:

-  PROPOSED ACCESS ROAD
-  EXISTING PIPELINE
-  PROPOSED PIPELINE



Kerr-McGee Oil & Gas Onshore LP

**NBU #921-26B2S, #921-26B3S,
#921-26D1BS & #921-26D1CS
SECTION 26, T9S, R21E, S.L.B.&M.
NE 1/4 NW 1/4**

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

TOPOGRAPHIC 11 04 08
MAP MONTH DAY YEAR
SCALE: 1" = 1000' DRAWN BY: D.P. REVISED: 00-00-00

D
TOPO

Kerr-McGee Oil & Gas Onshore LP
NBU #921-26B2S, #921-26B3S, #921-26D1BS &
#921-26D1CS
SECTION 26, T9S, R21E, 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, THEN SOUTHEASTERLY 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, THEN NORTHEASTERLY 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 3.0 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHEAST; TURN RIGHT AND PROCEED IN SOUTHEASTERLY, THEN EASTERLY DIRECTION APPROXIMATELY 0.2 MILES TO THE BEGINNING OF THE PROPOSED ACCESS ROAD TO THE SOUTH; FOLLOW ROAD FLAGS IN A SOUTHERLY DIRECTION APPROXIMATELY 180' TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 46.4 MILES.

Kerr-McGee Oil & Gas Onshore LP

NBU #921-26B2S, #921-26B3S, #921-26D1BS & #921-26D1CS
LOCATED IN UINTAH COUNTY, UTAH
SECTION 26, T9S, R21E, S.L.B.&M.

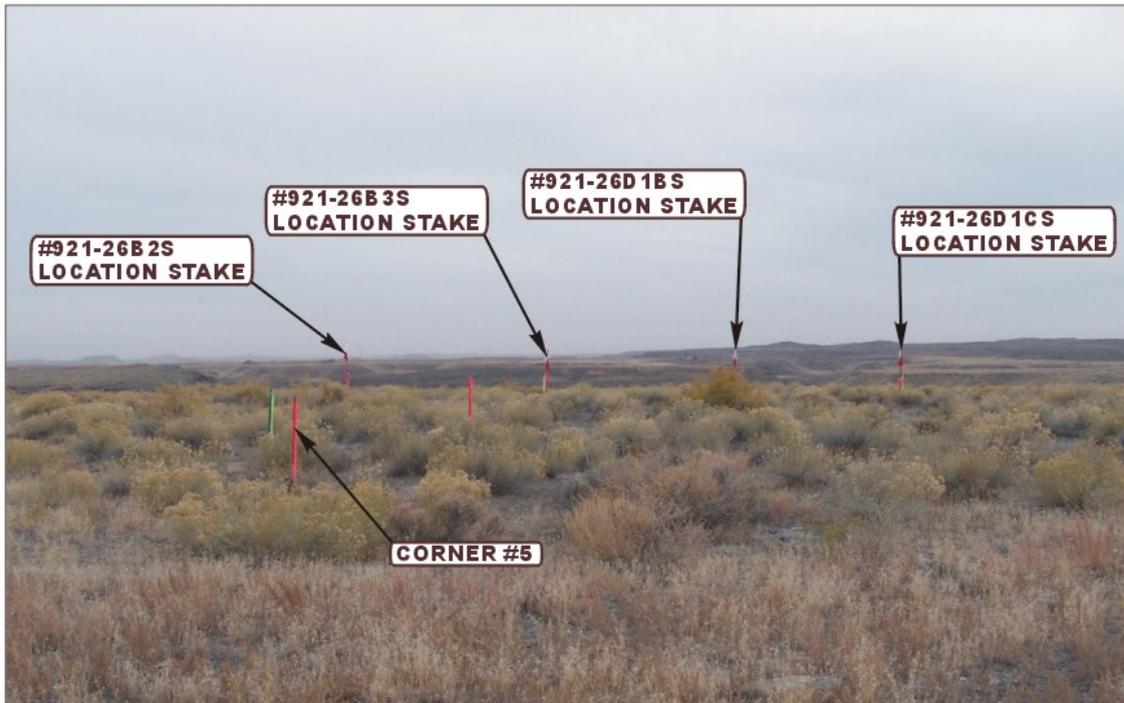


PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: SOUTHEASTERLY



PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

CAMERA ANGLE: SOUTHERLY



- Since 1964 -

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

LOCATION PHOTOS	11	04	08	PHOTO
	MONTH	DAY	YEAR	
TAKEN BY: D.K.	DRAWN BY: D.P.		REVISED: 00-00-00	

Kerr-McGee Oil & Gas Onshore LP

NBU 921-26B2S

Surface: 788' FNL, 1,685' FWL (NE/4NW/4)
BHL: 460' FNL 2,360' FEL (NW/4NE/4)

NBU 921-26B3S

Surface: 804' FNL, 1,673' FWL (NE/4NW/4)
BHL: 950' FNL 2,360' FEL (NW/4NE/4)

NBU 921-26D1BS

Surface: 820' FNL, 1,661' FWL (NE/4NW/4)
BHL: 110' FNL 980' FWL (NW/4NW/4)

NBU 921-26D1CS

Surface: 836' FNL, 1,648' FWL (NE/4NW/4)
BHL: 600' FNL 980' FWL (NW/4NW/4)

Section 26 Township 9 South Range 21 East

Pad: NBU 921-26C

Uintah, Utah

Surface: State

Minerals: State – UO 01194

ONSHORE ORDER NO. 1

MULTI-POINT SURFACE USE & OPERATIONS PLAN

Directional Drilling:

In accordance with Oil & Gas Conservation Rule R649-3-11 pertaining to Directional Drilling, this well will be directionally drilled in order to access portions of our lease which are otherwise inaccessible due to topography.

1. Existing Roads:

Refer to Topo Map A for directions to the location.

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

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

All existing roads will be maintained and kept in good repair during all drilling and completion operations associated with this well.

2. Planned Access Roads:

Approximately ± 0.03 mi. ($\pm 180'$) of new access road is proposed. Please refer to the attached Topo Map B.

The upgraded and new portions of the access road will be crowned and ditched with a running surface of 18 feet and a maximum disturbed width of 30 feet. Appropriate water control will be installed to control erosion.

Existence of pipelines; maximum grade; turnouts; major cut and fills, culverts, or bridges; gates, cattle guards, fence cuts, or modifications to existing facilities were determined at the on-site.

The access road was centerline flagged during time of staking.

Surfacing material may be necessary, depending upon weather conditions.

Surface disturbance and vehicular traffic will be limited to the approved location and approved access route. Any additional area needed will be approved in advance.

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

Please refer to Topo Map C.

4. Location of Existing & Proposed Facilities:

The following guidelines will apply if the well is productive.

All production facilities will be located on the disturbed portion of the well pad and at a minimum of 25 feet from the toe of the back slope or the top of the fill slope.

A dike will be constructed completely around those production facilities which contain fluids (i.e., production tanks, produced water tanks, and/or heater/treater). These dikes will be constructed of compacted subsoil, be impervious, hold 100% of the capacity of the largest tank, and be independent of the back cut.

All permanent (on-site six months or longer) above the ground structures constructed or installed, including pumping units, will be painted a flat, non-reflective, earthtone color to match one of the standard environmental colors, as determined by the five state Rocky Mountain Inter-Agency Committee.

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 required color is Shadow Gray, a non-reflective earthtone.

Any necessary pits will be properly fenced to protect livestock and prevent wildlife entry.

5. Location and Type of Water Supply:

Water for drilling purposes will be obtained from Dalbo Inc.'s underground well located in Ouray, Utah, Sec. 32 T4S R3E, Water User Claim #43-8496, Application #53617.

Water will be hauled to location over the roads marked on Maps A and B.

No water well is to be drilled on this lease.

6. Source of Construction Materials:

Surface and subsoil materials in the immediate area will be utilized.

Any gravel will be obtained from a commercial source.

7. Methods of Handling Waste Materials:

Drill cuttings will be contained and buried in the reserve pit.

Drilling fluids, including salts and chemicals, will be contained in the reserve pit. Upon termination of drilling and completion operations, the liquid contents of the reserve pit will be removed and disposed of at an approved waste disposal facility within 120 days after drilling is terminated.

The reserve pit will be constructed on the location and will not be located within natural drainage, where a flood hazard exists or surface runoff will destroy or damage the pit walls. The reserve pit will be constructed so that it will not leak, break, or allow discharge of liquids.

A plastic reinforced liner and felt will be used; it will be a minimum of 20 mil thick, with sufficient bedding used to cover any rocks. The liner will overlap the pit walls and be covered with dirt and/or rocks to hold it in place. No trash or scrap that could puncture the liner will be disposed of in the pit. Any spills of oil, gas, salt water, or other noxious fluids will be immediately cleaned up and removed to an approved disposal site.

A chemical porta-toilet will be furnished with the drilling rig.

Garbage, trash, and other waste materials will be collected in a portable, self-contained, fully enclosed trash cage during operations. No trash will be burned on location.

All debris and other waste material not contained in the trash cage will be cleaned up and removed from the location immediately after removal of the drilling rig.

Any open pits will be fenced during the operations. The fencing will be maintained until such time as the pits are backfilled.

Kerr-McGee Oil & Gas Onshore LP
NBU 921-26B2S/ 26B3S/ 26D1BS/ 26D1CS

Page 4
Surface Use and Operations Plan

No chemicals subject to reporting under SARA Title III (hazardous materials) in an amount greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling of this well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported, or disposed of in association with the drilling of this well.

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 in Sec. 5 T9S R22E, NBU #159 in Sec. 35 T9S R21E, Ace Oilfield in Sec. 2 T6S R20E, MC&MC in Sec. 12 T6S R19E, Pipeline Facility in Sec. 36 T9S R20E, Goat Pasture Evaporation Pond in SW/4 Sec. 16 T10S R22E, Bonanza Evaporation Pond in Sec. 2 T10S R23E.

8. Ancillary Facilities:

None are anticipated.

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.

The reserve pit will be lined, and when the reserve pit is closed, the pit liner will be buried below plow depth.

All pits will be fenced according to the following minimum standards:

39 inch net wire will be used with at least one strand of barbed wire on top of the net wire. Barbed wire is not necessary if pipe or some type of reinforcement rod is attached to the top of the entire fence.

The net wire shall be no more than two inches above the ground. The barbed wire shall be three inches over the net wire. Total height of the fence shall be at least 42 inches.

Corner posts shall be cemented and/or braced in such a manner to keep the fence tight at all times.

Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any 2 fence posts shall be no greater than 16 feet.

All wire shall be stretched, by using a stretching device, before it is attached to corner posts.

The reserve pit fencing will be on three sides during drilling operations, and on the fourth side when the rig moves off location. Pits will be fenced and maintained until cleanup.

Location size may change prior to the drilling of the well due to 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 9 shall be submitted.

10. Plans for Reclamation of the Surface:

Producing Location:

Immediately upon well completion, the location and surrounding area will be cleared of all unused tubing, materials, trash, and debris not required for production.

Immediately upon well completion, any hydrocarbons in the pit shall be removed in accordance with 43 CFR 3162.7-1.

A plastic, nylon reinforced liner will be used, it shall be torn and perforated before backfilling of the reserve pit.

Before any dirt work associated with location restoration takes place, the reserve pit shall be as dry as possible. All debris in it will be removed. Other waste and spoil materials will be disposed of immediately upon completion of operations.

The reserve pit and that portion of the location not needed for production facilities/operations will be recontoured to the approximate natural contours. The reserve pit will be reclaimed within 90 days from the date of well completion, weather permitting.

To prevent surface water(s) from standing (ponding) on the reclaimed reserve pit area, final reclamation of the reserve pit will consist of "mounding" the surface three feet above surrounding ground surface to allow the reclaimed pit area to drain effectively.

Upon completion of backfilling, leveling, and recontouring, the stockpiled topsoil will be spread evenly over the reclaimed area(s).

Dry Hole/Abandoned Location:

Abandoned well sites, roads, and other disturbed areas will be restored as near as practical to their original condition. Where applicable, these conditions include the re-establishment of irrigation systems, the re-establishment of appropriate soil conditions, and re-establishment of vegetation as specified.

All disturbed surfaces will be recontoured to the approximate natural contours, with reclamation of the well pad and access road to be performed as soon as practical after final abandonment. Reseeding operations will be performed after completion of other reclamation operations.

Kerr-McGee Oil & Gas Onshore LP
NBU 921-26B2S/ 26B3S/ 26D1BS/ 26D1CS

Page 6
Surface Use and Operations Plan

11. Surface/Mineral Ownership:

SITLA
675 East 500 South, Suite 500
Salt Lake City, UT 84102

12. Other Information:

All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, the approved Plan of Operations, and any applicable Notice of Lessees. The Operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished to the field representative to ensure compliance.

The Operator will control noxious weeds along Rights-Of-Way for roads, pipelines, well sites, or other applicable facilities.

A Class III archaeological survey report and paleontological survey report is attached.

13. Lessee's or Operators' Representative & Certification:

Kathy Schneebeck Dulnoan
Staff Regulatory Analyst
Kerr-McGee Oil & Gas Onshore LP
PO Box 173779
Denver, CO 80217-3779
(720) 929-6226

Tommy Thompson
General Manager, Drilling
Kerr-McGee Oil & Gas Onshore LP
PO Box 173779
Denver, CO 80217-3779
(720) 929-6724

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

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.

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 terms and conditions of the lease for the operations conducted upon leased lands.

Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by State Surety Bond 22013542.

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


Kathy Schneebeck Dulnoan

April 8, 2009
Date



Kerr-McGee Oil & Gas Onshore LP

1099 18th Street, Suite 1800
Denver, CO 80202-1918
P.O. Box 173779
Denver, CO 80217-3779
720-929-6000

April 6, 2009

Ms. 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 921-26D1CS
T9S-R21E
Section 26: NENW (Surf), NWNW (Bottom)
Surface: 836' FNL, 1648' FWL
Bottom Hole: 600' FNL, 980' FWL
Uintah County, Utah

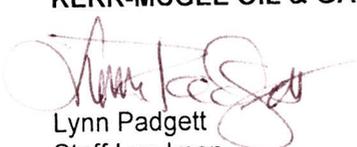
Dear Ms. Mason:

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 Directional Drilling.

- Kerr-McGee's NBU 921-26D1CS is located within the Natural Buttes Unit area.
- Kerr-McGee is permitting this well as a directional well in order to minimize surface disturbance. Locating the well at the surface location and directionally drilling from this location, Kerr-McGee will be able to utilize the existing road and pipelines in the area.
- Furthermore, Kerr-McGee certifies that it is the sole working interest owner within 460 feet of the entire directional well bore.

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

Sincerely,
KERR-MCGEE OIL & GAS ONSHORE LP


Lynn Padgett
Staff Landman

CLASS I REVIEW OF KERR-MCGEE OIL AND GAS
ONSHORE LP'S 25 PROPOSED WELL LOCATIONS
IN T9S, R21E SECS. 10, 13, 25, 26, 27, 29 AND 33
UINTAH COUNTY, UTAH

CLASS I REVIEW OF KERR-MCGEE OIL AND GAS
ONSHORE LP'S 25 PROPOSED WELL LOCATIONS
IN T9S, R21E SECS. 10, 13, 25, 26, 27, 29 AND 33
UINTAH COUNTY, UTAH

By:

Jacki A. Montgomery

Prepared For:

Ute Tribal Land
Uintah and Ouray Agency

Bureau of Land Management
Vernal Field Office

School and Institutional
Trust Lands Administration

Prepared Under Contract With:

Kerr-McGee Oil and Gas Onshore LP
1368 South 1200 East
Vernal, Utah 84078

Prepared By:

Montgomery Archaeological Consultants, Inc.
P.O. Box 219
Moab, Utah 84532

MOAC Report No. 08-320

November 26, 2008

United States Department of Interior (FLPMA)
Permit No. 08-UT-60122

Public Lands Policy Coordination Office
Archaeological Survey Permit No. 117

Ute Tribal Permit No. A08-363

INTRODUCTION

A Class I literature review was completed by Montgomery Archaeological Consultants, Inc. (MOAC) in November 2008 of Kerr-McGee Onshore's 25 proposed well locations in Township 9S, Range 21E. The project area is situated south of the White River and southeast of Ouray, Uintah County, Utah. The wells are designated NBU 921-10E3S, NBU 921-10F2S, NBU 921-10F3T, NBU 921-10G4S, NBU 921-13B2S, NBU 921-13CT, NBU 921-13D4S, NBU 921-13G2S, NBU 921-25F4S, NBU 921-25G4S, NBU 921-25I4BS, NBU 921-25I1CS, NBU 921-25J1S, NBU 921-25K1S, NBU 921-26B2S, NBU 921-26B3S, NBU 921-26D1BS, NBU 921-26D1CS, NBU 921-26M2AS, NBU 921-26M4AS, NBU 921-26N2AS, NBU 921-26N2DS, State 921-27E1D, Federal 921-2901D, and NBU 921-33K. This document was implemented at the request of Ms. Raleen White, Kerr-McGee Onshore LP, Denver, Colorado.

The purpose of this Class I review is to identify, classify, and evaluate the previously conducted cultural resource inventories and archaeological sites in the project area in order to comply with Section 106 of 36 CFR 800, the National Historic Preservation Act of 1966 (as amended). Also, the inventory was implemented to attain compliance with a number of federal and state mandates, including the National Environmental Policy Act of 1969, the Archaeological and Historic Conservation Act of 1972, the Archaeological Resources Protection Act of 1979, the American Indian Religious Freedom Act of 1978, and the Utah State Antiquities Act of 1973 (amended 1990).

The project area in which Kerr-McGee Onshore's 25 proposed well locations occur was previously inventoried by MOAC in 2007 for the Class III inventory of Township 9 South, Range 21 East (Montgomery and Roberts 2007; U-07-MQ-U-07-MQ-1437). A file search was completed by consulting MOAC's Class I existing data review of 459 square miles (293,805 acres) covering the Greater NBU study area between Bonanza and Ouray in Uintah County, northeastern Utah (Patterson et al. 2008). Kerr-McGee Oil & Gas Onshore LP proposes to explore and develop oil and natural gas resources throughout the area. Record searches were performed for this Class I project by Marty Thomas at the Utah State Historic Preservation Office (SHPO) on various dates between June 14, 2006 and January 27, 2007. The results of this Class I data review and Class III inventory indicated that two previously recorded prehistoric sites (42Un1056 and 42Un1857) occur in or near to the current project area.

DESCRIPTION OF THE PROJECT AREA

The project area is situated south of the White River and on both sides of Cottonwood Wash in the Uinta Basin. The legal description is Township 9S, Range 21E, Sections 10, 13, 25, 26, 27, 29 and 33 (Figures 1 and 2, Table 1). Land status is public land administered by the Bureau of Land Management (BLM) Vernal Field Office, Ute Tribal land (Uintah and Ouray Agency), and School and Institutional Trust Lands Administration (SITLA) property.

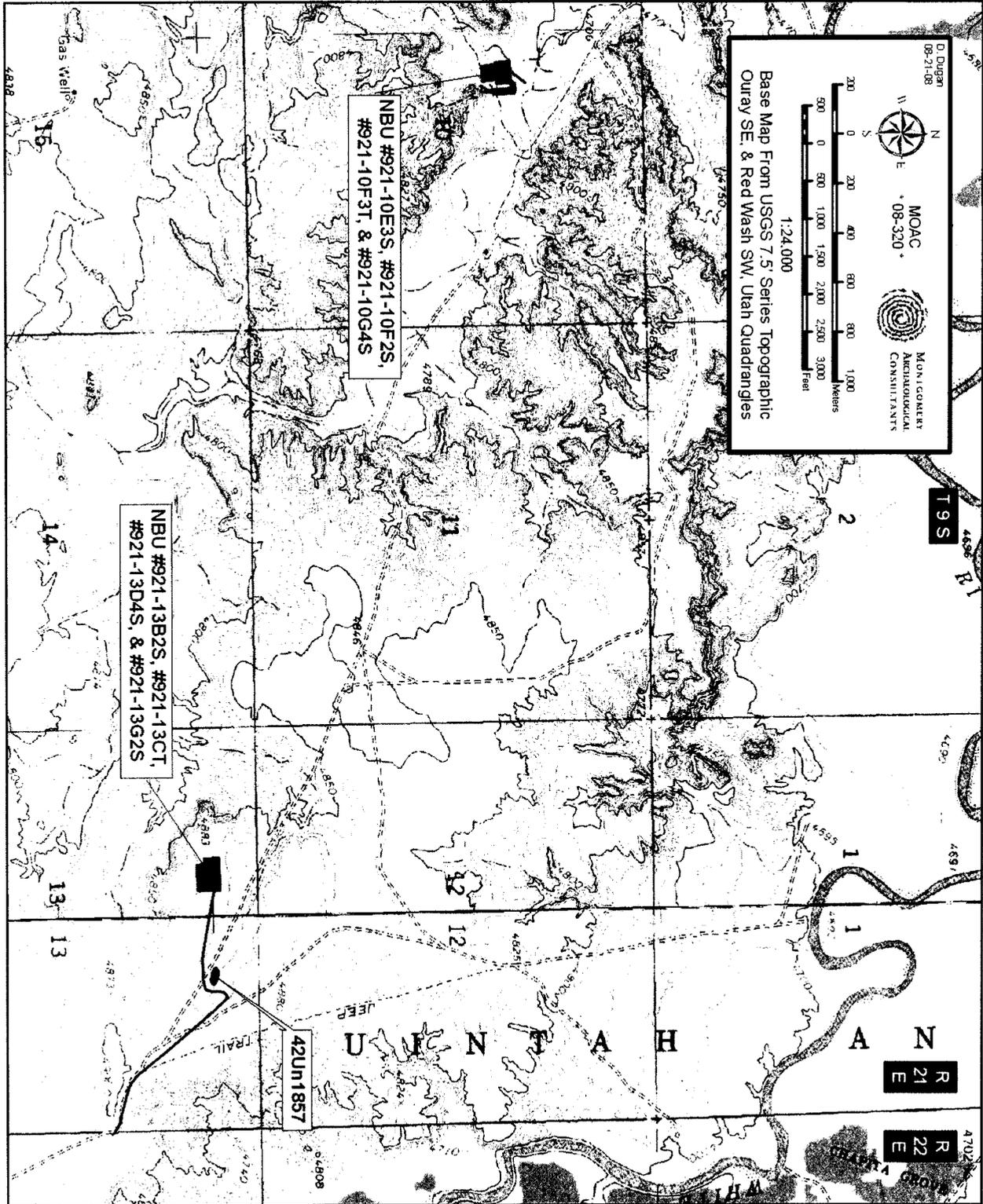


Figure 1. Location of Kerr-McGee Onshore's Proposed Well Pads.

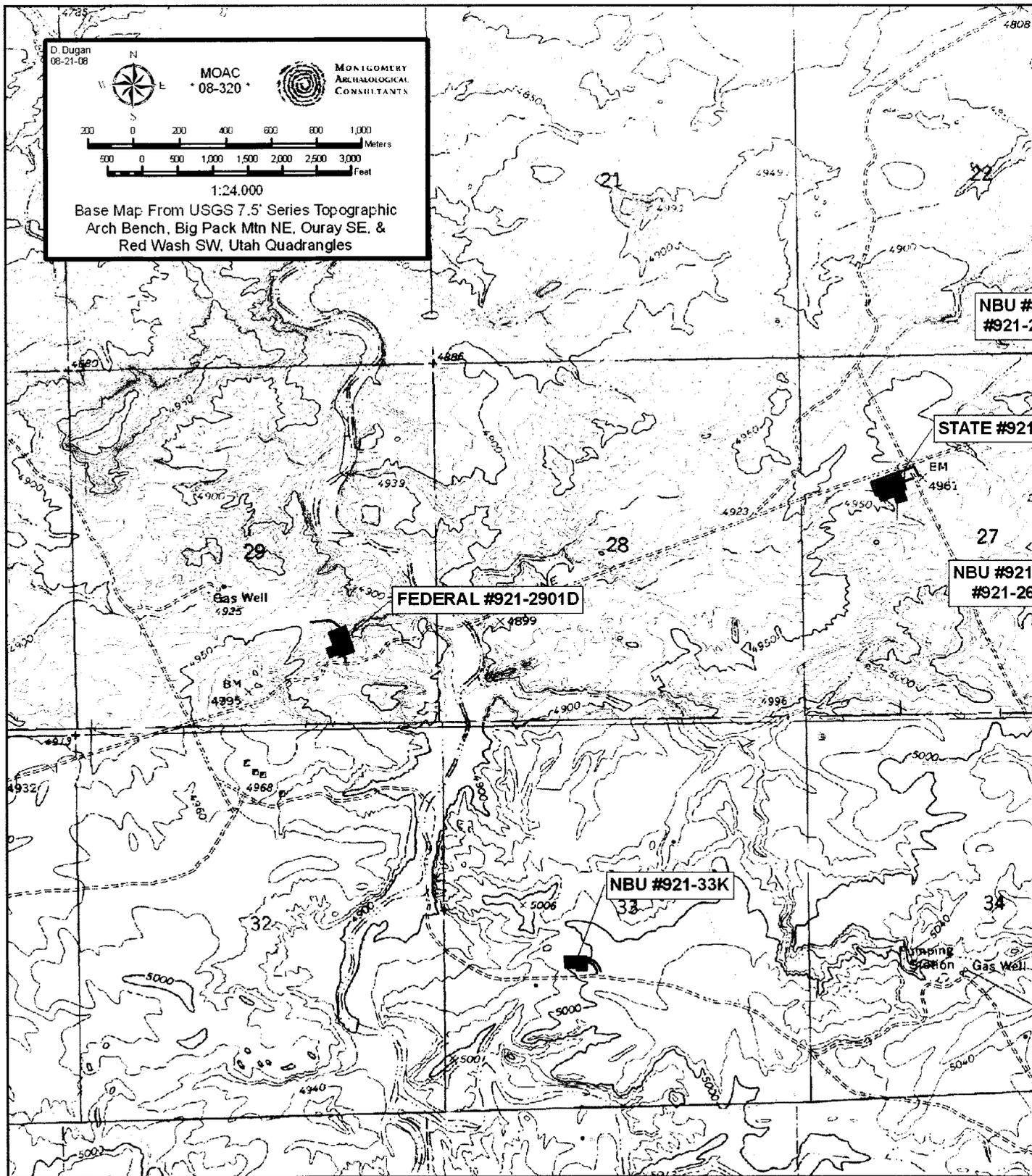


Figure 2. Location of Kerr-McGee Onshore's Proposed Well Pads.

Table 1. Kerr-McGee Onshore's 25 NBU Well Locations.

Well Designation	Legal Description Land Status	Access/Pipeline Corridor	Cultural Resources
NBU 921-10E3S, 921-10F2S 921-10F3T, 921-10G4S	T9S, R21E, Sec. 10 SE/NW (Tribal)	Access: 300 ft Pipeline: 550 ft	None
NBU 921-13B2S, 921-13CT 921-13D4S, 921-13G2S	T9S, R21E, Sec. 13 NE/NW (Tribal)	Pipeline: 4100 ft	42Un1857
NBU 921-25F4S, 921-25G4S 921-25I4BS, 921-25I1CS, 921- 25J1S, 921-25K1S	T9S, R21E, Sec. 25 NW/SE (SITLA)	Access: 300 ft Pipeline: 2000 ft	None
NBU 921-26B2S, 921-26B3S 921-26D1BS, 921-26D1CS	T9S, R21E, Sec. 26 NE/NW (SITLA)	Access: 150 ft Pipeline: 75 ft	42Un1056
NBU 921-26M2AS, 921-26M4AS 921-26N2AS, 921-26N2DS	T9S, R21E, Sec. 26 SE/SW (SITLA)	Access: 150 ft Pipeline: 100 ft	None
STATE 921-27E1D	T9S, R21E, Sec. 27 SW/NW and SE/NW (SITLA)	Access: 100 ft Pipeline: 700 ft	None
FEDERAL 921-2901D	T9S, R21E, Sec. 29 CT/SE (BLM)	Access: 500 ft Pipeline: 100 ft	None
NBU 921-33K	T9S, R21E, Sec. 33 NE/SW (SITLA)	Pipeline: 150 ft Access: 150 ft	None

The study area lies within the Uinta Basin physiographic unit, a distinctly bowl-shaped geologic structure (Stokes 1986:231). The Uinta Basin ecosystem is within the Green River drainage, considered to be the northernmost extension of the Colorado Plateau. The geology is comprised of Tertiary age deposits, which include Paleocene age deposits and Eocene age fluvial and lacustrine sedimentary rocks. The Uinta Formation, which is predominate in the project area, occurs as eroded outcrops (formed by fluvial deposited, stream laid interbedded sandstone and mudstone), and is known for its prolific paleontological localities. Specifically, the inventory area is situated south of the White River and on both sides of Cottonwood Wash. Elevation ranges from 4680 to 5000 ft asl. The project occurs within the Upper Sonoran Desert Shrub Association which includes sagebrush, shadscale, greasewood, mat saltbush, snakeweed, rabbitbrush, and prickly pear cactus. Modern disturbances include livestock grazing, roads, and oil/gas development.

CLASS I RESULTS AND RECOMMENDATIONS

The Class I literature review of Kerr-McGee Onshore's 25 proposed well locations and associated pipeline corridors in Township 9S, Range 21E resulted in the location of two previously documented prehistoric sites (42Un1056 and 42Un1857) which are evaluated not eligible to the NRHP. Site 42Un1857 is situated on Ute Tribal land and will not be disturbed by the undertaking. Based on the findings, a determination of "no historic properties affected" is recommended for the undertaking pursuant to Section 106, CFR 800.

11/24/08
08-320

REFERENCES CITED

- Montgomery, J. A., and C. G. Roberts
2007 Cultural Resource Management Report for Kerr-McGee Oil and Gas Onshore LP's Greater NBU Blocks in Township 9 South, Range 21 East, Uintah County, Utah. Montgomery Archaeological Consultants, Moab, Utah. Report No. U-07-MQ-1437.
- Patterson, J. J., J. Fritz, K. Lower-Eskelson, R. Stash and A. Thomas
2008 NBU Class I Existing Data Review for Kerr-McGee Oil & Gas Onshore LP, Uintah County, Utah. Montgomery Archaeological Consultants, Moab, Utah.
- Stokes, W. L.
1986 *Geology of Utah*. Utah Museum of Natural History and Utah Geological and Mineral Survey, Salt Lake City.

IPC #08-316

Paleontological Reconnaissance Survey Report

**Survey of Kerr McGee's Proposed Multi-Well Pads, Access Roads,
Pipelines & Pipeline Upgrade for "NBU #921-26B2S, B3S, D1BS
& D1CS" (Sec. 26, T 9 S, R 21 E) & "NBU #922-34D3BS,
D2CS & C3BS" (Sec. 33 & 34, T 9 S, R 22 E) &
(Sec. 4, T 10 S, R 22 E)**

Archy Bench & Ouray SE
Topographic Quadrangle
Uintah County, Utah

December 3, 2008

Prepared by Stephen D. Sandau
Paleontologist for
Intermountain Paleo-Consulting
P. O. Box 1125
Vernal, Utah 84078

INTRODUCTION

At the request of Raleen White of Kerr McGee Onshore LP and authorized by the BLM Vernal Field Office and James Kirkland of the Office of the State Paleontologist, a paleontological reconnaissance survey of Kerr McGee's proposed multi-well pads, access roads, pipelines & pipeline upgrade for "NBU #921-26B2S, B3S, D1BS & D1CS" (Sec. 26, T 9 S, R 21 E) & "NBU #922-34D3BS, D2CS & C3BS" (Sec. 33 & 34, T 9 S, R 22 E) & (Sec. 4, T 10 S, R 22 E) was conducted by Simon Masters on November 6, 2008. The reconnaissance survey was conducted under the Utah BLM Paleontological Resources Use Permit #UT08-006C and Utah Paleontological Investigations Permit #07-356. This survey to locate, identify and evaluate paleontological resources was done to meet requirements of the National Environmental Policy Act of 1969 and other State and Federal laws and regulations that protect paleontological resources.

FEDERAL AND STATE REQUIREMENTS

As mandated by the Federal and State government, paleontologically sensitive geologic formations on State lands that are considered for exchange or may be impacted due to ground disturbance require paleontological evaluation. This requirement complies with:

- 1) The National Environmental Policy Act of 1969 (NEPA) (42 U.S.C. 4321.et. Seq., P.L. 91-190);
- 2) The Federal Land Policy and Management Act (FLPMA) of 1976 (90 Stat. 2743, 43 U.S.C. § 1701-1785, et. Seq., P.L. 94-579);
- 3) The National Historic Preservation Act. 16 U.S.C. § 470-1, P.L. 102-575 in conjunction with 42 U.S.C. § 5320; and
- 4) The Utah Geological Survey. S. C. A.: 63-73-1. (1-21) and U.C.A.: 53B-17-603

The new Potential Fossil Yield Classification (PFYC) System (October, 2007) replaces the Condition Classification System from Handbook H-8270-1. Geologic units are classified based on the relative abundance of vertebrate fossils or scientifically significant invertebrate or plant fossils and their sensitivity to adverse impacts, with a higher class number indicating a higher potential.

- **Class 1 – Very Low.** Geologic units (igneous, metamorphic, or Precambrian) not likely to contain recognizable fossil remains.
- **Class 2 – Low.** Sedimentary geologic units not likely to contain vertebrate fossils or scientifically significant non-vertebrate fossils. (Including modern eolian, fluvial, and colluvial deposits etc...)
- **Class 3 – Moderate or Unknown.** Fossiliferous sedimentary geologic units where fossil content varies in significance, abundance, and predictable occurrence; or sedimentary units of unknown fossil potential.
 - **Class 3a – Moderate Potential.** The potential for a project to be sited on or impact a significant fossil locality is low, but is somewhat higher for common fossils.

- **Class 3b – Unknown Potential.** Units exhibit geologic features and preservational conditions that suggest significant fossils could be present, but little information about the paleontological resources of the unit or the area is known.
- **Class 4 – High.** Geologic units containing a high occurrence of vertebrate fossils or scientifically significant invertebrate or plant fossils, but may vary in abundance and predictability.
 - **Class 4a** – Outcrop areas with high potential are extensive (greater than two acres) and paleontological resources may be susceptible to adverse impacts from surface disturbing actions.
 - **Class 4b** – Areas underlain by geologic units with high potential but have lowered risks of disturbance due to moderating circumstances such as a protective layer of soil or alluvial material; or outcrop areas are smaller than two contiguous acres.
- **Class 5 – Very High.** Highly fossiliferous geologic units that consistently and predictably produce vertebrate fossils or scientifically significant invertebrate or plant fossils.
 - **Class 5a** - Outcrop areas with very high potential are extensive (greater than two acres) and paleontological resources may be susceptible to adverse impacts from surface disturbing actions.
 - **Class 5b** - Areas underlain by geologic units with very high potential but have lowered risks of disturbance due to moderating circumstances such as a protective layer of soil or alluvial material; or outcrop areas are smaller than two contiguous acres.

It should be noted that many fossils, though common and unimpressive in and of themselves, can be important paleo-environmental, depositional, and chronostratigraphic indicators.

LOCATION

Kerr McGee's proposed multi-well pads, access roads, pipelines & pipeline upgrade for "NBU #921-26B2S, B3S, D1BS & D1CS" (Sec. 26, T 9 S, R 21 E) & "NBU #922-34D3BS, D2CS & C3BS" (Sec. 33 & 34, T 9 S, R 22 E) & (Sec. 4, T 10 S, R 22 E) are on lands managed by the BLM and the State of Utah Trust Lands Administration (SITLA), approximately 1-3 mile west of the White River and some 11-20 miles southeast of Ouray, UT. The project area can be found on the Archy Bench and Ouray SE 7.5 minute U. S. Geological Survey Quadrangle Maps, Uintah County, Utah.

PREVIOUS WORK

The basins of western North America have long produced some of the richest fossil collections in the world. Early Cenozoic sediments are especially well represented throughout the western interior. Paleontologists started field work in Utah's Uinta Basin as early as 1870 (Betts, 1871; Marsh, 1871, 1875a, 1875b). The Uinta Basin is located in the northeastern corner of Utah and covers approximately 31,000 sq. km (12,000 sq. miles) ranging in elevation from 1,465 to 2,130 m (4,800 to 7,000 ft) (Marsell, 1964; Hamblin et al., 1987). Middle to late Eocene time marked a period of dramatic change in the climate, flora, (Stucky, 1992) and fauna (Black and Dawson, 1966) of North America.

GEOLOGICAL AND PALEONTOLOGICAL OVERVIEW

Early in the geologic history of Utah, some 1,000 to 600 Ma, an east-west trending basin developed creating accommodation for 25,000 feet of siliclastics. Uplift of that filled-basin during the early Cenozoic formed the Uinta Mountains (Rasmussen et al., 1999). With the rise of the Uinta Mountains the asymmetrical synclinal Uinta Basin is thought to have formed through the effects of down warping in connection with the uplift. Throughout the Paleozoic and Mesozoic deposition fluctuated between marine and non-marine environments laying down a thick succession of sediments in the area now occupied by the Uinta Basin. Portions of these beds crop out on the margins of the basin due to tectonic events during the late Mesozoic.

Early Tertiary Uinta Basin sediments were deposited in alternating lacustrine and fluvial environments. Large shallow lakes periodically covered most of the basin and surrounding areas during early to mid Eocene time (Abbott, 1957). These lacustrine sediments show up in the western part of the basin, dipping 2-3 degrees to the northeast and are lost in the subsurface on the east side. The increase of cross-bedded, coarse-grained sandstone and conglomerates preserved in paleo-channels indicates a transition to a fluvial environment toward the end of the epoch.

Four Eocene formations are recognized in the Uinta Basin: the Wasatch, Green River, Uinta and Duchesne River, respectively (Wood, 1941). The Uinta Formation is subdivided into two lithostratigraphic units namely: the Wagonhound Member (Wood, 1934), formerly known as Uinta A and B (Osborn, 1895, 1929) and the Myton Member previously regarded as the Uinta C.

Within the Uinta Basin in northeast Utah, the Uinta Formation in the western part of the basin is composed primarily of lacustrine sediments inter-fingering with over-bank deposits of silt and mudstone and westward flowing channel sands and fluvial clays, muds, and sands in the east (Bryant et al, 1990; Ryder et al, 1976). Stratigraphic work done by early geologists and paleontologists within the Uinta Formation focused on the definition of rock units and attempted to define a distinction between early and late Uintan faunas (Riggs, 1912; Peterson and Kay, 1931; Kay 1934). More recent work focused on magnetostratigraphy, radioscopic chronology and continental biostratigraphy (Flynn, 1986; Prothero, 1996). Well-known for its fossiliferous nature and distinctive mammalian fauna of mid-Eocene Age, the Uinta Formation is the type formation for the Uintan Land Mammal Age (Wood et al, 1941).

The Duchesne River Formation of the Uinta Basin in northeastern Utah is composed of a succession of fluvial and flood plain deposits composed of mud, silt and sandstone. The source area for these late Eocene deposits is from the Uinta Mountains indicated by paleocurrent data (Anderson and Picard, 1972). In Peterson's (1931c) paper, the name "Duchesne Formation" was applied to the formation and it was later changed to the "Duchesne River Formation" by Kay (1934). The formation is divided up into four members: the Brennan Basin, Dry Gulch Creek, LaPoint and Starr Flat (Anderson and Picard, 1972). Debates concerning the Duchesne River Formation, as to whether its age was late Eocene or early Oligocene, have surfaced throughout the literature of the last century (Wood et al., 1941; Scott 1945). Recent paleo-magnetostratigraphic work (Prothero, 1996) shows that the Duchesne River Formation is late Eocene in time.

FIELD METHODS

In order to determine if the proposed project area contained any paleontological resources, a reconnaissance survey was performed. An on-site observation of the proposed areas undergoing surficial disturbance is necessary because judgments made from topographic maps alone are often unreliable. Areas of low relief have potential to be erosional surfaces with the possibility of bearing fossil materials rather than surfaces covered by unconsolidated sediment or soils.

When found within the proposed construction areas, outcrops and erosional surfaces were checked to determine if fossils were present and to assess needs. Careful effort is made during surveys to identify and evaluate significant fossil materials or fossil horizons when they are found. Microvertebrates, although rare, are occasionally found in anthills or upon erosional surfaces and are of particular importance.

PROJECT AREA

The project area is situated in the Wagonhound Member (Uinta A & B) of the Uinta Formation. The following list provides a description of the individual wells and their associated pipelines and access roads.

NBU #921-26B2S, B3S, D1BS & D1CS

The proposed well pad, access road, and pipeline are located in the NE/NW quarter-quarter section of Sec. 26, T 9 S, R 21 E (Figure 1). The staked well pad, access road, and pipeline are located on a thin layer of colluvium covering a flat of the fluvial purple-green, massive, medium-grained sandstone and a well indurated purple siltstone. No fossil resources were discovered.

NBU #922-34D3BS, D2CS & C3BS

The proposed multi well pad is located in the SW/NW quarter-quarter section of Sec. 34, T 9 S, R 22 E (Figure 2). A portion of the well pad is staked within the existing well pad "CIGE 117". The proposed pipeline upgrade begins in the NW/SW quarter-quarter section of Sec. 34, T 9 S, R 22 E and heads west-southwest for approximately 0.75 mile along existing, well established

roads and terminates at an existing tie-in. The staked well pad is located on low, rolling, colluvium covered hills of the fluvial sediments. On the tops of the hills and along the drainages, outcrops green siltstone and a well indurated purple siltstone are exposed. The pipeline upgrade is located exclusively on thick colluvium or previously disturbed sediments of the Wagonhound Member (Uinta A and B) of the Uinta Formation. No fossil resources were discovered.

SURVEY RESULTS

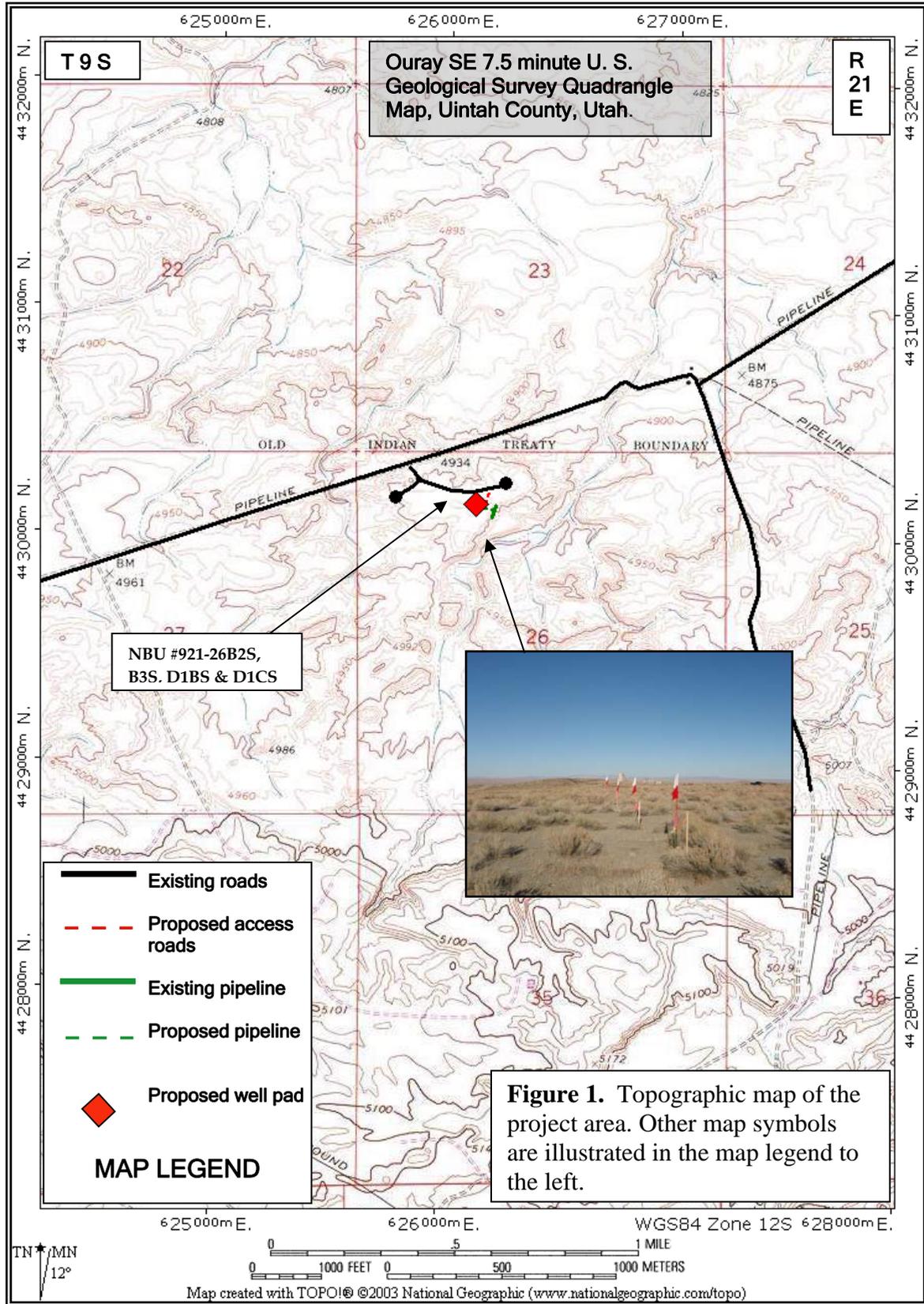
PROJECT	GEOLOGY	PALEONTOLOGY
<p>“NBU #921-26B2S, B3S, D1BS & D1CS” (Sec. 26, T 9 S, R 21 E)</p>	<p>The staked well pad, access road, and pipeline are located on a thin layer of colluvium covering a flat of the fluvial purple-green, massive, medium-grained sandstone and a well indurated purple siltstone.</p>	<p>No fossil resources were discovered. Class 3a</p>
<p>“NBU #922-34D3BS, D2CS & C3BS” (Sec. 33 & 34, T 9 S, R 22 E) & (Sec. 4, T 10 S, R 22 E)</p>	<p>The staked well pad is located on low, rolling, colluvium covered hills of the fluvial sediments. On the tops of the hills and along the drainages, outcrops green siltstone and a well indurated purple siltstone are exposed. The pipeline upgrade is located exclusively on thick colluvium or previously disturbed sediments of the Wagonhound Member (Uinta A and B) of the Uinta Formation.</p>	<p>No fossil resources were discovered. Class 3a</p>

RECOMMENDATIONS

A reconnaissance survey was conducted for Kerr McGee's proposed "NBU #921-26B2S, B3S, D1BS & D1CS" (Sec. 26, T 9 S, R 21 E) & "NBU #922-34D3BS, D2CS & C3BS" (Sec. 33 & 34, T 9 S, R 22 E) & (Sec. 4, T 10 S, R 22 E). The multi-well pads along with the associated access roads, pipelines & pipeline upgrades covered in this report showed no signs of vertebrate fossils. Therefore, we recommend that no paleontological restrictions should be placed on the development of the projects included in this report.

Buried pipeline will encounter Uinta formational sediments along most of the staked pipeline corridors yet indications from surface fossils predict that little if any vertebrate fossils will be disturbed.

Nevertheless, if any vertebrate fossil(s) are found during construction within the project area, Operator (Lease Holder) will report all occurrences of paleontological resources discovered to a geologist with the Vernal Field Office of the BLM and the Office of the State Paleontologist. The operator is responsible for informing all persons in the areas who are associated with this project of the requirements for protecting paleontological resources. Paleontological resources found on the public lands are recognized by the BLM and State as constituting a fragile and nonrenewable scientific record of the history of life on earth, and so represent an important and critical component of America's natural heritage. These resources are afforded protection under 43 CFR 3802 and 3809, and penalties possible for the collection of vertebrate fossils are under 43 CFR 8365.1-5.



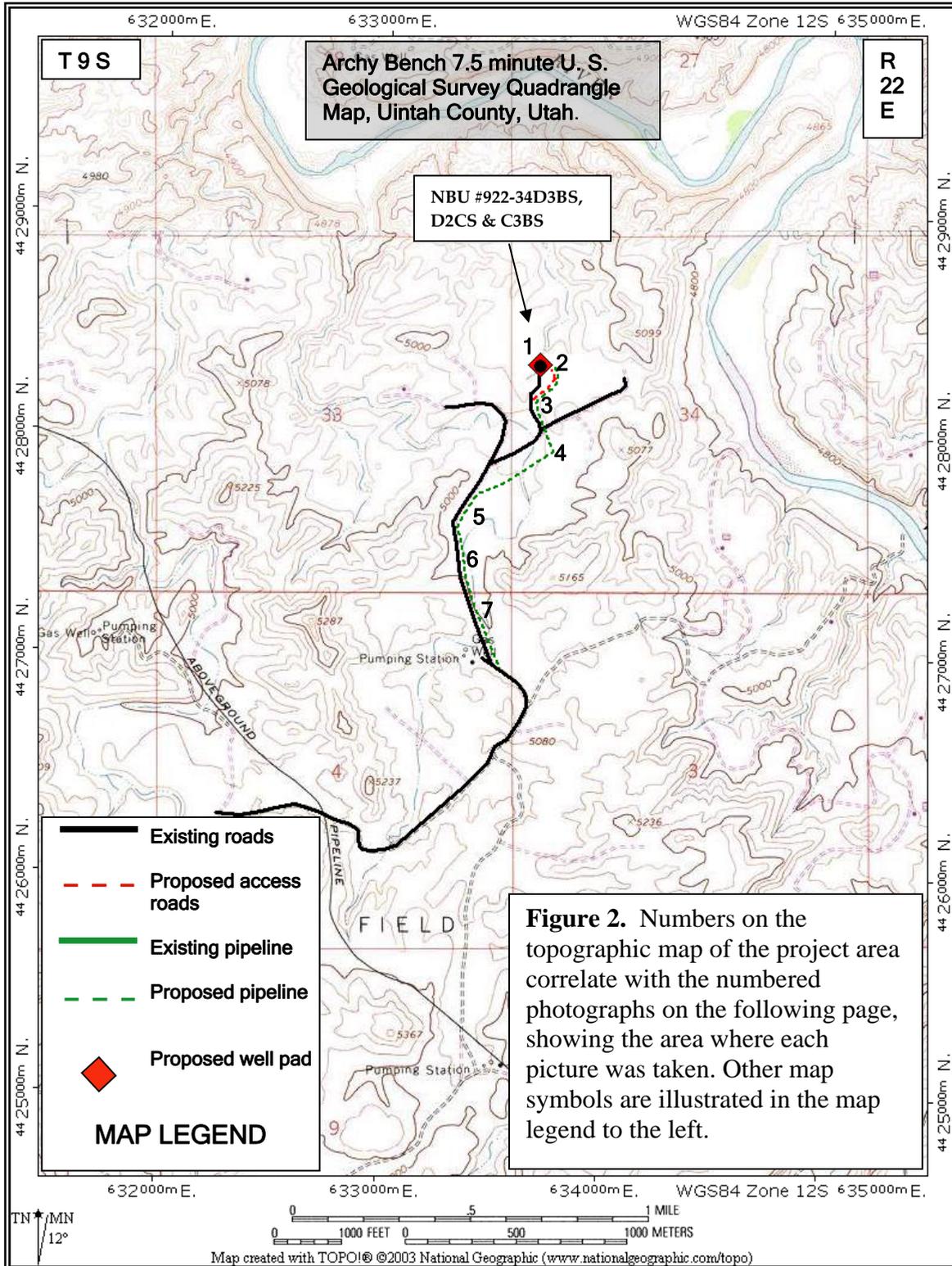
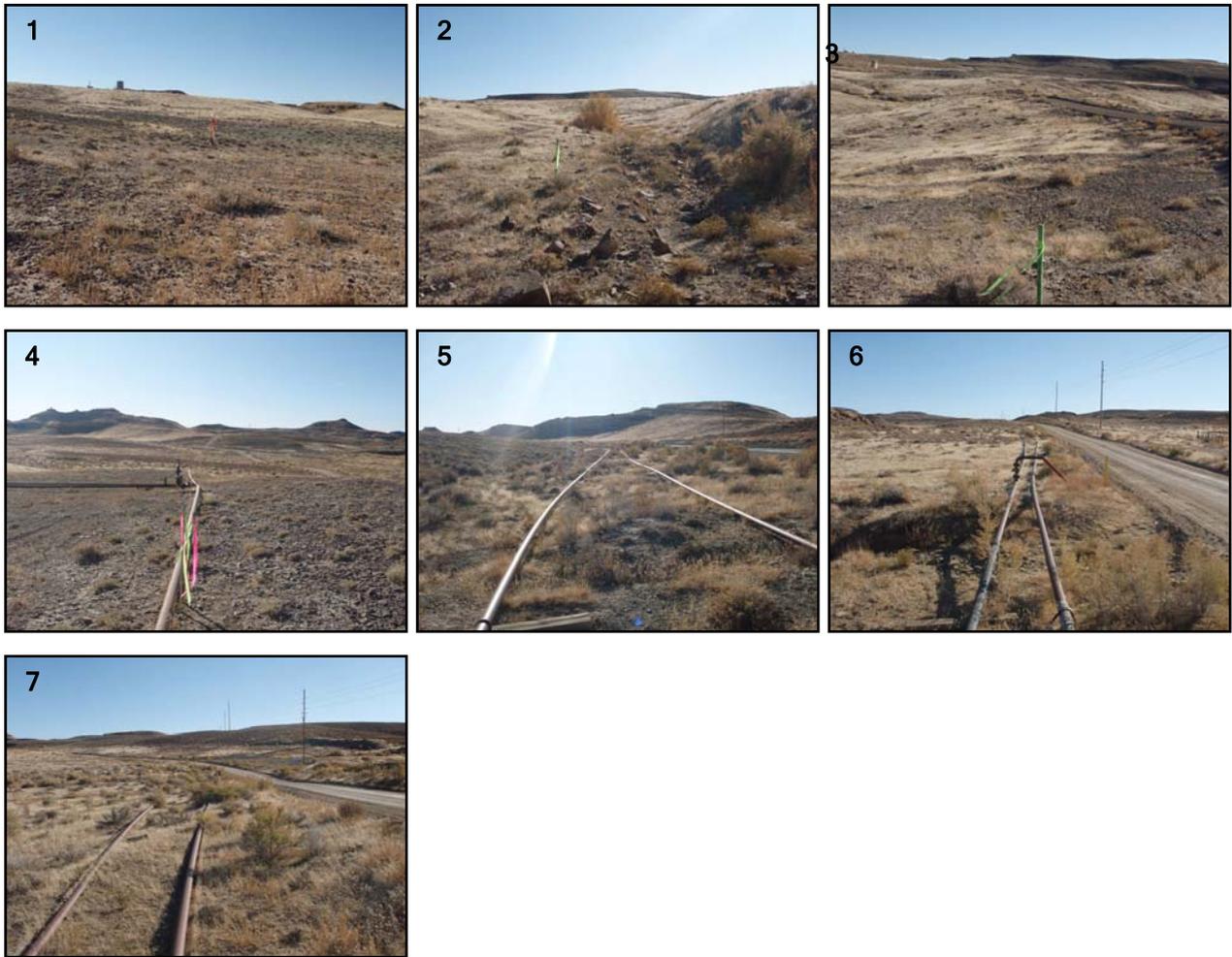


Figure 2. *continued...*



REFERENCES CITED

- Abbott, W., 1957, Tertiary of the Uinta Basin: Intermountain Assoc. Petroleum Geologists Guidebook, Eighth Ann. Field Conf., p. 102-109.
- Anderson, D. W., and Picard, M. D., 1972, Stratigraphy of the Duchesne River Formation (Eocene-Oligocene?), northern Uinta Basin, northeastern Utah: Utah Geological and Mineralogical Survey Bulletin 97, p. 1-28.
- Betts, C. W., 1871, The Yale College expedition of 1870: Harper's New Monthly Magazine, v. 43, p. 663-671.
- Black, C. C. and Dawson, M. R., 1966, A Review of Late Eocene Mammalian Faunas from North America: American Journal of Science, v. 264, p. 321-349.
- Bryant, B., Naeser C. W., Marvin R. F., Mahnert H. H., 1989, Cretaceous and Paleogene Sedimentary Rocks and Isotopic Ages of Paleogene Tuffs, Uinta basin, Utah. And Ages of Late Paleogene and Neogene Tuffs and the Beginning of Rapid Regional Extension, Eastern Boundary of the Basin and Range Province near Salt lake City, Utah: In: Evolution of Sedimentary basins-Uinta and Piceance Basins. U. S. Geological Survey Bulletin 1787-J, K.
- Flynn, J. J., 1986, Correlation and geochronology of middle Eocene strata from the western United States: Palaeogeographic, Palaeoclimatology, Palaeoecology, v. 55, p. 335-406.
- Hamblin, A. H. and Miller, W. E., 1987, Paleogeography and Paleoecology of the Myton Pocket, Uinta Basin, Utah (Uinta Formation-Upper Eocene): Brigham Young University Geology Studies, v. 34, p 33-60.
- Kay, J. L., 1934, Tertiary formations of the Uinta Basin, Utah: Annals of Carnegie Museum, v. 23, p. 357-371.
- Marsell, R. E., 1964, Geomorphology of the Uinta Basin-A Brief Sketch: Thirteenth annual Field Conference. Association of Petroleum Geologists, p. 34-46.
- Marsh, O. C., 1871, on the geology of the Eastern Uintah Mountains: American Journal of Science and Arts, v. 1, p. 1-8.
- _____ 1875a, Ancient lake basins of the Rocky Mountain region: American Journal of Science and Arts, v. 9, p. 49-52.
- _____ 1875b, Notice of new Tertiary mammals, IV: American Journal of Science and Arts, Third Series, v. 9, p. 239-250.

- Osborn, H. F., 1895, Fossil mammals of the Uinta beds, expedition of 1894: American Museum of Natural History Bulletin, v. 7, p. 71-106.
- _____ 1929, The Titanotheres of Ancient Wyoming, Dakota and Nebraska: Monograph of the U. S. Geological Survey, v. 55, p. 1-953.
- Peterson, O. A., 1931c, new species from the Oligocene of the Uinta: Annals of Carnegie Museum, v. 21, p. 61-78.
- Peterson, O. A. and Kay, J. L., 1931, The Upper Uinta Formation of Northeastern Utah: Annals of the Carnegie Museum, v. 20, p. 293-306.
- Prothero, D. R., 1996, Magnetic Stratigraphy and biostratigraphy of the middle Eocene Uinta Formation, Uinta Basin, Utah, *in* Prothero, D. R., and Emry, R. J. editors, The Terrestrial Eocene-Oligocene Transition in North America, p. 3-24.
- Rasmussen, D. T., Conroy, G. C., Friscia, A. R., Townsend, K. E. and Kinkel, M. D., 1999, Mammals of the middle Eocene Uinta Formation: Vertebrate Paleontology of Utah, p. 401-420.
- Riggs, E. S., 1912. New or Little Known Titanotheres from the Lower Uintah Formations: Field Museum of Natural History Geological Series, v. 159, p. 17-41.
- Ryder, R. T., Fouch, T. D., Elison, J. H., 1976, Early Tertiary sedimentation in the western Uinta Basin, Utah: Geological Society of America Bulletin v. 87, p. 496-512.
- Scott, W. B., 1945, The Mammalia of the Duchesne River Oligocene: Transactions of the American Philosophical Society, v. 34, p. 209-253.
- Stucky, R. K., 1992, Mammalian faunas in North America of Bridgerian to early Arikareean "age" (Eocene and Oligocene), *in* Prothero, D. R., and Berggren, W. A., eds., Eocene-Oligocene climatic and biotic evolution: Princeton University Press, p. 464-493.
- Wood, H. E., 1934, Revision of the Hyrachyidae: American Museum of Natural History Bulletin, v. 67, p. 181-295.
- _____ and others, 1941, Nomenclature and Correlation of the North America Continental Tertiary: Geol. Soc. Amer. Bull., v. 52, no. 1, Jan. 1, p. 1-48. 52, no. 1, Jan. 1, p. 1-48.

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)

May 1, 2009

Memorandum

To: Assistant District Manager Minerals, Vernal District
From: Michael Coulthard, Petroleum Engineer
Subject: 2009 Plan of Development Natural Buttes Unit
Uintah County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2009 within the Natural Buttes Unit, Uintah County, Utah.

API #	WELL NAME	LOCATION
(Proposed PZ WASATCH-MESA VERDE)		
43-047-50362	NBU 921-26D1CS	Sec 26 T09S R21E 0836 FNL 1648 FWL
	BHL	Sec 26 T09S R21E 0600 FNL 0980 FWL
43-047-50363	NBU 921-26D1BS	Sec 26 T09S R21E 0820 FNL 1661 FWL
	BHL	Sec 26 T09S R21E 0110 FNL 0980 FWL
43-047-50364	NBU 921-26B3S	Sec 26 T09S R21E 0804 FNL 1673 FWL
	BHL	Sec 26 T09S R21E 0950 FNL 2360 FEL
43-047-50365	NBU 921-26B2S	Sec 26 T09S R21E 0788 FNL 1685 FWL
	BHL	Sec 26 T09S R21E 0460 FNL 2360 FEL
43-047-50366	NBU 922-36M3T	Sec 36 T09S R22E 0538 FSL 0433 FWL
43-047-50367	NBU 922-36N4BS	Sec 36 T09S R22E 0538 FSL 0453 FWL
	BHL	Sec 36 T09S R22E 0510 FSL 2095 FWL
43-047-50368	NBU 922-36L4BS	Sec 36 T09S R22E 0539 FSL 0413 FWL
	BHL	Sec 36 T09S R22E 1925 FSL 0930 FWL
43-047-50369	NBU 922-36L3DS	Sec 36 T09S R22E 0539 FSL 0393 FWL
	BHL	Sec 36 T09S R22E 1380 FSL 0385 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:5-1-09

From: Jim Davis
To: Bonner, Ed; Mason, Diana
Date: 5/5/2009 4:42 PM
Subject: Well approvals 5/5/09

CC: Garrison, LaVonne

The following wells have been approved by SITLA including arch and paleo clearance.

EC 98-16 (4304750251)
NBU 922-29M3CS (4304750342)
NBU 922-29M2DS (4304750343)

NBU 921-26B3S (4304750364)
NBU 921-26D1BS (4304750363)
NBU 921-26D1CS (4304750362)

NBU 922-29M4DS (4304750357)
NBU 922-29M3CS (4304750342)
NBU 922-29M2DS (4304750343)

NBU 1022-10C1BS (4304750358)
NBU 1022-10B2AS (4304750360)
NBU 1022-10A4BS (4304750361)
NBU 1022-10B4BS (4304750359)

-Jim

Jim Davis
Utah Trust Lands Administration
jimdavis1@utah.gov
Phone: (801) 538-5156

Well Name	KERR-MCGEE OIL & GAS ONSHORE, L.P. NBU 921-26D1CS 4304750362		
String	Surf	Prod	
Casing Size(")	9.625	4.500	
Setting Depth (TVD)	2600	9750	
Previous Shoe Setting Depth (TVD)	20	2600	
Max Mud Weight (ppg)	8.3	12.0	
BOPE Proposed (psi)	500	5000	
Casing Internal Yield (psi)	3520	7780	
Operators Max Anticipated Pressure (psi)	6057	11.9	

Calculations	Surf String	9.625	"
Max BPH (psi)	$.052 * \text{Setting Depth} * \text{MW} =$	1126	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	$\text{Max BHP} - (0.12 * \text{Setting Depth}) =$	814	NO
MASP (Gas/Mud) (psi)	$\text{Max BHP} - (0.22 * \text{Setting Depth}) =$	554	NO OK
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	$\text{Max BHP} - .22 * (\text{Setting Depth} - \text{Previous Shoe Depth}) =$	558	NO Reasonable depth in area, no expected pressure
Required Casing/BOPE Test Pressure=		2464	psi
*Max Pressure Allowed @ Previous Casing Shoe=		20	psi *Assumes 1psi/ft frac gradient

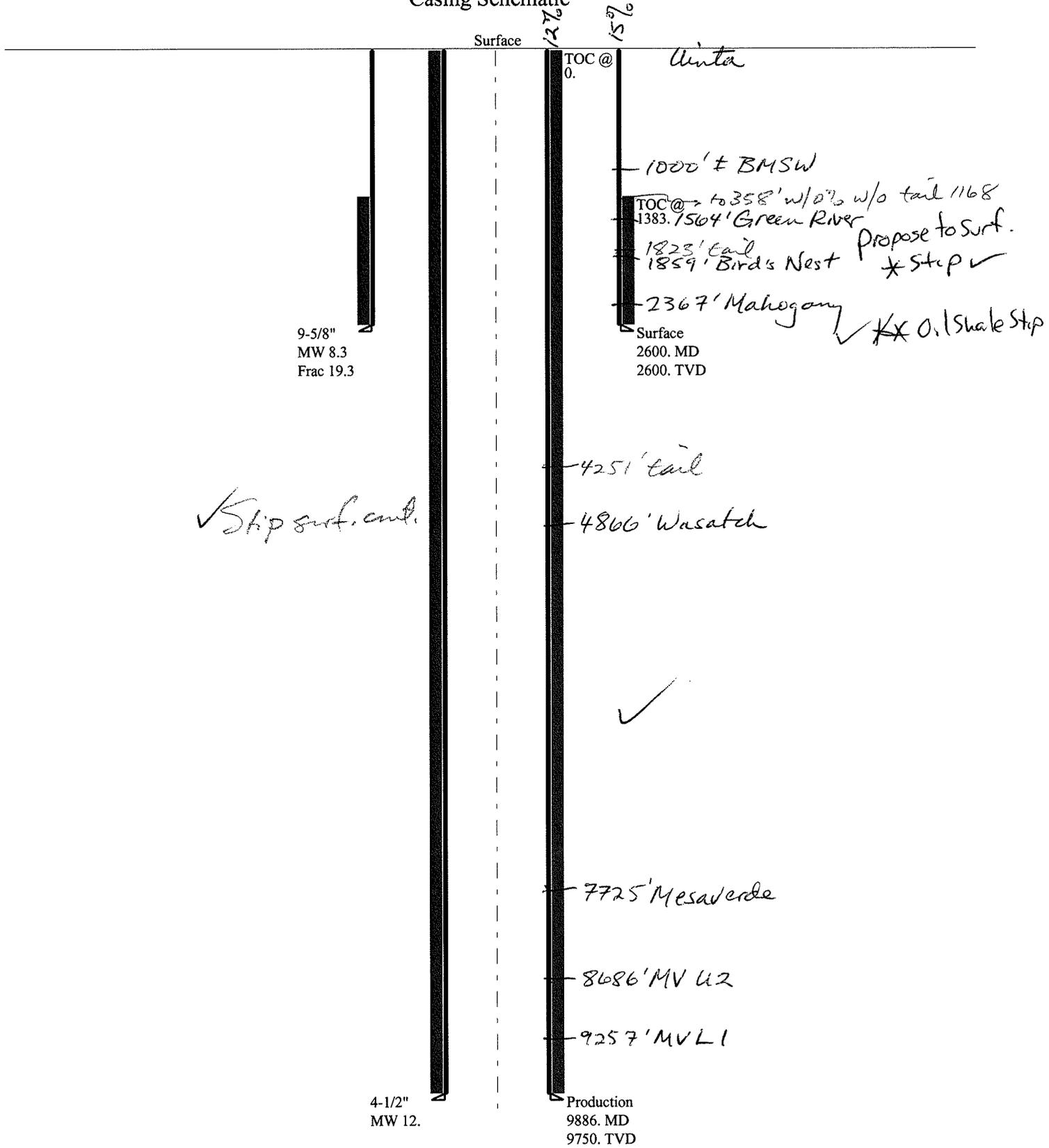
Calculations	Prod String	4.500	"
Max BPH (psi)	$.052 * \text{Setting Depth} * \text{MW} =$	6084	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	$\text{Max BHP} - (0.12 * \text{Setting Depth}) =$	4914	YES
MASP (Gas/Mud) (psi)	$\text{Max BHP} - (0.22 * \text{Setting Depth}) =$	3939	YES OK
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	$\text{Max BHP} - .22 * (\text{Setting Depth} - \text{Previous Shoe Depth}) =$	4511	NO Reasonable
Required Casing/BOPE Test Pressure=		5000	psi
*Max Pressure Allowed @ Previous Casing Shoe=		2600	psi *Assumes 1psi/ft frac gradient

Calculations	String		"
Max BPH (psi)	$.052 * \text{Setting Depth} * \text{MW} =$		
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	$\text{Max BHP} - (0.12 * \text{Setting Depth}) =$		NO
MASP (Gas/Mud) (psi)	$\text{Max BHP} - (0.22 * \text{Setting Depth}) =$		NO
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	$\text{Max BHP} - .22 * (\text{Setting Depth} - \text{Previous Shoe Depth}) =$		NO
Required Casing/BOPE Test Pressure=			psi
*Max Pressure Allowed @ Previous Casing Shoe=			psi *Assumes 1psi/ft frac gradient

Calculations	String		"
Max BPH (psi)	$.052 * \text{Setting Depth} * \text{MW} =$		
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	$\text{Max BHP} - (0.12 * \text{Setting Depth}) =$		NO
MASP (Gas/Mud) (psi)	$\text{Max BHP} - (0.22 * \text{Setting Depth}) =$		NO
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	$\text{Max BHP} - .22 * (\text{Setting Depth} - \text{Previous Shoe Depth}) =$		NO
Required Casing/BOPE Test Pressure=			psi
*Max Pressure Allowed @ Previous Casing Shoe=			psi *Assumes 1psi/ft frac gradient

43047503620000 NBU 921-26D1CS

Casing Schematic



Well name:	43047503620000 NBU 921-26D1CS		
Operator:	KERR-MCGEE OIL & GAS ONSHORE, L.P.		
String type:	Surface	Project ID:	43-047-50362
Location:	UINTAH	COUNTY	

Design parameters:

Collapse

Mud weight: 8.330 ppg
Design is based on evacuated pipe.

Minimum design factors:

Collapse:

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
Surface temperature: 74 °F
Bottom hole temperature: 110 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 100 ft

Cement top: 1,383 ft

Burst

Max anticipated surface pressure: 2,288 psi
Internal gradient: 0.120 psi/ft
Calculated BHP 2,600 psi

No backup mud specified.

Tension:

8 Round STC: 1.80 (J)
8 Round LTC: 1.70 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.50 (B)

Tension is based on air weight.
Neutral point: 2,279 ft

Directional Info - Build & Drop

Kick-off point 2550 ft
Departure at shoe: 1 ft
Maximum dogleg: 3 °/100ft
Inclination at shoe: 1.5 °

Re subsequent strings:

Next setting depth: 9,750 ft
Next mud weight: 12.000 ppg
Next setting BHP: 6,078 psi
Fracture mud wt: 19.250 ppg
Fracture depth: 2,600 ft
Injection pressure: 2,600 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	2600	9.625	36.00	J-55	LT&C	2600	2600	8.796	21260
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	1125	1948	1.731	2600	3520	1.35	93.6	453	4.84 J

Prepared by: Helen Sadik-Macdonald
Div of Oil, Gas & Mining

Phone: 801 538-5357
FAX: 801-359-3940

Date: June 11, 2009
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 2600 ft, a mud weight of 8.33 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

Well name:	43047503620000 NBU 921-26D1CS		
Operator:	KERR-MCGEE OIL & GAS ONSHORE, L.P.		
String type:	Production	Project ID:	43-047-50362
Location:	UINTAH	COUNTY	

Design parameters:

Collapse

Mud weight: 12.000 ppg
 Internal fluid density: 1.000 ppg

Burst

Max anticipated surface pressure: 3,933 psi
 Internal gradient: 0.220 psi/ft
 Calculated BHP: 6,078 psi

No backup mud specified.

Minimum design factors:

Collapse:

Design factor 1.125

Burst:

Design factor 1.00

Tension:

8 Round STC: 1.80 (J)
 8 Round LTC: 1.80 (J)
 Buttress: 1.60 (J)
 Premium: 1.50 (J)
 Body yield: 1.60 (B)

Tension is based on air weight.
 Neutral point: 8,137 ft

Environment:

H2S considered? No
 Surface temperature: 74 °F
 Bottom hole temperature: 210 °F
 Temperature gradient: 1.40 °F/100ft
 Minimum section length: 100 ft

Cement top: Surface

Directional Info - Build & Drop

Kick-off point: 2550 ft
 Departure at shoe: 711 ft
 Maximum dogleg: 3 °/100ft
 Inclination at shoe: 0 °

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	9886	4.5	11.60	I-80	LT&C	9750	9886	3.875	130495
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	5571	6360	1.142	6078	7780	1.28	113.1	212	1.87 J

Prepared by: Helen Sadik-Macdonald
 Div of Oil, Gas & Mining

Phone: 801 538-5357
 FAX: 801-359-3940

Date: June 11, 2009
 Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 9750 ft, a mud weight of 12 ppg. An internal gradient of .052 psi/ft was used for collapse from TD to Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

ON-SITE PREDRILL EVALUATION

Utah Division of Oil, Gas and Mining

Operator KERR-MCGEE OIL & GAS ONSHORE, L.P.
Well Name NBU 921-26D1CS
API Number 43047503620000 **APD No** 1437 **Field/Unit** NATURAL BUTTES
Location: 1/4,1/4 NENW **Sec** 26 **Tw** 9.0S **Rng** 21.0E 836 FNL 1648 FWL
GPS Coord (UTM) 626169 4429944 **Surface Owner**

Participants

Floyd Bartlett (DOGM), Ed Bonner (SITLA), Ramie Hoopes, Clay Einerson, Griz Oleen, Tony Kzneck, Charles Chase (Kerr McGee), Ben Williams (UDWR) and Kolby Kay (Timberline Engineering and Land Surveying)

Regional/Local Setting & Topography

.This location is in the Natural Buttes Unit approximately 15.0 miles southeast of Ouray, Ut.. It is accessed by the Seep Ridge Road to the Uintah County Middle Road then by existing or planned oil field development roads to within 180 feet of the site, which will require new construction.

The general area is within the head of a long unnamed drainage about 3 miles east of Cottonwood Wash. Both washes enter the White River in the same general area, approximately six miles below the site. The area is characterized by rolling hills, which are frequently divided by somewhat gentle draws that drain northerly. This unnamed wash is an ephemeral drainage. No springs, seeps or streams exist in the area. An occasional pond constructed to supply water for cattle and antelope exists. The washes are sometimes rimmed with steep side hills, which have exposed sand stone bedrock cliffs along the rims.

The proposed pad encompasses a pad of the NBU 84N4 gas well which has been plugged and the site abandoned. The original pad will be significantly enlarged on all sides. Four gas wells are proposed to be directionally drilled from this pad. The location is on a flat-topped bench which drops off on the east and northwest beyond the proposed pad into broad valleys. The location itself and a bench beyond the location to the north have exposed light brown sandstone bedrock. No drainages will be intersected and no diversions are needed. The selected site has no apparent concerns for constructing a pad, drilling and operating the planned wells and is the best location in the immediate area.

Surface Use Plan

Current Surface Use

- Grazing
- Recreational
- Wildlfe Habitat
- Existing Well Pad

New Road Miles	Well Pad	Src Const Material	Surface Formation
0.05	Width 345 Length 500	Onsite	UNTA

Ancillary Facilities N

Waste Management Plan Adequate?

Environmental Parameters

Affected Floodplains and/or Wetlands N

Flora / Fauna

Poorly vegetated with cheatgrass, black sagebrush, broom snakeweed, shadscale, Indian Ricegrass, greasewood, rabbitbrush, horsebrush, pepper weed, halogeton and annuals.

Sheep, deer, antelope, coyote, and other small mammals and birds.

Soil Type and Characteristics

Shallow sandy loam with significant with exposed sandstone bedrock.

Erosion Issues N

Sedimentation Issues N

Site Stability Issues N

Drainage Diverson Required? N

Berm Required? N

Erosion Sedimentation Control Required? N

Paleo Survey Run? Y **Paleo Potential Observed?** N **Cultural Survey Run?** Y **Cultural Resources?** N

Reserve Pit

Site-Specific Factors

Site Ranking

Distance to Groundwater (feet)	100 to 200	5	
Distance to Surface Water (feet)	>1000	0	
Dist. Nearest Municipal Well (ft)	>5280	0	
Distance to Other Wells (feet)		20	
Native Soil Type	Mod permeability	10	
Fluid Type	Fresh Water	5	
Drill Cuttings	Normal Rock	0	
Annual Precipitation (inches)		0	
Affected Populations			
Presence Nearby Utility Conduits	Not Present	0	
	Final Score	40	1 Sensitivity Level

Characteristics / Requirements

The reserve pit is planned in an area of cut in the southwest corner of the location. Dimensions are 100' x 220' x 12' deep with 2' of freeboard. A liner with a minimum thickness of 16 mils. and a felt sub-liner are required. Kerr McGee proposes to use a 30 mil liner with 2 layers of felt.

Closed Loop Mud Required? N **Liner Required?** Y **Liner Thickness** 30 **Pit Underlayment Required?** Y

Other Observations / Comments

Floyd Bartlett
Evaluator

4/28/2009
Date / Time

Application for Permit to Drill Statement of Basis

6/25/2009

Utah Division of Oil, Gas and Mining

Page 1

APD No	API WellNo	Status	Well Type	Surf Owner	CBM
1437	43047503620000	LOCKED	GW	S	No
Operator	KERR-MCGEE OIL & GAS ONSHORE, L.P.		Surface Owner-APD		
Well Name	NBU 921-26D1CS		Unit	NATURAL BUTTES	
Field	NATURAL BUTTES		Type of Work	DRILL	
Location	NENW 26 9S 21E S 836 FNL 1648 FWL		GPS Coord (UTM)	626163E	4429923N

Geologic Statement of Basis

Kerr McGee proposes to set 2,550' of surface casing at this location. The depth to the base of the moderately saline water at this location is estimated to be at a depth of 1,000'. A search of Division of Water Rights records shows one water wells within a 10,000 foot radius of the center of Section 26. The well is listed as 2,640 feet deep and used for oilfield drilling water. The surface formation at this site is the Uinta Formation. The Uinta Formation is made up of interbedded shales and sandstones. The sandstones are mostly lenticular and discontinuous and should not be a significant source of useable ground water. The proposed casing and cement should adequately protect. Any usable ground water.

Brad Hill
APD Evaluator

4/30/2009
Date / Time

Surface Statement of Basis

This location is in the Natural Buttes Unit approximately 15.0 miles southeast of Ouray, Ut.. It is accessed by the Seep Ridge Road to the Uintah County Middle Road then by existing or planned oil field development roads to within 180 feet of the site, which will require new construction.

The general area is within the head of a long unnamed drainage about 3 miles east of Cottonwood Wash. Both washes enter the White River in the same general area, approximately six miles below the site. The area is characterized by rolling hills, which are frequently divided by somewhat gentle draws that drain northerly. This unnamed wash is an ephemeral drainage. No springs, seeps or streams exist in the area. An occasional pond constructed to supply water for cattle and antelope exists. The washes are sometimes rimmed with steep side hills, which have exposed sand stone bedrock cliffs along the rims.

The proposed pad encompasses a pad of the NBU 84N4 gas well which has been plugged and the site abandoned. The original pad will be significantly enlarged on all sides. Four gas wells are proposed to be directionally drilled from this pad. The location is on a flat-topped bench which drops off on the east and northwest beyond the proposed pad into broad valleys. The location itself and a bench beyond the location to the north have exposed light brown sandstone bedrock. No drainages will be intersected and no diversions are needed. The selected site has no apparent concerns for constructing a pad, drilling and operating the planned wells and is the best location in the immediate area.

Both the surface and minerals are owned by SITLA. Ed Bonner of SITLA reviewed the site and had no concerns regarding the proposal.

Ben Williams of the Utah Division of Wildlife Resources also attended the pre-site. Mr. Williams stated no wildlife values would be significantly affected by drilling and operating the wells at this location. He provided Ed Bonner of SITLA and Ramie Hoopes of Kerr McGee a written wildlife evaluation and a copy of a recommended seed mix to be used for re-vegetating the disturbed area.

Application for Permit to Drill Statement of Basis

6/25/2009

Utah Division of Oil, Gas and Mining

Page 2

Floyd Bartlett
Onsite Evaluator

4/28/2009
Date / Time

Conditions of Approval / Application for Permit to Drill

Category	Condition
Pits	A synthetic liner with a minimum thickness of 30 mils with a felt subliner shall be properly installed and maintained in the reserve pit.
Surface	The reserve pit shall be fenced upon completion of drilling operations.

WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 4/22/2009

API NO. ASSIGNED: 43047503620000

WELL NAME: NBU 921-26D1CS

OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P. (N2995)

PHONE NUMBER: 720 929-6007

CONTACT: Kathy Schneebeck-Dulnoan

PROPOSED LOCATION: NENW 26 090S 210E

Permit Tech Review:

SURFACE: 0836 FNL 1648 FWL

Engineering Review:

BOTTOM: 0600 FNL 0980 FWL

Geology Review:

COUNTY: UINTAH

LATITUDE: 40.01198

LONGITUDE: -109.52180

UTM SURF EASTINGS: 626163.00

NORTHINGS: 4429923.00

FIELD NAME: NATURAL BUTTES

LEASE TYPE: 3 - State

LEASE NUMBER: UO 01194

PROPOSED PRODUCING FORMATION(S): WASATCH-MESA VERDE

SURFACE OWNER: 3 - State

COALBED METHANE: NO

RECEIVED AND/OR REVIEWED:

- PLAT
- Bond: STATE/FEE - 22013542
- Potash
- Oil Shale 190-5
- Oil Shale 190-3
- Oil Shale 190-13
- Water Permit: Permit #43-8496
- RDCC Review:
- Fee Surface Agreement
- Intent to Commingle

Commingle Approved

LOCATION AND SITING:

- R649-2-3.
Unit: NATURAL BUTTES
- R649-3-2. General
- R649-3-3. Exception
- Drilling Unit
Board Cause No: Cause 173-14
Effective Date: 12/2/1999
Siting: 460' fr u bdry & uncomm. tract
- R649-3-11. Directional Drill

Comments: Presite Completed

Stipulations:
3 - Commingle - ddoucet
5 - Statement of Basis - bhill
15 - Directional - dmason
17 - Oil Shale 190-5(b) - dmason
25 - Surface Casing - hmacdonald



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

Permit To Drill

Well Name: NBU 921-26D1CS
API Well Number: 43047503620000
Lease Number: UO 01194
Surface Owner: STATE
Approval Date: 6/30/2009

Issued to:

KERR-MCGEE OIL & GAS ONSHORE, L.P., P.O. Box 173779, Denver, CO 80217

Authority:

Pursuant to Utah Code Ann. §40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 173-14 . The expected producing formation or pool is the WASATCH-MESA VERDE Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:

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

Commingle:

In accordance with Board Cause No. 173-14 commingling of the production from the Wasatch formation and the Mesaverde formation in this well is allowed.

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.

Conditions of Approval:

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.

In accordance with the Order in Cause No. 190-5(b) dated October 28, 1982, the operator shall comply with the requirements of Rules R649-3-31 and R649-3-27 pertaining to Designated Oil Shale Areas. Additionally, the operators shall ensure that the surface and or production casing is properly cemented over the entire oil shale section as defined by Rule R649-3-31. The Operator shall report the actual depth the oil shale is encountered to the division.

Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis (copy attached).

Surface casing shall be cemented to the surface.

Notification Requirements:

The operator is required to notify the Division of Oil, Gas and Mining of the following action during drilling of this well:

- 24 hours prior to cementing or testing casing - contact Dan Jarvis
- 24 hours prior to testing blowout prevention equipment - contact Dan Jarvis
- 24 hours prior to spudding the well - contact Carol Daniels
- Within 24 hours of any emergency changes made to the approved drilling program - contact

Dustin Doucet

- Prior to commencing operations to plug and abandon the well - contact Dan Jarvis

The operator is required to get approval from the Division of Oil, Gas and Mining before performing any of the following actions during the drilling of this well:

- Plugging and abandonment or significant plug back of this well - contact Dustin Doucet
- Any changes to the approved drilling plan - contact Dustin Doucet

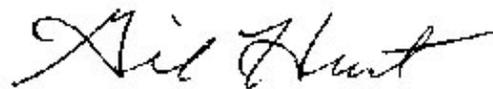
The following are Division of Oil, Gas and Mining contacts and their telephone numbers (please leave a voice mail message if the person is not available to take the call):

- Dan Jarvis at: (801) 538-5338 office
(801) 942-0871 home
- Carol Daniels at: (801) 538-5284 office
- Dustin Doucet at: (801) 538-5281 office
(801) 733-0983 home

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.

Approved By:



Gil Hunt
Associate Director, Oil & Gas

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

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

Well Name: NBU 921-26D1CS

Api No: 43-047-50362 Lease Type: STATE

Section 26 Township 09S Range 21E County UINTAH

Drilling Contractor PETE MARTIN DRLG RIG # BUCKET

SPUDDED:

Date 08/22/2009

Time 9:00 AM

How DRY

Drilling will Commence: _____

Reported by JAMES GOBER

Telephone # (435) 828-7024

Date 08/24/2009 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
4304750362	NBU 921-26D1CS		NENW	26	9S	21E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
<u>B</u>	99999	<u>2900</u>	8/22/2009			<u>8/25/09</u>	
Comments: MIRU PETE MARTIN BUCKET RIG. <u>WSMVD</u> SPUD WELL LOCATION ON 08/22/2009 AT 0900 HRS <u>BHL = NWNW</u>							

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304750363	NBU 921-26D1BS		NENW	26	9S	21E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
<u>B</u>	99999	<u>2900</u>	8/22/2009			<u>8/25/09</u>	
Comments: MIRU PETE MARTIN BUCKET RIG. <u>WSMVD</u> SPUD WELL LOCATION ON 08/22/2009 AT 1100 HRS. <u>BHL = NWNW</u>							

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304750364	NBU 921-26B3S		NENW	26	9S	21E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
<u>B</u>	99999	<u>2900</u>	8/22/2009			<u>8/25/09</u>	
Comments: MIRU PETE MARTIN BUCKET RIG. <u>WSMVD</u> SPUD WELL LOCATION ON 08/22/2009 AT 1300 HRS. <u>BHL = NUNE</u>							

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 WOPSOCK

Name (Please Print)

Signature

REGULATORY ANALYST

Title

8/24/2009

Date

RECEIVED

AUG 24 2009

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: UO 01194
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: 7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: NBU 921-26D1CS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047503620000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6007 Ext
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0836 FNL 1648 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENW Section: 26 Township: 09.0S Range: 21.0E Meridian: S	9. FIELD and POOL or WILDCAT: NATURAL BUTTES COUNTY: UINTAH STATE: 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 type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input checked="" type="checkbox"/> SPUD REPORT Date of Spud: 8/22/2009	<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 type="checkbox"/> OTHER	OTHER:

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

MIRU PETE MARTIN BUCKET RIG. DRILLED 20" CONDUCTOR HOLE TO 40'.
 RAN 14" 36.7# SCHEDULE 10 PIPE. CMT W/28 SX READY MIX. SPUD WELL LOCATION ON 08/22/2009 AT 0900 HRS.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
 August 24, 2009

NAME (PLEASE PRINT) Sheila Wopsock	PHONE NUMBER 435 781-7024	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 8/24/2009	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS 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.	5. LEASE DESIGNATION AND SERIAL NUMBER: UO 01194
	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: _____
	7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: NBU 921-26D1CS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047503620000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6007 Ext
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0836 FNL 1648 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENW Section: 26 Township: 09.0S Range: 21.0E Meridian: S	9. FIELD and POOL or WILDCAT: NATURAL BUTTES
	COUNTY: UINTAH
	STATE: 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 type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 8/26/2009	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER:

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

MIRU PROPETRO AIR RIG ON 08/24/2009. DRILLED 12-1/4" SURFACE HOLE TO 2460'. RAN 9-5/8" 36# J-55 SURFACE CSG. START FLUSH 180 BBLS OF H2O, PUMP 20 BBLS GEL WATER. CMT LEAD W/220 SX CLASS G PREM LITE 11.0 PPG, 3.82 YIELD, CATCH CIRC, 62 BBLS INTO LEAD CEMENT. TAIL CMT W/200 SX CLASS G PREM LITE @ 15.8 PPG, 1.15 YIELD. DROP PLUG FLY, DISPLACE W/184.5 BBLS OF H2O. LIFT PRESSURE 500, BUMP PLUG 1000 PSI, CHECK FLOAT, FLOAT HELD, 10 BBLS OF GEL WATER TO PIT. PUMP SAME TAIL CMT (100 SX) 20 BBLS DOWN 1" DISPLACE OUT GEL WATER W/15.8# 4% CALC2 TAIL CMT. CEMENT FELL. WAIT 2 HOURS. TOP OUT W/125 SX (25 BBLS) 15.8 PPG, 1.15 YIELD PREM CEMENT. CMT TO SURFACE AND STAYED. WASH UP TRUCK, RIG DOWN CEMENTERS. WORT.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
 August 27, 2009

NAME (PLEASE PRINT) Andy Lytle	PHONE NUMBER 720 929-6100	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 8/27/2009	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: UO 01194
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: 7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: NBU 921-26D1CS	
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047503620000	
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6007 Ext	9. FIELD and POOL or WILDCAT: NATURAL BUTTES
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0836 FNL 1648 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENW Section: 26 Township: 09.0S Range: 21.0E Meridian: S	COUNTY: UINTAH STATE: UTAH	

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 9/14/2009	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> 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: Frac Factory Pit Refurb

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

Kerr-McGee Oil & Gas Onshore, LP is requesting to refurb the existing pit on this pad for completion operations. The refurb pit will be relined per the requirements in the COA of the APD. Upon completion of the wells on this pad KMG is also requesting to utilize this pit as a staging pit to be utilized for other completion operations in the area. There will be 2 - 400 bbl upright skim tanks placed on location. The trucks will unload water into these tank before the water is placed into the refurbished pit. The purpose of the skim tanks is to collect any hydro-carbons that may have been associated with the other completion operations before releasing into the pit. We plan to keep this pit open for 1 year. During this time the attached well location completion fluids will be recycled in this pit and utilized for other frac jobs in the area.

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

Date: _____

By: _____

NAME (PLEASE PRINT) Raleen White	PHONE NUMBER 720 929-6666	TITLE Sr. Regulatory Analyst
SIGNATURE N/A	DATE 9/14/2009	



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 43047503620000

A synthetic liner with a minimum thickness of 30 mils shall be properly installed and maintained in the pit.

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

Date: September 22, 2009

By: 

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: UO 01194
---	---

SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: 7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
--	--

1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: NBU 921-26D1CS
------------------------------------	---

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047503620000
---	---

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6007 Ext	9. FIELD and POOL or WILDCAT: NATURAL BUTTES
---	--	--

4. LOCATION OF WELL FOOTAGES AT SURFACE: 0836 FNL 1648 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENW Section: 26 Township: 09.0S Range: 21.0E Meridian: S	COUNTY: UINTAH STATE: 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 type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 12/1/2009	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER:

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

FINISHED DRILLING FROM 2460' TO 10,070' ON 11/29/2009. RAN 4-1/2" 11.6# I-80 PRODUCTION CSG. LEAD CMT W/615 SX CLASS G PREM LITE @ 12.2 PPG, 2.13 YIELD. TAILED CMT W/1400 SX CLASS G @ 14.3 PPG, 1.25 YIELD. DISPLACE W/155 BBLS CLAYFIX. FINAL CIRC PSI 3000. BUMP PLUG 500 OVER, FLOATS HELD. R/D, WASH UP, LAND CSG 85K. REMOVE L 25' ND BOP, CLEAN PITS. RELEASE ENSIGN 139 RIG ON 12/01/2009 AT 12:00 HRS.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
December 02, 2009

NAME (PLEASE PRINT) Andy Lytle	PHONE NUMBER 720 929-6100	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 12/2/2009	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: UO 01194
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: 7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: NBU 921-26D1CS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047503620000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6007 Ext
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0836 FNL 1648 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENW Section: 26 Township: 09.0S Range: 21.0E Meridian: S	9. FIELD and POOL or WILDCAT: NATURAL BUTTES COUNTY: UINTAH STATE: 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 type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 2/17/2010	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input checked="" type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: _____

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

THE SUBJECT WELL WAS PLACED ON PRODUCTION ON 2/17/2010 AT 10:00 A.M.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
 February 17, 2010

NAME (PLEASE PRINT) Andy Lytle	PHONE NUMBER 720 929-6100	TITLE Regulatory Analyst
SIGNATURE N/A		DATE 2/17/2010

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

AMENDED REPORT FORM 8
(highlight changes)

WELL COMPLETION OR RECOMPLETION REPORT AND LOG										
1a. TYPE OF WELL: OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> DRY <input type="checkbox"/> OTHER _____					5. LEASE DESIGNATION AND SERIAL NUMBER: UO-01194					
b. TYPE OF WORK: NEW WELL <input checked="" type="checkbox"/> HORIZ. LATS. <input type="checkbox"/> DEEP-EN <input type="checkbox"/> RE-ENTRY <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> OTHER _____					6. IF INDIAN, ALLOTTEE OR TRIBE NAME					
2. NAME OF OPERATOR: KERR McGEE OIL & GAS ONSHORE LP					7. UNIT or CA AGREEMENT NAME UTU63047A					
3. ADDRESS OF OPERATOR: P.O. BOX 173779 CITY DENVER STATE CO ZIP 80217					8. WELL NAME and NUMBER: NBU 921-26D1CS					
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: NENW 836 FNL & 1648 FWL AT TOP PRODUCING INTERVAL REPORTED BELOW: NWNW 638 FNL & 1100 FWL SEC.26-9S-21E AT TOTAL DEPTH: NWNW 572 FNL & 960 FWL SEC.26-9S-21E					9. API NUMBER: 4304750362					
14. DATE SPURRED: 8/22/2009					15. DATE T.D. REACHED: 11/29/2009		16. DATE COMPLETED: 2/17/2010		17. ELEVATIONS (DF, RKB, RT, GL): 4970' GL	
18. TOTAL DEPTH: MD 10,070 TVD 9,990			19. PLUG BACK T.D.: MD 10,014 TVD 9,934		20. IF MULTIPLE COMPLETIONS, HOW MANY? *		21. DEPTH BRIDGE MD PLUG SET: TVD			
22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each) CBL-CHI TRIPLE COMBO-BHV-SDL/DSN/ACTR					23. WAS WELL CORED? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> (Submit analysis) WAS DST RUN? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> (Submit report) DIRECTIONAL SURVEY? NO <input type="checkbox"/> YES <input checked="" type="checkbox"/> (Submit copy)					
24. CASING AND LINER RECORD (Report all strings set in well)										
HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED	
20"	14" STL	36.7#		40		28				
12 1/4"	9 5/8 J-55	36#		2,440		720				
7 7/8"	4 1/2 I-80	11.6#		10,058		2015				
25. TUBING RECORD										
SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)		
2 3/8"	9.459									
26. PRODUCING INTERVALS					27. PERFORATION RECORD					
FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)	INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS		
(A) WASATCH	7,614	7,692			7,614 7,692	0.36	24	Open <input checked="" type="checkbox"/>	Squeezed <input type="checkbox"/>	
(B) MESAVERDE	7,688	9,949			7,688 9,949	0.36	313	Open <input checked="" type="checkbox"/>	Squeezed <input type="checkbox"/>	
(C)								Open <input type="checkbox"/>	Squeezed <input type="checkbox"/>	
(D)								Open <input type="checkbox"/>	Squeezed <input type="checkbox"/>	
28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.										
DEPTH INTERVAL		AMOUNT AND TYPE OF MATERIAL								
7614-7824		PMP 2,987 BBLs SLICK H2O & 153,520 LBS 30/50 SD.								
8051-9949		PMP 9,682 BBLs SLICK H2O & 369,022 LBS 30/50 SD.								
29. ENCLOSED ATTACHMENTS:								30. WELL STATUS:		
<input type="checkbox"/> ELECTRICAL/MECHANICAL LOGS				<input type="checkbox"/> GEOLOGIC REPORT		<input type="checkbox"/> DST REPORT		<input checked="" type="checkbox"/> DIRECTIONAL SURVEY		
<input type="checkbox"/> SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION				<input type="checkbox"/> CORE ANALYSIS		<input type="checkbox"/> OTHER: _____		PROD		

RECEIVED
MAR 23 2010

31. INITIAL PRODUCTION

INTERVAL A (As shown in item #26)

DATE FIRST PRODUCED: 2/17/2010		TEST DATE: 3/12/2010		HOURS TESTED: 24		TEST PRODUCTION RATES: →		OIL - BBL: 9	GAS - MCF: 2,407	WATER - BBL: 65	PROD. METHOD: FLOWING
CHOKE SIZE: 16/64	TBG. PRESS. 1,706	CSG. PRESS. 2,262	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL - BBL: 9	GAS - MCF: 2,407	WATER - BBL: 65	INTERVAL STATUS: PROD	

INTERVAL B (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →		OIL - BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS:	

INTERVAL C (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →		OIL - BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS:	

INTERVAL D (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →		OIL - BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS:	

32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)

SOLD

33. 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.

34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
GREEN RIVER	1,540				
MAHOGANY	2,222				
WASATCH	4,944	7,797			
MESAVERDE	7,797	10,070			

35. ADDITIONAL REMARKS (Include plugging procedure)

ATTACHED TO THIS COMPLETION REPORT IS THE CHRONOLOGICAL WELL HISTORY AND FINAL SURVEY.

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

NAME (PLEASE PRINT) ANDY LYTLE TITLE REGULATORY ANALYST
 SIGNATURE  DATE 3/18/2010

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

** ITEM 24: Cement Top - Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining
 1594 West North Temple, Suite 1210
 Box 145801
 Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940

Kerr McGee Oil and Gas Onshore LP

Uintah County, UT NAD27

NBU 921-26C Pad

NBU 921-26D1CS

OH

Design: OH

Standard Survey Report

15 December, 2009

Scientific Drilling International

Survey Report

Company: Kerr McGee Oil and Gas Onshore LP
Project: Uintah County, UT NAD27
Site: NBU 921-26C Pad
Well: NBU 921-26D1CS
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well NBU 921-26D1CS
TVD Reference: GL 4969' & RKB 14' @ 4983.00ft (Ensign 139)
MD Reference: GL 4969' & RKB 14' @ 4983.00ft (Ensign 139)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.16 Multi-User Db

Project	Uintah County, UT NAD27		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Utah Central 4302		

Site	NBU 921-26C Pad, Sec 26 T9S R21E				
Site Position:		Northing:	617,588.24 ft	Latitude:	40° 0' 43.640 N
From:	Lat/Long	Easting:	2,554,061.31 ft	Longitude:	109° 31' 18.160 W
Position Uncertainty:	0.00 ft	Slot Radius:	in	Grid Convergence:	1.27 °

Well	NBU 921-26D1CS, 836' FNL 1648' FWL					
Well Position	+N/-S	0.00 ft	Northing:	617,539.88 ft	Latitude:	40° 0' 43.170 N
	+E/-W	0.00 ft	Easting:	2,554,025.81 ft	Longitude:	109° 31' 18.630 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	4,969.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2005-10	11/22/2009	11.27	65.92	52,517

Design	OH				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.00	0.00	0.00	289.97	

Survey Program	Date	12/15/2009			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
170.00	2,470.00	Survey #1 (OH)	MWD	MWD - Standard	
2,523.00	10,070.00	Survey #2 - Production (OH)	MWD SDI	MWD - Standard ver 1.0.1	

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	
170.00	0.26	325.88	170.00	0.32	-0.22	0.31	0.15	0.15	0.00	
First Anadarko MWD Survey										
260.00	0.13	169.46	260.00	0.39	-0.31	0.43	0.43	-0.14	-173.80	
350.00	0.35	332.71	350.00	0.53	-0.42	0.58	0.53	0.24	181.39	
440.00	1.06	286.46	439.99	1.01	-1.34	1.61	0.95	0.79	-51.39	
530.00	1.69	276.08	529.97	1.39	-3.46	3.73	0.75	0.70	-11.53	
620.00	2.81	280.71	619.89	1.94	-6.95	7.19	1.26	1.24	5.14	
710.00	3.19	284.33	709.77	2.97	-11.54	11.86	0.47	0.42	4.02	
800.00	2.88	275.83	799.65	3.82	-16.22	16.55	0.61	-0.34	-9.44	
890.00	2.56	263.71	889.54	3.83	-20.47	20.54	0.73	-0.36	-13.47	
980.00	2.31	268.96	979.46	3.57	-24.28	24.04	0.37	-0.28	5.83	

Scientific Drilling International

Survey Report

Company: Kerr McGee Oil and Gas Onshore LP
Project: Uintah County, UT NAD27
Site: NBU 921-26C Pad
Well: NBU 921-26D1CS
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well NBU 921-26D1CS
TVD Reference: GL 4969' & RKB 14' @ 4983.00ft (Ensign 139)
MD Reference: GL 4969' & RKB 14' @ 4983.00ft (Ensign 139)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.16 Multi-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)
1,070.00	1.88	259.83	1,069.40	3.28	-27.54	27.01	0.60	-0.48	-10.14
1,160.00	1.75	309.08	1,159.36	3.89	-30.06	29.58	1.69	-0.14	54.72
1,250.00	1.75	299.83	1,249.32	5.44	-32.32	32.24	0.31	0.00	-10.28
1,340.00	1.44	293.71	1,339.29	6.57	-34.55	34.72	0.39	-0.34	-6.80
1,430.00	1.38	296.71	1,429.26	7.52	-36.55	36.92	0.11	-0.07	3.33
1,520.00	1.31	318.71	1,519.24	8.78	-38.20	38.90	0.58	-0.08	24.44
1,610.00	1.06	299.21	1,609.22	9.96	-39.61	40.63	0.52	-0.28	-21.67
1,700.00	1.63	326.83	1,699.19	11.43	-41.03	42.47	0.94	0.63	30.69
1,790.00	1.88	299.46	1,789.15	13.23	-43.02	44.95	0.96	0.28	-30.41
1,880.00	1.19	298.33	1,879.12	14.40	-45.13	47.33	0.77	-0.77	-1.26
1,970.00	1.44	297.96	1,969.09	15.37	-46.95	49.38	0.28	0.28	-0.41
2,060.00	1.56	285.08	2,059.06	16.22	-49.13	51.72	0.40	0.13	-14.31
2,150.00	1.13	271.96	2,149.04	16.57	-51.20	53.78	0.58	-0.48	-14.58
2,240.00	1.00	266.58	2,239.02	16.56	-52.87	55.35	0.18	-0.14	-5.98
2,330.00	0.88	263.58	2,329.01	16.43	-54.34	56.69	0.14	-0.13	-3.33
2,410.00	1.25	276.08	2,409.00	16.46	-55.82	58.08	0.54	0.46	15.62
2,470.00	1.53	285.46	2,468.98	16.74	-57.24	59.52	0.60	0.47	15.63
Last Anadarko MWD Survey									
2,523.00	1.61	244.69	2,521.96	16.61	-58.60	60.75	2.07	0.15	-76.92
First SDI Production MWD Survey									
2,613.00	2.31	258.82	2,611.91	15.72	-61.52	63.19	0.94	0.78	15.70
2,704.00	4.33	286.59	2,702.76	16.34	-66.61	68.19	2.78	2.22	30.52
2,794.00	6.11	291.58	2,792.38	19.07	-74.32	76.37	2.04	1.98	5.54
2,885.00	6.22	289.56	2,882.85	22.51	-83.47	86.14	0.27	0.12	-2.22
2,975.00	7.41	293.52	2,972.22	26.45	-93.39	96.81	1.42	1.32	4.40
3,066.00	7.90	292.44	3,062.41	31.18	-104.55	108.91	0.56	0.54	-1.19
3,157.00	9.49	286.15	3,152.36	35.66	-117.54	122.65	2.03	1.75	-6.91
3,247.00	12.38	289.46	3,240.72	40.94	-133.76	139.70	3.28	3.21	3.68
3,338.00	14.77	289.13	3,329.17	47.99	-153.92	161.06	2.63	2.63	-0.36
3,428.00	15.56	288.37	3,416.03	55.55	-176.22	184.60	0.91	0.88	-0.84
3,519.00	15.15	289.63	3,503.79	63.39	-199.00	208.69	0.58	-0.45	1.38
3,609.00	15.31	290.87	3,590.62	71.58	-221.18	232.33	0.40	0.18	1.38
3,700.00	16.01	290.80	3,678.25	80.31	-244.14	256.89	0.77	0.77	-0.08
3,791.00	15.05	289.41	3,765.92	88.70	-267.01	281.25	1.13	-1.05	-1.53
3,881.00	15.56	289.13	3,852.73	96.54	-289.44	305.00	0.57	0.57	-0.31
3,972.00	15.89	288.33	3,940.33	104.45	-312.80	329.66	0.43	0.36	-0.88
4,062.00	13.85	291.86	4,027.31	112.34	-334.49	352.75	2.48	-2.27	3.92
4,153.00	13.47	290.95	4,115.73	120.19	-354.50	374.23	0.48	-0.42	-1.00
4,243.00	14.20	294.86	4,203.12	128.57	-374.30	395.71	1.32	0.81	4.34
4,334.00	15.84	293.88	4,291.01	138.29	-395.79	419.22	1.82	1.80	-1.08
4,425.00	14.11	290.99	4,378.92	147.30	-417.50	442.71	2.07	-1.90	-3.18
4,515.00	14.82	292.46	4,466.07	155.62	-438.38	465.17	0.89	0.79	1.63
4,606.00	16.18	292.57	4,553.76	164.94	-460.85	489.47	1.49	1.49	0.12
4,696.00	15.02	288.46	4,640.44	173.44	-483.49	513.65	1.78	-1.29	-4.57
4,787.00	14.95	289.55	4,728.35	181.10	-505.74	537.18	0.32	-0.08	1.20
4,877.00	14.54	292.43	4,815.38	189.30	-527.12	560.07	0.93	-0.46	3.20
4,968.00	15.02	294.86	4,903.37	198.62	-548.38	583.24	0.86	0.53	2.67
5,058.00	16.14	296.58	4,990.07	209.12	-570.15	607.28	1.35	1.24	1.91
5,149.00	15.96	294.41	5,077.52	219.95	-592.85	632.32	0.69	-0.20	-2.38
5,240.00	14.55	293.29	5,165.31	229.64	-614.74	656.21	1.58	-1.55	-1.23
5,330.00	12.12	295.14	5,252.88	238.12	-633.68	676.91	2.74	-2.70	2.06
5,421.00	9.13	291.24	5,342.31	244.80	-649.06	693.64	3.38	-3.29	-4.29
5,511.00	6.46	282.40	5,431.47	248.47	-660.67	705.80	3.24	-2.97	-9.82
5,602.00	3.41	263.42	5,522.13	249.26	-668.36	713.30	3.76	-3.35	-20.86

Scientific Drilling International

Survey Report

Company: Kerr McGee Oil and Gas Onshore LP
Project: Uintah County, UT NAD27
Site: NBU 921-26C Pad
Well: NBU 921-26D1CS
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well NBU 921-26D1CS
TVD Reference: GL 4969' & RKB 14' @ 4983.00ft (Ensign 139)
MD Reference: GL 4969' & RKB 14' @ 4983.00ft (Ensign 139)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.16 Multi-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)
5,692.00	0.57	256.94	5,612.07	248.85	-671.45	716.07	3.16	-3.16	-7.20
5,783.00	0.62	229.14	5,703.06	248.43	-672.27	716.69	0.32	0.05	-30.55
5,873.00	0.66	209.11	5,793.06	247.66	-672.89	717.01	0.25	0.04	-22.26
5,964.00	0.64	206.17	5,884.05	246.74	-673.37	717.15	0.04	-0.02	-3.23
6,055.00	0.89	181.82	5,975.04	245.58	-673.61	716.98	0.44	0.27	-26.76
6,146.00	0.54	315.53	6,066.04	245.18	-673.94	717.15	1.45	-0.38	146.93
6,236.00	0.51	299.79	6,156.04	245.68	-674.58	717.93	0.16	-0.03	-17.49
6,327.00	0.44	265.18	6,247.03	245.85	-675.28	718.64	0.32	-0.08	-38.03
6,417.00	1.62	328.52	6,337.02	246.91	-676.29	719.95	1.64	1.31	70.38
6,508.00	1.28	328.83	6,427.99	248.88	-677.49	721.75	0.37	-0.37	0.34
6,598.00	0.75	318.39	6,517.97	250.18	-678.40	723.05	0.62	-0.59	-11.60
6,689.00	0.27	315.42	6,608.97	250.78	-678.94	723.77	0.53	-0.53	-3.26
6,779.00	0.14	288.93	6,698.97	250.96	-679.20	724.07	0.18	-0.14	-29.43
6,870.00	0.32	169.45	6,789.97	250.75	-679.26	724.05	0.45	0.20	-131.30
6,961.00	0.14	217.73	6,880.97	250.41	-679.28	723.96	0.27	-0.20	53.05
7,051.00	0.45	184.40	6,970.97	249.97	-679.37	723.89	0.38	0.34	-37.03
7,142.00	0.30	250.95	7,061.97	249.54	-679.62	723.98	0.47	-0.16	73.13
7,232.00	0.52	75.22	7,151.96	249.56	-679.45	723.83	0.91	0.24	-195.26
7,323.00	0.51	90.68	7,242.96	249.66	-678.65	723.11	0.15	-0.01	16.99
7,413.00	0.73	333.30	7,332.96	250.17	-678.50	723.15	1.18	0.24	-130.42
7,504.00	0.57	342.48	7,423.95	251.12	-678.90	723.85	0.21	-0.18	10.09
7,594.00	0.42	2.72	7,513.95	251.88	-679.02	724.22	0.25	-0.17	22.49
7,685.00	0.18	0.35	7,604.95	252.35	-679.00	724.36	0.26	-0.26	-2.60
7,775.00	0.24	189.97	7,694.95	252.31	-679.04	724.38	0.47	0.07	-189.31
7,866.00	1.04	175.51	7,785.94	251.30	-679.00	724.00	0.89	0.88	-15.89
7,957.00	0.96	140.52	7,876.93	249.89	-678.45	723.00	0.67	-0.09	-38.45
8,047.00	0.74	38.96	7,966.92	249.76	-677.61	722.17	1.47	-0.24	-112.84
8,138.00	0.96	53.57	8,057.91	250.67	-676.63	721.55	0.34	0.24	16.05
8,228.00	0.57	324.39	8,147.91	251.48	-676.28	721.50	1.23	-0.43	-99.09
8,272.00	0.53	315.97	8,191.90	251.80	-676.55	721.87	0.20	-0.09	-19.14
Last SDI Production MWD Survey									
10,070.00	0.53	315.97	9,989.83	263.76	-688.11	736.82	0.00	0.00	0.00
Projection To TD									

Scientific Drilling International

Survey Report

Company: Kerr McGee Oil and Gas Onshore LP
Project: Uintah County, UT NAD27
Site: NBU 921-26C Pad
Well: NBU 921-26D1CS
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well NBU 921-26D1CS
TVD Reference: GL 4969' & RKB 14' @ 4983.00ft (Ensign 139)
MD Reference: GL 4969' & RKB 14' @ 4983.00ft (Ensign 139)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.16 Multi-User Db

Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)		
- Shape									
NBU 921-26D1CS PBHL	0.00	0.00	9,923.00	242.84	-668.33	617,767.89	2,553,352.27	40° 0' 45.570 N	109° 31' 27.220 W
- actual wellpath misses target center by 28.17ft at 10002.91ft MD (9922.74 TVD, 263.31 N, -687.68 E) - Circle (radius 25.00)									

Design Annotations				
Measured Depth	Vertical Depth	Local Coordinates		Comment
(ft)	(ft)	+N/-S (ft)	+E/-W (ft)	
170.00	170.00	0.32	-0.22	First Anadarko MWD Survey
2,470.00	2,468.98	16.74	-57.24	Last Anadarko MWD Survey
2,523.00	2,521.96	16.61	-58.60	First SDI Production MWD Survey
8,272.00	8,191.90	251.80	-676.55	Last SDI Production MWD Survey
10,070.00	9,989.83	263.76	-688.11	Projection To TD

Checked By: _____ Approved By: _____ Date: _____

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 921-26D1CS (GREEN) Spud Conductor: 8/22/2009 Spud Date: 8/24/2009
 Project: UTAH-UINTAH Site: NBU 921-26C PAD Rig Name No: ENSIGN 139/139, PROPETRO/
 Event: DRILLING Start Date: 8/21/2009 End Date: 12/1/2009
 Active Datum: RKB @4,984.00ft (above Mean Sea Leve) UWI: NE/NW/0/9/S/21/E/26/0/0/6/PM/N/836.00/W/0/1,648.00/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
8/24/2009	10:00 - 12:30	2.50	MIRU	01	A	P		MIRU, INSTAL AIR BOWL AND BOWIE LINE, BUILD DITCH, RIG UP RIG.
	12:30 - 14:00	1.50	DRLSUR	02	A	P		AIR SPUD 8/24/2009 12:30, AIR HAMMER FROM 44' 180'.
	14:00 - 17:00	3.00	DRLSUR	06	A	P		LD AIR HAMMER AND M/U HUNTING MOTOR 1.87 DEG BENT HOUSING,W/ 50 HRS, P/U NEW HC507Z SN 7014376 W/ 7-18'S. SCRIBE DIRECTIONAL TOOLS.
	17:00 - 0:00	7.00	DRLSUR	02	D	P		DRILL SLIDE 180'- 970' (790', 113'/HR) WOB 18K, ROT 35, ROT 104, ON/OFF PSI 1200/ 1000. GPM 650. FULL CIRC. DRILL SLIDE HEADING 2 DEG WEST.
8/25/2009	0:00 - 4:00	4.00	DRLSUR	02	D	P		DRILL SLIDE 970'- 1240' (270', 67.5'/HR) WOB 21, RPM 45, ON/OFF PSI 1250/1000, GPM 650. DH RPM 104. UP/DOWN/ ROT 62/60/61.
	4:00 - 4:30	0.50	DRLSUR	07	A	P		RIG SERVICE, (CHANGE OUT KELLY HOSE)
	4:30 - 19:30	15.00	DRLSUR	02	D	P		DRILL SLIDE 1240'- 2460' (1220', 81'/HR) WOB 24, RPM 45, ON OFF PSI 1500/ 1250, GPM 650 W/ AIR ASSIST. DH RPM=104, UP/DOWN/ ROT 75/70/73. WATER ZONE 1750'.
	19:30 - 20:30	1.00	CSG	05	A	P		CIRC AND CLEAN HOLE. ASSIST W/ AIR.
8/26/2009	20:30 - 0:00	3.50	CSG	06	D	P		LDDS, LAY DOWN DIRECTIONAL TOOLS.
	0:00 - 3:30	3.50	CSG	12	C	P		RUN 55 JTS OF 9-5/8 36# J-55 LTC CSG AND LAND FLOAT SHOE @ 2430' KB, RAN BAFFLE JT IN FIRST CSG COLLAR LANDED @ 2385' KB. CIRC THROUGH SHOE @ 880' AND 1760'. RUN 200' OF 1" DOWN BACKSIDE OF CSG.
	3:30 - 4:00	0.50	RDMO	01	E	P		RIG DOWN RIG. RELEASE RIG 04:00 8/26/2009
	4:00 - 8:30	4.50	CSG	12	E	P		HOLD SAFETY MEETING, RIG UP PROPETRO CEMENTERS, START FLUSH 180 BBLs OF H2O, PUMP 20 BBLs OF GEL WATER, PUMP 220 SX (150 BBLs) OF 11# 3.82 YD 23 GAL/SK HI FILL LEAD CEMENT. CATCH CIRC. 62 BBLs INTO LEAD CEMENT. PUMP 200 SX (41 BBLs) OF 15.8#, 1.15 YD, 5 GAL/SK PREMIUM TAIL 2% CALC. DROP PLUG ON FLY, DISPLACE W/ 184.5 BBLs OF H2O, LIFT PRESSURE 500, BUMP PLUG 1000 PSI, CHECK FLOAT. FLOAT HELD. 10 BBLs OF GEL WATER TO PIT. PUMP SAME TAIL CEMENT (100SX) 20 BBLs DOWN 1" DISPLACE OUT GEL WATER W/ 15.8# 4% CALC2 TAIL CEMENT. CEMENT FELL. WAIT 2 HRS, TOP OUT W/ 125 SX (25 BBLs) 15.8#, 1.15 YD, 5 GAL/SK 4% CAL2 PREMIUM CEMENT. CEMENT TO SURFACE AND STAYED. WASH UP TRUCK, RIG DOWN CEMENTERS.
11/19/2009	16:00 - 0:00	8.00	RDMO	01	E	P		RDRT,PREP F/MOVE
11/20/2009	0:00 - 7:00	7.00	RDMO	01	E	P		RDRT
	7:00 - 18:00	11.00	MIRU	01	B	P		TRUCK RIG ,SET IN BACK YARD & PITS
	18:00 - 0:00	6.00	MIRU	21	C	P		SDFN
11/21/2009	0:00 - 6:00	6.00	MIRU	21	C	P		SDFN
	6:00 - 11:00	5.00	MIRU	01	A	P		TRUCK W/RW JONES,10TRUCKS,2-FORKLIFTS,RELEASE TRUCKS 11AM 11/21/09
	11:00 - 0:00	13.00	MIRU	01	B	P		PIN DERRICK,STRING BLOCKS,RAISE DERRICK@16:00 ,RURT

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 921-26D1CS (GREEN) Spud Conductor: 8/22/2009 Spud Date: 8/24/2009
 Project: UTAH-UINTAH Site: NBU 921-26C PAD Rig Name No: ENSIGN 139/139, PROPETRO/
 Event: DRILLING Start Date: 8/21/2009 End Date: 12/1/2009
 Active Datum: RKB @4,984.00ft (above Mean Sea Leve) UWI: NE/NW/0/9/S/21/E/26/0/0/6/PM/N/836.00/W/0/1,648.00/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
11/22/2009	0:00 - 6:00	6.00	MIRU	01	B	P		RURT,PIT PUMPS,CATWALK,FLOWLINES
	6:00 - 8:00	2.00	PRPSPD	14	A	P		NUBOP INSTALL FLARE LINES,PRE- SPUD INSPECTION
	8:00 - 13:30	5.50	PRPSPD	15	A	P		TEST BOP,RAMS,CHOKE & KILL 5K/250 LOW,ANN 2.5K/250 LOW,CSG 1.5 K,INSTALL WEARRING
	13:30 - 15:30	2.00	PRPSPD	08	A	P		CHANGE OIL IN TOP DRIVE,CHANGE SAVORSUB
	15:30 - 21:30	6.00	PRPSPD	06	A	P		P/U BIT & MTR #1,DIR TOOLS,BHA & DP,LEVEL DERRICK INSTALL ROTATING RUBBER,TIH
	21:30 - 23:00	1.50	PRPSPD	02	F	P		DRILL CEMENT & FE TO 2470'
	23:00 - 0:00	1.00	DRLPRO	02	D	P		DIR DRILL F/2470 TO 2580',SURVEY 90'
11/23/2009	0:00 - 14:00	14.00	DRLPRO	02	D	P		DIR DRILL F/2580 TO 3890,=1310,AVG 94,SLIDE 50%,SURVEY 90',GPM 480,116 STKS,PSI 1250,DIFF 300,ST WT 115-105-95,RPM 110
	14:00 - 14:30	0.50	DRLPRO	07	A	P		DAILY SERVICE
	14:30 - 0:00	9.50	DRLPRO	02	D	P		DIR DRILL F/3890 TO 4570 ,AVG 72, SLIDE 50% TO MAINTAIN 15 DEG,SURVEY 90',GPM 480,116 STKS,PSI 1450,DIFF 300,ST WT 120-110-100,RPM 110
11/24/2009	0:00 - 7:30	7.50	DRLPRO	02	D	P		DIR DRILL F/4570 TO 4932',AVG 48,WOB 12-18,GPM 480,STKS 116,PSI 1600,DIFF 2-300,STWT 170-145-130
	7:30 - 9:00	1.50	DRLPRO	08	B	Z		REPLACE GRAGGER SOLENOID ON TOPDRIVE
	9:00 - 13:00	4.00	DRLPRO	02	D	P		DIR DRILL F/4932 TO 5160,AVG 57,SAME STATS, SURVEY 90'
	13:00 - 13:30	0.50	DRLPRO	07	A	P		DAILY SERVICE
	13:30 - 14:00	0.50	DRLPRO	07	C	S		CHANGE ROTATING HEAD RUBBER
	14:00 - 0:00	10.00	DRLPRO	02	D	P		DIR DRILL F/5160 TO 5795',AVG 64,WOB 12-18,GPM 480,STKS 116,PSI 1650,DIFF 2-300,STWT 180-150-130
11/25/2009	0:00 - 14:30	14.50	DRLPRO	02	D	P		DIR DRILL F/5790 TO 6835,AVG 72,SURVEY 90',WOB 18,GPM 480,PSI1700,DIFF 200,TORQ 9K,WT 220-165-145
	14:30 - 15:00	0.50	DRLPRO	07	A	P		RIG SERVICE
	15:00 - 0:00	9.00	DRLPRO	02	D	P		DRILL F/ 6835 TO 7195,AVG 40,SURVEY 90',WOB 18,GPM 480,PSI1700,DIFF 200,TORQ 9K,WT 220-165-145
11/26/2009	0:00 - 14:00	14.00	DRLPRO	02	D	P		DRILL F/ 7195 to 7695,AVG 36,SURVEY 90',WOB 18-22,GPM 480,PSI 1850,DIFF 200,TORQ 11K,WT 260-180-155,MUD WT 9.6/38,LOST 30 BBLS@7680
	14:00 - 14:30	0.50	DRLPRO	07	A	P		DAILY SERVICE & TOP DRIVE,CROWN
	14:30 - 21:30	7.00	DRLPRO	02	D	P		DRILL F/ 7695 TO 7940,AVG 35,SURVEY 90',WOB 18-22,GPM 480,PSI 1850,DIFF 200,TORQ 11K,RPM 45,,WT 260-180-155,MUD WT 9.8.37
	21:30 - 23:30	2.00	DRLPRO	08	B	Z		EQUILIZER LINE ON PITS,LOST BOOT SEAL,LOST 120 BBLS TO RES PIT,NO SPILL ON LOCATION,BUILD VOLUME IN PREMIX & TRANSFER
11/27/2009	23:30 - 0:00	0.50	DRLPRO	02	D	P		DIR DRILL F/7940 TO 7960,AVG 20,SAME
	0:00 - 13:00	13.00	DRLPRO	02	D	P		DIR DRILL F/7960 TO 8329,AVG 28,WOB 22,PSI2250,,DIFF200,TORQ12-15K,GPM 480,,STWT 260-180-155
	13:00 - 13:30	0.50	DRLPRO	07	A	P		RIG SERVICE
	13:30 - 15:30	2.00	DRLPRO	06	A	P		PUMP PILL STRT PULL 260 OFF BTM,POOH TO 4910',NO FLOW
	15:30 - 18:00	2.50	DRLPRO	22	A	X		WORK TIGHT HOLE@ 4905',OVERPULL 150K,SLACK 120K,CIRC & REAM,F/4770 TO 4950,CLEAN HOLE
	18:00 - 22:00	4.00	DRLPRO	06	A	P		FINISH POOH,L/D BIT#1 & DIR TOOLS

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 921-26D1CS (GREEN) Spud Conductor: 8/22/2009 Spud Date: 8/24/2009
 Project: UTAH-UINTAH Site: NBU 921-26C PAD Rig Name No: ENSIGN 139/139, PROPETRO/
 Event: DRILLING Start Date: 8/21/2009 End Date: 12/1/2009
 Active Datum: RKB @4,984.00ft (above Mean Sea Leve) UWI: NE/NW/0/9/S/21/E/26/0/0/6/PM/N/836.00/W/0/1,648.00/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
11/28/2009	22:00 - 0:00	2.00	DRLPRO	06	A	P		P/U MONEL, .14RPG MTR,BIT#2,TIH TO SHOE F/TOP DRIVE REPAIR
	0:00 - 0:30	0.50	DRLPRO	06	A	P		TIH TO SHOE
	0:30 - 2:00	1.50	DRLPRO	08	B	Z		REPLACE TOP DRIVE MUDSAVOR SOLEINOID
	2:00 - 7:00	5.00	DRLPRO	06	A	P		TIH TO 5300' BREAK CIRC,TIH,,LOST 100 BBLs ON TRIP
	7:00 - 14:30	7.50	DRLPRO	02	D	P		DRILL F/8329 TO 8816,AVG 65, WOB 17,PSI 2300,DIFF 300 TORQ 9-11K,STWT 265-200-160,MUD WT 10.7/40 5%LCM RIG SERVICE
	14:30 - 15:00	0.50	DRLPRO	07	A	P		
11/29/2009	15:00 - 0:00	9.00	DRLPRO	02	D	P		DRILL F/ 8816 TO 9200,AVG 43 , WOB 18-20,PSI 2350,DIFF 300 TORQ 9-11K,STWT 265-200-160,MUD WT 11.2/40 8%LCM
	0:00 - 2:30	2.50	DRLPRO	02	D	P		DRILL F/ 9200 TO 9336,AVG 54 , WOB 18-20,PSI 2450,DIFF 200 TORQ 10-12K,STWT 270-200-180,MUD WT 11.4/40 8%LCM
	2:30 - 3:30	1.00	DRLPRO	08	B	Z		REPAIR EQUILIZER AIRBOOT,BETWEEN PITS
	3:30 - 14:30	11.00	DRLPRO	02	D	P		DRILL F/ 9336 TO 9767,AVG 39 , WOB 20-24,PSI 2450,DIFF 200 TORQ 10-12K,STWT 270-200-180,MUD WT 11.4/40 8%LCM RIG SERVICE
	14:30 - 15:00	0.50	DRLPRO	07	A	P		
	15:00 - 0:00	9.00	DRLPRO	02	D	P		DRILL F/9767 TO 10070,AVG 38 , WOB 20-24,GPM 480,PSI 2450,DIFF 200 TORQ 10-12K,STWT 280-200-180,MUD WT 11.9+/15% LCM,F/110 BBL LOSS LAST 30' OF WELL IN SEGO
11/30/2009	0:00 - 2:30	2.50	DRLPRO	05	B	X		BUILD VOLUME IN PREMIX 11.9+/16%LCM,ADD TO ACTIVE SYSTEM F/LOSES
	2:30 - 5:00	2.50	DRLPRO	06	E	P		SHORTTRIP 10 STNDS,PUMP 5,PULL 5,
	5:00 - 6:30	1.50	DRLPRO	05	C	P		CIRC BTM UP TWICE,GAS 190-2070-50,NO FLARE
	6:30 - 14:30	8.00	EVALPR	06	B	P		DROP SURVEY,POOH F/LOGS,NO TIGHT HOLE PULLWEARING,FINAL SURVEY@10010' 2.1 152 AZI, = 11'S 1'E CENTER TARGET
	14:30 - 19:00	4.50	EVALPR	11	D	P		RUN TRIPLE COMBO TO LOGGERS DEPTH 7727',BRIDGED OUT & LOG UP
	19:00 - 0:00	5.00	CSG	12	C	P		RUN 4.5 BTC 11.6# I-80 CSG W/ 8JTS P-110 -LTC ON BOTTOM,CIRC @1500 & 5100'
12/1/2009	0:00 - 3:30	3.50	CSG	12	C	P		RUN CSG TO 10058 SHOE ,FC @ 10015',
	3:30 - 4:30	1.00	CSG	05	D	P		CIRC CSG ,BTMS UP F/CEMENT,2100 UNITS ,NO FLARE,
	4:30 - 8:00	3.50	CSG	12	E	P		PUMP 615 SX LEAD@12.2 2.13YD,11.86 MIX,1400SX TAIL 14.3# 1.25YD,5.41 MIX.DISPLACE 155 BBLs CLAYFIX,FINAL CIRC PSI 3000,BUMPPLUG 500 OVER, FLOATS HELD,R/D HALLIBURTON
	8:00 - 12:00	4.00	RDMO	14	A	P		WASH UP,LAND CSG 85K,REMOVE LD JT,NDBOP,CLEAN PITS,RELEASE RIG 12:00 12/1/09,PREP F/SKID

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-26D1CS (GREEN) Spud Conductor: 8/22/2009 Spud Date: 8/24/2009
 Project: UTAH-UINTAH Site: NBU 921-26C PAD Rig Name No:
 Event: COMPLETION Start Date: 1/14/2010 End Date: 2/13/2010
 Active Datum: RKB @4,984.00ft (above Mean Sea Leve) UWI: NE/NW/0/9/S/21/E/26/0/0/6/PM/N/836.00/W/0/1,648.00/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
1/29/2010	7:00 - 16:00	9.00	COMP	37	B	P		PSI TEST CSG 7 BOTH FRAC VALVES T/ 7,000 PSI. BLEED OFF PSI. PERF STG 1)PU 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 & 120 DEG PHASING. RIH PERF F/ 9788'-90', 3 SPF, 6 HOLES. 9804'-07', 3 SPF, 9 HOLES. 9916'-20' 4 SPF, 16 HOLES. 9945'-49', 3 SPF, 12 HOLES. TOTAL HOLES = 43. POOH. SWI FWE.
2/1/2010	11:05 - 11:44	0.65	COMP	36	B	P		FRAC STG 1) WHP 1787 PSI, BRK 3804 PSI @ 5.6 BPM. ISIP 3191 PSI, FG .76. PUMP 100 BBLS @ 43 BPM @ 5800 PSI = 60% HOLES OPEN. ISIP 3002 PSI, FG .74, NPI -189 PSI. MP 6390 PSI, MR 50.6 BPM, AP 5770 PSI, AR 43.7 BPM, PMP 1270 BBLS SW & 34,979 LBS OF 30/50 SND & 5,000 LBS OF 20/40 RESIN SND. TOTAL PROP 39,979 LBS, SWI, X-OVER FOR WL.
	12:20 - 13:20	1.00	COMP	37	B	P		PERF STG 2)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 & 120 DEG PHASING. RIH SET CBP @ 9710' P/U PERF F/ 9492'-95', 3 SPF, 9 HOLES. 9534'-38', 3 SPF, 12 HOLES. 9583'-85', 3 SPF, 6 HOLES. 9676'-80, 4 SPF, 16 HOLES. TOTAL HOLES =43. POOH, X-OVER FOR FRAC CREW.
	15:46 - 17:30	1.73	COMP	36	B	P		FRAC STG 6)WHP 2050 PSI, BRK 4718 PSI @ 5.5 BPM. ISIP 3315 PSI, FG .78. PUMP 100 BBLS @ 52 BPM @ 5475 PSI = 100% HOLES OPEN. ISIP 3138 PSI, FG .76, NPI -177 PSI. MP 6360 PSI, MR 54 BPM, AP 5230 PSI, AR 49.7 BPM, PMP 2838 BBLS SW & 110,669 LBS OF 30/50 SND & 5,000 LBS OF 20/40 RESIN SND. TOTAL PROP 115,669 LBS, SWI, SDFN.
2/2/2010	7:15 - 8:15	1.00	COMP	37	B	P		PERF STG 3)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 & 120 DEG PHASING. RIH SET CBP @ 9466' P/U PERF F/ 9248'-50', 3 SPF, 6 HOLES. 9334'-36', 3 SPF, 6 HOLES. 9364'-67', 3 SPF, 9 HOLES. 9413'-16', 4 SPF, 12 HOLES. 9434'-36', 4 SPF, 8 HOLES. TOTAL HOLES = 41. .POOH, X-OVER FOR FRAC CREW.
	10:13 - 11:02	0.82	COMP	36	B	P		FRAC STG 3)WHP 1980 PSI, BRK 3594 PSI @ 5.5 BPM. ISIP 3056 PSI, FG .76. PUMP 100 BBLS @ 50 BPM @ 5700 PSI = 93% HOLES OPEN. ISIP 2900 PSI, FG .74, NPI -156 PSI. MP 6405 PSI, MR 51.8 BPM, AP 5090 PSI, AR 51 BPM, PMP 2040 BBLS SW & 74,338 LBS OF 30/50 SND & 5,000 LBS OF 20/40 RESIN SND. TOTAL PROP 79,338 LBS, SWI, X-OVER FOR WL.

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-26D1CS (GREEN)	Spud Conductor: 8/22/2009	Spud Date: 8/24/2009
Project: UTAH-UINTAH	Site: NBU 921-26C PAD	Rig Name No:
Event: COMPLETION	Start Date: 1/14/2010	End Date: 2/13/2010
Active Datum: RKB @4,984.00ft (above Mean Sea Leve		
UWI: NE/NW/0/9/S/21/E/26/0/0/6/PM/N/836.00/W/0/1,648.00/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	11:06 - 12:06	1.00	COMP	37	B	P		PERF STG 4)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 & 120 DEG PHASING. RIH SET CBP @ 9228' P/U PERF F/ 9019'-21', 3 SPF, 6 HOLES. 9076'-78', 3 SPF, 6 HOLES. 9160'-64', 4 SPF, 16 HOLES. 9194'-98', 4 SPF, 16 HOLES. TOTAL HOLES = 44. POOH, X-OVER FOR FRAC CREW.
	13:35 - 13:58	0.38	COMP	36	B	P		FRAC STG 4)WHP 2700 PSI, BRK 3612 PSI @ 5.5 BPM. ISIP 2943 PSI, FG .76. PUMP 100 BBLS @ 42 BPM @ 5360 PSI = 60% HOLES OPEN. ISIP 3020 PSI, FG .76, NPI 77 PSI. MP 5720 PSI, MR 44.6 BPM, AP 4826 PSI, AR 43.6 BPM, PMP 655 BBLS SW & 16,394 LBS OF 30/50 SND & 5,000 LBS OF 20/40 RESIN SND. TOTAL PROP 21,394 LBS, SWI, X-OVER FOR WL.
	13:58 - 14:42	0.73	COMP	37	B	P		PERF STG 5)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 & 120 DEG PHASING. RIH SET CBP @ 8988' P/U PERF F/ 8719'-22', 3 SPF, 9 HOLES. 8844'-46', 3 SPF, 6 HOLES. 8902'-04', 3 SPF, 6 HOLES. 8930'-32', 4 SPF, 8 HOLES. 8955'-58', 4 SPF, 12 HOLES. TOTAL HOLES =41. POOH, X-OVER FOR FRAC CREW.
	17:19 - 18:00	0.68	COMP	36	B	P		FRAC STG 5)WHP 1430 PSI, BRK 5306 PSI @ 5.7 BPM. ISIP 2902 PSI, FG .76. PUMP 100 BBLS @ 51 BPM @ 6200 PSI = 66% HOLES OPEN. ISIP 2600 PSI, FG .73, NPI -302 PSI. MP 6354 PSI, MR 52.8 BPM, AP 4720 PSI, AR 51.2 BPM, PMP 839 BBLS SW & 29,388 LBS OF 30/50 SND & 5,000 LBS OF 20/40 RESIN SND. TOTAL PROP 34,388 LBS, SWI, X-OVER FOR WL.
	18:10 - 19:00	0.83	COMP	37	B	P		PERF STG 6)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 & 120 DEG PHASING. RIH SET CBP @ 8582' P/U PERF F/ 8395'-98', 3 SPF, 9 HOLES. 8439'-42', 3 SPF, 9 HOLES. 8493'-96', 3 SPF, 9 HOLES. 8548'-52', 4 SPF, 16 HOLES. TOTAL HOLES = 43. POOH. SWI FN18
2/3/2010	7:00 - 7:15	0.25	COMP	48		P		HSM. SIM OPS.
	7:15 - 8:08	0.88	COMP	36	B	P		FRAC STG 6)PSI TEST LINES T/ 8000 PSI. GOOD TEST. BLEED OFF PSI. OPEN WELL. WHP 1780 PSI, BRK 3304 PSI @ 5.1 BPM. ISIP 2564 PSI, FG .74. PUMP 100 BBLS @ 50 BPM @ 4650 PSI = 100% HOLES OPEN. ISIP 2754 PSI, FG .76, NPI 190 PSI. MP 5892 PSI, MR 51.3 BPM, AP 4471 PSI, AR 50.5 BPM, PMP 1114 BBLS SW & 38,563 LBS OF 30/50 SND & 5,000 LBS OF 20/40 RESIN SND. TOTAL PROP 43,563 LBS, SWI, X-OVER FOR WL.

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 921-26D1CS (GREEN) Spud Conductor: 8/22/2009 Spud Date: 8/24/2009
 Project: UTAH-UINTAH Site: NBU 921-26C PAD Rig Name No:
 Event: COMPLETION Start Date: 1/14/2010 End Date: 2/13/2010
 Active Datum: RKB @4,984.00ft (above Mean Sea Leve) UWI: NE/NW/0/9/S/21/E/26/0/0/6/PM/N/836.00/W/0/1,648.00/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	8:12 - 9:00	0.80	COMP	37	B	P		PERF STG 7)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 & 120 DEG PHASING. RIH SET CBP @ 8320' P/U PERF F/ 8051'-54', 3 SPF, 9 HOLES. 8112'-16', 4 SPF, 16 HOLES. 8238'-41', 3 SPF, 9 HOLES. 8288'-90', 3 SPF, 6 HOLES. TOTAL HOLES = 40. POOH, X-OVER FOR FRAC CREW.
	11:39 - 12:06	0.45	COMP	36	B	P		FRAC STG 7)WHP 0000 PSI, BRK 0000 PSI @ 6.4 BPM. ISIP 0000 PSI, FG .00. PUMP 100 BBLS @ 48 BPM @ 4525 PSI = 88% HOLES OPEN. ISIP 2600 PSI, FG .75, NPI 403 PSI. MP 6015 PSI, MR 51.3 BPM, AP 4360 PSI, AR 50 BPM, PMP 925 BBLS SW & 29,691 LBS OF 30/50 SND & 5,000 LBS OF 20/40 RESIN SND. TOTAL PROP 34,691 LBS. SWI, X-OVER FOR WL.
	12:10 - 13:00	0.83	COMP	37	B	P		PERF STG 8)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 120 DEG PHASING. RIH SET CBP @ 7854' P/U PERF F/ 7614'-18', 3 SPF, 12 HOLES. 7688'-92', 3 SPF, 12 HOLES. 7818'-24', 3 SPF, 18 HOLES. TOTAL HOLES =42. SWI, X-OVER FOR FRAC CREW.
	15:19 - 16:30	1.18	COMP	36	B	P		FRAC STG 8)WHP 990 PSI, BRK 2783 PSI @ 6 BPM. ISIP 1753 PSI, FG .66. PUMP 100 BBLS @ 51 BPM @ 4270 PSI = 83% HOLES OPEN. AFTER GOING T/ FLUSH, SCREAM OUT ZONE. LACKED 70 BBLS F/ GETTING FLUSH OFF. OPEN WELL T/ PIT. FLOW BACK WELL FOR 20 MIN THEN REFLUSH. MP 8272 PSI, MR 54.8 BPM, AP 4027 PSI, AR 53.4 BPM, PMP 2987 BBLS SW & 148,520 LBS OF 30/50 SND & 5,000 LBS OF 20/40 RESIN SND. TOTAL PROP 153,520 LBS, SWI, X-OVER FOR WL. (PUMPED 15,713 LBS OF EXTRA SAND IN THIS STG.)
	16:30 - 18:00	1.50	COMP	34	I	P		PU 4 1/2 8K HAL CBP. RIH SET CBP @ 7564'. POOH. RDMO CUTTERS WL & FRAC TECH SERV.
2/12/2010	7:00 - 7:15	0.25	COMP	48		P		DAY 5 - JSA & SM. NO H2S PRESENT.
	7:15 - 16:00	8.75	COMP	31	I	P		WHP = 0 PSI. MIRU. SPOT EQUIP. ND F.V., NU BOP. RU FLOOR & TBG EQUIP., PREP & TALLY TBG. PU 3 7/8" BIT, POBS & XN NIPPLE. RIH ON NEW 2 3/8" 4.7# L80 TBG. TAG FILL @ 7534'. KILL PLG @ 7564'. LD 2 JTS. RU PWR SWVL & PMP. SWI - SDFN. PREP TO DRLG OUT CBP's IN AM.
2/13/2010	7:00 - 7:30	0.50	COMP	48		P		HSM, WORKING W/ POWER SWIVEL, AND WORKING W/ PRESSURE.

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 921-26D1CS (GREEN) Spud Conductor: 8/22/2009 Spud Date: 8/24/2009
 Project: UTAH-UINTAH Site: NBU 921-26C PAD Rig Name No:
 Event: COMPLETION Start Date: 1/14/2010 End Date: 2/13/2010
 Active Datum: RKB @4,984.00ft (above Mean Sea Leve) UWI: NE/NW/0/9/S/21/E/26/0/0/6/PM/N/836.00/W/0/1,648.00/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	7:30 - 18:00	10.50	COMP	44	C			BROKE CIRC CONVENTIONAL W/ 2% RIH. C/O 15' SAND TAG 1ST PLUG @ 7564' DRL PLG IN 10 MIIN. 500 # INCREASE. RIH, C/O 25' SAND TAG 2ND PLUG @ 7854' DRL PLG IN 10 MIIN. 500 # INCREASE. RIH, C/O 45' SAND TAG 3RD PLUG @ 8320' DRL PLG IN 10 MIIN. 750 # INCREASE. RIH, C/O 15' SAND TAG 4TH PLUG @ 8582' DRL PLG IN 15 MIIN. 1100 # INCREASE. RIH, C/O 30' SAND TAG 5TH PLUG @ 8960' DRL PLG IN 15 MIIN. 1050 # INCREASE. RIH, C/O 25' SAND TAG 6TH PLUG @ 9228' DRL PLG IN 10 MIIN. 900 # INCREASE. RIH, C/O 30' SAND TAG 7TH PLUG @ 9466' DRL PLG IN 15 MIIN. 1000 # INCREASE. RIH, C/O 30' SAND TAG 1ST PLUG @ 9710' DRL PLG IN 15 MIIN. 800 # INCREASE. RIH, TAG SAND @ 9949' C/O SAND TO PBTD @ 10, 013' L/D 18 JTS RD SWIVEL. LAND TBG ON 299 JTS 23/8 L-80. ND BOPS DROP BALL NU WH. PUMP OFF BIT, SWI FOR 1/2 LET BIT FALL. TURN WELL OVER TO FB CREW, RIG DOWN & PARK ON LOCATION. SDFN. KB= 13' 299 JTS 23/8 L-80 = 9443.73' POBS W/ 1.875 X/N = 2,20' EOT @ 9459.36' 322 JTS HAULED OUT 299 LANDED 23 TO RETURN TWTR 12,819 BBLs TWR 2500 BBLs TWLTR 10, 319 BBLs 7 AM FLBK REPORT: CP 2700#, TP 1950#, 20/64" CK, 60 BWPH, HEAVY SAND, LIGHT GAS TTL BBLs RECOVERED: 3540 BBLs LEFT TO RECOVER: 9279 7 AM FLBK REPORT: CP 3125#, TP 2000#, 20/64" CK, 45 BWPH, MEDIUM SAND, MEDIUM GAS TTL BBLs RECOVERED: 4750 BBLs LEFT TO RECOVER: 7089 7 AM FLBK REPORT: CP 2900#, TP 1950#, 20/64" CK, 35 BWPH, MEDIUM SAND, - GAS TTL BBLs RECOVERED: 5690 BBLs LEFT TO RECOVER: 6149 7 AM FLBK REPORT: CP 2725#, TP 1850#, 20/64" CK, 30 BWPH, LIGHT SAND, - GAS TTL BBLs RECOVERED: 6467 BBLs LEFT TO RECOVER: 5372 7 AM FLBK REPORT: CP 2550#, TP 1750#, 20/64" CK, 23 BWPH, LIGHT SAND, - GAS TTL BBLs RECOVERED: 7069 BBLs LEFT TO RECOVER: 4770
2/16/2010	7:00 -			33	A			
2/17/2010	7:00 -			33	A			
2/18/2010	7:00 -			33	A			
2/19/2010	7:00 -			33	A			
2/20/2010	7:00 -			33	A			

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-26D1CS (GREEN)	Spud Conductor: 8/22/2009	Spud Date: 8/24/2009
Project: UTAH-UINTAH	Site: NBU 921-26C PAD	Rig Name No:
Event: COMPLETION	Start Date: 1/14/2010	End Date: 2/13/2010
Active Datum: RKB @4,984.00ft (above Mean Sea Leve		
UWI: NE/NW/0/9/S/21/E/26/0/0/6/PM/N/836.00/W/0/1,648.00/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
2/21/2010	7:00 -			33	A			7 AM FLBK REPORT: CP 2400#, TP 1650#, 20/64" CK, 20 BWPH, TRACE SAND, - GAS TTL BBLS RECOVERED: 7612 BBLS LEFT TO RECOVER: 4227
2/22/2010	7:00 -			33	A			7 AM FLBK REPORT: CP 2300#, TP 1550#, 20/64" CK, 18 BWPH, TRACE SAND, - GAS TTL BBLS RECOVERED: 8078 BBLS LEFT TO RECOVER: 3761

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
		5. LEASE DESIGNATION AND SERIAL NUMBER: UO 01194
SUNDRY NOTICES AND REPORTS ON WELLS		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
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.		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
1. TYPE OF WELL Gas Well		8. WELL NAME and NUMBER: NBU 921-26D1CS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		9. API NUMBER: 43047503620000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6515 Ext	9. FIELD and POOL or WILDCAT: NATURAL BUTTES
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0836 FNL 1648 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENW Section: 26 Township: 09.0S Range: 21.0E Meridian: S		COUNTY: UINTAH
		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 6/28/2011 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input checked="" type="checkbox"/> OTHER	
	<input checked="" type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input type="text" value="Wellhead Repair"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.		
<p>The operator requests approval to conduct wellhead/casing repair operations on the subject well location. Please find the attached procedure for the proposed repair work on the subject well location.</p> <p style="text-align: right;">Approved by the Utah Division of Oil, Gas and Mining</p> <p style="text-align: right;">Date: <u>07/11/2011</u></p> <p style="text-align: right;">By: <u><i>Derek Duff</i></u></p>		
NAME (PLEASE PRINT) Gina Becker	PHONE NUMBER 720 929-6086	TITLE Regulatory Analyst II
SIGNATURE N/A		DATE 6/28/2011

WORKORDER #:

Name: NBU 921-26D1CS - [921-26C PAD] 6/16/2011
Surface Location: NENW Sec. 26, T9S, R21E
 Uintah County, UT

API: 4304750362 **LEASE#:** UO-01194

ELEVATIONS: 4970' GL 4984' KB

TOTAL DEPTH: 10,070' **PBTD:** 10,014'

SURFACE CASING: 9 5/8", 36# J-55 @ 2440'

PRODUCTION CASING: 4 1/2", 11.6#, I-80 @ 10,058'
 TOC @ 570' per CBL

PERFORATIONS: Wasatch 7614' - 7692'
 Mesaverde 7688' - 9949'

Tubular/Borehole	Drift inches	Collapse psi	Burst psi	Capacities		
				Gal./ft.	Cuft/ft.	Bbl./ft.
2.375" 4.7# J-55 tbg.	1.901	8100	7700	0.1624	0.02171	0.00387
4.5" 11.6# I-80	3.875	6350	7780	0.6528	0.0872	0.0155
9.625" 36# J-55	8.921	2020	3520	3.247	0.434	0.0773
Annular Capacities						
2.375" tbg. X 4 1/2" 11.6# csg				0.4227	0.0565	0.01

GEOLOGICAL TOPS:

1540' Green River
 2222' Mahogany
 4944' Wasatch
 7797' Mesaverde

NBU 921-26D1CS- WELLHEAD REPAIR PROCEDURE

PREP-WORK PRIOR TO MIRU:

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

WORKOVER PROCEDURE:

1. MIRU workover rig.
2. Kill well with 10# brine / KCL (dictated by well pressure).
3. Remove tree, install double BOP with blind and 2 3/8" pipe rams, with accumulator closing unit and manual back-ups. Function test BOP system.
4. POOH w/ tubing laying down extra tubing.
5. Rig up wireline service. RIH and set CBP @ ~7564'. Dump bail 4 sx cement on top of plug. POOH and RD wireline service. TIH w/ tubing and seating nipple. Land tubing ±60' above cement. RDMO.
6. Monitor well pressures. If surface casing is dead. MIRU. ND WH and NU BOP. POOH w/ tubing.
7. Depending on conditions at wellsite, continue with either CUT/PATCH Procedure or BACK-OFF Procedure.

CUT/PATCH PROCEDURE:

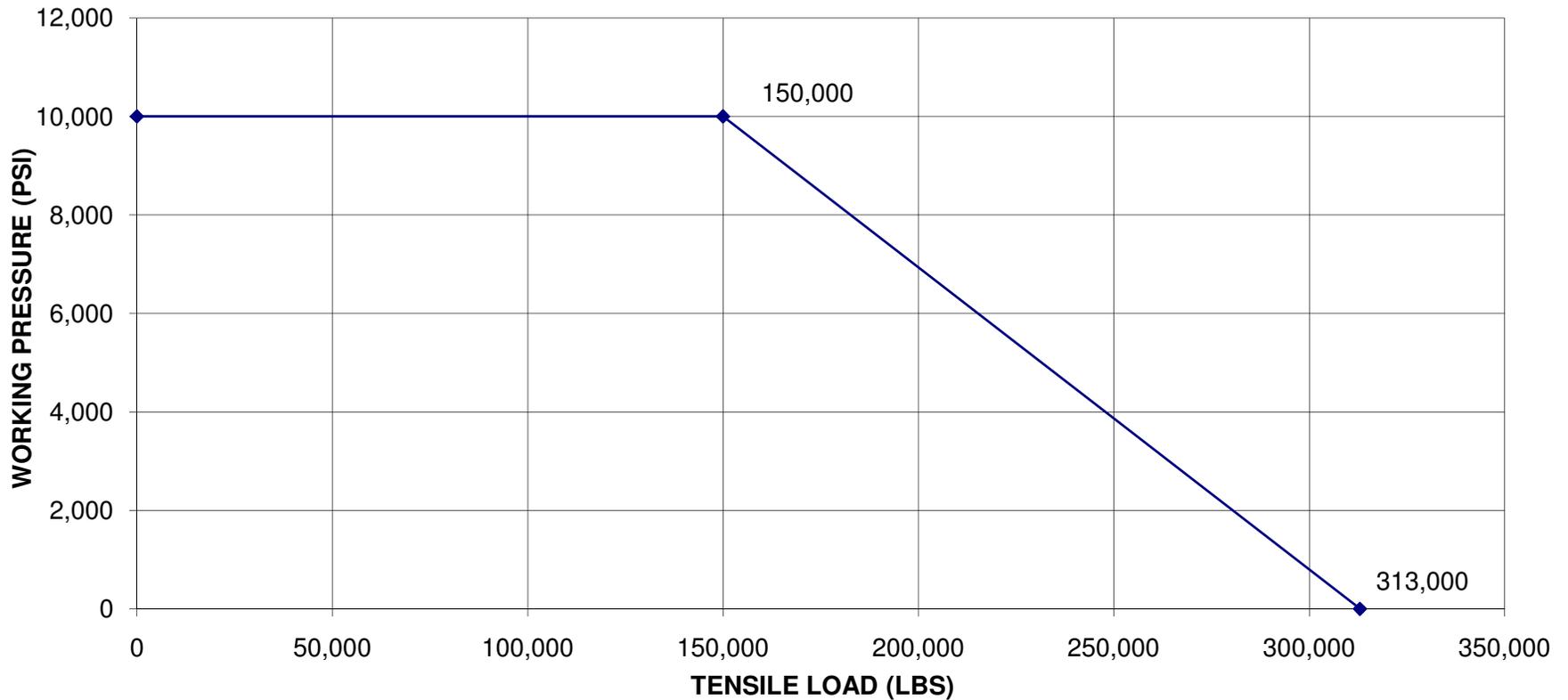
1. PU internal casing cutters and RIH. Cut casing at +/- 30' from surface.
2. POOH, LD cutters and casing.
3. PU 7 3/8" overshoot with 4 1/2" right hand standard wicker grapple, 1 - 4 3/4" drill collar with 3 1/2" IF threads, pup joint, manual bumper sub, and crossovers. If casing cut is deeper than ±30' utilize >7000 ft-lb torque pipe as needed. Pull a minimum of 10,000# to keep grapple engaged if cement top is high (<~900'). If cement top is low (>~900'), more weight will be required to put casing in neutral. Torque casing string to ±7000 ft-lbs, count number of turns to make-up, and document in the daily report. Ensure that tongs are safely anchored to rig and that all personnel are at a safe working distance from the tongs during torque-up and torque release. After initial make-up, place pipe torque to neutral and mark pipe. Place ±7000 ft-lbs on casing a second time, count turns, then return pipe torque to neutral and count turns. Repeat if torque-up turns do not equal torque release turns. Once torque-in equals torque-out, release overshoot, POOH, and lay down.
4. TIH w/ skirted mill and dress off the fish top for approximately 1/2 hour. TOO H.
5. PU & RIH w/ 4 1/2" 10k external casing patch on 4 1/2" P-110 casing. Ensure that sliding sleeve assembly shifts ±3' and casing tags no-go portion of patch. NOTE: Shear pins will shear at 3500 to 4500 lbs.
6. Latch fish, PU to 100,000# tension. RU B&C. Cycle pressure test to 3500 psi.
7. Install slips. Land casing w/ 80,000# tension.
8. Cut-off and dress 4 1/2" casing stub.
9. NUWH. PU 3 7/8" bit, POBS and RIH. D/O cement and plug ~7514'. Clean out to PBSD (10,014').
10. POOH, land tbg and pump off POBS.
11. NUWH, RDMO. Turn well over to production ops.

BACK-OFF PROCEDURE:

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

6. PU new casing joint with buttress threads and entry guide and RIH. Tag casing top. Thread into casing and torque up to ± 7000 ft-lbs, count number of additional turns to make-up, and document in the daily report. Ensure that tongs are safely anchored to rig and that all personnel are at a safe working distance from the tongs during torque-up and torque release. After initial make-up, place pipe torque to neutral and mark pipe. Place ± 7000 ft-lbs on casing a second time, count turns, then return pipe torque to neutral and count turns. Repeat if torque-up turns do not equal torque release turns. Once torque-in equals torque-out go to step 7.
7. PU 100,000# tension string weight. RU B&C. Cycle pressure test to 3500 psi.
8. Install slips. Land casing w/ 80,000# tension.
9. Cut-off and dress 4 1/2" casing stub.
10. NUWH. PU 3 7/8" bit, POBS and RIH. D/O cement and plug ~7514'. Clean out to PBTD (10,014').
11. POOH, land tbg and pump off POBS.
12. NUWH, RDMO. Turn well over to production ops.

**STRENGTH DATA FOR LOGAN 5.88" OD "L" TYPE CSG PATCH
4-1/2 CASING, 10K PSI MAX WP 125K YIELD MAT'L
LOGAN ASSEMBLY NO. 510L-005 -000**



COLLAPSE PRESSURE:
11,222 PSI @ 0 TENSILE
8,634 PSI @ 220K TENSILE

Tensile Strength @ Yield:
Tensile Strength w/ 0 Int. Press.= 472,791lbs.
Tensile Strength w/ 10K Int. Press.= 313,748lbs.

DATA BY SLS 11/16/2009

RECEIVED Jun. 28, 2011

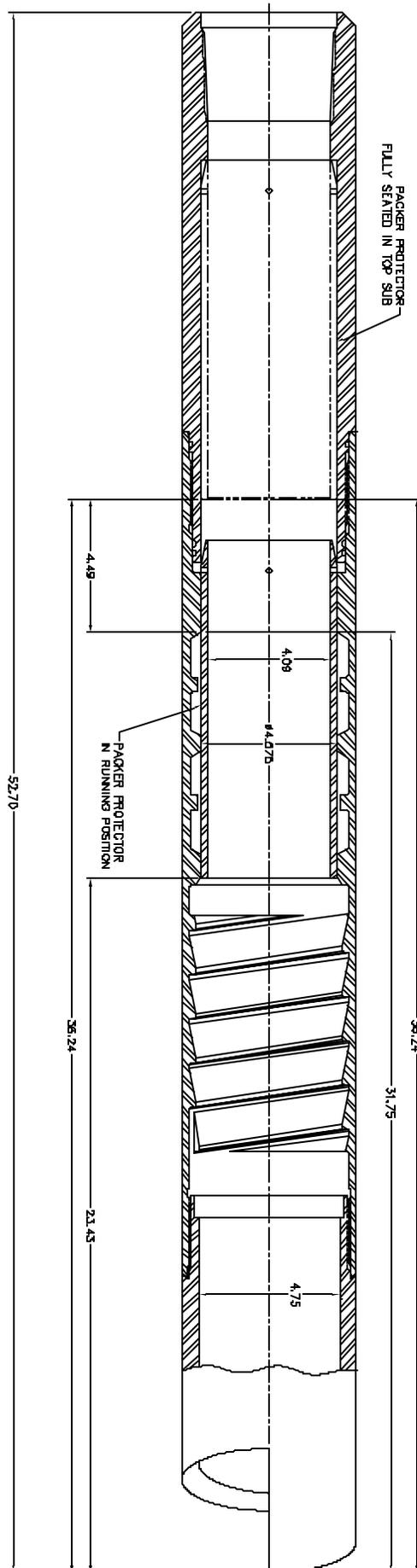


Logan High Pressure Casing Patches Assembly Procedure

All parts should be thoroughly greased before being assembled.

1. Install all four Logan Type "L" Packers in the spaces provided in the Casing Patch Bowl. Refer to diagram provided for proper installation.
2. Install Packer Protector from the Basket Grapple end of the Bowl. The beveled end of the Packer Protector goes in first. Carefully push the Packer Protector through the four Type "L" Packers.
3. Align Shear Pin Holes in Packer Protector so that the holes have just passed into the counter bore at the Top Sub end, refer to diagram. The Packer Protector is provided with four Shear Pin Holes. Use only two holes, 180 degrees apart and install the pins.
4. Screw the Basket Grapple in from the lower end of the Bowl, using left-hand rotation. The Tang Slot in the Basket Grapple must land in line with the slot in the Bowl.
5. Insert the Basket Grapple Control into the end of the Bowl. Align Tang on the Basket Grapple Control with the Tang Slot of the Bowl and Basket Grapple. This secures the Bowl and the Basket Grapple together.
6. Install the Cutlipped Guide into the lower end of the Bowl.
7. Install O-Rings on the two five-foot long Extensions. Screw the first Extension into the top end of the Bowl. Screw the second Extension into the top end of the first Extension.
8. Install O-Ring on Top Sub. Screw Top Sub into top end of second Extension.

Follow recommended Make-Up Torque as provided in chart.



510L-005-001 4-1/2" LOGAN HP CASING PATCH

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS		5. LEASE DESIGNATION AND SERIAL NUMBER: UO 01194
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: NBU 921-26D1CS	
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047503620000	
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6515 Ext	9. FIELD and POOL or WILDCAT: NATURAL BUTTES
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0836 FNL 1648 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENW Section: 26 Township: 09.0S Range: 21.0E Meridian: S	COUNTY: UINTAH	
		STATE: 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 checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 8/8/2011 <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input checked="" type="checkbox"/> OTHER	
	<input checked="" type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input type="text" value="Wellhead Repair"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.		
THE OPERATOR HAS CONCLUDED WELLHEAD/CASING REPAIRS ON THE SUBJECT WELL LOCATION. PLEASE SEE THE ATTACHED CHRONOLOGICAL HISTORY FOR DETAILS OF THE OPERATIONS.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY		
NAME (PLEASE PRINT) Gina Becker	PHONE NUMBER 720 929-6086	TITLE Regulatory Analyst II
SIGNATURE N/A	DATE 8/8/2011	

US ROCKIES REGION
Operation Summary Report

US ROCKIES REGION								
Operation Summary Report								
Well: NBU 921-26D1CS (GREEN)			Spud Conductor: 8/22/2009			Spud Date: 8/24/2009		
Project: UTAH-UINTAH			Site: NBU 921-26C PAD			Rig Name No: LEED 698/698		
Event: WELL WORK EXPENSE			Start Date: 7/22/2011			End Date: 7/27/2011		
Active Datum: RKB @4,984.00ft (above Mean Sea Leve			UWI: NE/NW/0/9/S/21/E/26/0/0/6/PM/N/836.00/W/0/1,648.00/0/0					
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
7/22/2011	7:00 - 8:00	1.00	ALL	30	G	P		ROAD RIG F/ BONAZA 1023-8G TO NBU 921-26D1CS.
	8:00 - 8:30	0.50	ALL	48		P		HSM, REVIEW TOH TBG.
	8:30 - 9:30	1.00	ALL	30	A	P		MIRU.
	9:30 - 10:00	0.50	ALL	30	F	P		SICP. 580 PSI. SITP. 580 PSI. BLEW TBG DWN, CONTROL TBG W/ 10 BBLS, ND WH, NU BOP'S RU FLOOR & TBG EQUIPMENT.
	10:00 - 14:15	4.25	ALL	31	I	P		UNLAND TBG HANGER, POOH 299 JTS. 2-3/8 L-80 TBG.
	14:15 - 15:15	1.00	ALL	34	I	P		RU J-W WIRELINE COMPANY, RIH & SET 4-1/2 BAKER 10K CBP @ 7564', POOH TOOLS.
	15:15 - 17:30	2.25	ALL	34	D	P		RU CMT BAILER & RIH & DUMP BAIL 4 SX CLASS "G" CMT ON TOP OF PLUG, (MADE 2 RUNS) POOH CMT BAILER, RD J-W WIRELINE COMPANY.
7/25/2011	17:30 - 18:00	0.50	ALL	47	B	P		FILL 4-1/2 CSG W/ T-MAC, PRESSURE TEST CBP TO 3000 PSI. FOR 15 MINS, HELD, SWI, SDFWE.
	7:00 - 7:30	0.50	ALL	48		P		HSM, REVIEW BACK-OFF PROCEDURE
	7:00 - 7:30	0.50	ALL	47	A	P		RD FLOOR, ND BOPS, RU FLOOR, NU PWR SWVL.
	7:30 - 10:00	2.50	ALL	47	A	P		PU INTERNAL CUTTER & RIH CUT 4-1/2 CSG 6' F/ SURFACE, POOH LD INTERNAL CUTTER & MANDREL, PU 4-1/2 OVERSHOT, RIH & LATCH FISH, MIRU CSG CREW & J-W WIRELINE RIH & STRING SHOT COLLAR (1 SHOT) BACKOFF 4-1/2 CSG, PU NEW CSG TAG CSG TOP, THREAD INTO CSG, TOQUE TO 7000# W/ 25 ROTATIONS, PU 4-1/2 CSG TO 100,000# TENSION.
	10:00 - 11:30	1.50	ALL	33	C	P		MIRU B&C, P.T. 4-1/2 CSG, TO 1,000 PSI. FOR 15 MINS LOST 10 PSI. IN 15 MINS, P.T. 4- 1/2 TO 3,500 PSI. FOR 30 MINS, LOST 42 PSI. IN 30 MINS, RD, B&C QUICK TEST.
	11:30 - 12:15	0.75	ALL	47	C	P		SET SLIP, LAND 4-1/2 CSG W/ 83,000# TENSION, CUT OFF & DRESS 4-1/2 CSG STUB.
	12:15 - 13:00	0.75	ALL	30	F	P		NU WH, NU BOP'S, RU FLOOR & TBG EQUIPMENT,
7/26/2011	13:00 - 15:00	2.00	ALL	31	I	P		PU 3-7/8 MILL & RIH 238 JTS. 2-3/8 L-80 TBG, TAG TOP CMT @ 7524', SWI, SDFN.
	7:00 - 7:30	0.50	ALL	48		P		HSM, REVIEW PWR SWVL, D/O CMT & CBP, C/O TO PBTD.
	7:30 - 8:00	0.50	ALL	47	A	P		RU PWR SWVL, INSTALL TSF, TAG CMT @ 7524', RU AIR FOAM UNIT.
	8:00 - 9:00	1.00	ALL	31	H	P		BROKE CIRC IN 45 MINS.
	9:00 - 9:15	0.25	ALL	44	A	P		D/O CMT F/ 7524' TO 7564' IN 10 MINS, (40')
	9:15 - 9:30	0.25	ALL	44	C	P		D/O CBP @ 7564' IN 5 MINS, HAD 50 PSI.
	9:30 - 11:30	2.00	ALL	31	I			INCREASE, CIRC HOLE CLEAN, CONTROL TBG. LD PWR SWVL, POOH 6 JTS. TO REMOVE TSF, RIH TBG & TAG SCALE @ 9673' RU PWR SWVL, INSTALL TSF.
7/27/2011	11:30 - 13:30	2.00	ALL	44	D			BROKE CIRC IN 25 MINS, C/O SCALE F/ 9673' TO 9754' FELL THROUGH, RIH TBG & TAG OLD POBS @ 10,002' W/ 317 JTS.
	13:30 - 14:00	0.50	ALL	31	H			CIRC HOLE CLEAN.
	14:00 - 18:30	4.50	ALL	31	I			LD PWR SWVL, POOH & LD 18 JTS. 2-3/8 L-80 TBG ON TRAILER, CONTROL TBG, POOH 299 JTS. 2-3/8 L-80 TBG, LD MILL, SWI, SDFN.
	7:00 - 7:30	0.50	ALL	48		P		HSM, REVIEW TRIPPING TBG IN.

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 921-26D1CS (GREEN)		Spud Conductor: 8/22/2009		Spud Date: 8/24/2009	
Project: UTAH-UINTAH		Site: NBU 921-26C PAD		Rig Name No: LEED 698/698	
Event: WELL WORK EXPENSE		Start Date: 7/22/2011		End Date: 7/27/2011	
Active Datum: RKB @4,984.00ft (above Mean Sea Leve		UWI: NE/NW/0/9/S/21/E/26/0/0/6/PM/N/836.00/W/0/1,648.00/0/0			

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	7:30 - 12:30	5.00	ALL	31	I	P		SICP. 1000 PSI. BLEW CSG DWN, CONTROL CSG W/ 25 BBLs, PU 1.875 XN HALF POBS & RIH 151 JTS. 2-3/8 L-80 TBG, RU SWAB EQUIPMENT & RIH 1.9 BROACH TO EOT @ 4776', POOH SWAB EQUIPMENT, RIH REMAINING 148 JTS. 2-3/8 L-80 TBG, RU SWAB EQUIPMENT & RIH 1.9 BROACH TO @ 4681', POOH SWAB EQUIPMENT, LAND TBG, RD FLOOR & TBG EQUIPMENT, ND BOP'S, NU WH. RDMO. JOB COMPLETED, MOVE TO NBU 921-26DIBS.
TBG DETAIL								
KB-----13' HANGER-----83" 299 JTS. 2-3/8 L-80 TBG @-----9443.73' 1.875 XN HALF POBS-----2.20' EOT @-----9459.76' TOP PERF @ 7614' BTM PERF @ 9949' WLTR. 90 BBLs TAG OLD POBS @ 10,002' PBTD @ 10,014' API # 43047503620000								

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
5. LEASE DESIGNATION AND SERIAL NUMBER: UO 01194	
SUNDRY NOTICES AND REPORTS ON WELLS	
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.	
1. TYPE OF WELL Gas Well	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	8. WELL NAME and NUMBER: NBU 921-26D1CS
PHONE NUMBER: 720 929-6511	9. API NUMBER: 43047503620000
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0836 FNL 1648 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENW Section: 26 Township: 09.0S Range: 21.0E Meridian: S	9. FIELD and POOL or WILDCAT: NATURAL BUTTES
	COUNTY: UINTAH
	STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 4/30/2012	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> 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 checked="" type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <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 re-complete the subject well location. This is producing from the Wasatch & Mesaverde formations. The operator is proposing to re-complete new Wasatch intervals. Please refer to the attached re-completion procedures.

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

Date: May 24, 2012

By: *D. K. Quist*

NAME (PLEASE PRINT) Gina Becker	PHONE NUMBER 720 929-6086	TITLE Regulatory Analyst II
SIGNATURE N/A	DATE 4/30/2012	



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 43047503620000

Authorization: Board Cause No. 173-14.

Greater Natural Buttes Unit



NBU 921-26D1CS
RE-COMPLETIONS PROCEDURE

DATE:4/26/12
AFE#:
API#:4304750362
USER ID:OOT937 (Frac Invoices Only)

COMPLETIONS ENGINEER: Zachary Garrity, Denver, CO
(720)-929-6180 (Office)
(406)-781-6427 (Cell)

SIGNATURE:

ENGINEERING MANAGER: JEFF DUFRESNE

SIGNATURE:

REMEMBER SAFETY FIRST!

Name: NBU 921-26D1CS
Location: NE NW Sec 26 T9S R21E
LAT: 40.011956 **LONG:** -109.522531 **COORDINATE:** NAD83 (Surface Location)
Uintah County, UT
Date: 4/26/12

ELEVATIONS: 4970' GL 4984' KB *Frac Registry TVD: 9990*

TOTAL DEPTH: 10070' **PBTD:** 10013'
SURFACE CASING: 9 5/8", 36# J-55 LT&C @ 2440'
PRODUCTION CASING: 4 1/2", 11.6#, N-80 BT&C @ 9720'
 4 1/2", 11.6#, P-110 LT&C @ 9720 - 10058'
 Marker Joint **4905-4925'**

TUBULAR PROPERTIES:

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

TOPS:

1546' Green River Top
 1761' Bird's Nest Top
 2373' Mahogany Top
 4944' Wasatch Top
 7800' Mesaverde Top
 *Based on latest geological interpretation

BOTTOMS:

7800' Wasatch Bottom
 10070' Mesaverde Bottom (TD)

T.O.C. @ 600'

Hydraulic Isolation @ 1704' Halliburton CBL – 1/6/10

**Based on latest interpretation of CBL

GENERAL:

- A minimum of **11** 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 11/30/09
- **7** fracturing stages required for coverage.
- Procedure calls for **8** 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 as per design
- 30/50 mesh Ottawa sand, **Slickwater frac.**
- Maximum surface pressure **6200** psi.
- **If casing pressure test fails. MIRU with tubing and packer. Isolate leak by pressure testing above and below the packer. RIH and set appropriate casing leak remediation**

(specific details on remediation will be provided in post-job-report). Re-pressure test to 1000 and 3500 psi for 15 minutes each and to 6200 psi for 30 minutes.

- 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)**
- **TIGHT SPACING ON STAGE 1, 2, and 4; OVERFLUSH BY 5 BBLs**
- Tubing Currently Landed @~9460
- Originally completed on 2/1/10

Existing Perforations:

PERFORATIONS						
Formation	Zone	Top	Btm	spf	Shots	Date
WASATCH		7614	7618	3	12	02/04/2010
MESAVERDE		7688	7692	3	12	02/04/2010
MESAVERDE		7818	7824	3	18	02/04/2010
MESAVERDE		8051	8054	3	9	02/04/2010
MESAVERDE		8112	8116	4	16	02/04/2010
MESAVERDE		8238	8241	3	9	02/04/2010
MESAVERDE		8288	8290	3	6	02/04/2010
MESAVERDE		8395	8398	3	9	02/03/2010
MESAVERDE		8439	8442	3	9	02/03/2010
MESAVERDE		8493	8496	3	9	02/03/2010
MESAVERDE		8548	8552	4	16	02/03/2010
MESAVERDE		8719	8722	3	9	02/02/2010
MESAVERDE		8844	8846	3	6	02/02/2010
MESAVERDE		8902	8904	3	6	02/02/2010
MESAVERDE		8930	8932	4	8	02/02/2010
MESAVERDE		8955	8958	4	12	02/02/2010
MESAVERDE		9019	9021	3	6	02/02/2010
MESAVERDE		9076	9078	3	6	02/02/2010
MESAVERDE		9160	9164	4	16	02/02/2010
MESAVERDE		9194	9198	4	16	02/02/2010
MESAVERDE		9248	9250	3	6	02/01/2010
MESAVERDE		9334	9336	3	6	02/01/2010
MESAVERDE		9364	9367	3	9	02/01/2010
MESAVERDE		9413	9416	4	12	02/01/2010
MESAVERDE		9434	9436	4	8	02/01/2010
MESAVERDE		9492	9495	3	9	02/01/2010
MESAVERDE		9534	9538	3	12	02/01/2010
MESAVERDE		9583	9585	3	6	02/01/2010
MESAVERDE		9676	9680	4	16	02/01/2010
MESAVERDE		9788	9790	3	6	01/29/2010
MESAVERDE		9804	9807	3	9	01/29/2010
MESAVERDE		9916	9920	4	16	01/29/2010
MESAVERDE		9945	9949	3	12	01/29/2010

Relevant History:

- 7/26/10** – Slickline, tbg had heavy barium and cleaned out
- 10/20/10** – Slickline, tbg was clean. Small trace of scale on plunger. Chased spring and plunger to btm
- 12/10/10** – Slickline, tbg had traces of scale buildup from 4-9470'. Cleaned out with scratcher and chased spring and plunger to btm

- 1/27/11 – Slickline, tbg lots of scale buildup from 0-9470'. Cleaned out with scratcher and chased spring and plunger to btm
- 4/6/11 – Slickline; tbg lots of scale buildup from 0-3400'. Cleaned out with scratcher and chased spring and plunger to btm
- 7/22/12 – Pulled tbg and set a CIBP at 7564. Cut 4-1/2" csg 3' from surface and pull fish plus pup joint. Replaced bad casing with new; landing on slips. Reattached wellhead and milled out CIBP and several spot of heavy scale. RIH with 2-3/8 L-80 tubing; landing at 9460.
- 2/11/12 – Slickline, tbg was clean. Chased spring and plunger to btm

H2S History:

Production Date	Gas (avg mcf/day)	Water (avg bb/day)	Oil (avg bb/day)	LGR (bb/Mmcf)	Max H2S Seperator (ppm)
11/30/2010	549.10	42.50	1.27	79.71	
12/31/2010	476.13	43.94	1.23	94.85	
1/31/2011	439.74	43.94	1.42	103.14	
2/28/2011	424.93	43.96	1.29	106.49	
3/31/2011	395.71	43.94	1.29	114.29	
4/30/2011	314.50	35.17	1.17	115.53	
5/31/2011	346.39	42.55	1.19	126.28	
6/30/2011	338.27	43.97	1.23	133.62	
7/31/2011	300.68	36.87	0.90	125.63	
8/31/2011	336.55	42.84	0.77	129.59	
9/30/2011	326.47	43.90	0.70	136.61	5.00
10/31/2011	314.97	42.87	0.77	138.57	
11/30/2011	301.17	34.57	0.60	116.77	
12/31/2011	290.06	11.48	0.00	39.59	
1/31/2012	283.87	11.74	0.00	41.36	
2/29/2012	282.41	12.00	0.00	42.49	
3/31/2012	276.58	12.19	0.29	45.14	

PROCEDURE: (If using any chemicals for pickling tubing or H2S Scavenging, have MSDS for all chemicals prior to starting work.)

1. MIRU. Control well with recycled water and biocide as required. ND WH, NU BOP's and test.
2. If the tubing is below the proposed CBP depth, TOO with 2-3/8", 4.7#, J-55 (or N-80) tubing (currently landed at ~9460'). Visually inspect for scale and consider replacing if needed.
3. The tbg looks ok consider running a gauge ring to 7650 (50' below proposed CBP). Otherwise P/U a mill and C/O to 7650 (50' below proposed CBP).
4. Set 8000 psi CBP at ~ 7600'. ND BOPs and NU frac valves. Test frac valves and casing to 1000 and 3500 psi for 15 minutes each and to 6200 psi for 30 minutes; if pressure test fails contact Denver engineer and see notes. As per standard operating procedure install steel blowdown line to reserve pit from 4-1/2" X 9-5/8" annulus. Lock **OPEN** the Braden head valve. Annulus will be monitored throughout stimulation. If release occurs, stimulation will

be shut down. Well conditions will be assessed and actions taken as necessary to secure the well. UDOGM will be notified if a release to the annulus occurs.

5. Perf the following with 3-3/8" gun, 23 gm, 0.36"hole:

Zone	From	To	spf	# of shots
WASATCH	7352	7353	3	3
WASATCH	7372	7373	3	3
WASATCH	7436	7437	3	3
WASATCH	7485	7486	3	3
WASATCH	7514	7515	4	4
WASATCH	7572	7573	3	3
WASATCH	7582	7583	4	4

6. Breakdown perfs and establish injection rate (include scale inhibitor in fluid). Spot 250 gals of 15% HCL and let soak 5-10 min. Fracture as outlined in Stage 1 on attached listing. Under-displace to ~7,352' and trickle 250gal 15%HCL w/ scale inhibitor in flush.

NOTE: TIGHT SPACING THIS STAGE, OVERFLUSH BY 5BBLs

7. Set 8000 psi CBP at ~7,328'. Perf the following 3-3/8" gun, 23 gm, 0.36"hole:

Zone	From	To	spf	# of shots
WASATCH	7120	7121	3	3
WASATCH	7189	7190	3	3
WASATCH	7239	7240	3	3
WASATCH	7251	7252	3	3
WASATCH	7268	7269	3	3
WASATCH	7296	7298	3	6

8. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 2 on attached listing. Under-displace to ~7,120' and trickle 250gal 15%HCL w/ scale inhibitor in flush.

NOTE: TIGHT SPACING THIS STAGE, OVERFLUSH BY 5BBLs

9. Set 8000 psi CBP at ~7,078'. Perf the following with 3-3/8" gun, 23 gm, 0.36" hole:

Zone	From	To	spf	# of shots
WASATCH	6920	6921	3	3
WASATCH	6951	6952	3	3
WASATCH	6983	6984	3	3
WASATCH	7005	7006	3	3
WASATCH	7020	7021	3	3
WASATCH	7031	7032	3	3
WASATCH	7046	7048	3	6

10. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 3 on attached listing. Under-displace to ~6,920' and trickle 250gal 15%HCL w/ scale inhibitor in flush.

11. Set 8000 psi CBP at ~6,844'. Perf the following with 3-3/8" gun, 23 gm, 0.36" hole:

Zone	From	To	spf	# of shots
WASATCH	6579	6580	4	4
WASATCH	6733	6735	4	8
WASATCH	6750	6751	4	4
WASATCH	6792	6794	4	8

12. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 4 on attached listing. Under-displace to ~6,579' and trickle 250gal 15%HCL w/ scale inhibitor in flush.

NOTE: TIGHT SPACING THIS STAGE, OVERFLUSH BY 5BBLs

13. Set 8000 psi CBP at ~6,568'. Perf the following with 3-3/8" gun, 23 gm, 0.36" hole:

Zone	From	To	spf	# of shots
WASATCH	6324	6326	4	8
WASATCH	6470	6472	4	8
WASATCH	6546	6548	4	8

14. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 5 on attached listing. Under-displace to ~6,324' and trickle 250gal 15%HCL w/ scale inhibitor in flush.

15. Set 8000 psi CBP at ~6,083'. Perf the following with 3-3/8" gun, 23 gm, 0.36" hole:

Zone	From	To	spf	# of shots
WASATCH	6014	6017	3	9
WASATCH	6028	6033	3	15

16. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 6 on attached listing. Under-displace to ~6,014' and trickle 250gal 15%HCL w/ scale inhibitor in flush.

17. Set 8000 psi CBP at ~5,451'. Perf the following with 3-3/8" gun, 23 gm, 0.36" hole:

Zone	From	To	spf	# of shots
WASATCH	5394	5401	3	21

18. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 7 on attached listing. Under-displace to ~5,394' and flush only with recycled water.

19. Set 8000 psi CBP at ~5,344'.

20. ND Frac Valves, NU and Test BOPs.

21. TIH with 3 7/8" mill, pump open sub, XN nipple and tubing.

22. Mill 7 plugs and clean out to a depth of 7590'. Depending on wells performance (contact Denver Engineer) either continue with step 23 or 24.

23. Land tubing at 7325', drop ball and pump open sub. Flow back completion load. RDMO

24. MIRU, POOH tbg and mill. TIH with POBS and mill.

25. Mill last plug @ 7600' clean out to PBTD at 10013'. Land tubing at ±9460' pump off bit and bit sub.

26. Clean out well with foam and/or swabbing unit until steady flow has been established from completion.

27. **Leave surface casing valve open.** Monitor and report any flow from surface casing. RDMO

**For design questions, please call
Zachary Garrity, Denver, CO**

(720)-929-6180 (Office)
(406)-781-6427 (Cell)

For field implementation questions, please call
Jeff Samuels, Vernal, UT
(435)-781-7046 (Office)

NOTES:

TIGHT SPACING ON STAGE 1, 2, and 4; OVERFLUSH BY 5 BBLs

If using any chemicals for pickling tubing or H2S Scavenging, have MSDS for all chemicals prior to starting work

Verify that the Braden head valve is locked OPEN.

Key Contact information

Completion Engineer

Zachary Garrity: 406-781-6427, 720-929-6180

Production Engineer

Brad Laney: 435/781-7031, 435/828-5469

Jordan Portillo: 435/781-9785, 435/828-6221

Laura M. Wellman: 435/781-9748, 435/322-0118

Completion Supervisor Foreman

Jeff Samuels: 435-828-6515, 435-781-7046

Completion Manager

Jeff Dufresne: 720-929-6281, 303-241-8428

Vernal Main Office

435-789-3342

Emergency Contact Information—Call 911

Vernal Regional Hospital Emergency: 435-789-3342

Police: (435) 789-5835

Fire: 435-789-4222

Acid Pickling and H2S Procedures (If Required)

****PROCEDURE FOR PUMPING ACID DOWN TBG**

WHEN FINDING SCALE IN TUBING THAT IS ACID SOLUBLE, ENSURE THAT PLUNGER EQUIPMENT IS REMOVED AND ABLE TO PUMP DOWN TBG. INSTALL A 'T' IN PUMP LINE W/2" VALVE THAT NALCO CAN TIE INTO. HAVE 60 BBL 2% KCL MIXED W/ 10-15 GAL H2S SCAVENGER IN RIG FLAT TANK. (WE USED THE RIG FLAT TANK FOR MIXING CHEMICAL SO WE DIDN'T HAVE THE CHEMICAL IN ALL FLUIDS ON LOCATION, ONLY WHAT WE NEEDED TO PUMP DOWN HOLE)

1. PUMP 5-10 BBL 2% KCL DOWN TBG (NALCO CANNOT PUMP AGAINST PRESSURE)
2. NALCO WILL PUMP 3 DRUMS HCL (31%) INTO PUMP LINE.
3. FLUSH BEHIND ACID WITH 10-15 BBL 2% KCL
4. PUMP 2—30 BBL 2% W/ H2S SCAVENGER DOWN TBG.
5. PUMP REMAINDER OF 2% W/ H2S SCAVENGER DOWN CASING AND SHUT WELL IN FOR MINIMUM OF 2 HRS.
6. OVER DISPLACE DOWN TBG AND CSG TO FLUSH ACID AND SCAVENGER INTO FORMATION
7. MONITOR TUBING FOR FLOW AND CASING FOR H2S NOW AS POOH W/ TUBING.

**** PROCEDURE FOR PUMPING H2S SCAVENGER WITHOUT ACID**

PRIOR TO RIG MOVING ON OR AS RIG PULLS ONTO LOCATION. TEST CASING, TUBING AND SEPARATOR FOR H2S. IF FOUND MAKE SURE THAT PLUNGER SYSTEM IS REMOVED (IT IS POSSIBLE TO PUMP AROUND PLUNGERS BUT SOME WILL HAVE A STANDING VALVE IN SEATING NIPPLE).

1. MIX 10-15 GAL H2S SCAVENGER WITH 60-100 BBL 2% KCL IN RIG FLAT TANK.
2. PUMP 25 BBL MIXTURE DOWN TUBING AND REST DOWN CASING. SHUT WELL IN FOR 2 HOURS.
3. IF WELL HAS PRESSURE AFTER 2 HOURS – RETEST CASING AND TUBING FOR H2S.
4. FLUSH TUBING AND CASING PUSHING H2S SCAVENGER INTO FORMATION.
5. MONITOR TUBING FOR FLOW AND CASING FOR H2S NOW AS POOH W/ TUBING.

** As per APC standard operating procedure, APC foreman will verify ALL volumes pumped and record on APC Volume Report Form

Name NBU 921-26D1CS
Perforation and CBP Summary

Stage	Zones	Perforations		SPF	Holes	Fracture Coverage		
		Top, ft	Bottom, ft					
1	WASATCH	7352	7353	3	3	7352	to	7358.5
	WASATCH	7372	7373	3	3	7360.5	to	7363
	WASATCH	7436	7437	3	3	7368.5	to	7374
	WASATCH	7485	7486	3	3	7432	to	7439
	WASATCH	7514	7515	4	4	7476	to	7479.5
	WASATCH	7572	7573	3	3	7482.5	to	7487.5
	WASATCH	7582	7583	4	4	7509	to	7521
	# of Perfs/stage				23	CBP DEPTH	7,328	
2	WASATCH	7120	7121	3	3	7111	to	7118.5
	WASATCH	7189	7190	3	3	7163	to	7168
	WASATCH	7239	7240	3	3	7188	to	7201
	WASATCH	7251	7252	3	3	7237.5	to	7241
	WASATCH	7268	7269	3	3	7248	to	7254.5
	WASATCH	7296	7298	3	6	7259	to	7261.5
	# of Perfs/stage				21	CBP DEPTH	7,078	
3	WASATCH	6920	6921	3	3	6919	to	6923.5
	WASATCH	6951	6952	3	3	6948.5	to	6954.5
	WASATCH	6983	6984	3	3	6983	to	6986.5
	WASATCH	7005	7006	3	3	7001.5	to	7007
	WASATCH	7020	7021	3	3	7018.5	to	7022.5
	WASATCH	7031	7032	3	3	7027.5	to	7034
	WASATCH	7046	7048	3	6	7042	to	7051
	# of Perfs/stage				24	CBP DEPTH	6,844	
4	WASATCH	6579	6580	4	4	6576	to	6585
	WASATCH	6733	6735	4	8	6728.5	to	6737.5
	WASATCH	6750	6751	4	4	6787	to	6803
	WASATCH	6792	6794	4	8			
	# of Perfs/stage				24	CBP DEPTH	6,568	
5	WASATCH	6324	6326	4	8	6322.5	to	6330.5
	WASATCH	6470	6472	4	8	6468	to	6478
	WASATCH	6546	6548	4	8	6544	to	6549.5
	# of Perfs/stage				24	CBP DEPTH	6,083	
6	WASATCH	6014	6017	3	9	6010	to	6019.5
	WASATCH	6028	6033	3	15	6020.5	to	6040
	# of Perfs/stage				24	CBP DEPTH	5,451	
7	WASATCH	5394	5401	3	21	5392.5	to	5415
		# of Perfs/stage			21	CBP DEPTH	5,344	
	Totals				161			

Fracturing Schedules

Name NBU 921-26D1CE

Slickwater Frac

Copy to new book

Casing Size	4.5
Recomplete?	Y
Pad?	Y
ACTS?	N

Swabbing Days	3
Production Log	0
DFIT	0

Enter Number of swabbing days here for recompletes

Enter 1 if running a Production Log

Enter Number of DFITs

Stage	Zone	Perfs Top, ft	Perfs Bot, ft	SPF	Holes	Rate BPM	Fluid Type	Initial ppg	Final ppg	Fluid	Volume gals	Cum Vol gals	Volume BBLs	Cum Vol BBLs	Fluid % of frac	Sand % of frac	Sand lbs	Cum. Sand lbs	Footage from CBP to Flush	Scale Inhib., gal.
1	WASATCH	7352	7353	3	3	Varied	Pre-Pad & Pump-in test			Slickwater	4,799	4,799	114	114						
	WASATCH	7372	7373	3	3	0	ISIP and 5 min ISIP			Slickwater										
	WASATCH	7436	7437	3	3	50	Slickwater Pad			Slickwater	3,611	8,410	86	200	15.0%	0.0%	0	0		2
	WASATCH	7485	7486	3	3	50	Slickwater Ramp	0.25	1	Slickwater	12,036	20,446	287	487	50.0%	37.3%	7,523	7,523		6
	WASATCH	7514	7515	4	4	50	Slickwater Ramp	1	2	Slickwater	8,425	28,871	201	687	35.0%	62.7%	12,638	20,160		4
	WASATCH	7572	7573	3	3	50	Flush (4-1/2)			Slickwater	4,799	33,671	114	802				20,160		2
	WASATCH	7582	7583	4	4		ISDP and 5 min ISDP			Slickwater										0
	WASATCH																	20,160		0
	WASATCH																			0
	WASATCH																			0
	WASATCH																			0
	WASATCH																			14
										Sand laden Volume		24,072								
																	80,000			
																		7,328		
																			24	
						16.0	<< Above pump time (min)													
2	WASATCH	7120	7121	3	3	Varied	Pump-in test			Slickwater		0	0	0						
	WASATCH	7189	7190	3	3	0	ISIP and 5 min ISIP			Slickwater										
	WASATCH	7239	7240	3	3	50	Slickwater Pad			Slickwater	3,053	3,053	73	73	15.0%	0.0%	0	0		2
	WASATCH	7251	7252	3	3	50	Slickwater Ramp	0.25	1	Slickwater	10,176	13,229	242	315	50.0%	37.3%	6,360	6,360		5
	WASATCH	7268	7269	3	3	50	Slickwater Ramp	1	2	Slickwater	7,123	20,352	170	485	35.0%	62.7%	10,685	17,045		4
	WASATCH	7296	7298	3	6	50	Flush (4-1/2)			Slickwater	4,648	25,000	111	595				17,045		2
	WASATCH						ISDP and 5 min ISDP													0
	WASATCH																			0
	WASATCH																			0
	WASATCH																			0
	WASATCH																			13
																	955,496			
																		7,078		
																			42	
						11.9	<< Above pump time (min)													
3	WASATCH	6920	6921	3	3	Varied	Pump-in test			Slickwater		0	0	0						
	WASATCH	6951	6952	3	3	0	ISIP and 5 min ISIP			Slickwater										
	WASATCH	6983	6984	3	3	50	Slickwater Pad			Slickwater	3,072	3,072	73	73	15.0%	0.0%	0	0		2
	WASATCH	7005	7006	3	3	50	Slickwater Ramp	0.25	1	Slickwater	10,241	13,314	244	317	50.0%	37.3%	6,401	6,401		5
	WASATCH	7020	7021	3	3	50	Slickwater Ramp	1	2	Slickwater	7,169	20,483	171	488	35.0%	62.7%	10,753	17,154		4
	WASATCH	7031	7032	3	3	50	Flush (4-1/2)			Slickwater	4,517	25,000	108	595				17,154		2
	WASATCH	7046	7048	3	6		ISDP and 5 min ISDP													0
	WASATCH																			0
	WASATCH																			0
	WASATCH																			0
	WASATCH																			13
																	353,149			
																		6,844		
																			76	
						11.9	<< Above pump time (min)													
4	WASATCH	6579	6580	4	4	Varied	Pump-in test			Slickwater		0	0	0						
	WASATCH	6733	6735	4	8	0	ISIP and 5 min ISIP			Slickwater										
	WASATCH	6750	6751	4	4	50	Slickwater Pad			Slickwater	3,606	3,606	86	86	15.0%	0.0%	0	0		2
	WASATCH	6792	6794	4	8	50	Slickwater Ramp	0.25	1	Slickwater	12,020	15,625	286	372	50.0%	37.3%	7,512	7,512		6
	WASATCH					50	Slickwater Ramp	1	2	Slickwater	8,414	24,039	200	572	35.0%	62.7%	12,620	20,133		4
	WASATCH					50	Flush (4-1/2)			Slickwater	4,295	28,334	102	675				20,133		2
	WASATCH						ISDP and 5 min ISDP													0
	WASATCH																			0
	WASATCH																			0
	WASATCH																			0
	WASATCH																			14
																	30,000			
																		6,568		
																			11	
						13.5	<< Above pump time (min)													

NBU 921-26D1CS DIRECTIONAL SURVEY												
MD	TVD	EW	NS	INC	AZI		MD	TVD	EW	NS	INC	AZI
0	0	0.0	0.0	0.0	0.0		4243	4203	-374.3	128.6	14.2	294.9
170	170	-0.2	0.3	0.3	325.9		4334	4291	-395.8	138.3	15.8	293.9
260	260	-0.3	0.4	0.1	169.5		4425	4379	-417.5	147.3	14.1	291.0
350	350	-0.4	0.5	0.4	332.7		4515	4466	-438.4	155.6	14.8	292.5
440	440	-1.3	1.0	1.1	286.5		4606	4554	-460.9	164.9	16.2	292.6
530	530	-3.5	1.4	1.7	276.1		4696	4640	-483.5	173.4	15.0	288.5
620	620	-7.0	1.9	2.8	280.7		4787	4728	-505.7	181.1	15.0	289.6
710	710	-11.5	3.0	3.2	284.3		4877	4815	-527.1	189.3	14.5	292.4
800	800	-16.2	3.8	2.9	275.8		4968	4903	-548.4	198.6	15.0	294.9
890	890	-20.5	3.8	2.6	263.7		5058	4990	-570.2	209.1	16.1	296.6
980	979	-24.3	3.6	2.3	269.0		5149	5078	-592.9	220.0	16.0	294.4
1070	1069	-27.5	3.3	1.9	259.8		5240	5165	-614.7	229.6	14.6	293.3
1160	1159	-30.1	3.9	1.8	309.1		5330	5253	-633.7	238.1	12.1	295.1
1250	1249	-32.3	5.4	1.8	299.8		5421	5342	-649.1	244.8	9.1	291.2
1340	1339	-34.6	6.6	1.4	293.7		5511	5431	-660.7	248.5	6.5	282.4
1430	1429	-36.6	7.5	1.4	296.7		5602	5522	-668.4	249.3	3.4	263.4
1520	1519	-38.2	8.8	1.3	318.7		5692	5612	-671.5	248.9	0.6	256.9
1610	1609	-39.6	10.0	1.1	299.2		5783	5703	-672.3	248.4	0.6	229.1
1700	1699	-41.0	11.4	1.6	326.8		5873	5793	-672.9	247.7	0.7	209.1
1790	1789	-43.0	13.2	1.9	299.5		5964	5884	-673.4	246.7	0.6	206.2
1880	1879	-45.1	14.4	1.2	298.3		6055	5975	-673.6	245.6	0.9	181.8
1970	1969	-47.0	15.4	1.4	298.0		6146	6066	-673.9	245.2	0.5	315.5
2060	2059	-49.1	16.2	1.6	285.1		6236	6156	-674.6	245.7	0.5	299.8
2150	2149	-51.2	16.6	1.1	272.0		6327	6247	-675.3	245.9	0.4	265.2
2240	2239	-52.9	16.6	1.0	266.6		6417	6337	-676.3	246.9	1.6	328.5
2330	2329	-54.3	16.4	0.9	263.6		6508	6428	-677.5	248.9	1.3	328.8
2410	2409	-55.8	16.5	1.3	276.1		6598	6518	-678.4	250.2	0.8	318.4
2470	2469	-57.2	16.7	1.5	285.5		6689	6609	-678.9	250.8	0.3	315.4
2523	2522	-58.6	16.6	1.6	244.7		6779	6699	-679.2	251.0	0.1	288.9
2613	2612	-61.5	15.7	2.3	258.8		6870	6790	-679.3	250.8	0.3	169.5
2704	2703	-66.6	16.3	4.3	286.6		6961	6881	-679.3	250.4	0.1	217.7
2794	2792	-74.3	19.1	6.1	291.6		7051	6971	-679.4	250.0	0.5	184.4
2885	2883	-83.5	22.5	6.2	289.6		7142	7062	-679.6	249.5	0.3	251.0
2975	2972	-93.4	26.5	7.4	293.5		7232	7152	-679.5	249.6	0.5	75.2
3066	3062	-104.6	31.2	7.9	292.4		7323	7243	-678.7	249.7	0.5	90.7
3157	3152	-117.5	35.7	9.5	286.2		7413	7333	-678.5	250.2	0.7	333.3
3247	3241	-133.8	40.9	12.4	289.5		7504	7424	-678.9	251.1	0.6	342.5
3338	3329	-153.9	48.0	14.8	289.1		7594	7514	-679.0	251.9	0.4	2.7
3428	3416	-176.2	55.6	15.6	288.4		7685	7605	-679.0	252.4	0.2	0.4
3519	3504	-199.0	63.4	15.2	289.6		7775	7695	-679.0	252.3	0.2	190.0
3609	3591	-221.2	71.6	15.3	290.9		7866	7786	-679.0	251.3	1.0	175.5
3700	3678	-244.1	80.3	16.0	290.8		7957	7877	-678.5	249.9	1.0	140.5
3791	3766	-267.0	88.7	15.1	289.4		8047	7967	-677.6	249.8	0.7	39.0
3881	3853	-289.4	96.5	15.6	289.1		8138	8058	-676.6	250.7	1.0	53.6
3972	3940	-312.8	104.5	15.9	288.3		8228	8148	-676.3	251.5	0.6	324.4
4062	4027	-334.5	112.3	13.9	291.9		8272	8192	-676.6	251.8	0.5	316.0
4153	4116	-354.5	120.2	13.5	291.0		10070	9990	-688.1	263.8	0.5	316.0

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS		5. LEASE DESIGNATION AND SERIAL NUMBER: UO 01194
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
1. TYPE OF WELL Gas Well		8. WELL NAME and NUMBER: NBU 921-26D1CS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		9. API NUMBER: 43047503620000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6511	9. FIELD and POOL or WILDCAT: NATURAL BUTTES
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0836 FNL 1648 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENW Section: 26 Township: 09.0S Range: 21.0E Meridian: S	COUNTY: UINTAH	
	STATE: 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"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input checked="" type="checkbox"/> DRILLING REPORT Report Date: 2/20/2013	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PLUG BACK <input checked="" type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> WILDCAT WELL DETERMINATION <input type="checkbox"/> OTHER	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. The subject well was placed on production on 2/20/2013. The Chronological Well History will be submitted with the well completion report.		
		Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY March 14, 2013
NAME (PLEASE PRINT) Laura Abrams	PHONE NUMBER 720 929-6356	TITLE Regulatory Analyst II
SIGNATURE N/A	DATE 3/14/2013	

RECEIVED

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

MAR 27 2013
DIV. OF OIL, GAS & MINING

AMENDED REPORT FORM 8
(highlight changes)

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL: OIL WELL [] GAS WELL [x] DRY [] OTHER []
b. TYPE OF WORK: NEW WELL [] HORIZ. LATS. [] DEEP-EN [] RE-ENTRY [] DIFF. RESVR. [x] OTHER RECOMPLETION

2. NAME OF OPERATOR: KERR MCGEE OIL & GAS ONSHORE, L.P.

3. ADDRESS OF OPERATOR: P.O. BOX 173779 CITY DENVER STATE CO ZIP 80217
PHONE NUMBER: (720) 929-6000

4. LOCATION OF WELL (FOOTAGES)
AT SURFACE: NENW 836 FNL 1648 FWL S26,T9S,R21E
AT TOP PRODUCING INTERVAL REPORTED BELOW: NWNW 591 FNL 999 FWL S26,T9S,R21E
AT TOTAL DEPTH: NWNW 572 FNL 960 FWL S26,T9S,R21E

5. LEASE DESIGNATION AND SERIAL NUMBER: UO-01194

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT or CA AGREEMENT NAME: UTU63047A

8. WELL NAME and NUMBER: NBU 921-26D1CS

9. API NUMBER: 4304750362

10. FIELD AND POOL, OR WILDCAT: NATURAL BUTTES

11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NENW 26 9S 21E S

12. COUNTY: UINTAH 13. STATE: UTAH

14. DATE SPUDDED: 8/22/2009 15. DATE T.D. REACHED: 11/29/2009 16. DATE COMPLETED: 2/20/2013
ABANDONED [] READY TO PRODUCE [x]

17. ELEVATIONS (DF, RKB, RT, GL): 4984 RKB

18. TOTAL DEPTH: MD 10,070 TVD 9,990

19. PLUG BACK T.D.: MD 10,014 TVD 9,934

20. IF MULTIPLE COMPLETIONS, HOW MANY? *

21. DEPTH BRIDGE MD PLUG SET: TVD

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)

23. WAS WELL CORED? NO [] YES [] (Submit analysis)
WAS DST RUN? NO [] YES [] (Submit report)
DIRECTIONAL SURVEY? NO [] YES [] (Submit copy)

24. CASING AND LINER RECORD (Report all strings set in well)

Table with columns: HOLE SIZE, SIZE/GRADE, WEIGHT (#/ft.), TOP (MD), BOTTOM (MD), STAGE CEMENTER DEPTH, CEMENT TYPE & NO. OF SACKS, SLURRY VOLUME (BBL), CEMENT TOP **, AMOUNT PULLED

25. TUBING RECORD

Table with columns: SIZE, DEPTH SET (MD), PACKER SET (MD)

26. PRODUCING INTERVALS

Table with columns: FORMATION NAME, TOP (MD), BOTTOM (MD), TOP (TVD), BOTTOM (TVD)

27. PERFORATION RECORD

Table with columns: INTERVAL (Top/Bot - MD), SIZE, NO. HOLES, PERFORATION STATUS

28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.

Table with columns: DEPTH INTERVAL, AMOUNT AND TYPE OF MATERIAL

29. ENCLOSED ATTACHMENTS:

Form with checkboxes for: ELECTRICAL/MECHANICAL LOGS, GEOLOGIC REPORT, DST REPORT, DIRECTIONAL SURVEY, SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION, CORE ANALYSIS, OTHER:

30. WELL STATUS:

PROD

31. INITIAL PRODUCTION

INTERVAL A (As shown in item #26)

DATE FIRST PRODUCED: 2/20/2013		TEST DATE: 3/4/2013		HOURS TESTED: 24		TEST PRODUCTION RATES: →	OIL - BBL: 4	GAS - MCF: 460	WATER - BBL: 17	PROD. METHOD: FLOWING
CHOKE SIZE: 30/64	TBG. PRESS. 128	CSG. PRESS. 567	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL - BBL: 4	GAS - MCF: 460	WATER - BBL: 17	INTERVAL STATUS: PROD

INTERVAL B (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS:

INTERVAL C (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS:

INTERVAL D (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS:

32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)

SOLD

33. 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.

34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
				GREEN RIVER	1,546
				BIRD'S NEST	1,761
				MAHOGANY	2,373
				WASATCH	4,944
				MESAVERDE	7,800

35. ADDITIONAL REMARKS (Include plugging procedure)

Attached is the recompletion history and perforation report. Casing in the well is as previously reported on the original Completion Report. New recompletion perforations are: Wasatch 5394-7583; existing perforations: Wasatch 7614-7692 & Mesaverde 7688-9949. The Iso plug separating new perforations from old perforations was drilled out on 2/26/2013. Test information is production from all Wasatch/Mesaverde perforations.

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

NAME (PLEASE PRINT) Laura Abrams

TITLE Regulatory Analyst II

SIGNATURE 

DATE 3/20/2013

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

** ITEM 24: Cement Top-- Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 921-26D1CS (RED)	Spud Conductor: 8/22/2009	Spud Date: 8/24/2009
Project: UTAH-UINTAH	Site: NBU 921-26C PAD	Rig Name No:
Event: RECOMPL/RESEREVEADD	Start Date: 1/16/2013	End Date: 2/26/2013
Active Datum: RKB @4,984.00usft (above Mean Sea Level)	UWI: NE/NW0/9/S/21/E/26/0/0/6/PM/N/836.00/W/0/1,648.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
1/23/2013	9:00 - 12:00	3.00		30	A	P		RIG UP, SICP & SITP 118 PSI, BLEW WELL DWN, ND WH NU BOPS RU FLOOR & TBG EQUIP.
	12:00 - 17:00	5.00		31	I	P		UNLAND TBG, L/D HANGER, RU SCAN TECH, L/D, SCAN, S.L.M. 156 JTS 23/8 L-80, SWI DRAIN EQUIP SDFN.
1/24/2013	7:00 - 7:30	0.50		48		P		HSM, DURING THR NIGHT JD WTR TRK HIT GUY WIRE, NEED TO HAVE SPOTTERS FOR BACKING UP TRUCKS.
	7:30 - 11:00	3.50		31	I	P		SICP & SITP 600 PSI, OPEN CSG TO FB TNK, KILL TBG W/ 20 BBLS T-MAC, L/D SCAN & S.L.M REM 143 JTS 23/8 L-80, HAD 234 YELLOW, 43 BLUE, 22 RED. LIGHT SCALE IN ID JT 22-35, LIGHT SCALE IN ID JT 68-177, LIGHT SCALE JT 234-240, HEAVEY SCALE ON OD 241-243, MEDIUM SCALE ON OD 244-252, LIGHT SCALE ON OD 253-275. RD SCAN TECH.
	11:00 - 17:00	6.00		34	I	P		TOTAL 299 JTS 23/8 L-80, 9449.80' 234 YELLOW, 43 BLUE, 8759.00' TBG ON SEALS ON 921-26D PAD SEALS ARE PAINTED RED. 22 RED 690.80' HAULED TO SAMEULS YARD SOME NORM.
								RU CUTTERS, RIH W/ 41/2 GAUGE RING TAG UP @ TOP PERF @ 7614', POOH RIH SET 41/2 8K HAL CBP @ 7600', POOH RD CUTTERS.RD FLOOR, ND BOPS NU SLEVE & FV, FILL & TEST CSG & FV TO 6205 PSI W/ CAMERON FOR 15 MIN, W/ LOST 95 PSI. RD CAMERON, SWI. RIG DOWN RIG RACK OUT PUMP & LINES PREP TO MOVE IN AM, SDFN.
1/28/2013	7:00 - 13:00	6.00	SUBSPR	37		P		PERF STG 1)PU 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH PERF AS PER PERF DESIGN. POOH. SWFW
1/29/2013	7:00 - 7:30	0.50	FRAC	48	B	P		HELD SAFETY MEETING : HIGH PRESSURE PRESSURE TESTED PUMP & LINES TO 7200 PSI LOST 200 PSI 5 MIN

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 921-26D1CS (RED)		Spud Conductor: 8/22/2009	Spud Date: 8/24/2009
Project: UTAH-UINTAH		Site: NBU 921-26C PAD	Rig Name No:
Event: RECOMPL/RESEREVEADD		Start Date: 1/16/2013	End Date: 2/26/2013
Active Datum: RKB @4,984.00usft (above Mean Sea Level)		UWI: NE/NW0/9/S/21/E/26/0/0/6/PM/N/836.00/W/0/1,648.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	7:30 - 18:00	10.50	FRAC	36	B	P		<p>FRAC STG 1)WHP 608 PSI, BRK 4171 PSI @ 6.5 BPM. ISIP 2726 PSI, FG .80. CALC HOLES OPEN @ 38.0 BPM @ 5660 PSI = 61% HOLES OPEN. (14/23 HOLES OPEN) ISIP 2471 PSI, FG .77, NPI -255 PSI. MP 5954 PSI, MR 48.6 BPM, AP 55470 PSI, AR 39.1 BPM PUMPED 30/50 OTTAWA SAND IN THIS STAGE X-OVER FOR WL</p> <p>PERF STG 2)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 7328' P/U PERF AS PER PERF DESIGN. POOH. X-OVER FOR FRAC CREW</p> <p>FRAC STG 2)WHP 732 PSI, BRK 4270 PSI @ 4.5 BPM. ISIP 2276 PSI, FG .75. CALC HOLES OPEN @ 27.2 BPM @ 5369 PSI = 62% HOLES OPEN. (13/21 HOLES OPEN) ISIP 2128 PSI, FG .73, NPI -148 PSI. MP 6042 PSI, MR 41.3 BPM, AP 5254 PSI, AR 30.5 BPM PUMPED 30/50 OTTAWA SAND IN THIS STAGE X-OVER FOR WL</p> <p>PERF STG 3)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 7078' P/U PERF AS PER PERF DESIGN. POOH. X-OVER FOR FRAC CREW</p> <p>FRAC STG 3)WHP 1355 PSI, BRK 2461 PSI @ 4.2 BPM. ISIP 2030 PSI, FG .73. CALC HOLES OPEN @ 49.1 BPM @ 4640 PSI = 88% HOLES OPEN. (21/24 HOLES OPEN) ISIP 1924 PSI, FG .71, NPI -106 PSI. MP 4760 PSI, MR 51.6 BPM, AP 4218 PSI, AR 49.7 BPM PUMPED 30/50 OTTAWA SAND IN THIS STAGE X-OVER FOR WL</p> <p>PERF STG 4)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 6844' P/U PERF AS PER PERF DESIGN. POOH. X-OVER FOR FRAC CREW</p> <p>FRAC STG 4)WHP 1076 PSI, BRK 2058 PSI @ 4.0 BPM. ISIP 1632 PSI, FG .68. CALC HOLES OPEN @ 51.3 BPM @ 4108 PSI = 96% HOLES OPEN. (23/24 HOLES OPEN) ISIP 1618 PSI, FG .68, NPI -14 PSI. MP 4145 PSI, MR 51.6 BPM, AP 3799 PSI, AR 50.3 BPM PUMPED 30/50 OTTAWA SAND IN THIS STAGE X-OVER FOR WL</p> <p>PERF STG 5)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN,</p>

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 921-26D1CS (RED)		Spud Conductor: 8/22/2009		Spud Date: 8/24/2009	
Project: UTAH-UINTAH		Site: NBU 921-26C PAD		Rig Name No:	
Event: RECOMPL/RESEREVEADD		Start Date: 1/16/2013		End Date: 2/26/2013	
Active Datum: RKB @4,984.00usft (above Mean Sea Level)			UWI: NE/NW/0/9/S/21/E/26/0/0/6/PM/N/836.00/W/0/1,648.00/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
1/30/2013	7:00 - 18:00	11.00	FRAC	36	B	P		<p>23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 6568' P/U PERF AS PER PERF DESIGN. POOH.</p> <p>SWIFN</p> <p>FRAC STG 5)WHP 644 PSI, BRK 1626 PSI @ 3.7 BPM. ISIP 1113 PSI, FG .61.</p> <p>CALC HOLES OPEN @ 51.6 BPM @ 4372 PSI = 75% HOLES OPEN. (18/24 HOLES OPEN)</p> <p>ISIP 1115 PSI, FG .61, NPI 2 PSI.</p> <p>MP 4467 PSI, MR 52.0 BPM, AP 3908 PSI, AR 49.0 BPM</p> <p>PUMPED 30/50 OTTAWA SAND IN THIS STAGE X-OVER FOR WL</p> <p>PERF STG 6)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 6083' P/U PERF AS PER PERF DESIGN. POOH. X-OVER FOR FRAC CREW</p> <p>FRAC STG 6)WHP 453 PSI, BRK 1377 PSI @ 4.8 BPM. ISIP 915 PSI, FG .59.</p> <p>CALC HOLES OPEN @ 49.9 BPM @ 3325 PSI = 88% HOLES OPEN. (21/24 HOLES OPEN)</p> <p>ISIP 1011 PSI, FG .61, NPI 96 PSI.</p> <p>MP 3852 PSI, MR 50.3 BPM, AP 3280 PSI, AR 48.4 BPM</p> <p>PUMPED 30/50 OTTAWA SAND IN THIS STAGE X-OVER FOR WL</p> <p>PERF STG 7)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 5451' P/U PERF AS PER PERF DESIGN. POOH. X-OVER FOR FRAC CREW</p> <p>FRAC STG 7)WHP 14 PSI, BRK 1554 PSI @ 1.8 BPM. ISIP 4621 PSI, FG .55.</p> <p>CALC HOLES OPEN @ 46.3 BPM @ 4621 PSI = 76% HOLES OPEN. (16/21 HOLES OPEN)</p> <p>ISIP 1437 PSI, FG .70, NPI 848 PSI.</p> <p>MP 4277 PSI, MR 51.1 BPM, AP 3731 PSI, AR 50.3 BPM</p> <p>PUMPED 30/50 OTTAWA SAND IN THIS STAGE X-OVER FOR WL</p> <p>RIH SET CBP @ 5344' POOH. SWI</p> <p>TOTAL SAND= 130,006 # 30/50 OTTAWA MESH TOTAL CLFL= 4,552 BBLS</p>
1/31/2013	12:00 - 18:30	6.50		30	A	P		MIRU F/ NBU 920-20B, ND WH NU BOPS, RU FLOOR & EQUIP. LOAD TBG ON TRAILOR.
2/1/2013	7:00 - 7:30	0.50		48		P		HSM,
	7:30 - 15:00	7.50	DRLOUT	31	I	P		TALLY & PU 37/8 BIT PUMP OPEN SUB & 166 JTS 23/8 YELLOW L-80 TBG TO KILL PLUG @ 5344', RU DRLG EQUIP PREP TO D/O 2/4/13, SWI SDFWE
2/4/2013	7:00 - 7:30	0.50	DRLOUT	48		P		HSM, WORKING W/ POWER SWMVEL DRILLING PLUGS.

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 921-26D1CS (RED)		Spud Conductor: 8/22/2009		Spud Date: 8/24/2009	
Project: UTAH-UINTAH		Site: NBU 921-26C PAD		Rig Name No:	
Event: RECOMPL/RESEREVEADD		Start Date: 1/16/2013		End Date: 2/26/2013	
Active Datum: RKB @4,984.00usft (above Mean Sea Level)			UWI: NE/NW/0/9/S/21/E/26/0/0/6/PM/N/836.00/W/0/1,648.00/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	7:30 - 18:30	11.00	DRLOUT	44	C	P		<p>6 DEGS, BROKE CIRC CON, TEST BOPS TO 4,000# RAMS LEAKING, CHANGED RAMS, RIH.</p> <p>C/O 20' SAND TAG 1ST PLG @ 5344' DRL PLG IN 3 MINS, 0 PSI INCREASE RIH.</p> <p>C/O 20' SAND TAG 2ND PLG @ 5451' DRL PLG IN 2 MINS, 0 PSI INCREASE RIH VACUME BLEW WELL AROUND W/ GAS CIRC UNIT.</p> <p>C/O 40' SAND TAG 3RD PLG @ 6083' DRL PLG IN 3 MINS, 0 PSI INCREASE RIH</p> <p>C/O 60' SAND TAG 4TH PLG @ 6568' DRL PLG IN 3 MINS, 0 PSI INCREASE RIH</p> <p>C/O 30' SAND TAG 5TH PLG @ 6844' DRL PLG IN 2 MINS, 0 PSI INCREASE RIH</p> <p>C/O 30' SAND TAG 6TH PLG @ 7078' DRL PLG IN 2 MINS, 0 PSI INCREASE RIH</p> <p>C/O 30' SAND TAG 7TH PLG @ 7328' DRL PLG IN 3 MINS, 0 PSI INCREASE RIH. WELL WOULD CIRC W/ RIG PUMP.</p> <p>C/O TO 7590', CIRC CLN, HANG SWMVEL, L/D 9 JTS LAND TBG ON 231 JTS 23/8 L-80, ND BOPS NU WH, TEST FLOW LONE TO 4,000#, PUMP OPEN SUB, BLOW WELL AROUND W/ GAS UNIT TURN TO FB, SDFN</p> <p>KB = 14' 71/16 CAMERON HNGR = .83' (SURFACE OPEN & LOCKED) 231 JTS 23/8 L-80 = 7304.42' 0 SICP 0 FTP 1.875 X/N, PUMP OPEN SUB, 37/8 BIT = 4.13' EOT @ 7323.38'</p> <p>TWTR = 5012 BBLs TWR = 520 BBLs TWLTR = 4492 BBLs</p> <p>277 JTS 23/8 L-80 234 YELLOW, 43 BLUE 231 LANDED 46 TO SAMEULS YARD. 3 YELLOW, 43 BLUE WELL DEAD CIRC WELL DWN TBG UP CSG, PSI KEPT CLIMING ON TBG, CSG TRYING TO FLOW. RU TRYED TO UNPLUG TBG W/ RIG PUMP PRESSURED UP TO 3,000# NO LEAK OFF. PUMPED 80 BBLs DWN CSG TRYING TO FREE TBG NO LUCK, REMOVED WH BUILDING, RU DELSCO SLICK LINE TRUCK RIH W/ SINKER BARS TAG @</p>
2/5/2013	7:00 - 17:00	10.00		33	D	P		

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 921-26D1CS (RED)		Spud Conductor: 8/22/2009		Spud Date: 8/24/2009	
Project: UTAH-UINTAH		Site: NBU 921-26C PAD		Rig Name No:	
Event: RECOMPL/RESEREVEADD		Start Date: 1/16/2013		End Date: 2/26/2013	
Active Datum: RKB @4,984.00usft (above Mean Sea Level)			UWI: NE/NW/O/S/21/E/26/O/O/6/PM/N/836.00/W/O/1,648.00/O/O		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
2/6/2013	8:30 - 17:00	8.50	DRLOUT	34	H	P		SICP 1,000 PSI, RU CUTTERS W/ CRANE, RIH PERF TBG W/ 24 HOLES @ 7074-80' HOLES IN 6' POOH, SWI. RD CUTTERS.CIRC WELL DOWN TBG UP CSG FOR 1 HR. OPEN TBG TO TNK TURN TO FB CREW, SDFN.
2/25/2013	7:00 - 9:00	2.00	MAINT	30	G	P		ROAD RIG F/ M.S. 921-36A PAD TO NBU 921-26D1CS.
	9:00 - 10:00	1.00	MAINT	30	A	P		MIRU.
	10:00 - 11:30	1.50	MAINT	30	F	P		FCP. 75 PSI. FTP. 75 PSI. BLEW TBG DWN, CONTROL TBG W/ 30 BBLS, ND WH, NU BOP'S, RU FLOOR & TBG EQUIPMENT.
	11:30 - 14:45	3.25	MAINT	31	I	P		UNLAND TBG HANGER, POOH 231 JTS. 2-3/8" L-80 TBG, FOUND JNT # 224 W/ 24 HOLES, LD 9 JTS. PLUGGED W/ SAND, LD PUMP OPEN SUB & 3-7/8 BIT.
2/26/2013	14:45 - 17:00	2.25	MAINT	31	I	P		PU POBS W/ 1.875 XN, RIH & TALLY 222 JTS. 2-3/8 L-80 TBG F/ DERRICK, EOT @ 7030', SWI, DRAIN LINES & PUMP, SDFN.
	7:00 - 7:15	0.25	COMP	48		P		HSM, REVIEW D/ CBP & PU TBG F/ TRAILER
	7:15 - 8:00	0.75	COMP	31	I	P		BLEW TBG DWN, CONTROL TBG W/ 10 BBLS, FINISH RIH TBG , TAG SAND @ 7545'.
	8:00 - 8:15	0.25	COMP	47	A	P		NU PWR SWWL, RU TECH FOAM, INSTALL TSF.
	8:15 - 9:00	0.75	COMP	44	C	P		EST CIRC IN 20 MINS, C/O SAND F/ 7545' TO 7600' (55') D/O CBP @ IN 8 MINS, HAD 100 PSI. INCREASE, KILL TBG, POOH 2 JTS. TO REMOVE TSF, LD PWR SWWL,
	9:00 - 10:30	1.50	COMP	31	I	P		PU & RIH 2-3/8 L-80 TBG F/ TRAILER TAG SCALE @ 9670', INSTALL TSF, NU PWR SWWL.
	10:30 - 12:30	2.00	COMP	44	D	P		EST CIRC IN 10 MINS. D/O F/ 9670' TO 9680' (10') FELL THROUGH, RIH W/ TBG, TAG SCALE @ 9780' C/O TO 10,005' TAG OLD POBS, (225') CIRC WELL CLEAN, KILL TBG, RD PWR SWWL.
	12:30 - 16:00	3.50	COMP	31	I	P		POOH & LD 15 JTS. 2-3/8 L-80 TBG ON TRAILER, REMOVE TSF, RU SWAB EQUIPMENT, RIH & BROACH TBG TO SN W/ 1.90 BROACH, POOH LD SWAB EQUIPMENT, LAND TBG W/ 299 JTS. 2-3/8 L-80 TBG EOT@ 9468.16' DROP BALL, PUMP-OFF BIT W/ 1,420 PSI. RD TECH FOAM, RD FLOOR & TBG EQUIPMENT, ND BOP'S, NU WH, RDMO. WILL MOVE A.M. TO BONANZA 1023-18E2 PAD.

TBG DETAIL:

KB-----14'
HANGER-----83
299 JTS. 2-3/8" L-80 TBG-----9451.13
POBS 1.875 XN-----2.20
EOT @-----9468.16
WLTR. 70 BBLS.
TOP PERF @ 7614'
BTM PERF @ 9949'
C/O TO 10,005' TAG OLD POBS.
PBSD @ 10,013'

1 General

1.1 Customer Information

Company	US ROCKIES REGION
Representative	
Address	

1.2 Well/Wellbore Information

Well	NBU 921-26D1CS (RED)	Wellbore No.	OH
Well Name	NBU 921-26D1CS	Wellbore Name	NBU 921-26D1CS
Report No.	1	Report Date	1/16/2013
Project	UTAH-UINTAH	Site	NBU 921-26C PAD
Rig Name/No.		Event	RECOMPL/RESEREVEADD
Start Date	1/16/2013	End Date	2/26/2013
Spud Date	8/24/2009	Active Datum	RKB @4,984.00usft (above Mean Sea Level)
UWI	NE/NW10/9/S/21/E/26/O/16/PM/N/836.00/W/O/1,648.00/O/O		

1.3 General

Contractor		Job Method		Supervisor	
Perforated Assembly		Conveyed Method			

1.4 Initial Conditions

Fluid Type		Fluid Density	
Surface Press		Estimate Res Press	
TVD Fluid Top		Fluid Head	
Hydrostatic Press		Press Difference	
Balance Cond	NEUTRAL		

1.5 Summary

Gross Interval	5,394.0 (usft)-7,583.0 (usft)	Start Date/Time	1/31/2013 12:00AM
No. of Intervals	30	End Date/Time	1/31/2013 12:00AM
Total Shots	161	Net Perforation Interval	49.00 (usft)
Avg Shot Density	3.29 (shot/ft)	Final Surface Pressure	
		Final Press Date	

2 Intervals

2.1 Perforated Interval

Date	Formation/ Reservoir	CCL@ (usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diamete r (in)	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
1/31/2013 12:00AM	WASATCH/ RESERVOIR			5,394.0	5,401.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diamete r (in)	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
1/31/2013 12:00AM	WASATCH/			6,014.0	6,017.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/31/2013 12:00AM	WASATCH/			6,028.0	6,033.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/31/2013 12:00AM	WASATCH/			6,324.0	6,326.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
1/31/2013 12:00AM	WASATCH/			6,470.0	6,472.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
1/31/2013 12:00AM	WASATCH/			6,546.0	6,548.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
1/31/2013 12:00AM	WASATCH/			6,579.0	6,580.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
1/31/2013 12:00AM	WASATCH/			6,733.0	6,735.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
1/31/2013 12:00AM	WASATCH/			6,750.0	6,751.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
1/31/2013 12:00AM	WASATCH/			6,792.0	6,794.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
1/31/2013 12:00AM	WASATCH/			6,920.0	6,921.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/31/2013 12:00AM	WASATCH/			6,951.0	6,952.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/31/2013 12:00AM	WASATCH/			6,983.0	6,984.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/31/2013 12:00AM	WASATCH/			7,005.0	7,006.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/31/2013 12:00AM	WASATCH/			7,020.0	7,021.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/31/2013 12:00AM	WASATCH/			7,031.0	7,032.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/31/2013 12:00AM	WASATCH/			7,046.0	7,048.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/31/2013 12:00AM	WASATCH/			7,120.0	7,121.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/31/2013 12:00AM	WASATCH/			7,189.0	7,190.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/31/2013 12:00AM	WASATCH/			7,239.0	7,240.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/31/2013 12:00AM	WASATCH/			7,251.0	7,252.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/31/2013 12:00AM	WASATCH/			7,268.0	7,269.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	

-2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diamete r (in)	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
1/31/2013 12:00AM	WASATCH/			7,296.0	7,298.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/31/2013 12:00AM	WASATCH/			7,352.0	7,353.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/31/2013 12:00AM	WASATCH/			7,372.0	7,373.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/31/2013 12:00AM	WASATCH/			7,436.0	7,437.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/31/2013 12:00AM	WASATCH/			7,485.0	7,486.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/31/2013 12:00AM	WASATCH/			7,514.0	7,515.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
1/31/2013 12:00AM	WASATCH/			7,572.0	7,573.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/31/2013 12:00AM	WASATCH/			7,582.0	7,583.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	

3 Plots

3.1 Wellbore Schematic

