

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 921-26D1BS		
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 <input type="checkbox"/> Coalbed Methane Well: NO <input type="checkbox"/>				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	820 FNL 1661 FWL	NENW	26	9.0 S	21.0 E	S
Top of Uppermost Producing Zone	110 FNL 980 FWL	NWNW	26	9.0 S	21.0 E	S
At Total Depth	110 FNL 980 FWL	NWNW	26	9.0 S	21.0 E	S
21. COUNTY UINTAH		22. DISTANCE TO NEAREST LEASE LINE (Feet) 110		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: 9996 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 43047503630000	APPROVAL  Permit Manager	

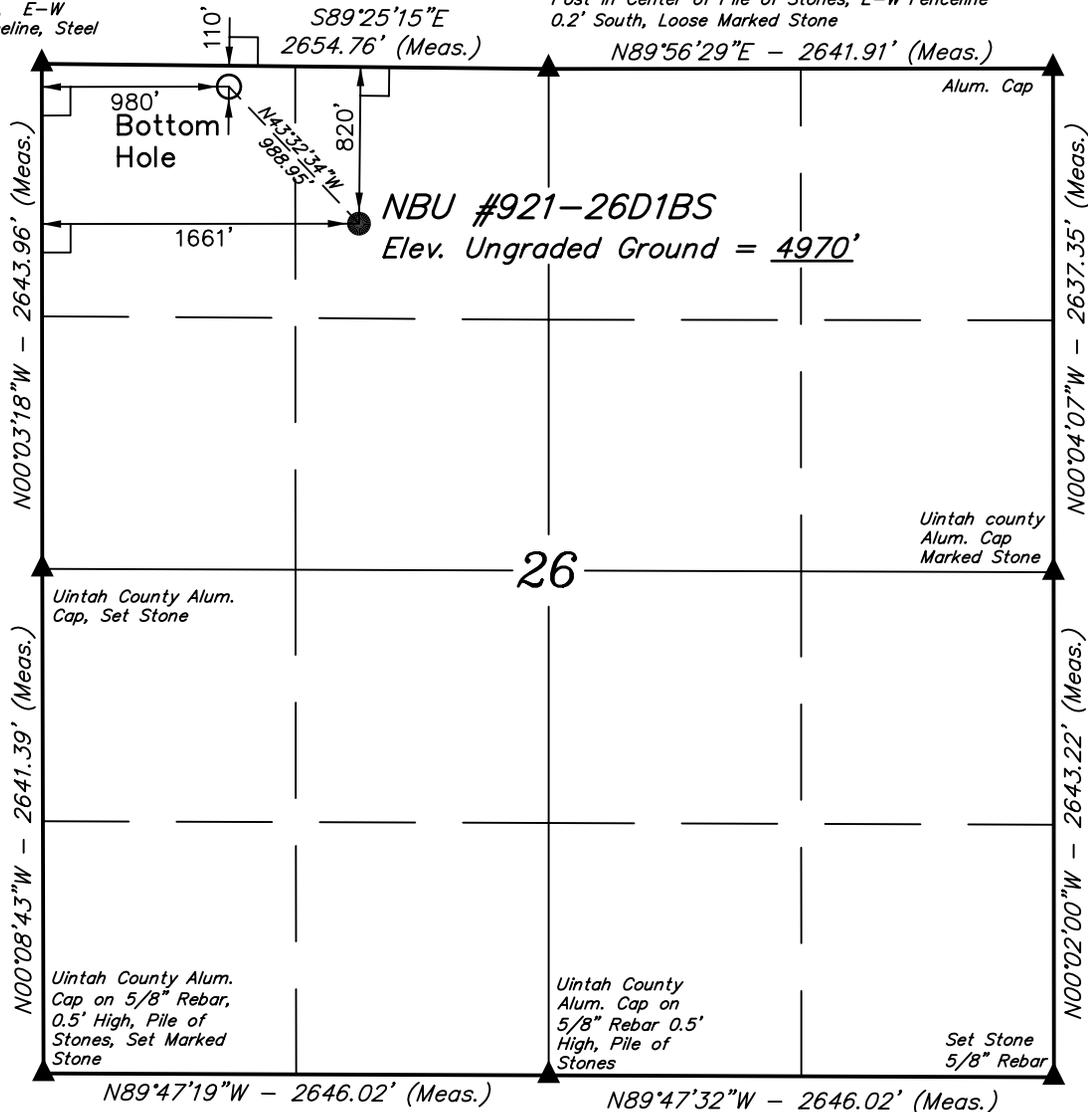
Proposed Hole, Casing, and Cement						
String	Hole Size	Casing Size	Top (MD)	Bottom (MD)		
Prod	7.875	4.5	0	9996		
Pipe	Grade	Length	Weight			
	Grade N-80 LT&C	9996	11.6			

Proposed Hole, Casing, and Cement						
String	Hole Size	Casing Size	Top (MD)	Bottom (MD)		
Surf	12.25	9.625	0	2400		
Pipe	Grade	Length	Weight			
	Grade J-55 LT&C	2400	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

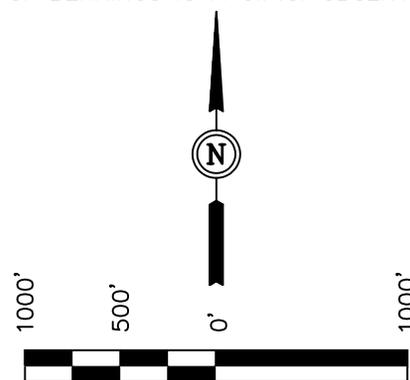
Well location, NBU #921-26D1BS, located as shown in the NE 1/4 NW 1/4 of Section 26, T9S, R21E, S.L.B.&M., Uintah County, Utah.

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, UINTAH COUNTY, 7.5 MINUTE SERIES (TOPOGRAPHICAL MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 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.

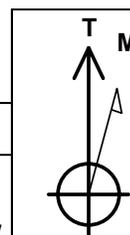
ROBERT L. ...
 REGISTERED LAND SURVEYOR
 REGISTRATION NO. 161319
 STATE OF UTAH

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

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

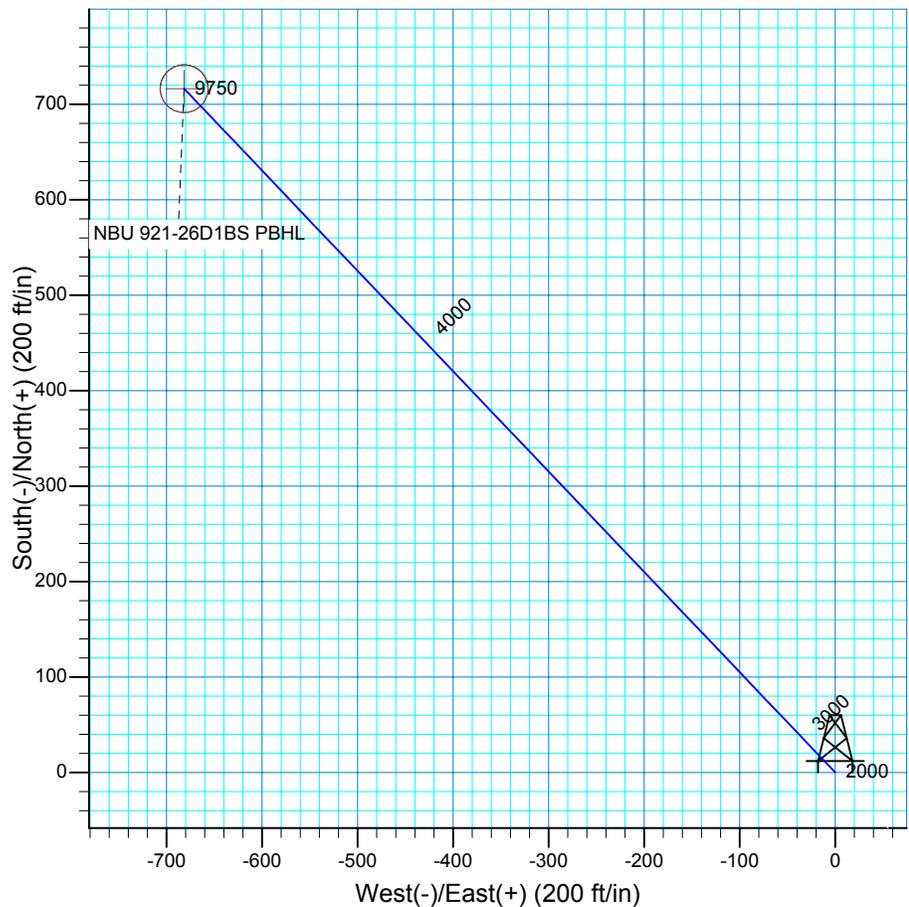
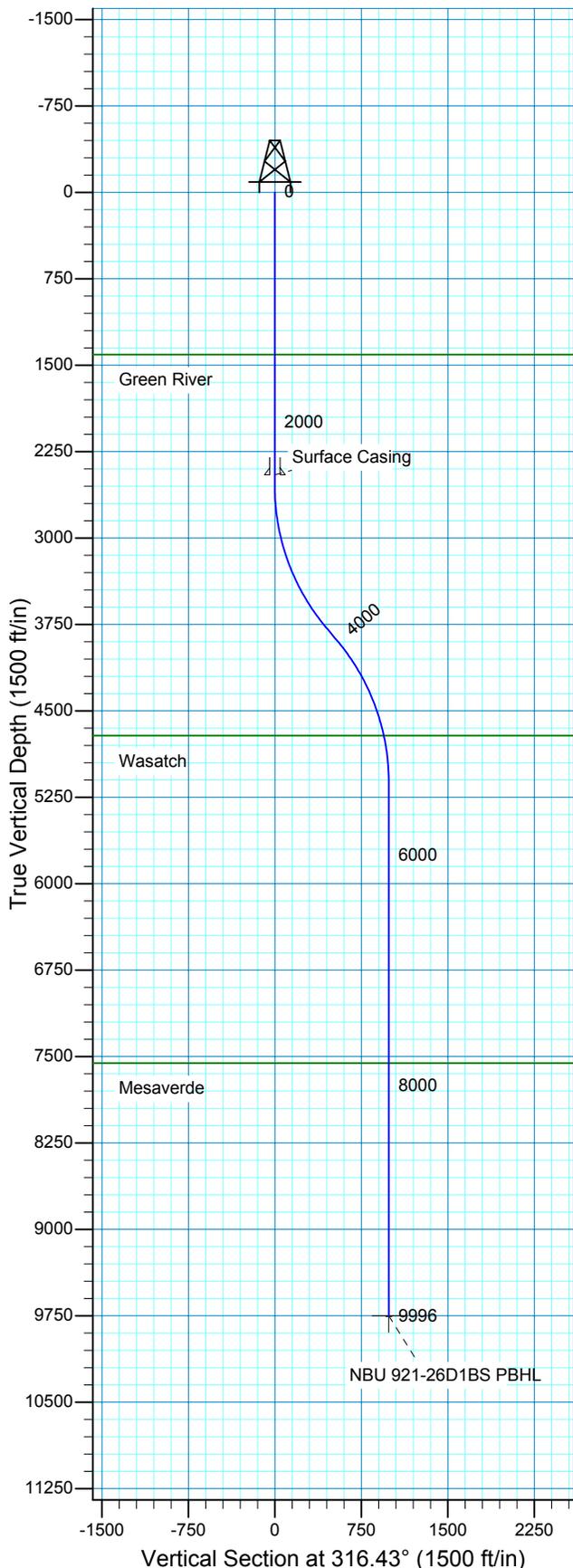
NAD 83 (TARGET BOTTOM HOLE)	NAD 83 (SURFACE LOCATION)
LATITUDE = 40°00'50.28" (40.013967) LONGITUDE = 109°31'29.71" (109.524919)	LATITUDE = 40°00'43.20" (40.012000) LONGITUDE = 109°31'20.95" (109.522486)
NAD 27 (TARGET BOTTOM HOLE)	NAD 27 (SURFACE LOCATION)
LATITUDE = 40°00'50.41" (40.014003) LONGITUDE = 109°31'27.23" (109.524231)	LATITUDE = 40°00'43.33" (40.012036) LONGITUDE = 109°31'18.47" (109.521797)

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	



WELL DETAILS: NBU 921-26D1BS

	GL 4969' & RKB 18' @ 4987.00ft	4969.00		
+N/-S	+E/-W	Northing	Easting	Latitude
0.00	0.00	617557.58	2554043.00	40° 0' 43.330 N
				Longitude
				109° 31' 18.470 W



Plan: Plan #1 (NBU 921-26D1BS/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	
3883.33	40.00	316.43	3777.63	323.72	-307.99	3.00	316.43	446.82	
4031.33	40.00	316.43	3891.01	392.64	-373.56	0.00	0.00	541.95	
5364.66	0.00	0.00	5118.64	716.36	-681.54	3.00	180.00	988.77	
9996.02	0.00	0.00	9750.00	716.36	-681.54	0.00	0.00	988.77	NBU 921-26D1BS PBHL



Scientific Drilling
Rocky Mountain Operations

Kerr McGee Oil and Gas Onshore LP

**Uintah County, UT NAD27
NBU 921-26C Pad
NBU 921-26D1BS
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 921-26D1BS
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 921-26D1BS	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 921-26D1BS, 820' FNL 1661' FWL					
Well Position	+N/-S	0.00 ft	Northing:	617,557.58 ft	Latitude:	40° 0' 43.330 N
	+E/-W	0.00 ft	Easting:	2,554,043.00 ft	Longitude:	109° 31' 18.470 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) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.00	0.00	0.00	316.43	

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	
3,883.33	40.00	316.43	3,777.63	323.72	-307.99	3.00	3.00	0.00	316.43	
4,031.33	40.00	316.43	3,891.01	392.64	-373.56	0.00	0.00	0.00	0.00	
5,364.66	0.00	0.00	5,118.64	716.36	-681.54	3.00	-3.00	0.00	180.00	
9,996.02	0.00	0.00	9,750.00	716.36	-681.54	0.00	0.00	0.00	0.00	NBU 921-26D1BS PB



Scientific Drilling

Planning Report

Database:	EDM 2003.16 Multi User DB	Local Co-ordinate Reference:	Well NBU 921-26D1BS
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 921-26D1BS	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	
1,407.00	0.00	0.00	1,407.00	0.00	0.00	0.00	0.00	0.00	0.00	
Green River										
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
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	316.43	2,599.99	0.47	-0.45	0.65	3.00	3.00	0.00	
2,700.00	4.50	316.43	2,699.85	4.27	-4.06	5.89	3.00	3.00	0.00	
2,800.00	7.50	316.43	2,799.29	11.84	-11.26	16.34	3.00	3.00	0.00	
2,900.00	10.50	316.43	2,898.04	23.17	-22.04	31.98	3.00	3.00	0.00	
3,000.00	13.50	316.43	2,995.85	38.23	-36.37	52.77	3.00	3.00	0.00	
3,100.00	16.50	316.43	3,092.43	56.98	-54.21	78.65	3.00	3.00	0.00	
3,200.00	19.50	316.43	3,187.52	79.37	-75.51	109.55	3.00	3.00	0.00	
3,300.00	22.50	316.43	3,280.87	105.33	-100.21	145.38	3.00	3.00	0.00	
3,400.00	25.50	316.43	3,372.22	134.79	-128.24	186.05	3.00	3.00	0.00	
3,500.00	28.50	316.43	3,461.31	167.68	-159.53	231.44	3.00	3.00	0.00	
3,600.00	31.50	316.43	3,547.90	203.90	-193.99	281.44	3.00	3.00	0.00	
3,700.00	34.50	316.43	3,631.76	243.35	-231.53	335.89	3.00	3.00	0.00	
3,800.00	37.50	316.43	3,712.65	285.93	-272.04	394.67	3.00	3.00	0.00	
3,883.33	40.00	316.43	3,777.63	323.72	-307.99	446.82	3.00	3.00	0.00	
3,900.00	40.00	316.43	3,790.40	331.48	-315.37	457.54	0.00	0.00	0.00	
4,000.00	40.00	316.43	3,867.01	378.05	-359.68	521.81	0.00	0.00	0.00	
4,031.33	40.00	316.43	3,891.01	392.64	-373.56	541.95	0.00	0.00	0.00	
4,100.00	37.94	316.43	3,944.39	423.93	-403.32	585.14	3.00	-3.00	0.00	
4,200.00	34.94	316.43	4,024.83	466.96	-444.26	644.53	3.00	-3.00	0.00	
4,300.00	31.94	316.43	4,108.27	506.88	-482.24	699.63	3.00	-3.00	0.00	
4,400.00	28.94	316.43	4,194.47	543.58	-517.16	750.29	3.00	-3.00	0.00	
4,500.00	25.94	316.43	4,283.21	576.96	-548.92	796.36	3.00	-3.00	0.00	



Scientific Drilling

Planning Report

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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 921-26D1BS	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	22.94	316.43	4,374.24	606.93	-577.43	837.73	3.00	-3.00	0.00
4,700.00	19.94	316.43	4,467.31	633.41	-602.63	874.28	3.00	-3.00	0.00
4,800.00	16.94	316.43	4,562.17	656.32	-624.43	905.91	3.00	-3.00	0.00
4,900.00	13.94	316.43	4,658.55	675.61	-642.77	932.53	3.00	-3.00	0.00
4,956.93	12.23	316.43	4,714.00	684.95	-651.66	945.42	3.00	-3.00	0.00
Wasatch									
5,000.00	10.94	316.43	4,756.19	691.21	-657.62	954.07	3.00	-3.00	0.00
5,100.00	7.94	316.43	4,854.82	703.10	-668.92	970.47	3.00	-3.00	0.00
5,200.00	4.94	316.43	4,954.18	711.22	-676.65	981.68	3.00	-3.00	0.00
5,300.00	1.94	316.43	5,053.99	715.57	-680.79	987.68	3.00	-3.00	0.00
5,364.66	0.00	0.00	5,118.64	716.36	-681.54	988.77	3.00	-3.00	0.00
5,400.00	0.00	0.00	5,153.98	716.36	-681.54	988.77	0.00	0.00	0.00
5,500.00	0.00	0.00	5,253.98	716.36	-681.54	988.77	0.00	0.00	0.00
5,600.00	0.00	0.00	5,353.98	716.36	-681.54	988.77	0.00	0.00	0.00
5,700.00	0.00	0.00	5,453.98	716.36	-681.54	988.77	0.00	0.00	0.00
5,800.00	0.00	0.00	5,553.98	716.36	-681.54	988.77	0.00	0.00	0.00
5,900.00	0.00	0.00	5,653.98	716.36	-681.54	988.77	0.00	0.00	0.00
6,000.00	0.00	0.00	5,753.98	716.36	-681.54	988.77	0.00	0.00	0.00
6,100.00	0.00	0.00	5,853.98	716.36	-681.54	988.77	0.00	0.00	0.00
6,200.00	0.00	0.00	5,953.98	716.36	-681.54	988.77	0.00	0.00	0.00
6,300.00	0.00	0.00	6,053.98	716.36	-681.54	988.77	0.00	0.00	0.00
6,400.00	0.00	0.00	6,153.98	716.36	-681.54	988.77	0.00	0.00	0.00
6,500.00	0.00	0.00	6,253.98	716.36	-681.54	988.77	0.00	0.00	0.00
6,600.00	0.00	0.00	6,353.98	716.36	-681.54	988.77	0.00	0.00	0.00
6,700.00	0.00	0.00	6,453.98	716.36	-681.54	988.77	0.00	0.00	0.00
6,800.00	0.00	0.00	6,553.98	716.36	-681.54	988.77	0.00	0.00	0.00
6,900.00	0.00	0.00	6,653.98	716.36	-681.54	988.77	0.00	0.00	0.00
7,000.00	0.00	0.00	6,753.98	716.36	-681.54	988.77	0.00	0.00	0.00
7,100.00	0.00	0.00	6,853.98	716.36	-681.54	988.77	0.00	0.00	0.00
7,200.00	0.00	0.00	6,953.98	716.36	-681.54	988.77	0.00	0.00	0.00
7,300.00	0.00	0.00	7,053.98	716.36	-681.54	988.77	0.00	0.00	0.00
7,400.00	0.00	0.00	7,153.98	716.36	-681.54	988.77	0.00	0.00	0.00
7,500.00	0.00	0.00	7,253.98	716.36	-681.54	988.77	0.00	0.00	0.00
7,600.00	0.00	0.00	7,353.98	716.36	-681.54	988.77	0.00	0.00	0.00
7,700.00	0.00	0.00	7,453.98	716.36	-681.54	988.77	0.00	0.00	0.00
7,800.00	0.00	0.00	7,553.98	716.36	-681.54	988.77	0.00	0.00	0.00
7,803.02	0.00	0.00	7,557.00	716.36	-681.54	988.77	0.00	0.00	0.00
Mesaverde									
7,900.00	0.00	0.00	7,653.98	716.36	-681.54	988.77	0.00	0.00	0.00
8,000.00	0.00	0.00	7,753.98	716.36	-681.54	988.77	0.00	0.00	0.00
8,100.00	0.00	0.00	7,853.98	716.36	-681.54	988.77	0.00	0.00	0.00
8,200.00	0.00	0.00	7,953.98	716.36	-681.54	988.77	0.00	0.00	0.00
8,300.00	0.00	0.00	8,053.98	716.36	-681.54	988.77	0.00	0.00	0.00
8,400.00	0.00	0.00	8,153.98	716.36	-681.54	988.77	0.00	0.00	0.00
8,500.00	0.00	0.00	8,253.98	716.36	-681.54	988.77	0.00	0.00	0.00
8,600.00	0.00	0.00	8,353.98	716.36	-681.54	988.77	0.00	0.00	0.00
8,700.00	0.00	0.00	8,453.98	716.36	-681.54	988.77	0.00	0.00	0.00
8,800.00	0.00	0.00	8,553.98	716.36	-681.54	988.77	0.00	0.00	0.00
8,900.00	0.00	0.00	8,653.98	716.36	-681.54	988.77	0.00	0.00	0.00
9,000.00	0.00	0.00	8,753.98	716.36	-681.54	988.77	0.00	0.00	0.00
9,100.00	0.00	0.00	8,853.98	716.36	-681.54	988.77	0.00	0.00	0.00
9,200.00	0.00	0.00	8,953.98	716.36	-681.54	988.77	0.00	0.00	0.00
9,300.00	0.00	0.00	9,053.98	716.36	-681.54	988.77	0.00	0.00	0.00



Scientific Drilling

Planning Report

Database:	EDM 2003.16 Multi User DB	Local Co-ordinate Reference:	Well NBU 921-26D1BS
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 921-26D1BS	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)
9,400.00	0.00	0.00	9,153.98	716.36	-681.54	988.77	0.00	0.00	0.00
9,500.00	0.00	0.00	9,253.98	716.36	-681.54	988.77	0.00	0.00	0.00
9,600.00	0.00	0.00	9,353.98	716.36	-681.54	988.77	0.00	0.00	0.00
9,700.00	0.00	0.00	9,453.98	716.36	-681.54	988.77	0.00	0.00	0.00
9,800.00	0.00	0.00	9,553.98	716.36	-681.54	988.77	0.00	0.00	0.00
9,900.00	0.00	0.00	9,653.98	716.36	-681.54	988.77	0.00	0.00	0.00
9,996.02	0.00	0.00	9,750.00	716.36	-681.54	988.77	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 921-26D1BS PBHL - hit/miss target - Shape - plan hits target center - Circle (radius 25.00)	0.00	0.00	9,750.00	716.36	-681.54	618,258.70	2,553,345.78	40° 0' 50.410 N	109° 31' 27.230 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 (°)
1,407.00	1,407.00	Green River		0.00	
4,956.93	4,714.00	Wasatch		0.00	
7,803.02	7,557.00	Mesaverde		0.00	

NBU 921-26D1BS

Pad: NBU 921-26C

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

BHL: 110' 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	1,407'	
Birds Nest	1,706'	Water
Mahogany	2,209'	Water
Wasatch	4,714'	Gas
Mesaverde	7,557'	Gas
MVU2	8,508'	Gas
MVL1	9,079'	Gas
TVD	9,750'	
TD	9,996'	

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 9,996' TD, approximately equals 6,124 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. Variances:

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.

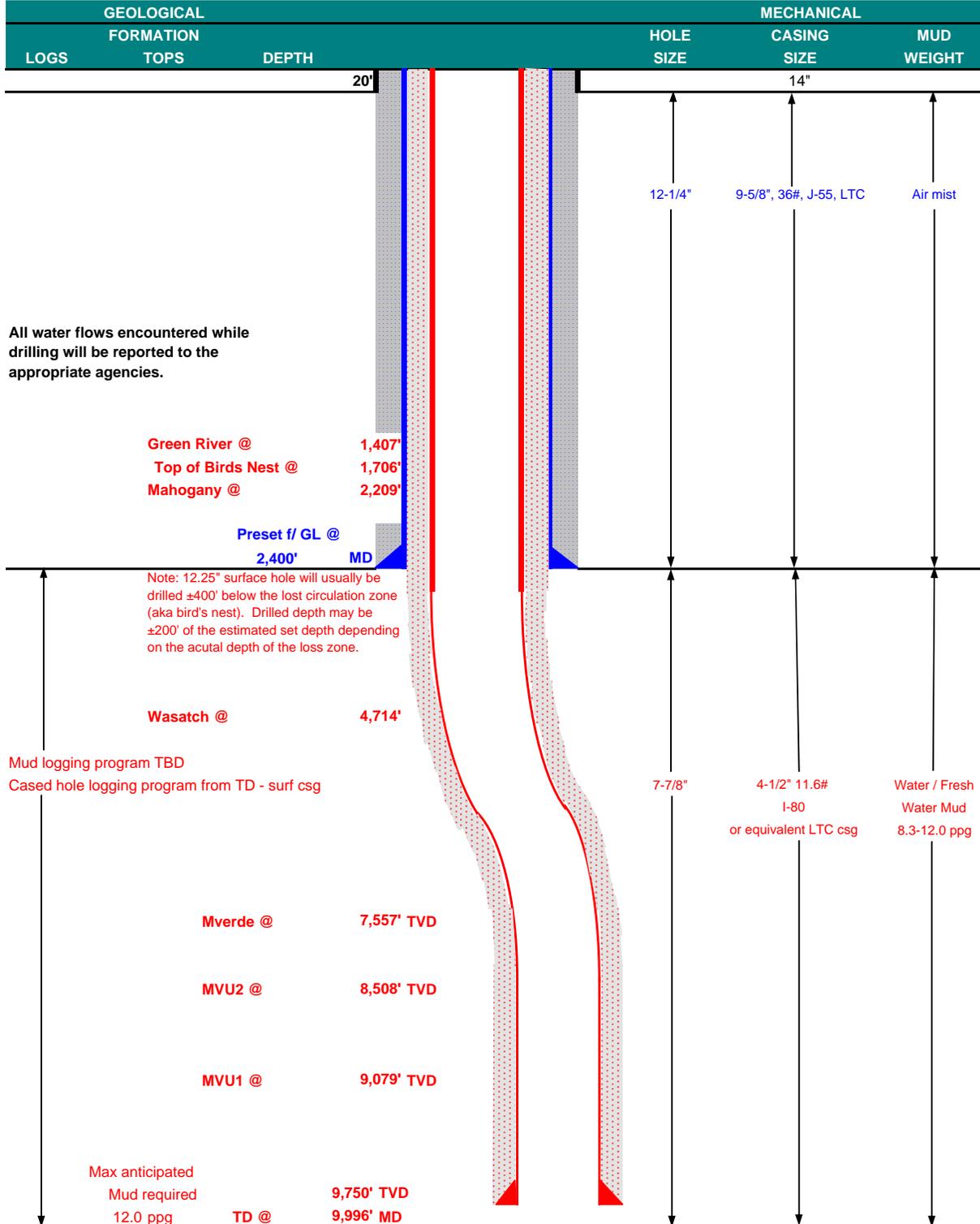
10. Other Information:

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 921-26D1BS		TD	9,750'	TVD	9,996' MD	
FIELD	Natural Buttes	COUNTY	Uintah	STATE	Utah	ELEVATION	4,970' GL KB 4,985'
SURFACE LOCATION	NW/4 NE/4 820' FNL 1,661' FWL		Sec 26	T 9S	R 21E		
	Latitude: 40.012036		Longitude: -109.521797		NAD 27		
BTM HOLE LOCATION	NW/4 NW/4 110' FNL 980' FWL		Sec 26	T 9S	R 21E		
	Latitude: 40.014003		Longitude: -109.524231		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 2,400	36.00	J-55	LTC	0.87	1.80	6.67
						7,780	6,350	201,000
PRODUCTION	4-1/2"	0 to 9,996	11.60	I-80	LTC	1.98	1.04	1.99

- 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*Buoys.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*Buoys.Fact. of water)
MABHP 6,124 psi

CEMENT PROGRAM

	FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE Option 1	LEAD 500'	Premium cmt + 2% CaCl + 0.25 pps flocele	215	60%	15.60	1.18
	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 Option 2	NOTE: If well will circulate water to surface, option 2 will be utilized					
	LEAD 1,900'	65/35 Poz + 6% Gel + 10 pps gilsonite + 0.25 pps Flocele + 3% salt BWOW	450	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 4,206'	Premium Lite II + 3% KCl + 0.25 pps celloflake + 5 pps gilsonite + 10% gel + 0.5% extender	400	40%	11.00	3.38
	TAIL 5,790'	50/50 Poz/G + 10% salt + 2% gel + 0.1% R-3	1,420	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.

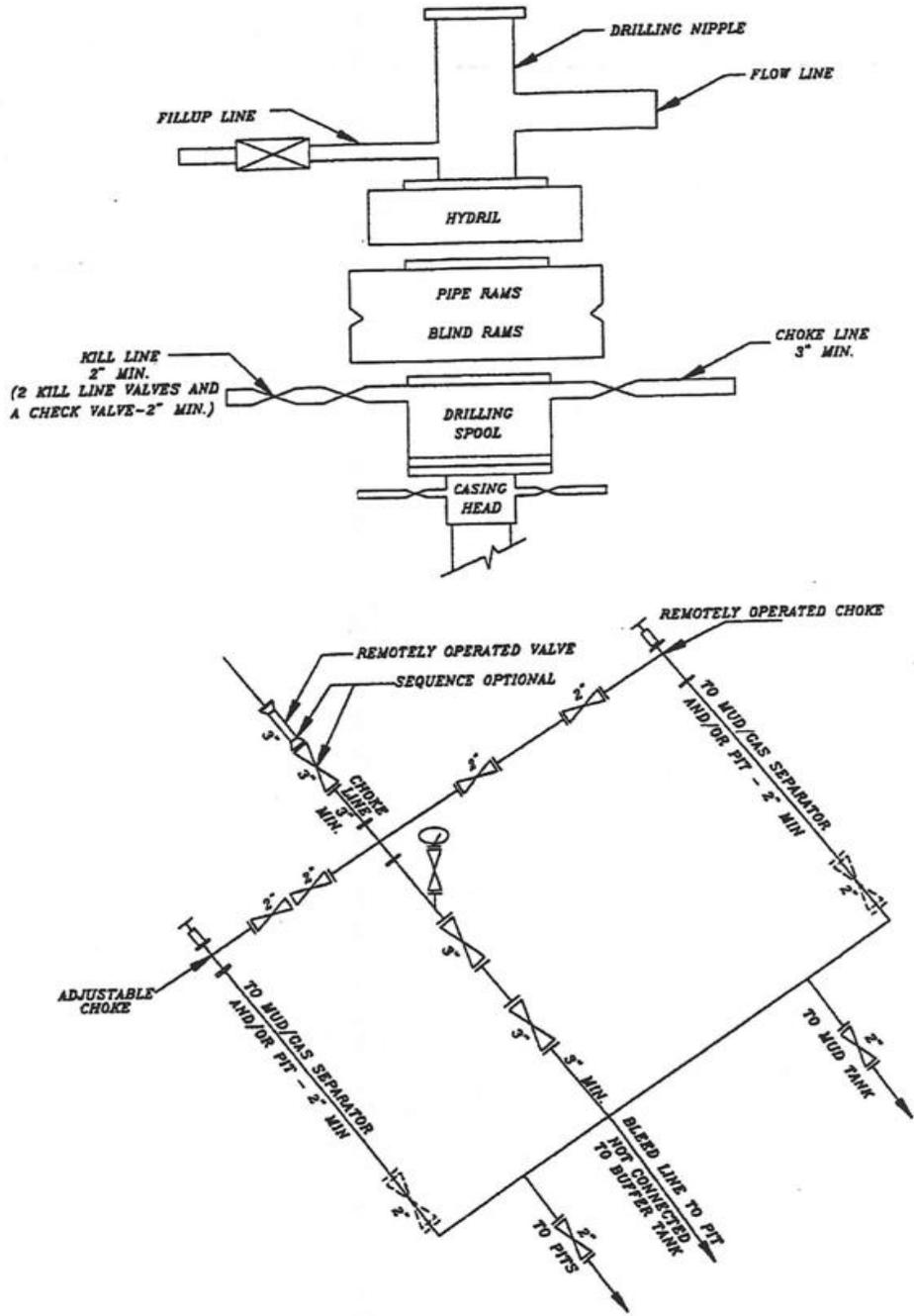
Surveys will be taken at 1,000' minimum intervals.

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 921-26D1BS



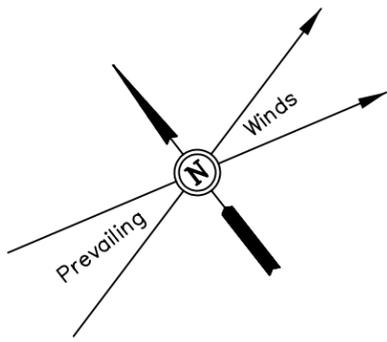
SCHEMATIC DIAGRAM OF 5,000 PSI BOP STACK

Kerr-McGee Oil & Gas Onshore LP

LOCATION LAYOUT FOR

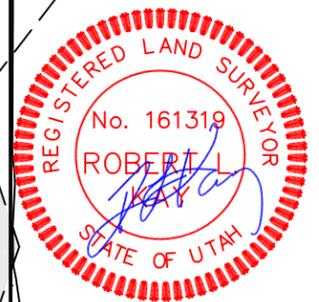
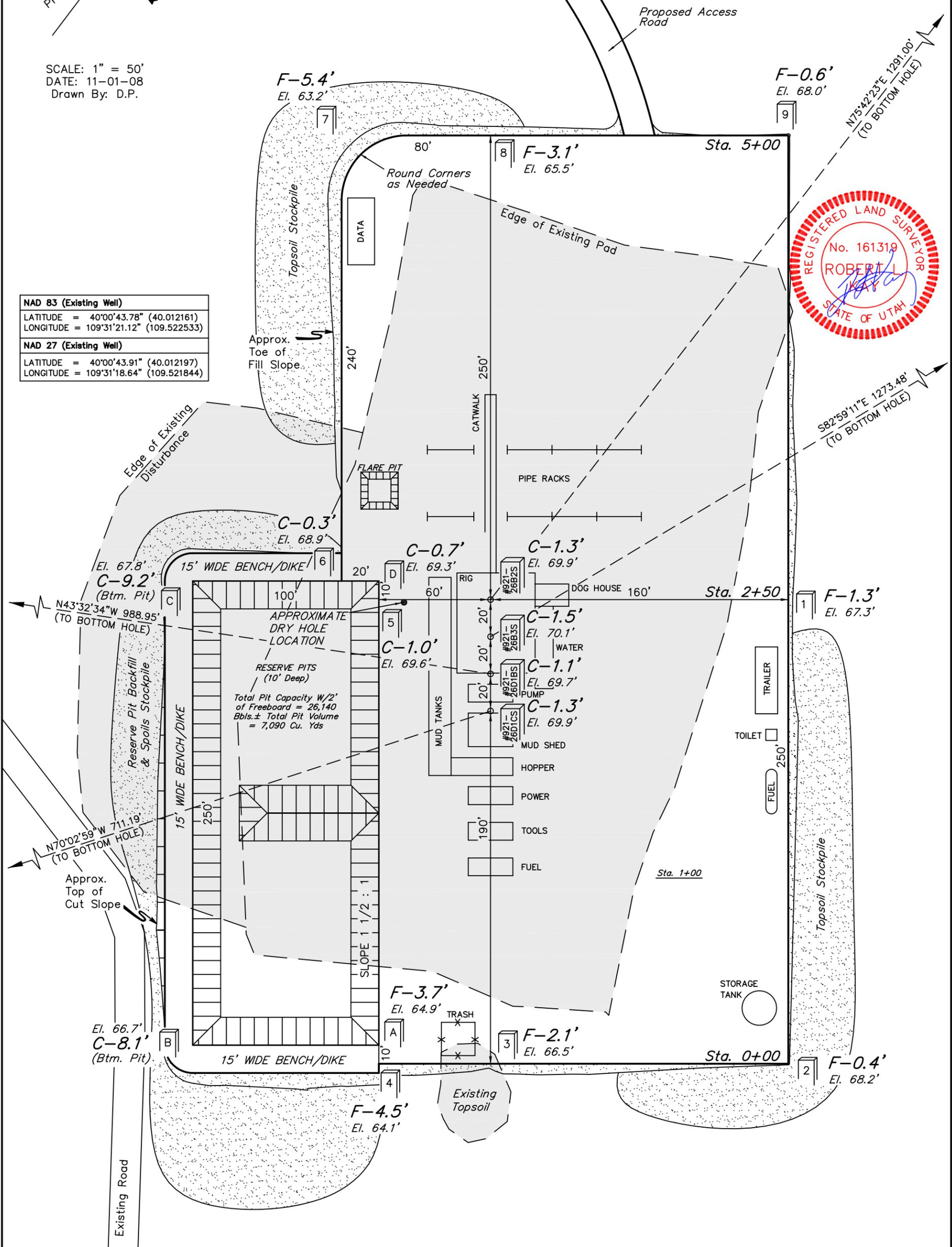
NBU #921-26B2S, #921-26B3S, #921-26D1BS & #921-26D1CS
SECTION 26, T9S, R21E, S.L.B.&M.
NE 1/4 NW 1/4

FIGURE #1



SCALE: 1" = 50'
DATE: 11-01-08
Drawn By: D.P.

NAD 83 (Existing Well)	
LATITUDE	= 40°00'43.78" (40.012161)
LONGITUDE	= 109°31'21.12" (109.522533)
NAD 27 (Existing Well)	
LATITUDE	= 40°00'43.91" (40.012197)
LONGITUDE	= 109°31'18.64" (109.521844)



NOTES:

Elev. Ungraded Ground #921-26B2S At Loc. Stake = 4969.9'
FINISHED GRADE ELEV. AT #921-26B2S LOC. STAKE = 4968.6'

Kerr-McGee Oil & Gas Onshore LP

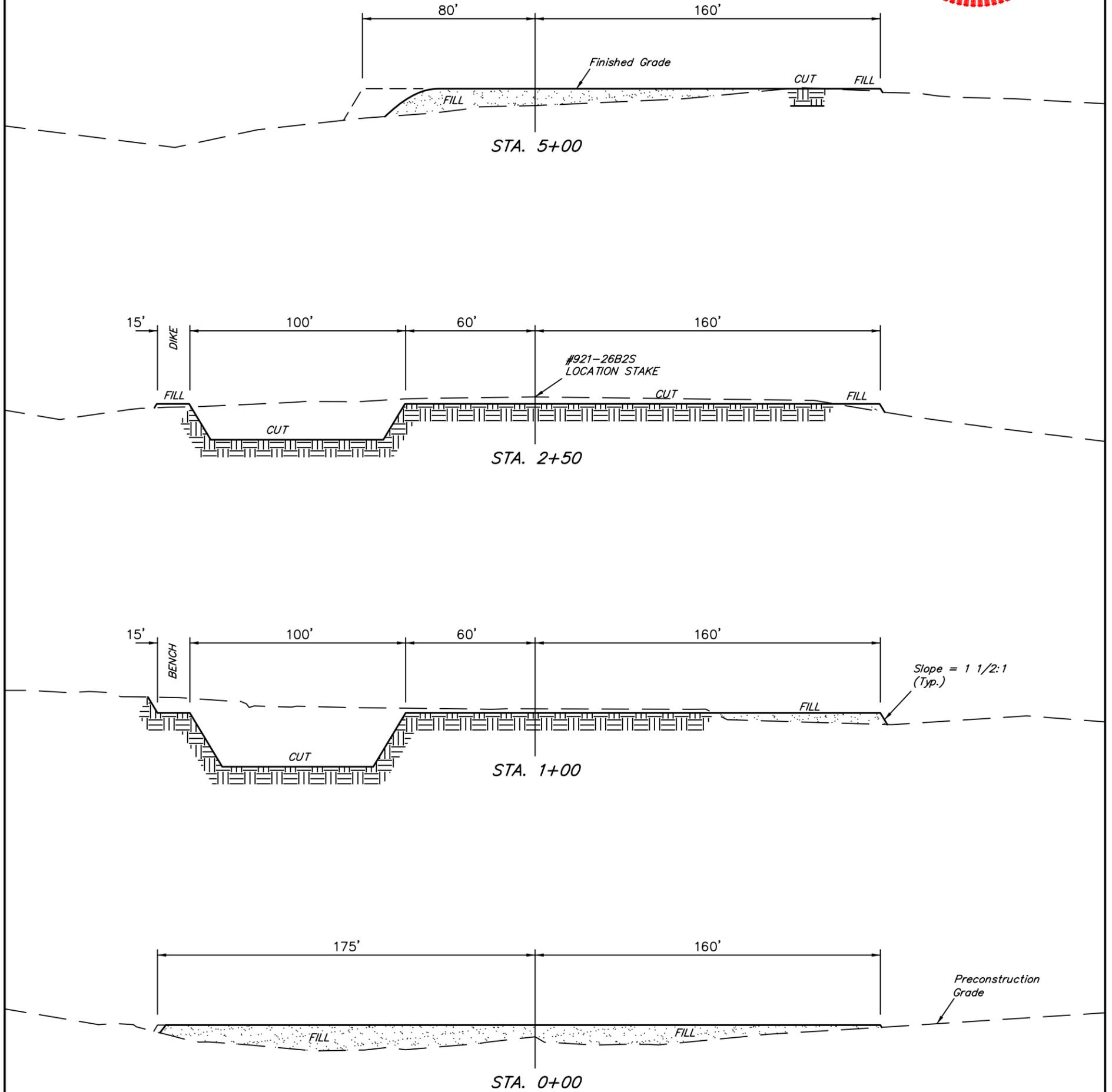
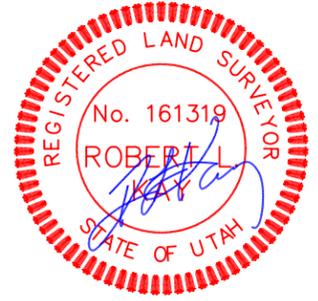
FIGURE #2

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

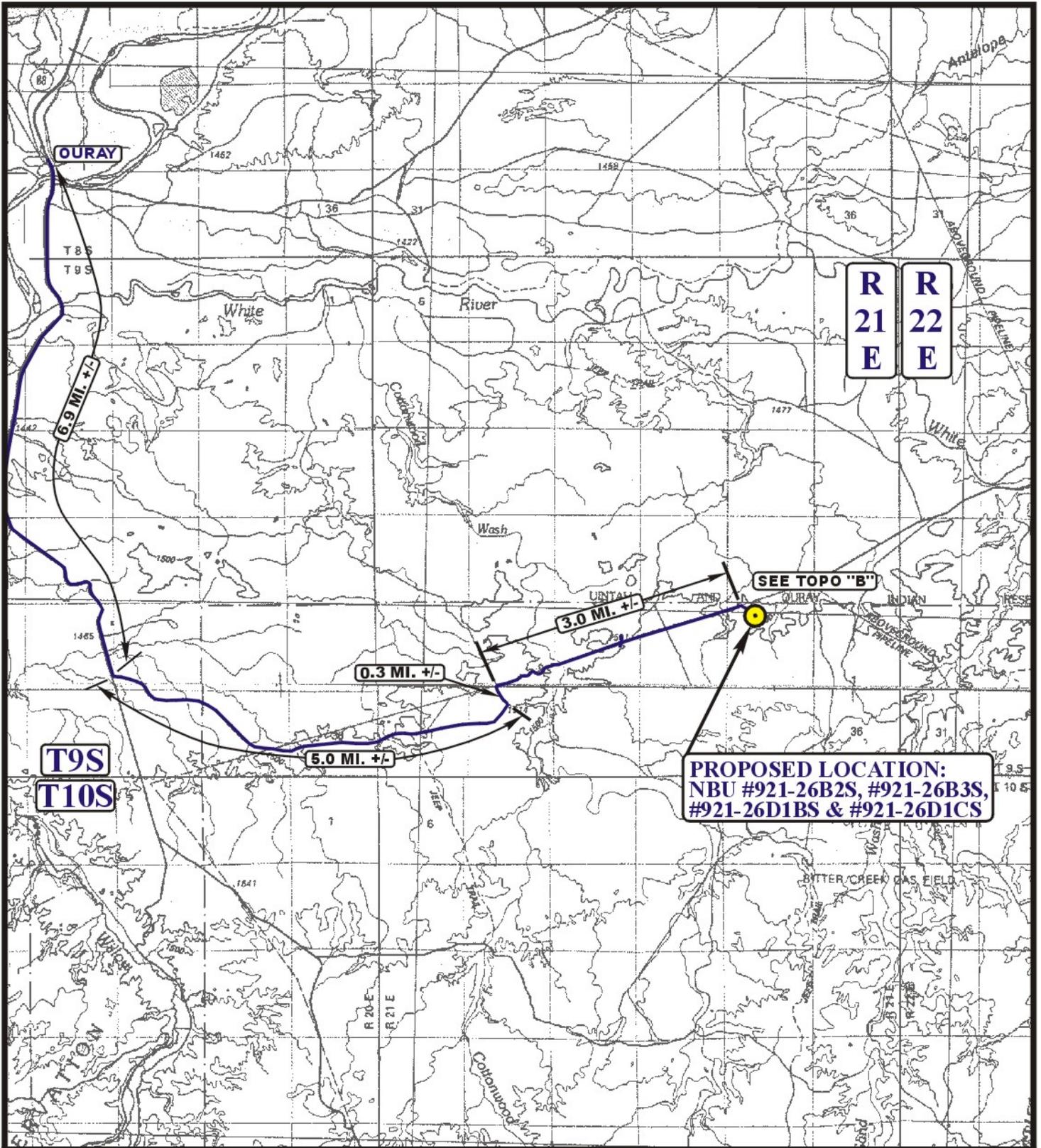
APPROXIMATE ACREAGES

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

SEE TOPO "B"

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

LEGEND:

 **PROPOSED LOCATION**



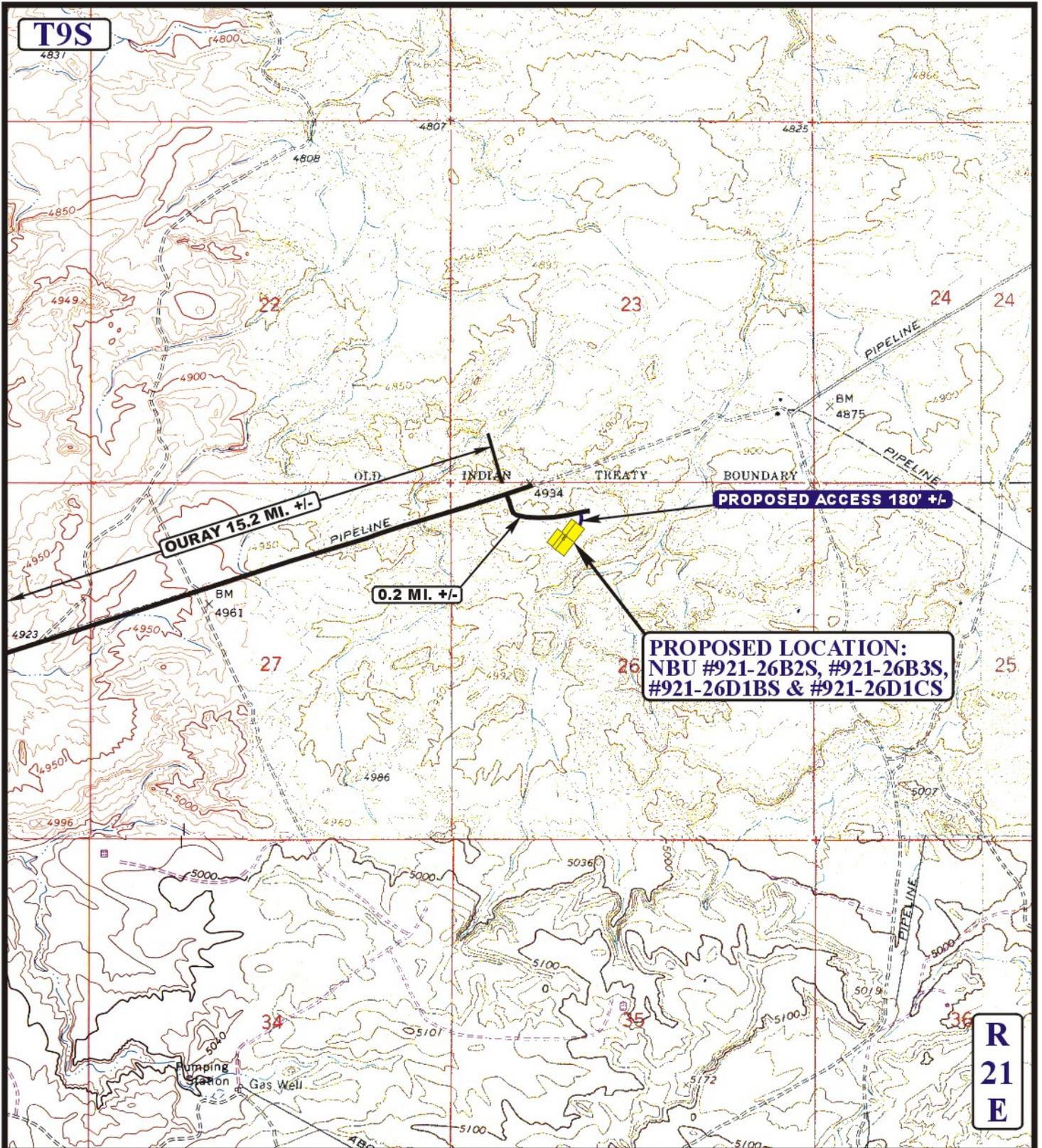
Kerr-McGee Oil & Gas Onshore LP

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

U&L S Uintah 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





LEGEND:

-  EXISTING ROAD
-  PROPOSED ACCESS ROAD

Kerr-McGee Oil & Gas Onshore LP

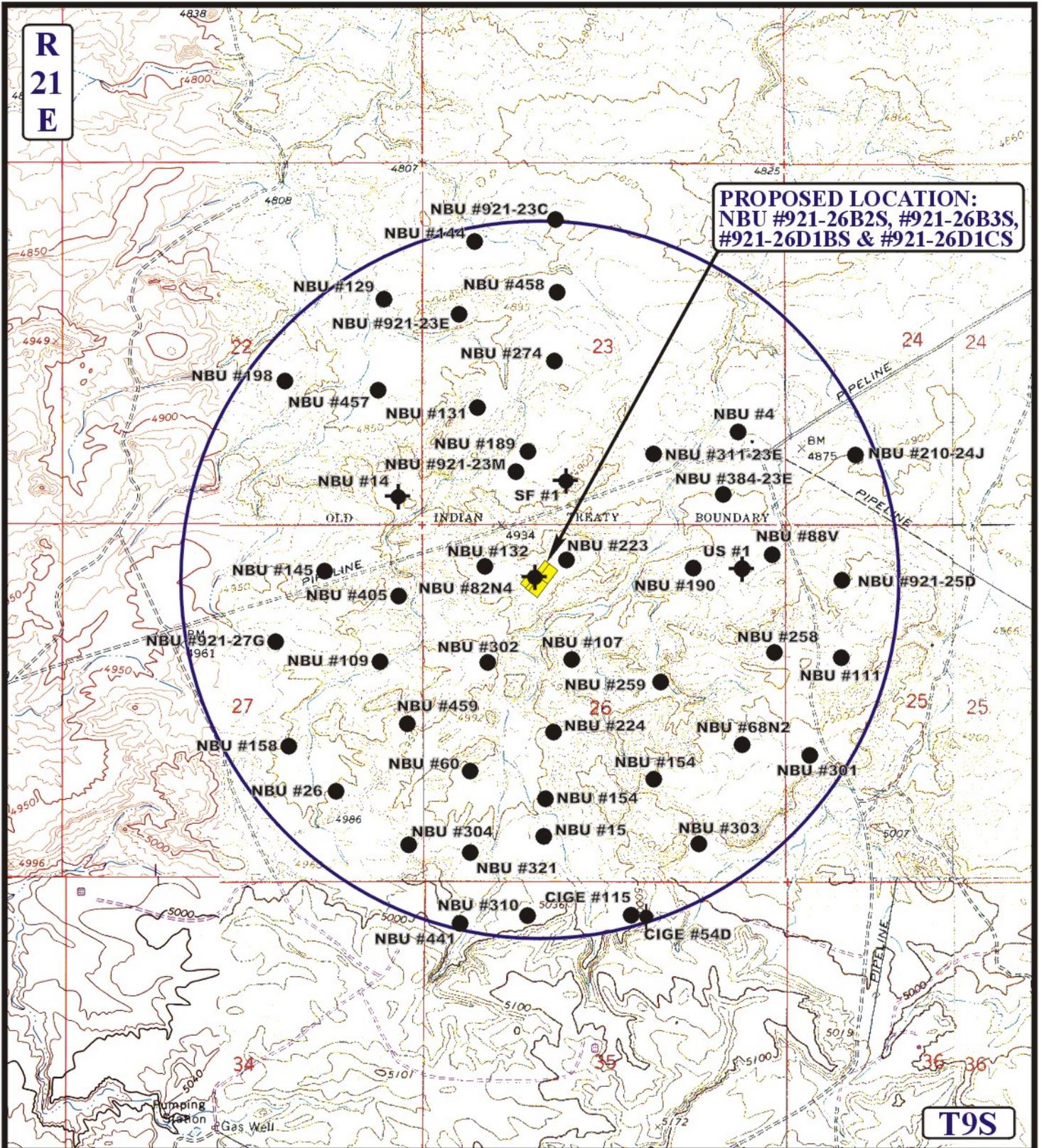
**NBU #921-26B2S, #921-26B3S,
 #921-26D1BS & #921-26D1CS
 SECTION 26, T9S, R21E, S.L.B.&M.
 NE 1/4 NW 1/4**

U&L S 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 | ⊗ WATER WELLS |
| ● PRODUCING WELLS | ● ABANDONED WELLS |
| ● SHUT IN WELLS | ● TEMPORARILY ABANDONED |

Kerr-McGee Oil & Gas Onshore LP

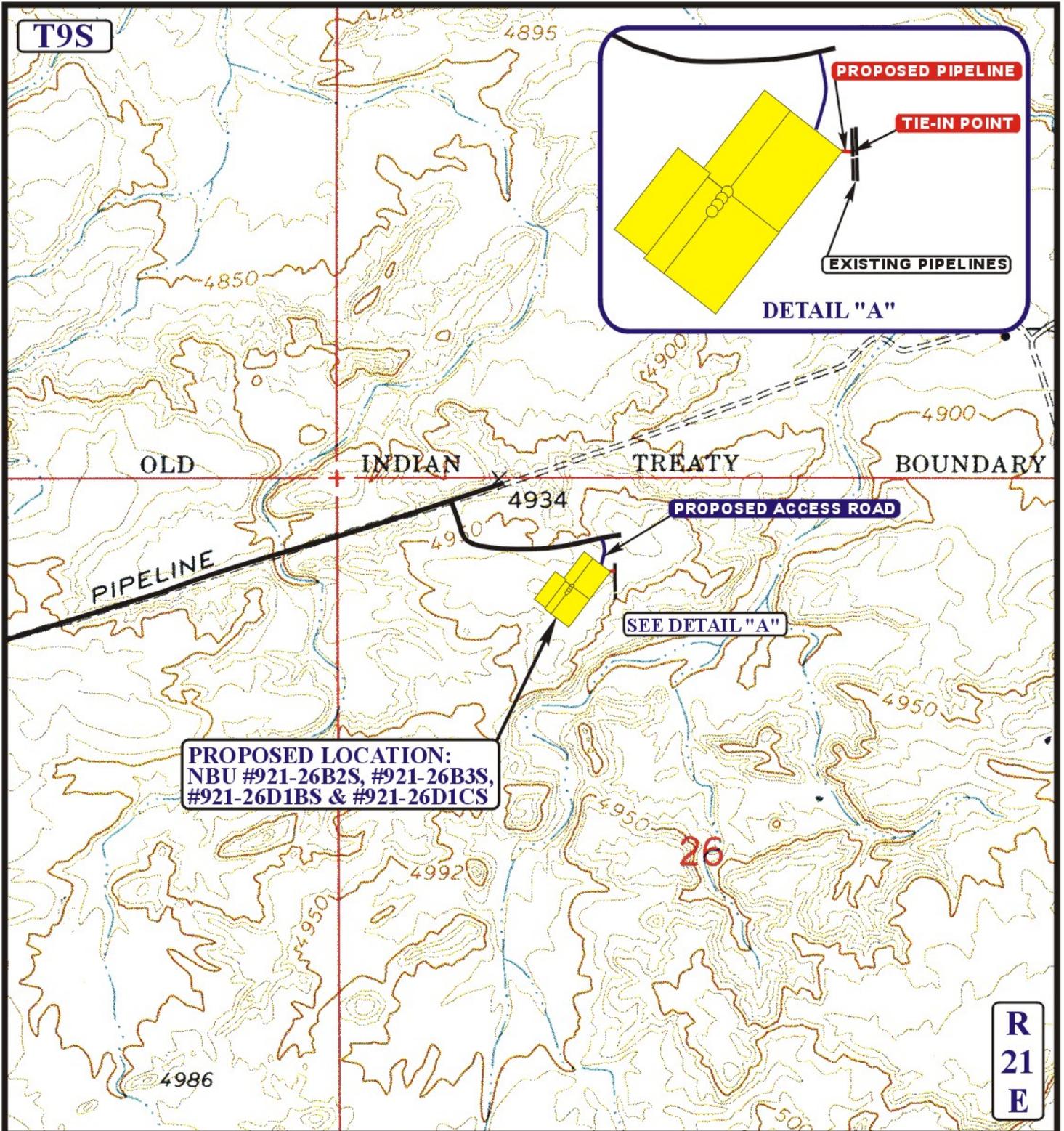
**NBU #921-26B2S, #921-26B3S,
#921-26D1BS & #921-26D1CS
SECTION 26, T9S, R21E, S.L.B.&M.
NE 1/4 NW 1/4**

U&L S 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





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**



Uintah 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" = 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.

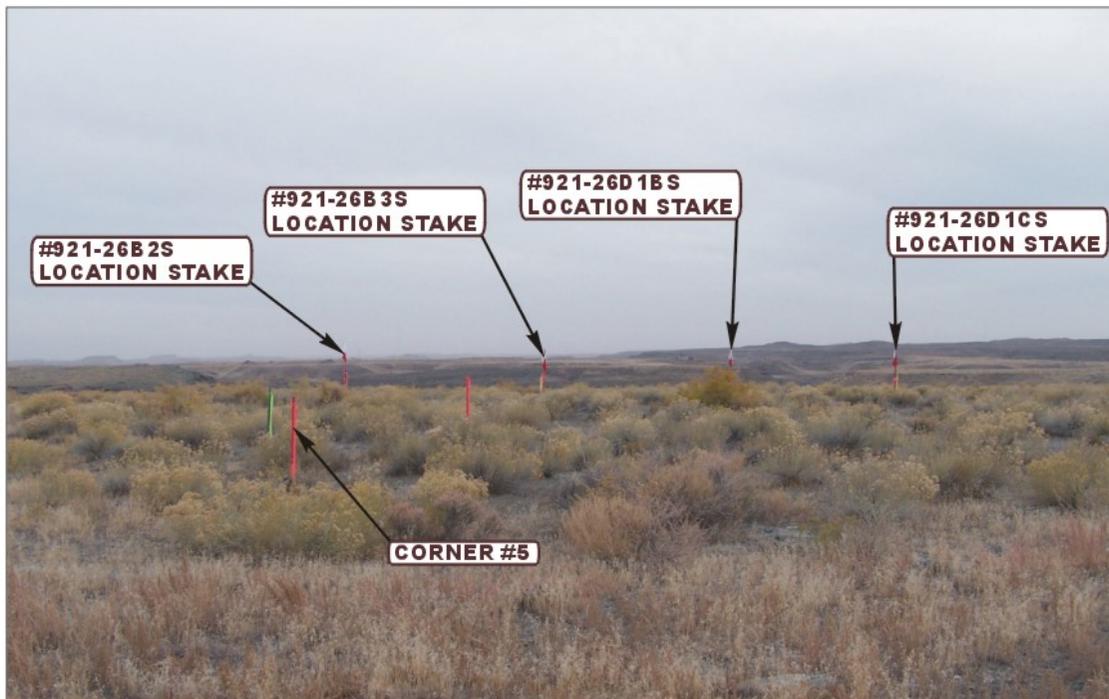


PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: SOUTHEASTERLY



PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

CAMERA ANGLE: SOUTHERLY



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

- Since 1964 -

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.

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 921-26D1BS
T9S-R21E
Section 26: NENW (Surf), NWNW (Bottom)
Surface: 820' FNL, 1661' FWL
Bottom Hole: 110' 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 921-26D1BS 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.

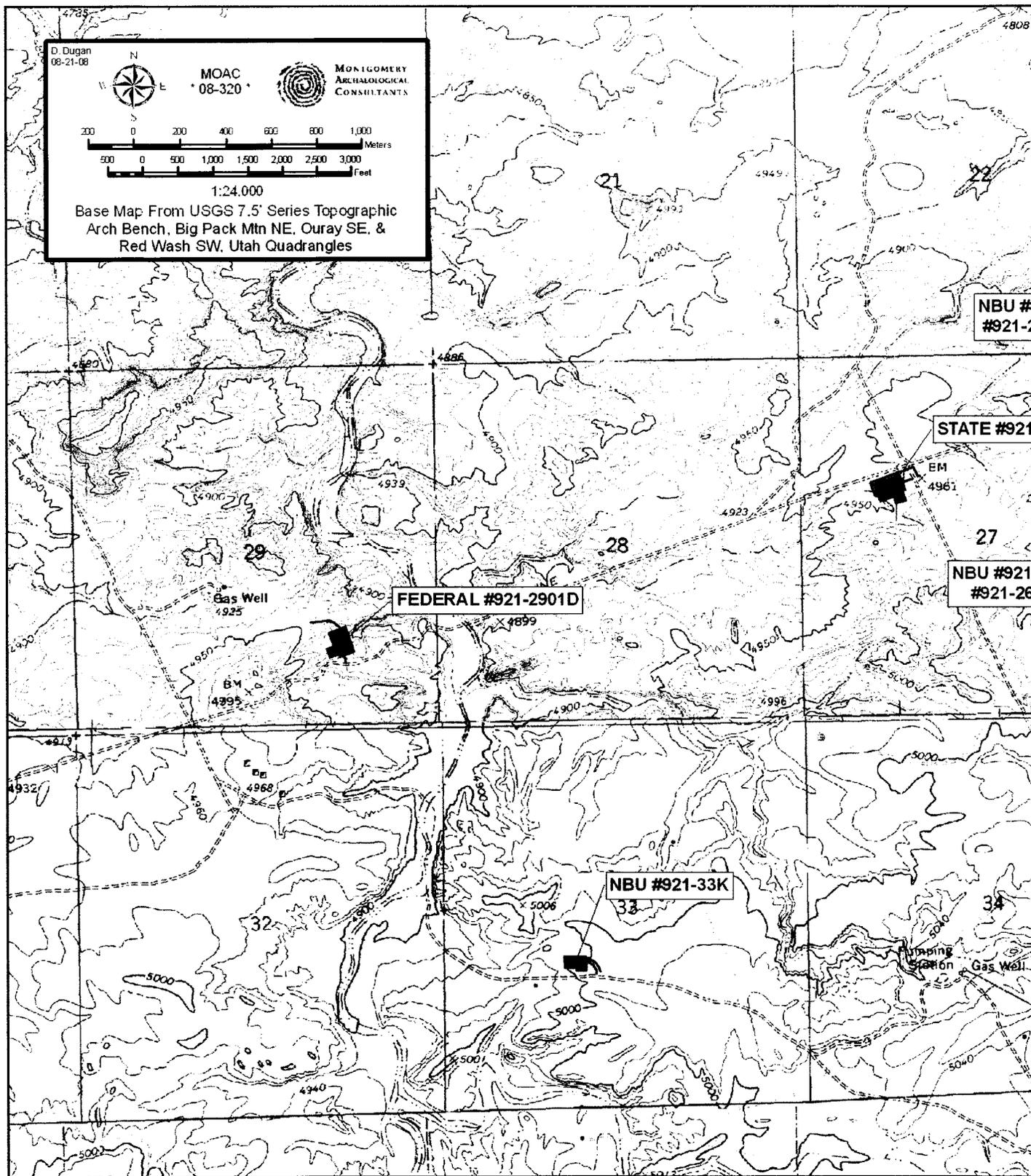


Figure 2. Location of Kerr-McGee Onshore's Proposed Well Pads.

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.

11/26/08
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

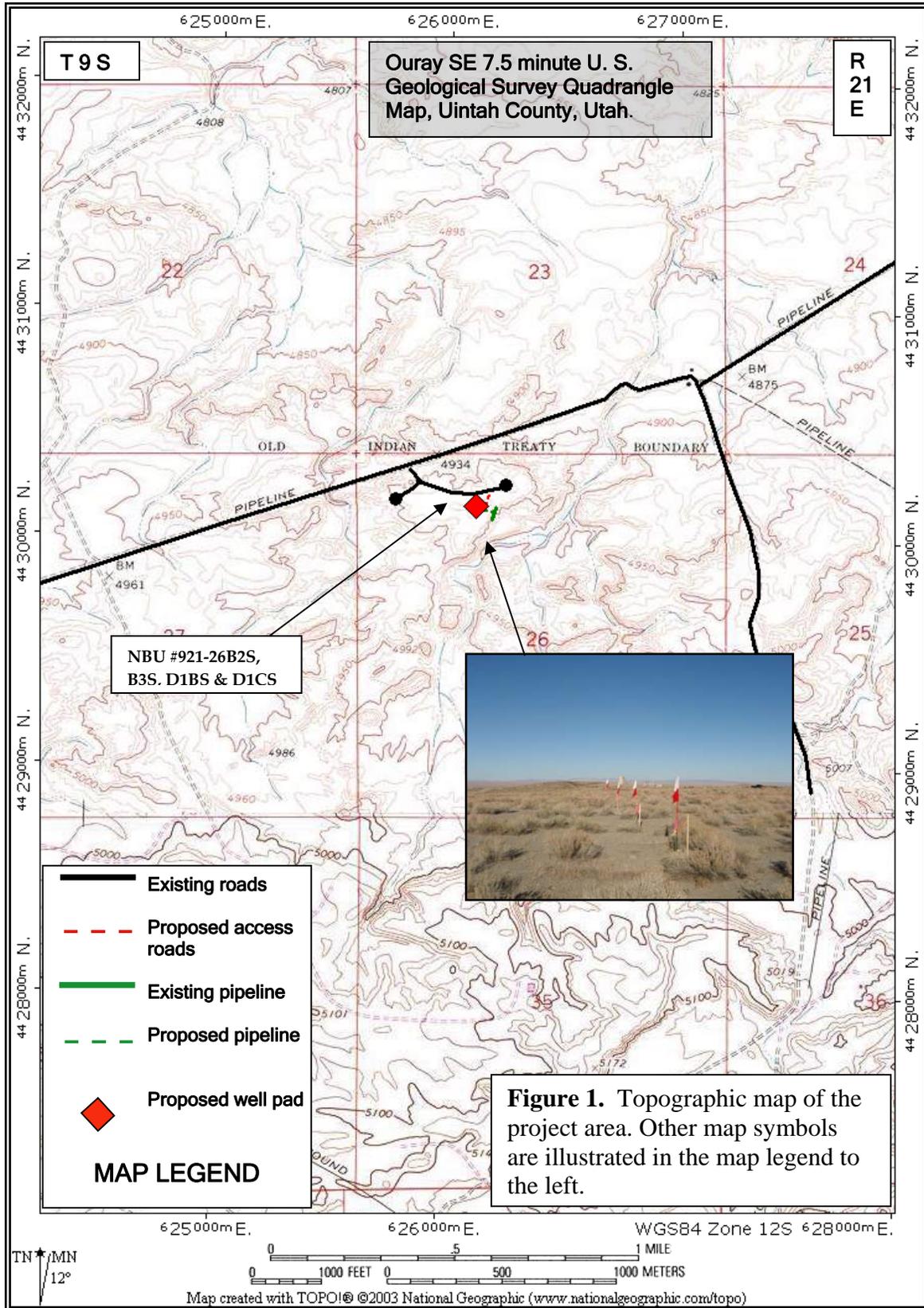
PROJECT	GEOLOGY	PALEONTOLOGY
<p>“NBU #921-26B2S, B3S, D1BS & D1CS” (Sec. 26, T 9 S, R 21 E)</p>	<p>The staked well pad, access road, and pipeline are located on a thin layer of colluvium covering a flat of the fluvial purple-green, massive, medium-grained sandstone and a well indurated purple siltstone.</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.



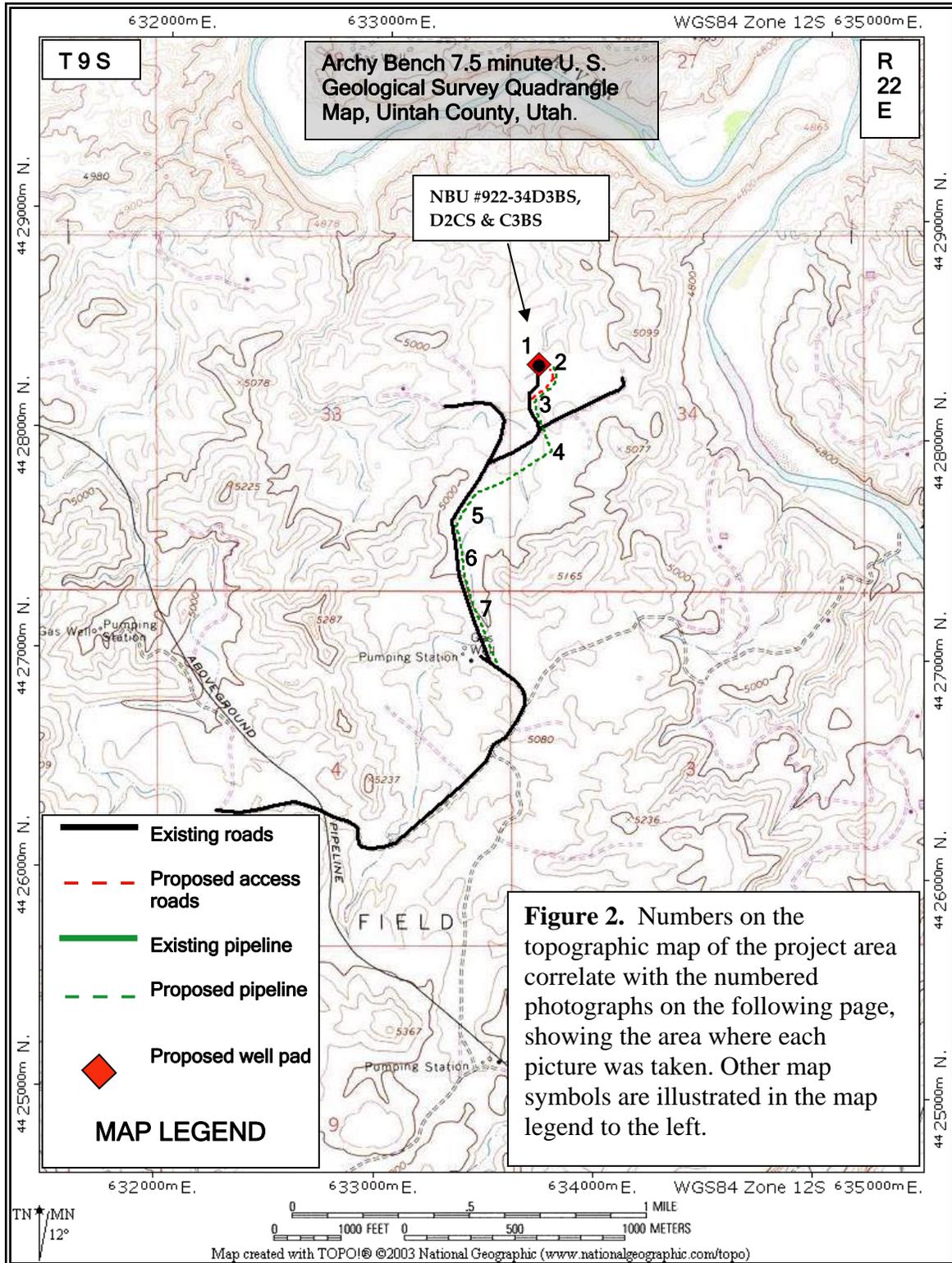
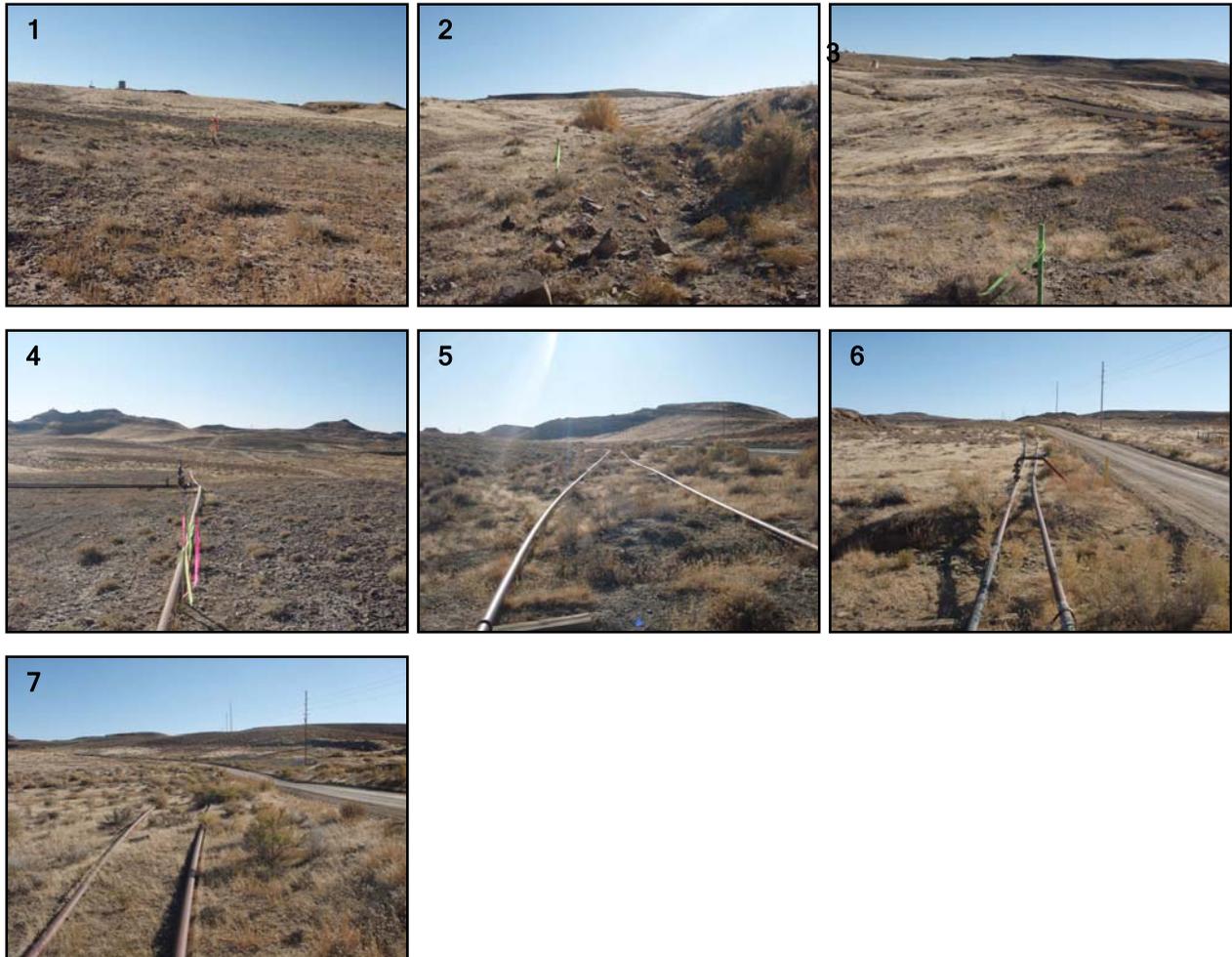


Figure 2. *continued...*



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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 921-26D1BS 4304750363		
String	Surf	Prod	
Casing Size(")	9.625	4.500	
Setting Depth (TVD)	2400	9750	
Previous Shoe Setting Depth (TVD)	20	2400	
Max Mud Weight (ppg)	8.3	12.0	
BOPE Proposed (psi)	500	5000	
Casing Internal Yield (psi)	3520	7780	
Operators Max Anticipated Pressure (psi)	6124	12.1	

Calculations	Surf String	9.625	"
Max BPH (psi)	$.052 * \text{Setting Depth} * \text{MW} =$	1040	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	$\text{Max BHP} - (0.12 * \text{Setting Depth}) =$	752	NO OK
MASP (Gas/Mud) (psi)	$\text{Max BHP} - (0.22 * \text{Setting Depth}) =$	512	NO
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	$\text{Max BHP} - .22 * (\text{Setting Depth} - \text{Previous Shoe Depth}) =$	516	NO Reasonable depth in area, no expected pressure
Required Casing/BOPE Test Pressure=		2400	psi
*Max Pressure Allowed @ Previous Casing Shoe=		20	psi *Assumes 1psi/ft frac gradient

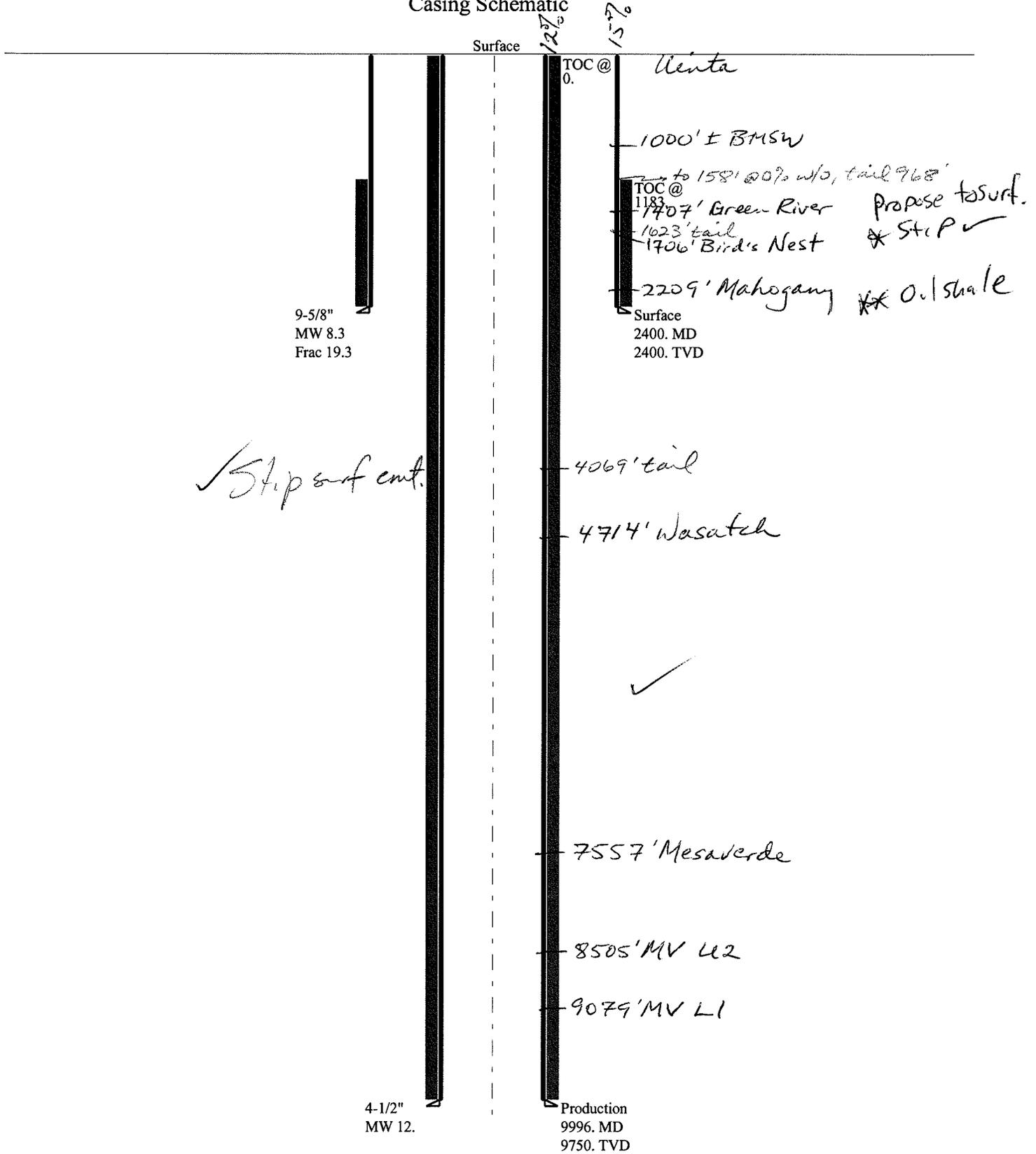
Calculations	Prod String	4.500	"
Max BPH (psi)	$.052 * \text{Setting Depth} * \text{MW} =$	6084	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	$\text{Max BHP} - (0.12 * \text{Setting Depth}) =$	4914	YES
MASP (Gas/Mud) (psi)	$\text{Max BHP} - (0.22 * \text{Setting Depth}) =$	3939	YES OK
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	$\text{Max BHP} - .22 * (\text{Setting Depth} - \text{Previous Shoe Depth}) =$	4467	NO Reasonable
Required Casing/BOPE Test Pressure=		5000	psi
*Max Pressure Allowed @ Previous Casing Shoe=		2400	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

43047503630000 NBU 921-26D1BS

Casing Schematic



Well name:	43047503630000 NBU 921-26D1BS	
Operator:	KERR-MCGEE OIL & GAS ONSHORE, L.P.	
String type:	Surface	Project ID: 43-047-50363
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: 108 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 100 ft
Cement top: 1,183 ft

Burst

Max anticipated surface pressure: 2,112 psi
Internal gradient: 0.120 psi/ft
Calculated BHP 2,400 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: 2,104 ft

Non-directional string.

Re subsequent strings:

Next setting depth: 9,749 ft
Next mud weight: 12.000 ppg
Next setting BHP: 6,077 psi
Fracture mud wt: 19.250 ppg
Fracture depth: 2,400 ft
Injection pressure: 2,400 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	2400	9.625	36.00	J-55	LT&C	2400	2400	8.796	19626
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	1039	2020	1.945	2400	3520	1.47	86.4	453	5.24 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 2400 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.

Well name:	43047503630000 NBU 921-26D1BS		
Operator:	KERR-MCGEE OIL & GAS ONSHORE, L.P.		
String type:	Production	Project ID:	43-047-50363
Location:	UINTAH COUNTY		

Design parameters:

Collapse

Mud weight: 12.000 ppg
 Internal fluid density: 1.000 ppg

Minimum design factors:

Collapse:

Design factor 1.125

Burst:

Design factor 1.00

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

Burst

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

No backup mud specified.

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)

Directional Info - Build & Drop

Kick-off point 2550 ft
 Departure at shoe: 989 ft
 Maximum dogleg: 3 °/100ft
 Inclination at shoe: 0 °

Tension is based on air weight.
 Neutral point: 8,247 ft

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	9996	4.5	11.60	I-80	LT&C	9750	9996	3.875	131946
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 TD. 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 921-26D1BS
API Number 43047503630000 **APD No** 1436 **Field/Unit** NATURAL BUTTES
Location: 1/4,1/4 NENW **Sec** 26 **Tw** 9.0S **Rng** 21.0E 820 FNL 1661 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.

Both the surface and minerals are owned by SITLA.

Surface Use Plan

Current Surface Use

- Grazing
- Recreational
- Wildlfe Habitat
- Existing Well Pad

New Road Miles	Well Pad	Src Const Material	Surface Formation
0.02	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
1436	43047503630000	LOCKED	GW	S	No
Operator	KERR-MCGEE OIL & GAS ONSHORE, L.P.		Surface Owner-APD		
Well Name	NBU 921-26D1BS		Unit	NATURAL BUTTES	
Field	NATURAL BUTTES		Type of Work	DRILL	
Location	NENW 26 9S 21E S 820 FNL 1661 FWL GPS Coord (UTM)			626167E	4429928N

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 rimed 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: 43047503630000

WELL NAME: NBU 921-26D1BS

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: 0820 FNL 1661 FWL

Engineering Review:

BOTTOM: 0110 FNL 0980 FWL

Geology Review:

COUNTY: UINTAH

LATITUDE: 40.01202

LONGITUDE: -109.52175

UTM SURF EASTINGS: 626167.00

NORTHINGS: 4429928.00

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 - hmadonald



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 921-26D1BS
API Well Number: 43047503630000
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

Commingling:

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

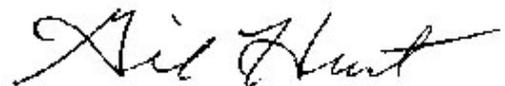
The following are Division of Oil, Gas and Mining contacts and their telephone numbers (please leave a voice mail message if the person is not available to take the call):

- 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 921-26D1BS

Api No: 43-047-50363 Lease Type: STATE

Section 26 Township 09S Range 21E County UINTAH

Drilling Contractor PETE MARTIN DRLG RIG # BUCKET

SPUDDED:

Date 08/22/2009

Time 11:00 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

(5/2000)

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 921-26D1BS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047503630000
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: 0820 FNL 1661 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 1100 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 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 921-26D1BS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047503630000
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: 0820 FNL 1661 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

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<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: 8/27/2009	<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
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	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: _____

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

MIRU PROPETRO AIR RIG ON 8/26/2009. DRILLED 12-1/4" SURFACE HOLE TO 2470'. RAN 9-5/8" 36# J-55 SURFACE CSG. PUMP 180 BBLS OF FLUSH H2O. PUMP 20 BBLS GEL WATER. LEAD CMT W/250 SX CLASS G HI FILL @ 11.0 PPG, 3.52 YIELD. TAILED CMT W/200 SX CLASS G PREM LITE @ 15.8 PPG, 1.15 YIELD. DROP PLUG ON FLY. DISPLACE CSG W/185.6 BBLS OF 500 PSI OF LIFT, BUMP PLUG 1000 PSI, FLOAT HELD, PARTIAL CIRC THROUGHOUT, GEL WATER TO SURFACE, PUMP 250 SX CLASS G PREM LITE TOP OUT @ 15.8 PPG, 1.15 YIELD. WORT.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
 August 31, 2009

NAME (PLEASE PRINT) Andy Lytle	PHONE NUMBER 720 929-6100	TITLE Regulatory Analyst
SIGNATURE N/A		DATE 8/31/2009

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
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<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: 12/11/2009	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
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	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: _____

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

FINISHED DRILLING FROM 2470' TO 10,125' ON 12/9/2009. RAN 4-1/2" 11.6# I-80 PRODUCTION CSG. TEST LINES TO 5000 PSI. PUMP 40 BBLs AHEAD. LEAD CMT W/490 SX ECONOCEM @ 12.1 PPG, 2.19 YIELD. TAILED CMT W/1350 SX CLASS G 50/50 POZ MIX @ 14.3 PPG, 1.25 YIELD. DROO PLUG AND DISPLACE W/156 BBLs WATER & BUMP PLUG W/500 PSI FINAL CIRC PRESSURE OF 2790, GOT BACK 36 WATER, NO CMT. R/D. CLEAN OUT PITS. RELEASE ENSIGN 139 RIG ON 12/11/2009 AT 14:00 HRS.

Accepted by the
 Utah Division of
 Oil, Gas and Mining
FOR RECORD ONLY
 December 14, 2009

NAME (PLEASE PRINT) Andy Lytle	PHONE NUMBER 720 929-6100	TITLE Regulatory Analyst
SIGNATURE N/A		DATE 12/11/2009

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 921-26D1BS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047503630000
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: 0820 FNL 1661 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: 2/14/2010	<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 2/14/2010 AT 11:00 A.M.

Accepted by the
 Utah Division of
 Oil, Gas and Mining
FOR RECORD ONLY
 February 25, 2010

NAME (PLEASE PRINT) Andy Lytle	PHONE NUMBER 720 929-6100	TITLE Regulatory Analyst
SIGNATURE N/A		DATE 2/24/2010

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

AMENDED REPORT FORM 8
(highlight changes)

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 921-26D1BS

9. API NUMBER:
4304750363

10. FIELD AND POOL, OR WILDCAT
NATURAL BUTTES

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

12. COUNTY
UINTAH

13. STATE
UTAH

17. ELEVATIONS (DF, RKB, RT, GL):
4970' GL

21. DEPTH BRIDGE MD
PLUG SET: TVD

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL: OIL WELL GAS WELL DRY OTHER _____

b. TYPE OF WORK: NEW WELL HORIZ. LATS. DEEP-EN RE-ENTRY DIFF. RESVR. OTHER _____

2. NAME OF OPERATOR:
KERR MCGEE OIL & GAS ONSHORE LP

3. ADDRESS OF OPERATOR: P.O. BOX 173779 CITY DENVER STATE CO ZIP 80217
PHONE NUMBER: (720) 929-6100

4. LOCATION OF WELL (FOOTAGES)
AT SURFACE: **NENW 820 FNL & 1661 FWL**
AT TOP PRODUCING INTERVAL REPORTED BELOW: **NWNW 95 FNL & 967 FWL SEC.26-9S-21E**
AT TOTAL DEPTH: **NWNW 110 FNL & 965 FWL SEC.26-9S-21E**

14. DATE SPURRED: 8/22/2009
15. DATE T.D. REACHED: 12/9/2009
16. DATE COMPLETED: 2/13/2010
ABANDONED READY TO PRODUCE

18. TOTAL DEPTH: MD 10,125 TVD 9,975
19. PLUG BACK T.D.: MD 10,063 TVD 9,914

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)
GR/CBL-COMPACT TRIPLE COMBO

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#		2,454		700			
7 7/8"	4 1/2 I-80	11.6#		10,107		1840		808	

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"	9,396							

26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)	INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS	
(A) MESAVERDE	7,904	10,052			7,904 10,052	0.36	336	Open <input checked="" type="checkbox"/>	Squeezed <input type="checkbox"/>
(B)								Open <input type="checkbox"/>	Squeezed <input type="checkbox"/>
(C)								Open <input type="checkbox"/>	Squeezed <input type="checkbox"/>
(D)								Open <input type="checkbox"/>	Squeezed <input type="checkbox"/>

27. PERFORATION RECORD

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

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
7904-10052	PMP 13,392 BBLs SLICK H2O & 458,645 LBS 30/50 SD.

29. ENCLOSED ATTACHMENTS:

- ELECTRICAL/MECHANICAL LOGS
 SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION
 GEOLOGIC REPORT
 CORE ANALYSIS
 DST REPORT
 DIRECTIONAL SURVEY
 OTHER: _____

30. WELL STATUS:
PROD

RECEIVED

MAR 23 2010

31. INITIAL PRODUCTION

INTERVAL A (As shown in item #26)

DATE FIRST PRODUCED: 2/13/2010	TEST DATE: 2/24/2010	HOURS TESTED: 24	TEST PRODUCTION RATES: →	OIL – BBL: 21	GAS – MCF: 2,420	WATER – BBL: 365	PROD. METHOD: FLOWING
CHOKE SIZE: 18/64	TBG. PRESS. 1,713	CSG. PRESS. 2,381	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	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: →	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: →	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: →	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	1,541				
MAHOGANY	2,223				
WASATCH	5,008	7,857			
MESAVERDE	7,865	10,126			

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 921-26D1BS

OH

Design: OH

Standard Survey Report

16 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 921-26D1BS
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well NBU 921-26D1BS
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 921-26D1BS, 820' FNL 1661' FWL					
Well Position	+N/-S	0.00 ft	Northing:	617,556.34 ft	Latitude:	40° 0' 43.330 N
	+E/-W	0.00 ft	Easting:	2,554,037.89 ft	Longitude:	109° 31' 18.470 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	2/6/2009	11.37	65.94	52,593

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	316.43

Survey Program	Date 12/16/2009				
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
170.00	2,480.00	Survey #1 (OH)	MWD	MWD - Standard	
2,522.00	10,125.00	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	0.60	86.80	170.00	0.05	0.89	-0.58	0.35	0.35	0.00	
First Anadarko MWD Survey										
260.00	0.56	103.98	259.99	-0.03	1.79	-1.25	0.20	-0.04	19.09	
350.00	0.84	354.65	349.99	0.52	2.15	-1.11	1.28	0.31	-121.48	
440.00	0.94	355.23	439.98	1.91	2.03	-0.01	0.11	0.11	0.64	
530.00	1.13	339.23	529.96	3.48	1.65	1.38	0.38	0.21	-17.78	
620.00	1.88	16.73	619.93	5.72	1.76	2.93	1.33	0.83	41.67	
710.00	2.06	335.85	709.88	8.61	1.53	5.19	1.54	0.20	-45.42	
800.00	0.75	296.23	799.86	10.35	0.34	7.27	1.73	-1.46	-44.02	
890.00	1.50	275.35	889.84	10.72	-1.37	8.71	0.94	0.83	-23.20	
980.00	2.31	284.73	979.79	11.29	-4.29	11.14	0.96	0.90	10.42	

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 921-26D1BS
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well NBU 921-26D1BS
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	2.25	299.98	1,069.72	12.63	-7.58	14.38	0.68	-0.07	16.94
1,160.00	2.69	306.10	1,159.63	14.76	-10.81	18.15	0.57	0.49	6.80
1,250.00	1.75	339.35	1,249.57	17.29	-13.01	21.49	1.73	-1.04	36.94
1,340.00	0.88	283.35	1,339.55	18.74	-14.16	23.34	1.62	-0.97	-62.22
1,430.00	1.50	264.85	1,429.53	18.79	-16.01	24.65	0.80	0.69	-20.56
1,520.00	1.94	280.35	1,519.49	18.96	-18.68	26.61	0.71	0.49	17.22
1,610.00	2.06	293.48	1,609.43	19.88	-21.66	29.33	0.53	0.13	14.59
1,700.00	2.44	319.60	1,699.37	21.98	-24.39	32.73	1.20	0.42	29.02
1,790.00	2.31	304.10	1,789.29	24.46	-27.13	36.42	0.73	-0.14	-17.22
1,880.00	2.38	298.48	1,879.22	26.36	-30.28	39.97	0.27	0.08	-6.24
1,970.00	2.19	307.60	1,969.14	28.30	-33.28	43.45	0.46	-0.21	10.13
2,060.00	2.00	313.10	2,059.08	30.43	-35.79	46.71	0.31	-0.21	6.11
2,150.00	1.63	312.98	2,149.04	32.37	-37.87	49.56	0.41	-0.41	-0.13
2,240.00	1.25	298.35	2,239.01	33.71	-39.67	51.77	0.58	-0.42	-16.26
2,330.00	1.31	287.73	2,328.99	34.49	-41.52	53.61	0.27	0.07	-11.80
2,420.00	1.50	272.48	2,418.96	34.85	-43.67	55.36	0.46	0.21	-16.94
2,480.00	1.63	262.31	2,478.94	34.77	-45.30	56.42	0.51	0.22	-16.95
Last Anadarko MWD Survey									
2,522.00	1.08	258.36	2,520.93	34.61	-46.28	56.98	1.33	-1.31	-9.40
First SDI Production MWD Survey									
2,613.00	1.76	286.67	2,611.90	34.84	-48.46	58.65	1.05	0.75	31.11
2,703.00	3.14	302.25	2,701.82	36.55	-51.87	62.24	1.69	1.53	17.31
2,794.00	4.29	319.70	2,792.63	40.48	-56.18	68.05	1.76	1.26	19.18
2,884.00	5.75	314.22	2,882.28	46.19	-61.59	75.92	1.71	1.62	-6.09
2,975.00	7.33	309.54	2,972.68	53.07	-69.33	86.24	1.83	1.74	-5.14
3,066.00	8.48	308.98	3,062.82	60.98	-79.03	98.65	1.27	1.26	-0.62
3,156.00	9.54	317.35	3,151.71	70.64	-89.24	112.69	1.87	1.18	9.30
3,247.00	11.77	315.97	3,241.14	82.87	-100.80	129.52	2.47	2.45	-1.52
3,337.00	13.21	314.25	3,329.00	96.64	-114.55	148.97	1.65	1.60	-1.91
3,428.00	14.45	316.75	3,417.37	112.17	-129.78	170.72	1.51	1.36	2.75
3,518.00	15.74	317.27	3,504.26	129.31	-145.75	194.15	1.44	1.43	0.58
3,609.00	16.32	318.05	3,591.72	147.89	-162.68	219.27	0.68	0.64	0.86
3,700.00	18.29	318.30	3,678.60	168.06	-180.72	246.33	2.17	2.16	0.27
3,790.00	19.89	316.42	3,763.64	189.70	-200.67	275.76	1.90	1.78	-2.09
3,881.00	20.77	316.01	3,848.98	212.52	-222.55	307.37	0.98	0.97	-0.45
3,971.00	21.16	319.15	3,933.02	236.29	-244.26	339.56	1.32	0.43	3.49
4,062.00	19.56	318.69	4,018.33	260.16	-265.06	371.18	1.77	-1.76	-0.51
4,152.00	18.92	317.58	4,103.30	282.25	-284.85	400.83	0.82	-0.71	-1.23
4,243.00	19.69	317.50	4,189.19	304.44	-305.16	430.91	0.85	0.85	-0.09
4,334.00	21.05	319.55	4,274.50	328.18	-326.12	462.55	1.69	1.49	2.25
4,424.00	21.09	316.51	4,358.48	352.23	-347.75	494.89	1.22	0.04	-3.38
4,515.00	20.85	315.31	4,443.45	375.62	-370.41	527.45	0.54	-0.26	-1.32
4,605.00	21.22	318.47	4,527.46	399.20	-392.47	559.74	1.33	0.41	3.51
4,696.00	21.67	320.02	4,612.16	424.40	-414.19	592.97	0.80	0.49	1.70
4,787.00	20.73	317.98	4,697.00	449.25	-435.76	625.84	1.31	-1.03	-2.24
4,877.00	20.43	317.74	4,781.26	472.70	-456.99	657.46	0.35	-0.33	-0.27
4,968.00	19.72	319.14	4,866.73	496.07	-477.71	688.68	0.94	-0.78	1.54
5,058.00	22.00	318.01	4,950.82	520.09	-498.93	720.70	2.57	2.53	-1.26
5,149.00	22.24	316.30	5,035.13	545.21	-522.23	754.96	0.76	0.26	-1.88
5,239.00	22.48	318.29	5,118.36	570.36	-545.44	789.19	0.88	0.27	2.21
5,330.00	19.67	318.11	5,203.27	594.76	-567.25	821.89	3.09	-3.09	-0.20
5,421.00	19.62	318.20	5,288.97	617.55	-587.66	852.47	0.06	-0.05	0.10
5,511.00	17.14	317.30	5,374.37	638.56	-606.73	880.84	2.77	-2.76	-1.00
5,602.00	14.97	319.44	5,461.82	657.35	-623.47	905.99	2.47	-2.38	2.35

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 921-26D1BS
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well NBU 921-26D1BS
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	13.12	319.61	5,549.12	673.96	-637.64	927.80	2.06	-2.06	0.19	
5,783.00	10.87	320.58	5,638.13	688.46	-649.79	946.67	2.48	-2.47	1.07	
5,873.00	9.45	318.47	5,726.72	700.55	-660.07	962.52	1.63	-1.58	-2.34	
5,964.00	8.32	312.97	5,816.63	710.63	-669.85	976.56	1.55	-1.24	-6.04	
6,054.00	6.88	307.47	5,905.83	718.34	-678.89	988.38	1.79	-1.60	-6.11	
6,145.00	5.16	301.29	5,996.33	723.79	-686.71	997.72	2.02	-1.89	-6.79	
6,236.00	3.27	307.57	6,087.08	727.49	-692.27	1,004.23	2.13	-2.08	6.90	
6,326.00	0.94	325.63	6,177.01	729.67	-694.72	1,007.50	2.66	-2.59	20.07	
6,417.00	0.24	9.57	6,268.01	730.47	-695.11	1,008.35	0.86	-0.77	48.29	
6,507.00	0.29	103.04	6,358.01	730.61	-694.86	1,008.27	0.43	0.06	103.86	
6,598.00	0.51	115.50	6,449.01	730.38	-694.27	1,007.70	0.26	0.24	13.69	
6,689.00	0.66	140.52	6,540.00	729.80	-693.57	1,006.80	0.32	0.16	27.49	
6,779.00	0.95	124.64	6,629.99	728.98	-692.62	1,005.55	0.40	0.32	-17.64	
6,870.00	0.66	168.61	6,720.98	728.04	-691.90	1,004.37	0.73	-0.32	48.32	
6,960.00	0.77	153.85	6,810.98	726.98	-691.53	1,003.36	0.24	0.12	-16.40	
7,051.00	0.93	166.23	6,901.97	725.72	-691.09	1,002.13	0.27	0.18	13.60	
7,141.00	0.42	271.39	6,991.96	725.02	-691.24	1,001.73	1.24	-0.57	116.84	
7,232.00	0.47	278.79	7,082.96	725.08	-691.94	1,002.26	0.08	0.05	8.13	
7,323.00	0.50	241.22	7,173.96	724.95	-692.66	1,002.66	0.34	0.03	-41.29	
7,413.00	0.77	302.11	7,263.95	725.08	-693.52	1,003.34	0.76	0.30	67.66	
7,503.00	0.41	305.76	7,353.95	725.59	-694.29	1,004.25	0.40	-0.40	4.06	
7,594.00	0.18	8.66	7,444.95	725.92	-694.53	1,004.65	0.40	-0.25	69.12	
7,685.00	0.12	89.17	7,535.95	726.06	-694.42	1,004.68	0.22	-0.07	88.47	
7,775.00	0.17	204.63	7,625.95	725.94	-694.38	1,004.56	0.27	0.06	128.29	
7,866.00	0.42	177.23	7,716.94	725.49	-694.42	1,004.26	0.31	0.27	-30.11	
7,956.00	0.42	171.96	7,806.94	724.83	-694.36	1,003.74	0.04	0.00	-5.86	
8,047.00	0.54	159.18	7,897.94	724.10	-694.16	1,003.08	0.18	0.13	-14.04	
8,137.00	0.27	118.10	7,987.94	723.61	-693.82	1,002.48	0.42	-0.30	-45.64	
8,228.00	0.41	122.50	8,078.94	723.33	-693.35	1,001.96	0.16	0.15	4.84	
8,318.00	0.32	72.18	8,168.93	723.23	-692.84	1,001.54	0.36	-0.10	-55.91	
8,409.00	0.55	143.46	8,259.93	722.96	-692.34	1,001.00	0.59	0.25	78.33	
8,499.00	0.17	188.12	8,349.93	722.48	-692.10	1,000.49	0.49	-0.42	49.62	
8,590.00	0.36	174.74	8,440.93	722.06	-692.10	1,000.18	0.22	0.21	-14.70	
8,685.00	0.49	195.77	8,535.93	721.37	-692.18	999.74	0.21	0.14	22.14	
Last SDI Production MWD Survey										
10,125.00	0.49	195.77	9,975.87	709.52	-695.53	993.46	0.00	0.00	0.00	
Projection To TD										

Targets

Target Name

- hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N-S (ft)	+E-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
NBU 921-26D1BS PBHL	0.00	0.00	9,949.00	716.36	-681.54	618,257.46	2,553,340.67	40° 0' 50.410 N	109° 31' 27.230 W
- actual wellpath misses target center by 15.41ft at 10098.04ft MD (9948.91 TVD, 709.74 N, -695.46 E)									
- Circle (radius 25.00)									

Checked By: _____ Approved By: _____ Date: _____

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 921-26D1BS YELLOW Spud Conductor: 8/22/2009 Spud Date: 8/26/2009
 Project: UTAH-UINTAH Site: NBU 921-26C PAD Rig Name No: ENSIGN 139/139, PROPETRO/
 Event: DRILLING Start Date: 8/21/2009 End Date: 12/11/2009
 Active Datum: RKB @4,984.00ft (above Mean Sea Leve) UWI: NE/NW/0/9/S/21/E/26/0/0/6/PM/N/820.00/W/0/1,661.00/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
8/26/2009	4:00 - 7:30	3.50	MIRU	01	B	P		RIG UP AIR BOWL, AND BOWIE LINE, WRAP KELLY HOSE, RIG UP COMPRESSOR AND BOOSTER.
	7:30 - 9:00	1.50	DRLSUR	02	A	P		AIR SPUD 8/26/2009 07:30 AIR HAMMER 44'- 180'
	9:00 - 11:00	2.00	DRLSUR	06	A	P		LD AIR HAMMER AND P/U 1.87 DEG BENT HOUSING MOTOR W/ 77.5 HRS. M/U BIT #1 HC507Z (2ND RUN) SN 7014376. P/U DIRECTIONAL TOOLS AND SCRIBE.
	11:00 - 13:00	2.00	DRLSUR	07	A	P		SERVICE RIG. WORK ON PIT PUMPS.
	13:00 - 15:00	2.00	MAINT	08	A	Z		WORK ON PIT PUMPS TO ESTABLISH PRIME. CHECKED FOOT VALVES, CHANGE PACKING.
8/27/2009	15:00 - 0:00	9.00	DRLSUR	02	D	P		DRILL SLIDE 180'- 1390' (1210', 134'/HR) WOB 22, ON/OFF PSI 1400/1150, GPM 650, RPM 35, DH RPM 104. ASSIST CIRC. W/ AIR BOOSTERS.
	0:00 - 15:00	15.00	DRLSUR	02	D	P		DRILL SLIDE 1390'-2470' (1080', 72'/HR) TD 8/27/2009 15:00 WOB 23K, RPM, 35, DH RPM 104, GPM 650, ON/OFF PSI 1500/1250'. AERATING W/ AIR BOOSTER.
	15:00 - 15:30	0.50	CSG	05	F	P		CIRC AND CLEAN HOLE.
	15:30 - 19:00	3.50	CSG	06	D	P		LD DS, LAY DOWN DIRECTIONAL TOOLS. MOTOR HRS=101.
	19:00 - 22:30	3.50	CSG	12	C	P		RUN 56 JTS OF 9-5/8", 36#, J-55, LT&C SURFACE CSG AND LAND FLOAT SHOE @ 2444.6' KB. BAFFLE WAS RAN IN SHOE JT, @ 2402' KB. CIRC THROUGH CSG 800' AND 1800'. RUN 200' OF 1". RIG DOWN. RELEASE RIG 8/27/2009 23:00
	22:30 - 23:00	0.50	RDMO	01	E	P		HOLD SAFETY MEETING. RIG UP CEMENTERS.
	23:00 - 0:00	1.00	CSG	12	E	P		PUMP 180 BBLs OF FLUSH H2O. PUMP 20 BBLs OF GEL WATER. PUMP 250 SX (170 BBLs) OF 11# YD 3.52, 23 GAL SK OF HI FILL MOD LEAD CEMENT. PUMP 200 SX (41 BBLs) OF 15.8#, 1.15 YD, 5 GAL/SK PREMIUM TAIL CEMENT. DROP PLUG OF FLY. DISPLACE CSG W/ 185.6 BBLs OF H2O. 500 PSI OF LIFT, BUMP PLUG 1000 PSI, FLOAT HELD, PARTIAL CIRC THROUGH OUT. GELL WATER TO SURFACE. PUMP 100 SX (20 BBLs) OF 15.8#, 1.15 YD, 5 GAL/SK TAIL CEMENT DOWN 1", NO RETURNS BACK. WAIT 2 HRS AND PUMP 150 SX (30 BBLs) DOWN BACK SIDE. DID NOT FILL, WILL FILL ON NEXT CEMENT JOB.
	12/1/2009	12:00 - 15:00	3.00	MIRU	01	C	P	
15:00 - 19:00		4.00	PRSPD	15	A	P		NUBOP,TEST RAMS,CHOKE,KILL,MANIFOLD TO 5K HI/250L,,ANNULAR 2.5KHI/250 L,CSG TO 1.5K,30 MIN,,
19:00 - 0:00		5.00	PRSPD	06	A	P		INSTALL WEARRING,P/U BIT #1,.23RPG MTR@1.5BEND,INSTALL MWD &ORIENTATE ,TIH TO 2300',INSTALL RUBBER,& LEVEL DERRICK
12/2/2009	0:00 - 14:30	14.50	DRLPRO	02	D	P		DIR DRILL F/2480 TO 3759 ,AVG 88,WOB 10-15,GPM480,PSI 1300,DIFF300,TORQ 5-8,BHRPM 165 ,STWT= 140-132-125 ,SURVEY EVERY 90'
	14:30 - 15:00	0.50	DRLPRO	07	A	P		DAILY RIG SERVICE
	15:00 - 0:00	9.00	DRLPRO	02	D	P		DIR DRILL F/3759 TO 4440',AVG 76,WOB 10-15,GPM480,PSI 1400,DIFF250,TORQ 6-8K,BHRPM 165 ,STWT= 150-138-130 ,SURVEY EVERY 90'

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 921-26D1BS YELLOW Spud Conductor: 8/22/2009 Spud Date: 8/26/2009
 Project: UTAH-UINTAH Site: NBU 921-26C PAD Rig Name No: ENSIGN 139/139, PROPETRO/
 Event: DRILLING Start Date: 8/21/2009 End Date: 12/11/2009
 Active Datum: RKB @4,984.00ft (above Mean Sea Leve) UWI: NE/NW/0/9/S/21/E/26/0/0/6/PM/N/820.00/W/0/1,661.00/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
12/3/2009	0:00 - 14:00	14.00	DRLPRO	02	D	P		DIR DRILL F/4440 TO 5472',AVG ,WOB 10-15,GPM480,PSI 1400,DIFF250,TORQ 6-8K,BHRPM 165 ,STWT= 165-150-135 ,SURVEY EVERY 90'
	14:00 - 14:30	0.50	DRLPRO	07	A	P		RIG SERVICE
	14:30 - 0:00	9.50	DRLPRO	02	D	P		DIR DRILL F/5472' TO 6295,AVG86 ,WOB 15-18,GPM480,PSI 1600,DIFF300,TORQ 8-10K,BHRPM 165 ,STWT= 195-160-140 ,SURVEY EVERY 90'
12/4/2009	0:00 - 12:00	12.00	DRLPRO	02	D	P		DIR DRILL F/6295 TO 7290,AVG 83 ,WOB 18-20,GPM480,PSI 1950,DIFF250,TORQ 10-12K,BHRPM 150 ,STWT= 195-160-140 ,SURVEY EVERY 90',MUD WT 8.8/36 5% LCM
	12:00 - 12:30	0.50	DRLPRO	07	A	P		RIG SERVICE
	12:30 - 0:00	11.50	DRLPRO	02	D	P		DIR DRILL F/ 7290 TO 8020 ,AVG 63 ,WOB 18-20,GPM480,PSI 1950,DIFF250,TORQ 10-12K,BHRPM 150 ,STWT= 205-175-150 ,SURVEY EVERY 90',MUD WT 9.6/38 8%LCM
12/5/2009	0:00 - 12:30	12.50	DRLPRO	02	D	P		DIR DRILL F/ 8020 TO 8670 ,AVG ,WOB 20,GPM480,PSI 2350,DIFF225,TORQ 10-12K,BHRPM 150 ,STWT= 250-190-160 ,SURVEY EVERY 90',MUD WT 10.5/38 10%LCM
	12:30 - 13:30	1.00	DRLPRO	05	B	P		CIRC OUT GAS,15' FLARE 900 UNITS,BK BEFORE 250,AFTER 39,RAISE WT 10.5-10.8,LCM 11%
	13:30 - 15:30	2.00	DRLPRO	02	D	P		DIR DRILL F/8670 TO 8725,AVG 27 ,WOB 22-24,GPM480,PSI 2350,DIFF225,TORQ 10-12K,BHRPM 150 ,STWT= 275-190-165 ,SURVEY EVERY 90',MUD WT 10.8/38 11%LCM
	15:30 - 23:30	8.00	DRLPRO	06	A	P		PUMP OUT 3 STDS,PUMPPILL,POOH 290K W/BIT #1,TIGHT HOLE @4950' UP TO 4880',60K OVER,REAM UP,,L/D MWD TOOLS& BIT#1 SERVICE TOPDRIVE ,TIGHTEN HYD HOSE
12/6/2009	0:00 - 8:00	8.00	DRLPRO	06	A	P		TIH BREAK CIRC @SHOE & 5200',FINISH TIH ,NO TIGHT HOLE
	8:00 - 14:00	6.00	DRLPRO	02	B	P		DRILL F/8725 TO 9125',AVG 67,LOST RETURNS,250 BBL LOSS,WT 11.2/42 17%
	14:00 - 19:00	5.00	DRLPRO	22	G	X		BUILD VOLUME& MIX LCM F/30%, WT 11.2/40,,TRANSFER MUD F/RIG 146 & 69=520 BBLs, 60 STKS 252 GPM,
	19:00 - 23:00	4.00	DRLPRO	02	B	P		DRILL F/9125 TO 9375,AVG 62,,LOSING MUD@1 BBL MIN AGAIN,100 BBLs,100STKS 1670 PSI 420GPM
12/7/2009	23:00 - 0:00	1.00	DRLPRO	22	G	X		POOH 20 TO 7575',, REGAIN CIRCULATION
	0:00 - 1:00	1.00	DRLPRO	22	G	X		POOH TO 7575'
	1:00 - 6:00	5.00	DRLPRO	22	G	X		STAGE IN HOLE EVERY 5-STNDS,ESTABLISH CIRCULATION 60-80-100 STKS,CHECK F/LOSES
	6:00 - 15:00	9.00	DRLPRO	02	B	P		DRILL F/9375 TO 9602',AVG 25,WOB 12-20,GPM 420,PSI 2300,DIFF 250-800,TORQ 9.8-15KDHHRPM100,STWT 270-200-180
	15:00 - 15:30	0.50	DRLPRO	07	A	P		RIG SERVICE,IDH HAND CHANGING FUSES
12/8/2009	15:30 - 22:30	7.00	DRLPRO	06	H	Z		POOH ,PUMP 2 OUT-PUMP DRY JOB,STRAIGHT PULL 80K OVER,BIT IS DBR
	22:30 - 0:00	1.50	DRLPRO	06	A	P		CHANGE BIT & MTR ,TIH TO SHOE TO CUT&SLIP DRLG LINE
	0:00 - 1:00	1.00	DRLPRO	06	A	P		TIH TO SHOE W/BIT #3
	1:00 - 4:00	3.00	DRLPRO	09	A	P		CUT & SLIP DRLG LINE
12/8/2009	4:00 - 7:30	3.50	DRLPRO	08	B	Z		THAW OUT KELLY HOSE & TOP DRIVE,RESET PICO,WILL NOT STAY RESET,
	7:30 - 12:30	5.00	DRLPRO	06	A	P		ATTEMPT TO CIRC,PLUGGED FLOAT & MTR,,POOH ,CHANGE MTR & FLOAT,

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 921-26D1BS YELLOW Spud Conductor: 8/22/2009 Spud Date: 8/26/2009
 Project: UTAH-UINTAH Site: NBU 921-26C PAD Rig Name No: ENSIGN 139/139, PROPETRO/
 Event: DRILLING Start Date: 8/21/2009 End Date: 12/11/2009
 Active Datum: RKB @4,984.00ft (above Mean Sea Leve) UWI: NE/NW/0/9/S/21/E/26/0/0/6/PM/N/820.00/W/0/1,661.00/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	12:30 - 22:00	9.50	DRLPRO	06	A	P		TIH,BREAK CIRC @1200' 2400', 5032,7550',TIH TO 9404',,NO LOSSES
	22:00 - 0:00	2.00	DRLPRO	03	E	P		WASH & REAM F/9404' TO 9602,NO OUT OF GAUGE HOLE SEEN, 5' FILL,ST WT 250-200-175 ,TORQ 9800,WOB 5-8,DIFF 50-100,
12/9/2009	0:00 - 11:00	11.00	DRLPRO	02	D	P		DRILL F/9602' TO 10,125 TD WELL
	11:00 - 12:00	1.00	DRLPRO	05	A	P		CIRC BTM UP
	12:00 - 14:30	2.50	DRLPRO	06	E	P		SHORT TRIP 10 STANDS
	14:30 - 16:00	1.50	DRLPRO	05	A	P		CIRC BTM UP TWICE
	16:00 - 22:30	6.50	DRLPRO	06	B	P		T.O.H F/ LOGS
	22:30 - 23:00	0.50	DRLPRO	14	B	P		PULL WEAR BUSHING
	23:00 - 0:00	1.00	DRLPRO	11	D	P		HELD S/M - R/U WEATHERFORD & RUN TRIPLE COMBO LOGS
12/10/2009	0:00 - 7:00	7.00	DRLPRO	11	D	P		FINISH LOGGING W/ WEATHERFORD LOGGERS DEPTH @ 10,128 & R/D
	7:00 - 11:00	4.00	DRLPRO	12	C	P		R/U CASING CREW & RUN 58 JTS TO SHOE FILL PIPE @ 20 JTS.
	11:00 - 12:00	1.00	DRLPRO	05	A	P		ATTEMPT TO CIRCULATE COULDN'T CIRC.
	12:00 - 16:30	4.50	DRLPRO	12	C	P		LAY DOWN 58 JTS OF CASING (FLOAT COLLAR FLOAT VALVE FELL OUT PLUG FLOAT SHOE.)
	16:30 - 0:00	7.50	DRLPRO	12	C	P		CLEAN UP FLOOR & GET NEW SHOE & FLOAT & RUN CASING 239 JTS PLUS MARKER. SHOE @ 10,093.37 - FLOAT COLLAR 10,050.97
12/11/2009	0:00 - 2:30	2.50	DRLPRO	12	C	P		FINISH RUNNING PROD STRING
	2:30 - 4:00	1.50	DRLPRO	05	A	P		CIRC BTM UP
	4:00 - 7:30	3.50	DRLPRO	12	E	P		HELD SAFETY MEETING W/ HALLIBURTON & TEST LINES TO 5000 PSI & CEMENT W/ 40 BBLS WATER AHEAD & F/ LEAD 390 SKS 12.1 PPG W/ YIELD 2.19 F/ TAIL 1350 SKS 14.3 PPG W/ YIELD 1.25 & DROP PLUG & DISPLACED W/ 156 BBLS WATER & BUMP PLUG W/ 500 PSI OVER FINAL CIRC PRESURE OF 2790 GOT BACK 36 WATER BACK NO CEMENT, & R/D
	7:30 - 14:00	6.50	DRLPRO	14	A	P		LAND CASING 70 K STRING WT & L/D LANDING JT & NIPPLE DOWN & WASH & CLEAN OUT PITS & RELEASED RIG @ 14:00 O'CLOCK ON 12/11/2009

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 921-26D1BS YELLOW Spud Conductor: 8/22/2009 Spud Date: 8/26/2009
 Project: UTAH-UINTAH Site: NBU 921-26C PAD Rig Name No:
 Event: COMPLETION Start Date: 1/14/2010 End Date: 2/11/2010
 Active Datum: RKB @4,984.00ft (above Mean Sea Leve) UWI: NE/NW/0/9/S/21/E/26/0/0/6/PM/N/820.00/W/0/1,661.00/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
1/28/2010	7:00 - 7:30	0.50	COMP	48		P		HSM. ROADING RIG & PICKING UP TUBING. PINCH POINTS
	7:30 - 9:30	2.00	COMP	30	A	P		ROAD RIG FROM NBU 922-31CT TO NBU 921-26D1BS. SPOT IN EQUIPMENT & RU RIG
	9:30 - 17:00	7.50	COMP	31	I	P		ND FRAC VALVES NU BOP. PU 3 7/8" BIT & SUB. DRIFT & TALLY 318 JTS OF 2 3/8" L-80 TBG. RU POWER SWIVEL EOT @ 10,045'.
1/29/2010	7:00 - 7:30	0.50	COMP	48		P		HSM. DRILLING OUT
	7:30 - 17:00	9.50	COMP	31	H	P		WHP 0 PSI, BRK CIRC W TMAC WATER. C/O 5' OF GUNK. TAG FLOAT COLLAR. DRILL FLOAT COLLAR & 20'. PBT 10,083'. CIRCULATE WELL CLEAN. POOH LD 319 JTS OF 2 3/8" L-80 TBG ON TRAILER. ND BOP NU FRAC VALVES. MIRU B&C QUICK TEST. PRESSURE TEST CASING & BOTH FRAC VALVES TO 7,000 PSI. RDMO B&C QUICK TEST. SWI RDMO RIG. PREPARED TO FRAC ON MONDAY.
2/1/2010	7:15 - 8:15	1.00	COMP	37	B	P		PERF STG 1)PU 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH PERF F/ 9882'-86', 4 SPF, 16 HOLES. 10046'-52', 4 SPF, 24 HOLES. TOTAL HOLES = 40. POOH. X-OVER FOR FRAC CREW.
	10:29 - 11:00	0.52	COMP	36	B	P		FRAC STG 1)WHP 875 PSI, BRK 4099 PSI @ 5.5 BPM. ISIP 2861 PSI, FG .72. PUMP 100 BBLS @ 45 BPM @ 5950 PSI = 60% HOLES OPEN. ISIP 0000 PSI, FG .00, NPI 000 PSI. MP 6295 PSI, MR 50.4 BPM, AP 5550 PSI, AR 44.5 BPM, PMP 1102 BBLS SW & 27,807 LBS OF 30/50 SND & 5,000 LBS OF 20/40 RESIN SND. TOTAL PROP 32,807 LBS, SWI, X-OVER FOR WL.
	11:10 - 12:10	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 @ 9659' P/U PERF F/ 9420'-22', 3 SPF, 6 HOLES. 9499'-02', 3 SPF, 9 HOLES. 9575'-78', 3 SPF, 9 HOLES. 9624'-29', 4 SPF, 20 HOLES. TOTAL HOLES = 44. POOH. X-OVER FOR FRAC CREW.
	14:13 - 15:36	1.38	COMP	36	B	P		FRAC STG 2)WHP 1570 PSI, BRK 3568 PSI @ 6.9 BPM. ISIP 2855 PSI, FG .73. PUMP 100 BBLS @ 48 BPM @ 6100 PSI = 60% HOLES OPEN. ISIP 2943 PSI, FG .74, NPI 88 PSI. MP 6420 PSI, MR 56.3 BPM, AP 5000 PSI, AR 50.8 BPM, PMP 3685 BBLS SW & 140,242 LBS OF 30/50 SND & 5,000 LBS OF 20/40 RESIN SND. TOTAL PROP 145,242 LBS, SWI, X-OVER FOR WL. ((CUT WHIGHT SAND 4,000# SHORT DUE T/ HIGH PSI.))

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 921-26D1BS YELLOW Spud Conductor: 8/22/2009 Spud Date: 8/26/2009
 Project: UTAH-UINTAH Site: NBU 921-26C PAD Rig Name No:
 Event: COMPLETION Start Date: 1/14/2010 End Date: 2/11/2010
 Active Datum: RKB @4,984.00ft (above Mean Sea Leve) UWI: NE/NW/09/S/21/E/26/0/0/6/PM/N/820.00/W/0/1,661.00/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	15:36 - 16:36	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 @ 9366' P/U PERF F/ 9179'-82', 3 SPF, 9 HOLES. 9245'-50', 3 SPF, 15 HOLES. 9331'-36', 4 SPF, 20 HOLES. TOTAL HOLES =44. POOH. SWIFN.
2/2/2010	9:10 - 10:08	0.97	COMP	36	B	P		FRAC STG 3)WHP 2100 PSI, BRK 4068 PSI @ 5.5 BPM. ISIP 3050 PSI, FG .76. PUMP 100 BBLS @ 50 BPM @ 6050 PSI = 68% HOLES OPEN. ISIP 2890 PSI, FG .75, NPI -160 PSI. MP 6450 PSI, MR 51.7 BPM, AP 5080 PSI, AR 50.7 BPM, PMP 2449 BBLS SW & 94,856 LBS OF 30/50 SND & 5,000 LBS OF 20/40 RESIN SND. TOTAL PROP 99,856 LBS, SWI. X-OVER FOR WL
	10:10 - 11:10	1.00	COMP	37	B	P		PERF STG 4)P/U 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 & 120 DEG PHASING. RIH SET CBP @ 9124' P/U PERF F/ 8990'-92', 4 SPF, 8 HOLES. 9011'-14', 4 SPF, 12 HOLES. 9040'-43', 4 SPF, 12 HOLES. 9090'-94', 3 SPF, 12 HOLES. TOTAL HOLES = 44. POOH. X-OVER FOR FRAC CREW.
	12:53 - 13:26	0.55	COMP	36	B	P		FRAC STG 4)WHP 2100 PSI, BRK 4268 PSI @ 4.8 BPM. ISIP 2979 PSI, FG .76. PUMP 100 BBLS @ 00.0 BPM @ 0000 PSI = 00% HOLES OPEN. ISIP 2700 PSI, FG .73, NPI -279 PSI. MP 6615 PSI, MR 42.6 BPM, AP 5775 PSI, AR 37 BPM, PMP 997 BBLS SW & 21,725 LBS OF 30/50 SND & 5,000 LBS OF 20/40 RESIN SND. TOTAL PROP 26,725 LBS, SWI. X-OVER FOR WL.
	13:26 - 14:10	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 DEG PHASING. RIH SET CBP @ 8660' P/U PERF F/ 8802'-06', 4 SPF, 16 HOLES. 8918'-24', 4 SPF, 24 HOLES. TOTAL HOLES = 40. POOH. X-OVER FOR FRAC CREW.
	16:16 - 16:42	0.43	COMP	36	B	P		FRAC STG 5)WHP 1285 PSI, BRK 5270 PSI @ 5.7 BPM. ISIP 2931 PSI, FG .76. PUMP 100 BBLS @ 51 BPM @ 5169 PSI = 100% HOLES OPEN. ISIP 2748 PSI, FG .74, NPI -183 PSI. MP 6125 PSI, MR 52.7 BPM, AP 4650 PSI, AR 51.3 BPM, PMP 688 BBLS SW & 18,053 LBS OF 30/50 SND & 5,000 LBS OF 20/40 RESIN SND. TOTAL PROP 23,053 LBS, SWI. X-OVER FOR WL.
	17:19 - 18:19	1.00	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 DEG PHASING. RIH SET CBP @ 8660' P/U PERF F/ 8571'-75', 4 SPF, 16 HOLES. 8624'-30', 4 SPF, 24 HOLES. TOTAL HOLES = 40. POOH. SWI, SDFN.

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-26D1BS YELLOW	Spud Conductor: 8/22/2009	Spud Date: 8/26/2009
Project: UTAH-UINTAH	Site: NBU 921-26C PAD	Rig Name No:
Event: COMPLETION	Start Date: 1/14/2010	End Date: 2/11/2010
Active Datum: RKB @4,984.00ft (above Mean Sea Leve		
UWI: NE/NW/0/9/S/21/E/26/0/0/6/PM/N/820.00/W/0/1,661.00/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
2/3/2010	8:20 - 9:48	1.47	COMP	36	B	P		FRAC STG 6)WHP 911 PSI, BRK 3672 PSI @ 5.5 BPM. ISIP 2505 PSI, FG .74. PUMP 100 BBLs @ 40 BPM @ 5744 PSI = 60% HOLES OPEN. ISIP 2860 PSI, FG .77, NPI 355 PSI. MP 6550 PSI, MR 40.5 BPM, AP 6030 PSI, AR 30.2 BPM, PMP 1556 BBLs SW & 19,485 LBS OF 30/50 SND & 5,000 LBS OF 20/40 RESIN SND. TOTAL PROP 24,485 LBS, SWI, X-OVER FOR WL. ((RUN 3000# SAND SWEEP @ .25 # T/ GET ZONE T/ BRK DOWN.))
	9:55 - 10:45	0.83	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 @ 8409' P/U PERF F/ 8097'-00', 4 SPF, 12 HOLES. 8160'-62', 4 SPF, 8 HOLES. 8194'-98', 3 SPF, 12 HOLES. 8375'-79', 3 SPF, 12 HOLES. TOTAL HOLES = 44. POOH. X-OVER FOR FRAC CREW.
	11:03 - 11:25	0.37	COMP	36	B	P		FRAC STG 7)WHP 630 PSI, BRK 3055 PSI @ 5.7 BPM. ISIP 2084 PSI, FG .69. PUMP 100 BBLs @ 51 BPM @ 4500 PSI = 93% HOLES OPEN. ISIP 23690000 PSI, FG .72, NPI 285 PSI. MP 5863 PSI, MR 51.4 BPM, AP 4030 PSI, AR 51.2 BPM, PMP 863 BBLs SW & 26,905 LBS OF 30/50 SND & 5,000 LBS OF 20/40 RESIN SND. TOTAL PROP 31,905 LBS. SWI, X-OVER FOR WL.
	11:30 - 12:20	0.83	COMP	37	B	P		PERF STG 8)PU 4 1/2 HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 8054' P/U PERF F/ 7904'-10', 4 SPF, 24 HOLES. 8020'-24', 4 SPF, 16 HOLES. TOTAL HOLES = 40. POOH, X-OVER FOR FRAC CREW.
	14:10 - 14:59	0.82	COMP	36	B	P		FRAC STG 8)WHP 650 PSI, BRK 2482 PSI @ 6.0 BPM. ISIP 1747 PSI, FG .65. PUMP 100 BBLs @ 50 BPM @ 5052 PSI = 60% HOLES OPEN. ISIP 2760 PSI, FG .78, NPI 1013 PSI. MP 6206 PSI, MR 51.3 BPM, AP 4560 PSI, AR 49.8 BPM, PMP 2052 BBLs SW & 69,572 LBS OF 30/50 SND & 5,000 LBS OF 20/40 RESIN SND. TOTAL PROP 74,572 LBS, SWI, X-OVER FOR WL.
	14:59 - 15:59	1.00	COMP	34	I	P		PU 4 1/2 8K HAL CBP. RIH SET CBP @ 7854'. POOH. DONE FRACING THIS WELL.
2/10/2010	7:00 - 7:30	0.50	COMP	48		P		DAY 6 - JSA & SM. NO H2S PRESENT.
	7:30 - 7:30	0.00	COMP	30	C	P		RDMO NBU 921-26B3S. MORU ON NBU 921-26D1BS. SPOT EQUIP. WHP = 0 PSI. 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" TBG. TAG FILL @ 7787'. LD 2 JTS. EOT @ 7724'. RU PWR SWVL & PMP. SWI - SDFN. PREP TO DRLG OUT 8 CBP's IN AM.
2/11/2010	7:00 - 7:15	0.25	COMP	48		P		DAY 7 - JSA & SM. NO H2S PRESENT

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 921-26D1BS YELLOW Spud Conductor: 8/22/2009 Spud Date: 8/26/2009
 Project: UTAH-UINTAH Site: NBU 921-26C PAD Rig Name No:
 Event: COMPLETION Start Date: 1/14/2010 End Date: 2/11/2010
 Active Datum: RKB @4,984.00ft (above Mean Sea Leve) UWI: NE/NW/0/9/S/21/E/26/0/0/6/PM/N/820.00/W/0/1,661.00/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	7:15 - 17:00	9.75	COMP	44	C	P		WHP = 0 PSI, EOT @ 7724'. EST CIRC, PT BOP TO 3000 PSI, RIH TAG FILL @ 7787'. C/O 53' OF SND. CBP #1) DRLG OUT HALCO 8K CBP @ 7840' IN 15 MIN. 700 PSI DIFF. RIH TAG FILL @ 8012'. C/O 42' OF SND. FCP = 0 PSI. CBP #2) DRLG OUT HALCO 8K CBP @ 8054' IN 16 MIN. 1000 PSI DIFF. RIH TAG FILL @ 8274'. C/O 35' OF SND. FCP = 50 PSI. CBP #3) DRLG OUT HALCO 8K CBP @ 8409' IN 15 MIN. 250 PSI DIFF. RIH TAG FILL @ 8628'. C/O 32' OF SND. FCP = 150 PSI. CBP #4) DRLG OUT HALCO 8K CBP @ 8660' IN 15 MIN. 700 PSI DIFF. RIH TAG FILL @ 8930'. C/O 30' OF SND. FCP = 150 PSI. CBP #5) DRLG OUT HALCO 8K CBP @ 8960' IN 15 MIN. 700 PSI DIFF. RIH TAG FILL @ 9099'. C/O 35' OF SND. FCP = 250 PSI. CBP #6) DRLG OUT HALCO 8K CBP @ 9134' IN 10 MIN. 1100 PSI DIFF. RIH TAG FILL @ 9321'. C/O 45' OF SND. FCP = 300 PSI. CBP #7) DRLG OUT HALCO 8K CBP @ 9366' IN 20 MIN. 1300 PSI DIFF. RIH TAG FILL @ 9634'. C/O 25' OF SND. FCP = 00 PSI. CBP #8) DRLG OUT HALCO 8K CBP @ 9659' IN 20 MIN. 1000 PSI DIFF. RIH TAG FILL @ 10049'. PBT @ 10083'. C/O 33' OF SND. FCP = 350 PSI. EOT @ 10082'. BTM PERF @ 10052'. CIRC WELL CLEAN. RD PWR SWVL, RU TBG EQUIP. POOH & LD 21 JTS ON FLOAT (26 JTS TOTAL ON FLOAT) LND TBG ON HNGR W/297 JTS NEW 2 3/8" 4.7# L80 TBG. SICP = 2050 PSI. EOT @ 9396.77'. XN NIPPLE @ 9394.57'. AVG 16 MIN/PLUG, C/O 312' SND TOTAL. RD TBG EQUIP. & FLOOR. ND BOP, DROP BALL, NUWH. PMP OFF BIT @ 2700 PSI. WAIT 30 MIN FOR BIT TO FALL TO BTM. OPEN WELL TO F.B.T. ON 20 CHOKE. TURN WELL OVER TO F.B.C. RD RIG & MOVE OVER ON NBU 921-26D1CS 17:00 - SDFN. 7 AM FLBK REPORT: CP 2850#, TP 2100#, 20/64" CK, 45 BWPH, HEAVY SAND, LIGHT GAS TTL BBLs RECOVERED: 2283 BBLs LEFT TO RECOVER: 11329 7 AM FLBK REPORT: CP 2200#, TP 2150#, 20/64" CK, 40 BWPH, HEAVY SAND, MEDIUM GAS TTL BBLs RECOVERED: 3493 BBLs LEFT TO RECOVER: 7089 7 AM FLBK REPORT: CP 2150#, TP 2200#, 16/64" CK, 35 BWPH, HEAVY SAND, - GAS TTL BBLs RECOVERED: 4263 BBLs LEFT TO RECOVER: 6319
2/12/2010	7:00 -			33	A			
2/13/2010	7:00 -			33	A			
2/14/2010	7:00 -			33	A			

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 921-26D1BS YELLOW	Spud Conductor: 8/22/2009	Spud Date: 8/26/2009
Project: UTAH-UINTAH	Site: NBU 921-26C PAD	Rig Name No:
Event: COMPLETION	Start Date: 1/14/2010	End Date: 2/11/2010
Active Datum: RKB @4,984.00ft (above Mean Sea Leve		
UWI: NE/NW09/S21/E26/O0/6/PM/N820.00/W0/1,661.00/O0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	11:00 -		PROD	50				
2/15/2010	7:00 -			33	A			WELL TURNED TO SALES @ 1100 HR ON 2/14/10 - 2200 MCFD, 840 BWPD, CP 2150#, FTP 2150#, CK 20/64"
								7 AM FLBK REPORT: CP 2125#, TP 2075#, 20/64" CK, 30 BWPH, MEDIUM SAND, MEDIUM GAS TTL BBLs RECOVERED: 4983 BBLS LEFT TO RECOVER: 5599
2/16/2010	7:00 -			33	A			7 AM FLBK REPORT: CP 2100#, TP 2150#, 16/64" CK, 25 BWPH, LIGHT SAND, - GAS TTL BBLs RECOVERED: 5623 BBLS LEFT TO RECOVER: 4959

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 921-26D1BS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		9. API NUMBER: 43047503630000
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: 0820 FNL 1661 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> <div style="text-align: right;"> <p>Approved by the Utah Division of Oil, Gas and Mining</p> <p>Date: <u>07/11/2011</u></p> <p>By: <u><i>Dark K. Quist</i></u></p> </div>		
NAME (PLEASE PRINT) Gina Becker	PHONE NUMBER 720 929-6086	TITLE Regulatory Analyst II
SIGNATURE N/A		DATE 6/28/2011

WORKORDER #:

Name: NBU 921-26D1BS - [921-26C PAD] 6/16/2011
Surface Location: NENW Sec. 26, T9S, R21E
 Uintah County, UT

API: 4304750363 **LEASE#:** UO-01194

ELEVATIONS: 4970' GL 4984' KB

TOTAL DEPTH: 10,125' **PBTD:** 10,063'

SURFACE CASING: 9 5/8", 36# J-55 @ 2454'

PRODUCTION CASING: 4 1/2", 11.6#, I-80 @ 10,107'
 TOC @ 808' per CBL

PERFORATIONS: Mesaverde 7904' - 10,052'

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:

1541' Green River
 2223' Mahogany
 5008' Wasatch
 7865' Mesaverde

NBU 921-26D1BS- 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 @ ~7854'. 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:

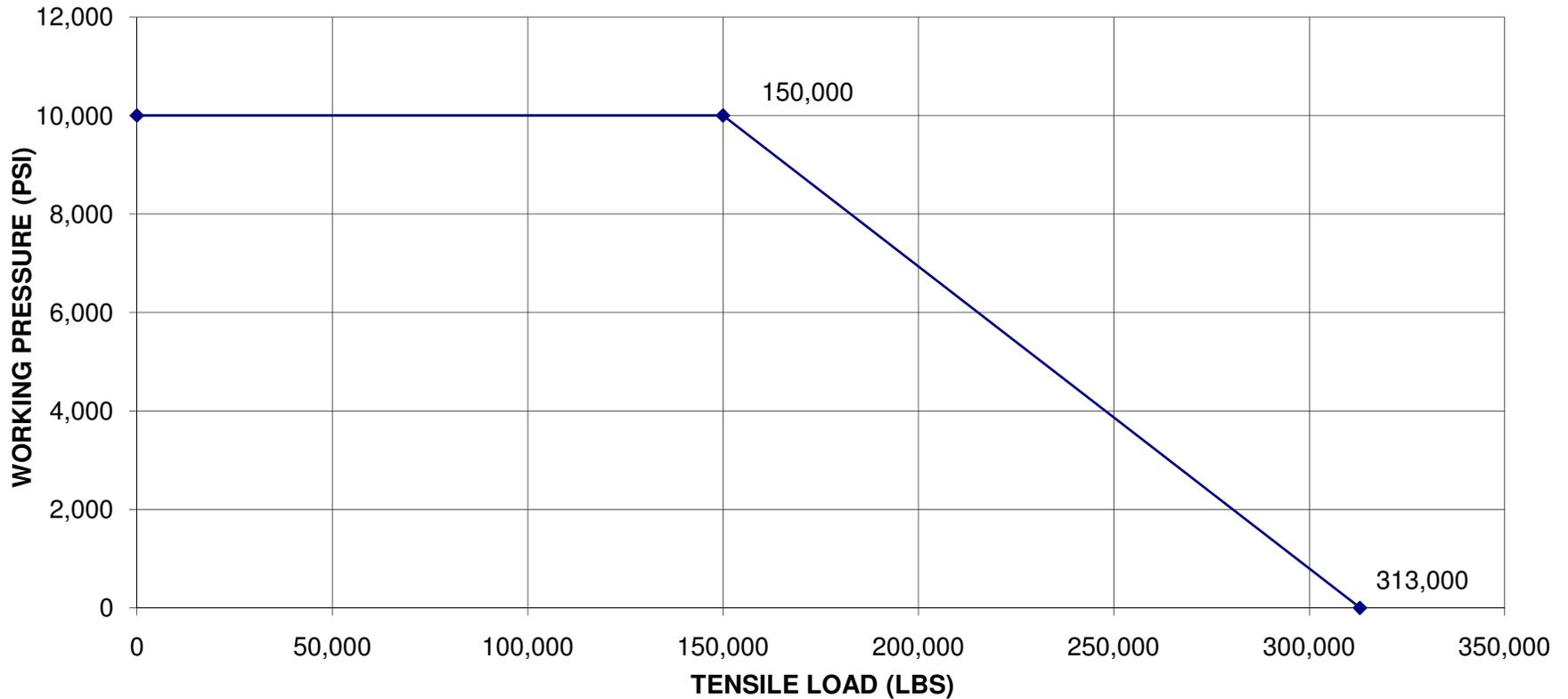
1. PU internal casing cutters and RIH. Cut casing at +/- 30' from surface.
2. POOH, LD cutters and casing.
3. PU 7 3/8" overshoot with 4 1/2" right hand standard wicker grapple, 1 - 4 3/4" drill collar with 3 1/2" IF threads, pup joint, manual bumper sub, and crossovers. If casing cut is deeper than ±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 ~7804'. Clean out to PBSD (10,063').
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 ~7804'. Clean out to PBTD (10,063').
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

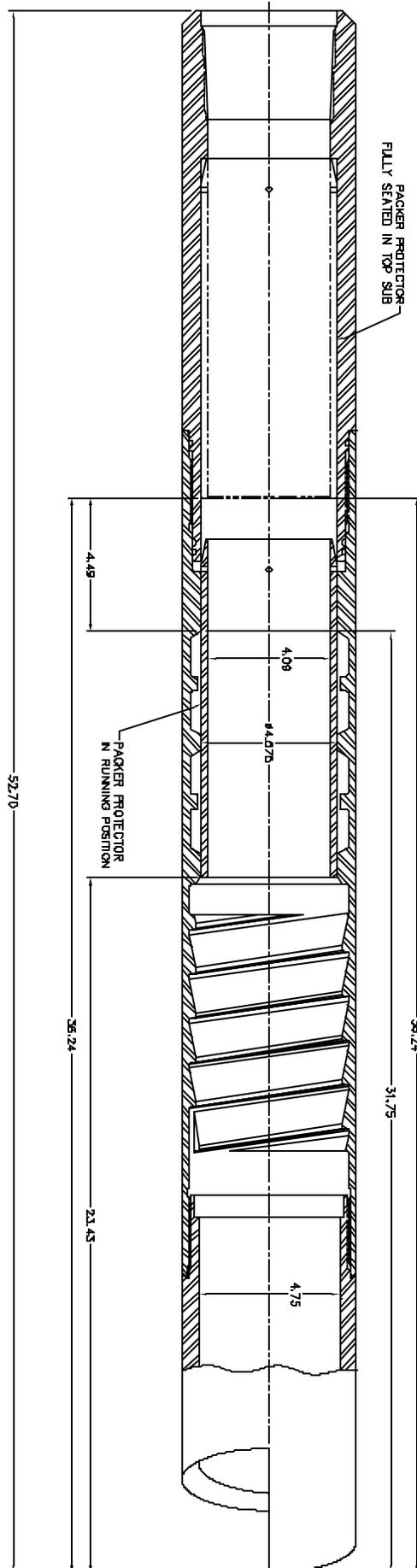


Logan High Pressure Casing Patches Assembly Procedure

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 921-26D1BS	
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047503630000	
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: 0820 FNL 1661 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: 9/1/2011 <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 9/1/2011	

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-26D1BS YELLOW		Spud Conductor: 8/22/2009		Spud Date: 8/26/2009				
Project: UTAH-UINTAH			Site: NBU 921-26C PAD			Rig Name No: LEED 698/698		
Event: WELL WORK EXPENSE			Start Date: 7/27/2011			End Date: 8/3/2011		
Active Datum: RKB @4,984.00ft (above Mean Sea Level)				UWI: NE/NW/0/9/S/21/E/26/0/0/6/PM/N/820.00/W/0/1,661.00/0/0				
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
7/27/2011	12:30 - 13:00	0.50	ALL	48		P		HSM, REVIEW RIGGING UP.
	13:00 - 14:30	1.50	ALL	30	A	P		MIRU.
	14:30 - 15:30	1.00	ALL	30	F	P		FCP. 129 PSI. FTP. 129 PSI. BLEW TBG DWN, CONTROL TBG W/ 10 BBLs. ND WH, NU BOP'S, RU FLOOR & TBG EQUIPMENT,
	15:30 - 18:30	3.00	ALL	31	I			UNLAND TBG HANGER, POOH 297 JTS. 2-3/8 L-80 TBG, SWI, SDFN.
7/28/2011	7:00 - 7:10	0.17	ALL	48		P		HSM, REVIEW SETTING CBP.
	7:10 - 7:20	0.17	ALL	30	E	P		BLEW CSG DWN, CONTROL CSG W/ 25 BBLs.
	7:20 - 8:00	0.67	ALL	34	I	P		RU J-W WIRELINE COMPANY, RIH 4-1/2 BAKER 10K CBP & SET @ 7840', POOH TOOLS,
	8:00 - 9:30	1.50	ALL	34	D	P		RU CMT BAILER, RIH & DUMP 4 SXS CLASS "G" CMT ON TOP OF PLUG, MADE 2 RUNS, RD J-W WIRELINE COMPANY.
	9:30 - 10:00	0.50	ALL	47	A	P		RD FLOOR & TBG EQUIPMENT, FILL CSG W/ T-MAC, ND BOP'S, RU PWR SWVL.
	10:00 - 12:30	2.50	ALL	31	B	P		PU INTERNAL CSG CUTTER & RIH, CUT 4-1/2 CSG 3' F/ SURFACE, RD PWR SWVL, POOH, LD CUTTER & CSG, SCREW CSG BOWL, PU 4-1/2 OVER SHOT & RIH, LATCH FISH, MIRU CSG CREW & WIRELINE SERVICES, RIH & STRING SHOT CSG COLLAR, BACK-OFF CSG PUP JNT, PU NEW 10' CSG JNT, TAG CSG TOP, THREADS INTO CSG & TORQUE TO 7000# W/ 24.5 ROTATIONS ON 4-1/2 CSG, RD WIRELINE SERVICES & CSG CREW, PU CSG TO 100,000# TENSION.
	12:30 - 13:30	1.00	ALL	33	C	P		RU B&C QUICK TEST, P.T. 4-1/2 CSG TO 1000 PSI. FOR 15 MINS, LOST 40 PSI IN 15 MINS, P.T. 4-1/2 TO 3500 PSI. LOST 50 PSI IN 4 MINS, P.T. 2 ND TEST LOST 75 PSI. IN 6 MINS, 3RD TEST LOST 110 PSI IN 9 MINS, RD B&C QUICK TEST.
	13:30 - 16:00	2.50	ALL	47	C	P		SET SLIPS, LAND CSG W/ 80,000# TENSION, CUT & DRESS CSG STUB, NU CSG BOWL, NU BOP'S, RU FLOOR & TBG EQUIPMENT, SWI, SDFN.
7/29/2011	8:00 - 8:30	0.50	ALL	48		P		HSM, PRESSURE TESTING
	8:30 - 10:30	2.00	ALL	31	C	P		PU, RIH, 2-3/8 L-80 TBG & ARROW PACKER, SET PKR @ 3174' PRESSURE TEST TBG & BELOW PACKER TO 3500# LOST 100 PSI. IN 2 MINS, TEST CSG TO 3500 PSI. HELD.
	10:30 - 17:00	6.50	ALL	31	C	P		RIH, 2 3/8 TBG PRESSURE CSG TO 3500 PSI. HELD, TEST TBG TO 3500 PSI. LOST 60 PSI IN 4 MINS, RELEASE PKR, RIH TBG TO 5446' SET PKR, TESTED CSG TO 3500 PSI. FAILED, TEST TBG TO 3500 PSI. HELD, RELEASE PKR, POOH 36 JTS. TO 4308', SET PKR, TEST CSG TO 3500 PSI. HELD, RELEASE PKR, RIH 18 JTS. TAG & FELL THROUGH @ 4702', SET PKR 4878' ATTEMPT TO TEST CSG TO 3500 PSI. PKR FAIL, RELEASE PKR, POOH TBG & LD PKR, PU, 4-1/2 HD PKR, RIH, 148 JNTS 2-3/8 L-80 TBG, EOT @ 4690' SWI, SDFWE.
8/1/2011	7:00 - 7:30	0.50	ALL	48		P		HSM, REVIEW SET & UNSET HD 4-1/2 PKR.

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-26D1BS YELLOW Spud Conductor: 8/22/2009 Spud Date: 8/26/2009
 Project: UTAH-UINTAH Site: NBU 921-26C PAD Rig Name No: LEED 698/698
 Event: WELL WORK EXPENSE Start Date: 7/27/2011 End Date: 8/3/2011
 Active Datum: RKB @4,984.00ft (above Mean Sea Leve UWI: NE/NW/0/9/S/21/E/26/0/0/6/PM/N/820.00/W/0/1,661.00/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	7:30 - 11:30	4.00	ALL	31	C	P		SET HD PKR @ 4684', TEST CSG TO 3200 PSI. HELD, TEST TBG TO 3000 PSI. FAILED, RELEASE PKR. RIH & SET PKR @ 5065' TEST CSG TO 3200 PSI, HELD, TEST TBG FAILED, RELEASE PKR, RIH SET 5253', SET PKR, TEST TBG TO 3200 PSI. LOST 100 PSI IN 4 MINS, TEST CSG TO 3200 PSI, LOST 40 PSI. IN 4 MINS, RELEASE PKR, POOH 2 JTS. SET PKR 5190', TEST CSG TO 3200 PSI. HELD, RELEASE PKR, RIH & SET PKR @ 5285' TEST TBG TO 3200 PSI. LOST 100 PSI. IN 9 MINS, RELEASE PKR RIH & SET 5350' TEST TBG TO 3200 PSI. 100 PSI. IN 9 MINS, RELEASE PKR. RIH & SET PKR 5410' TEST TBG TO 3200 PSI. LOST 50 PSI. IN 5 MINS, CSG COLLAR #1. 5230', #2. 5272', #3. 5314', #4. 5356', #5. 5398', # 6. 5441', LOCATED CSG LEAK F/ 5190' TO 5447'.
	11:30 - 15:00	3.50	ALL	31	I	P		RELEASE PKR, POOH 170 JTS. 2-3/8 L-80 TBG, LD 4-1/2 HD PKR, PU 3-7/8 MILL, BIT SUB, RIH 246 JTS. 2-3/8 L-80 TBG, TAG CMT @ 7800', W/ 246 JTS. IN WELL, SWI, SDFN.
8/2/2011	7:00 - 7:30	0.50	ALL	48		P		HSM, REVIEW AIR FOAM UNIT
	7:30 - 8:00	0.50	ALL	47	A	P		RU PWR SWVL, RU TECH FOAM,
	8:00 - 12:00	4.00	ALL	44	A	P		BROKE CIRC 20 MINS, TAG CMT @ 7800' D/O CMT F/ 7800' TO 7840' IN 6 MINS, D/O CBP F/ 7840' IN 4 MINS, HAD 250 PSI. INCREASE, POOH 3 JTS. TO REMOVE TSF, LD PWR SWVL, FELL THROUGH, PU & RIH 8 JTS. F/ TRAILER & TAG BARIUM SCALE @ 9626', W/ 305 JTS. INSTALL TSF, RU PWR SWVL, BROKE CIRC IN 10 MINS, D/O F/ 9626' TO 9641' FELL THROUGH, LD PWR SWVL, RIH & TAG PBD @ 10,063' CIRC HOLE CLEAN, RD TECH FOAM.
	12:00 - 18:30	6.50	ALL	31	I	P		POOH & LD 22 JTS. 2-3/8 L-80 TBG ON TRAILER, POOH 297 JTS. 2-3/8 L-80 PROD TBG, LD MILL, PU 1.875 XN HALF POBS & RIH 149 JTS. EOT @ 4705', RU SWAB EQUIPMENT & RIH W/ 1.9 BROACH TO 4705', POOH & LD SWAB EQUIPMENT, FINISH RIH 148 JTS. TBG, RU SWAB EQUIPMENT, RIH W/ 1.9 & BROACH TBG TO EOT @ 4674' POOH, RD SWAB EQUIPMENT, LAND TBG HANGER, SWI, SDFN.
8/3/2011	7:00 - 7:30	0.50	ALL	48		P		HSM, REVIEW RD.
	7:30 - 9:00	1.50	ALL	47	A	P		SICP. 600 PSI. SITP. 600 PSI. BLEW TBG DWN, CONTROL TBG W/ 10 BBLs, RD FLOOR & TBG EQUIPMENT, ND BOP'S, NU WH, RDMO.
TBG DETAIL								
KB-----13' HANGER-----83" 297 JTS. 2-3/8 L-80 TBG @-----9380.74' 1.875 XN HALF POBS-----2.20' EOT @-----9396.77' WLTR. 85 BBLs. TOP PERF @ 7904' BTM PERF @ 10,052' PBD @ 10,063' API # 43047503630000 NOTE: CSG LEAK F/ 5190'- 5447'								

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
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 921-26D1BS
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0820 FNL 1661 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENW Section: 26 Township: 09.0S Range: 21.0E Meridian: S	9. API NUMBER: 43047503630000
5. PHONE NUMBER: 720 929-6511	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 checked="" 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: <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 Mesaverde formation. The operator is proposing to re-complete the Wasatch formation. The operator also requests authorization to commingle the newly Wasatch and existing Mesaverde formations. Please refer to the attached re-completion procedures.

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

Date: May 24, 2012

By: 

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 43047503630000

Authorization: Board Cause No. 173-14.

Greater Natural Buttes Unit



NBU 921-26D1BS
RE-COMPLETIONS PROCEDURE

DATE:4/26/2012
AFE#:
API#:4304750363
USER ID:OOT937 (Frac Invoices Only)

COMPLETIONS ENGINEER: Michael Sollee, Denver, CO
(720)-929-6057 (Office)
(832)-859-0515 (Cell)

SIGNATURE:

ENGINEERING MANAGER: JEFF DUFRESNE

SIGNATURE:

REMEMBER SAFETY FIRST!

Name: NBU 921-26D1BS
Location: NE NW Sec 26 T9S R21E
LAT: 40.012000 **LONG: -109.522486** **COORDINATE: NAD83 (Surface Location)**
Uintah County, UT
Date: 4/26/2012

ELEVATIONS: 4970' GL 4984' KB *Frac Registry TVD: 9976*

TOTAL DEPTH: 10125' **PBTD:** 10062'
SURFACE CASING: 9 5/8", 36# J-55 LT&C @ 2455'
PRODUCTION CASING: 4 1/2", 11.6#, N-80 BT&C @ 9807'
4 1/2", 11.6#, P-110 LT&C @ 9807-10107'
Marker Joint **4956-4976 and 9755-9775'**

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:

1549' Green River Top
1745' Bird's Nest Top
2362' Mahogany Top
4985' Wasatch Top
7883' Mesaverde Top
*Based on latest geological interpretation

BOTTOMS:

7883' Wasatch Bottom
10125' Mesaverde Bottom (TD)

T.O.C. @ 900' Cutter's CBL 1/13/2010

**Based on latest interpretation of CBL

Hydraulic Isolation: 1080

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 Weatherfords Induction-Density-Neutron log dated 12/10/2009
- **6** fracturing stages required for coverage.
- Procedure calls for **7** CBP's (**8000** psi) .
- Calculate open perforations after each breakdown. If less than 60% of the perforations appear to be open, ball out with 15% HCl.
- Pump scale inhibitor at 0.5 gpt and none in final flush.
- 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 3; OVERFLUSH BY 5 BBLs**
- Tubing Currently Landed @~9396
- Originally completed on 2/1/2010

Existing Perforations:

<u>Formation</u>	<u>Zone</u>	<u>Top</u>	<u>Btm</u>	<u>spf</u>	<u>Shots</u>
MESAVERDE		7904	7910	4	24
MESAVERDE		8020	8024	4	16
MESAVERDE		8097	8100	4	12
MESAVERDE		8160	8162	4	8
MESAVERDE		8194	8198	3	12
MESAVERDE		8375	8379	3	12
MESAVERDE		8571	8575	4	16
MESAVERDE		8624	8630	4	24
MESAVERDE		8802	8806	4	16
MESAVERDE		8918	8924	4	24
MESAVERDE		8990	8992	4	8
MESAVERDE		9011	9014	4	12
MESAVERDE		9040	9043	4	12
MESAVERDE		9090	9094	3	12
MESAVERDE		9179	9182	3	9
MESAVERDE		9245	9250	3	15
MESAVERDE		9331	9336	4	20
MESAVERDE		9420	9422	3	6
MESAVERDE		9499	9502	3	9
MESAVERDE		9575	9578	3	9
MESAVERDE		9624	9629	4	20
MESAVERDE		9882	9886	4	16
MESAVERDE		10046	10052	4	24

Relevant History:Workover Report for WH repair 7/27/2011 - **NOTE: CSG LEAK F/ 5190' - 5447'**

Wins No.: 29951		NBU 921-26D1BS YELLOW											
Well Operations Summary Short													
Operator	KERR-MCGEE OIL & GAS ONSHORE LP	FIELD NAME	GNB NATURAL BUTTES	SPUD CONDUCTOR	8/22/2009	SPUD DATE	8/28/09	GL	4,970	KB	4974	ROUTE	V34
API	4304750363	STATE	UTAH	COUNTY	UINTAH	DIVISION	US ROCKIES REGION						
Long/Lat:	40.01204 / -109.52180		Q-Q/Sec/Town/Range:	NENW / / 28 / 9S / 21E			Footages:	820.00' FNL 1,861.00' FWL					
Wellbore: NBU 921-26D1BS													
MTD	10,125	TVD	9,976	PBMD	10,051	PBTVD	9,902						
EVENT INFORMATION:	EVENT ACTIVITY: WELL WORK EXPEI			START DATE: 7/27/2011			AFE NO.: 88152550						
	OBJECTIVE: DEVELOPMENT			END DATE: 8/3/2011									
	OBJECTIVE 2: CASING FAILURE			DATE WELL STARTED PROD.: 8/26/2009									
	REASON: WH REPAIR			EVENT END STATUS: COMPLETE									
RIG OPERATIONS:	Begin Mobilization	Rig On Location	Rig Charges	Rig Operation Start	Finish Drilling	Rig Release	Rig Off Location						
	LEED 698 / 698	07/27/2011					08/03/2011						
7/27/2011	<u>SUPERVISOR:</u> DON DE HERRERA						<u>MD:</u>						
	MIRU, FCP. 129 PSI. FTP. 129 PSI. BLEW TBG DWN, CONTROL TBG W/ 10 BBLs. ND WH, NU BOP'S, RU FLOOR & TBG EQUIPMENT, UNLAND TBG HANGER, POOH 297 JTS. 2-3/8 L-80 TBG,												
7/28/2011	<u>SUPERVISOR:</u> DON DE HERRERA						<u>MD:</u>						
	BLEW CSG DWN, CONTROL CSG W/ 25 BBLs.RU J-W WIRELINE COMPANY, RIH 4-1/2 CBP & SET @ 7840', DUMP 4 SXS CMT ON TOP OF PLUG, CUT CSG, BACK-OFF CSG, TORQUE CSG, MADE 24.5 TURNS, P.T. CSG, DID NOT PASS, SET SLIPS & INSTALL WH, W/O ORDERS. SWI, SDFN.												
7/29/2011	<u>SUPERVISOR:</u> T.C. RICH						<u>MD:</u>						
	PU 4-1/2 PKR & RIH W/ TBG TO LOCATE CSG LEAK, PKR LEAKING, POOH TBG & PKR, LD PKR, RIH ANOTHER PKR & TBG TO 4690', SWI, SDFWE.												
8/1/2011	<u>SUPERVISOR:</u> DON DE HERRERA						<u>MD:</u>						
	SET PKR 4684' CSG OK, TBG LEAK, SET PKR @ 5065' CSG HELD, & TBG LEAK,SET PKR 5253' TBG FAILED & CSGLEAK, SET PKR 5190' CSG OK, SET PKR. 5285' TBGLEAK, SET PKR @ 5350' TBG LEAK, LOCATED CSG F/ 5190' - 5447' POOH TBG , LD PKR, RIH W/MILL & TBG, SWI. SDFN.												
8/2/2011	<u>SUPERVISOR:</u> DON DE HERRERA						<u>MD:</u>						
	RU PWR SWVL, RU TECH FOAM, BROKE CIRC 20 MINS, TAG CMT @ 7800' D/O CMT F/ 7800' TO 7840' IN 6 MINS, D/O CBP F/ 7840' IN 4 MINS, HAD 250 PSI. INCREASE, C/O SCALE F/ 9626' TO PBTD 10,040' CIRC HOLE CLEAN, POOH TBG, RIH TBG, BROACH TBG, LAND TBG, SWI, SDFN.												
8/3/2011	<u>SUPERVISOR:</u> DON DE HERRERA						<u>MD:</u>						
	SICP. 600 PSI. SITP. 600 PSI. BLEW TBG DWN, CONTROL TBG W/ 10 BBLs, RD FLOOR & TBG EQUIPMENT, ND BOP'S, RDMO, MOVE RIG TO NBU 921-26B3S.												

H2S History:

Production Date	Gas (avg mcf/day)	Water (avg)	Oil (avg bbl/day)	LGR (bbl/Mmcf)	Max H2S Seperator (ppm)
12/31/2010	685.48	29.19	0.94	43.95	
1/31/2011	624.58	29.19	1.06	48.45	
2/28/2011	624.04	29.18	0.96	48.30	
3/31/2011	555.00	29.19	0.97	54.34	
4/30/2011	502.67	29.20	1.10	60.28	
5/31/2011	518.03	28.13	0.90	56.04	
6/30/2011	500.73	29.20	0.93	60.18	
7/31/2011	418.16	29.10	0.81	71.51	
8/31/2011	509.42	29.10	0.61	58.32	
9/30/2011	467.40	29.20	0.53	63.61	2.00
10/31/2011	459.10	28.48	0.58	63.31	
11/30/2011	438.00	24.87	1.53	60.27	
12/31/2011	434.39	20.35	2.35	52.28	
1/31/2012	436.77	21.52	2.39	54.73	0.00
2/29/2012	427.28	22.00	2.69	57.78	
3/31/2012	408.68	21.45	3.03	59.91	

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

- MIRU. Control well with recycled water and biocide as required. ND WH, NU BOP's and test.
- TOOH with 2-3/8", 4.7#, J-55 (or N-80) tubing (currently landed at ~9396'). Visually inspect for scale and consider replacing if needed.
- If tbg looks ok consider running a gauge ring to 7872 (50' below proposed CBP). Otherwise P/U a mill and C/O to 7872 (50' below proposed CBP).
- Set 8000 psi CBP at ~ 7822'. 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.
- Perf the following with 3-3/8" gun, 23 gm, 0.36"hole:

Zone	From	To	spf	# of shots
WASATCH	7581	7582	4	4
WASATCH	7593	7594	4	4
WASATCH	7614	7615	4	4

WASATCH	7722	7723	4	4
WASATCH	7731	7732	4	4
WASATCH	7791	7792	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 ~7,581' and trickle 250gal 15%HCL w/ scale inhibitor in flush .

7. Set 8000 psi CBP at ~7,461'. Perf the following 3-3/8" gun, 23 gm, 0.36" hole:

Zone	From	To	spf	# of shots
WASATCH	7246	7247	4	4
WASATCH	7363	7364	4	4
WASATCH	7378	7380	3	6
WASATCH	7397	7398	4	4
WASATCH	7430	7431	4	4

8. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 2 on attached listing. Under-displace to ~7,246' and trickle 250gal 15%HCL w/ scale inhibitor in flush.

9. Set 8000 psi CBP at ~7,172'. Perf the following with 3-3/8" gun, 23 gm, 0.36" hole:

Zone	From	To	spf	# of shots
WASATCH	6994	6996	3	6
WASATCH	7032	7033	4	4
WASATCH	7112	7113	4	4
WASATCH	7128	7129	4	4
WASATCH	7141	7142	4	4

10. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 3 on attached listing. Under-displace to ~6,994' and trickle 250gal 15%HCL w/ scale inhibitor in flush.

NOTE: TIGHT SPACING THIS STAGE, OVERFLUSH BY 5BBLs

11. Set 8000 psi CBP at ~6,960'. Perf the following with 3-3/8" gun, 23 gm, 0.36" hole:

Zone	From	To	spf	# of shots
WASATCH	6773	6774	3	3
WASATCH	6816	6818	3	6
WASATCH	6835	6837	3	6
WASATCH	6917	6918	3	3
WASATCH	6928	6930	3	6

12. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 4 on attached listing. Under-displace to ~6,773' and trickle 250gal 15%HCL w/ scale inhibitor in flush.

13. Set 8000 psi CBP at ~6,621'. Perf the following with 3-3/8" gun, 23 gm, 0.36" hole:

Zone	From	To	spf	# of shots
WASATCH	6388	6389	4	4
WASATCH	6459	6460	4	4
WASATCH	6470	6471	4	4
WASATCH	6552	6553	4	4
WASATCH	6562	6563	4	4
WASATCH	6590	6591	4	4

14. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 5 on attached listing. Under-displace to ~6,388' and trickle 250gal 15%HCL w/ scale inhibitor in flush.
15. Set 8000 psi CBP at ~6,093'. Perf the following with 3-3/8" gun, 23 gm, 0.36" hole:

Zone	From	To	spf	# of shots
WASATCH	5991	5992	4	4
WASATCH	6040	6043	3	9
WASATCH	6060	6063	3	9
16. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 6 on attached listing. Under-displace to ~5,991' and flush only with recycled water.
17. Set 8000 psi CBP at ~5,941'.
18. ND Frac Valves, NU and Test BOPs.
19. TIH with 3 7/8" mill, pump open sub, XN nipple and tubing.
20. Mill 6 plugs and clean out to a depth of 7812'. Depending on wells performance (contact Denver Engineer) either continue with step 21 or 22.
21. Land tubing at 7551', drop ball and pump open sub. Flow back completion load. RDMO
22. MIRU, POOH tbg and mill. TIH with POBS and mill.
23. Mill last plug @ 7822' clean out to PBSD at 10062'. Land tubing at ±9396' pump off bit and bit sub. This well WILL be commingled at this time.
24. Clean out well with foam and/or swabbing unit until steady flow has been established from completion.
25. **Leave surface casing valve open.** Monitor and report any flow from surface casing. RDMO

**For design questions, please call
Michael Sollee, Denver, CO
(720)-929-6057 (Office)
(832) 859 0515 (Cell)**

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

NOTES:

TIGHT SPACING ON STAGE 3; 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.

Fracturing Schedules
 Name NEU 921-28D1B5
 Slickwater Frac Copy to new book

Casing Size Re-completer? Pad? ACTIS? 4.5 Y Y N

Swabbing Days 3 Enter Number of swabbing days here for re-completes
 Production Log 0 Enter 1 if running a Production Log
 DFIT 0 Enter Number of DFITs

Stage	Zone	Perfs		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.	
		Top, ft.	Bot., ft.																	
1	WASATCH	7581	7582	4	4	Varied	Pre-Pad & Pump-in test		Slickwater	4,949	4,949	118	118							
	WASATCH	7583	7584	4	4	0 ISIP	and 5 min ISIP		Slickwater	4,331	9,279	103	221	15.0%	0.0%	0	0			0
	WASATCH	7614	7615	4	4	50 Slickwater	Ramp	0.25	Slickwater	14,435	23,714	344	565	50.0%	37.3%	9,022	9,022			7
	WASATCH	7722	7723	4	4	50 Slickwater	Ramp	1	Slickwater	10,105	33,819	241	805	35.0%	62.7%	15,157	24,179			5
	WASATCH	7731	7732	4	4	50 Flush (4-1/2)			Slickwater	4,949	38,768	118	923			24,179	24,179			2
	WASATCH	7791	7792	4	4	50 ISDP	and 5 min ISDP		Slickwater				923			24,179	24,179			0
	WASATCH								Sand laden Volume		28,870					100,000	7,461	120		17
			# of Perfs/stage		24		18.5	<< Above pump time (min)						Flush depth	7,581	gal/md-ft	CBP depth	7,461	lbs sand/md-ft	
2	WASATCH	7246	7247	4	4	Varied	Pump-in test		Slickwater	3,040	3,040	72	72	15.0%	0.0%	0	0			2
	WASATCH	7363	7364	4	4	0 ISIP	and 5 min ISIP		Slickwater	10,135	13,175	241	314	50.0%	37.3%	6,334	6,334			5
	WASATCH	7378	7380	3	6	50 Slickwater	Pad	0.25	Slickwater	7,094	20,270	169	483	35.0%	62.7%	10,842	16,976			4
	WASATCH	7397	7398	4	4	50 Slickwater	Ramp	1	Slickwater	4,730	25,000	113	595			16,976	16,976			2
	WASATCH	7430	7431	4	4	50 Flush (4-1/2)			Slickwater				595			16,976	16,976			0
	WASATCH								Sand laden Volume		20,270					305,268	7,172	74		13
	WASATCH													Flush depth	7,246	gal/md-ft	CBP depth	7,172	lbs sand/md-ft	
			# of Perfs/stage		22		11.9	<< Above pump time (min)												
3	WASATCH	6994	6996	3	6	Varied	Pump-in test		Slickwater	4,620	4,620	110	110	15.0%	0.0%	0	0			2
	WASATCH	7032	7033	4	4	0 ISIP	and 5 min ISIP		Slickwater	15,401	20,022	367	477	50.0%	37.3%	9,626	9,626			8
	WASATCH	7112	7113	4	4	50 Slickwater	Pad	0.25	Slickwater	10,781	30,803	257	733	35.0%	62.7%	16,171	25,797			5
	WASATCH	7128	7129	4	4	50 Slickwater	Ramp	1	Slickwater	4,566	35,368	109	842			25,797	25,797			2
	WASATCH	7141	7142	4	4	50 Flush (4-1/2)			Slickwater				842			25,797	25,797			0
	WASATCH								Sand laden Volume		30,803					75,000	6,960	34		18
	WASATCH													Flush depth	6,994	gal/md-ft	CBP depth	6,960	lbs sand/md-ft	
			# of Perfs/stage		22		16.8	<< Above pump time (min)												

Total Stages	6	stages
Last Stage Flush	3,911	gals

Service Company Supplied Chemicals - Job Totals

Friction Reducer	92	gals @	0.5	GPT
Surfactant	185	gals @	1.0	GPT
Clay Stabilizer	92	gals @	0.5	GPT
15% Hcl	1500	gals @	250	gal/stg
Iron Control for acid	8	gals @	5.0	GPT of acid
Surfactant for acid	3	gals @	2.0	GPT of acid
Corrosion Inhibitor for acid	6	gals @	4.0	GPT of acid

Third Party Supplied Chemicals Job Totals - Include Pumping Charge if Applicable

Scale Inhibitor	92	gals pumped per schedule above
Biocide	55	gals @ 0.3 GPT

Name NBU 921-26D1BS
Perforation and CBP Summary

Stage	Zones	Perforations		SPF	Holes	Fracture Coverage		
		Top, ft	Bottom, ft					
1	WASATCH	7581	7582	4	4	7577	to	7596
	WASATCH	7593	7594	4	4	7600	to	7603.5
	WASATCH	7614	7615	4	4	7610	to	7616
	WASATCH	7722	7723	4	4	7719	to	7725
	WASATCH	7731	7732	4	4	7730	to	7744.5
	WASATCH	7791	7792	4	4	7785.5	to	7794.5
	# of Perfs/stage				24	CBP DEPTH	7,461	
2	WASATCH	7246	7247	4	4	7244.5	to	7248.5
	WASATCH	7363	7364	4	4	7360	to	7365.5
	WASATCH	7378	7380	3	6	7375.5	to	7389.5
	WASATCH	7397	7398	4	4	7390.5	to	7399
	WASATCH	7430	7431	4	4	7426	to	7434.5
		# of Perfs/stage				22	CBP DEPTH	7,172
3	WASATCH	6994	6996	3	6	6982.5	to	7003.5
	WASATCH	7032	7033	4	4	7029.5	to	7035.5
	WASATCH	7112	7113	4	4	7110.5	to	7121.5
	WASATCH	7128	7129	4	4	7123	to	7136.5
	WASATCH	7141	7142	4	4	7138	to	7144.5
		# of Perfs/stage				22	CBP DEPTH	6,960
4	WASATCH	6773	6774	3	3	6771.5	to	6776
	WASATCH	6816	6818	3	6	6815	to	6822.5
	WASATCH	6835	6837	3	6	6829	to	6839
	WASATCH	6917	6918	3	3	6914	to	6921
	WASATCH	6928	6930	3	6	6922	to	6931
		# of Perfs/stage				24	CBP DEPTH	6,621
5	WASATCH	6388	6389	4	4	6384	to	6394
	WASATCH	6459	6460	4	4	6454	to	6478
	WASATCH	6470	6471	4	4	6551.5	to	6557
	WASATCH	6552	6553	4	4	6558.5	to	6565
	WASATCH	6562	6563	4	4	6584	to	6593
	WASATCH	6590	6591	4	4			
	# of Perfs/stage				24	CBP DEPTH	6,093	
6	WASATCH	5991	5992	4	4	5987	to	5994.5
	WASATCH	6040	6043	3	9	6024	to	6068
	WASATCH	6060	6063	3	9			
		# of Perfs/stage				22	CBP DEPTH	5,941
	Totals				138			

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

Key Contact information

Completion Engineer

Michael Sollee: 832-859-0515; 720-929-6057

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

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.	
1. TYPE OF WELL Gas Well	5. LEASE DESIGNATION AND SERIAL NUMBER: UO 01194
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
PHONE NUMBER: 720 929-6511	8. WELL NAME and NUMBER: NBU 921-26D1BS
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0820 FNL 1661 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENW Section: 26 Township: 09.0S Range: 21.0E Meridian: S	9. API NUMBER: 43047503630000
	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: 4/8/2013	<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: <input type="text" value="Drill out ISO-plug"/>

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

Drill out last plug @7822ft. clean out to PBSD at 10062ft. Shear off bit and land tubing at 9396ft. This well will be comingled at this point.

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

Date: April 08, 2013
By: *D. K. Duff*

NAME (PLEASE PRINT) Luke Urban	PHONE NUMBER 720 929-6501	TITLE Regulatory Specialist
SIGNATURE N/A	DATE 4/8/2013	

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

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 921-26D1BS**

9. API NUMBER: **4304750363**

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**

1a. TYPE OF WELL: OIL WELL GAS WELL DRY OTHER _____

b. TYPE OF WORK: NEW WELL HORIZ. LATS. DEEP-EN RE-ENTRY DIFF. RESVR. 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 820 FNL 1661 FWL S26,T9S,R21E**
AT TOP PRODUCING INTERVAL REPORTED BELOW: **NWNW 109 FNL 991 FWL S26,T9S,R21E**
AT TOTAL DEPTH: **NWNW 110 FNL 965 FWL S26,T9S,R21E**

14. DATE SPURRED: **8/22/2009** 15. DATE T.D. REACHED: **12/9/2009** 16. DATE COMPLETED: **2/9/2013** ABANDONED READY TO PRODUCE 17. ELEVATIONS (DF, RKB, RT, GL): **4984 RKB**

18. TOTAL DEPTH: MD **10,125** TVD **9,976** 19. PLUG BACK T.D.: MD **10,063** TVD **9,913** 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)
GR/CBL-COMPACT TRIPLE COMBO

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)

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#	0	40		28			
12 1/4"	9 5/8" J-55	36#	0	2,454		700			
7 7/8"	4 1/2" I-80	11.6#	0	10,107		1,840			

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"	9,405							

26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)	INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
(A) WASATCH	5,991	7,792			5,991 7,732	0.36	138	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
(B)								Open <input 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
5991-7732	PUMP 4,512 BBLs SLICK H2O & 137,620 LBS 30/50 OTTAWA SAND 6 STAGES

29. ENCLOSED ATTACHMENTS: 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: 2/9/2013	TEST DATE: 2/20/2013	HOURS TESTED: 24	TEST PRODUCTION RATES: →	OIL – BBL: 6	GAS – MCF: 481	WATER – BBL: 23	PROD. METHOD: FLOWING
CHOKER SIZE: 20/64	TBG. PRESS. 123	CSG. PRESS. 416	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	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:
CHOKER SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	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:
CHOKER SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	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:
CHOKER SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	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.

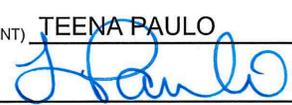
34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
				GREEN RIVER	1,549
				BIRD'S NEST	1,745
				MAHOGANY	2,362
				WASATCH	4,985
				MESAVERDE	7,883

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 5991-7792; existing perforations: Mesaverde 7904-10,052. The Iso plug set @ 7822 separating new perforations from old perforations was drilled out on 5/1/13 making the well commingled.

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

NAME (PLEASE PRINT) TEENA PAULO TITLE STAFF REGULATORY SPECIALIST
 SIGNATURE  DATE 5/3/2013

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 Phone: 801-538-5340
 1594 West North Temple, Suite 1210
 Box 145801 Fax: 801-359-3940
 Salt Lake City, Utah 84114-5801

US ROCKIES REGION								
Operation Summary Report								
Well: NBU 921-26D1BS (BLUE)			Spud Conductor: 8/22/2009			Spud Date: 8/26/2009		
Project: UTAH-UINTAH			Site: NBU 921-26C PAD			Rig Name No: SWABBCO 8/8		
Event: RECOMPL/RESEREVEADD			Start Date: 1/22/2013			End Date: 2/6/2013		
Active Datum: RKB @4,984.00usft (above Mean Sea Level)			UWI: NE/NW0/9/S/21/E/26/0/0/6/PM/N/820.00/W/0/1,661.00/0/0					
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
1/22/2013	7:00 - 7:30	0.50		48		P		HSM, WORKING W/ SCAN TECH.
	7:30 - 8:30	1.00		31	I	P		SICP & SITP 200 PSI, CONTROL TBG W/ 30 BBLS T-MAC, CONTROL CSG W/ 10 BBLS T-MAC, ND WH NU BOPS RU FLOOR & TBG EQUIP, UNLAND TBG L/D HANGER.
	8:30 - 15:30	7.00		31	I	P		RU SCAN TECH, L/D, SCAN, S.L.M 297 JTS 23/8 L-80.HAD 81 YELLOW, 119 BLUE, 97 RED WALL LOSS & PITTING, SLIGHT SCALE ON OD.RD SCAN TECH.
	15:30 - 17:30	2.00		34	I	P		RU CUTTERS,RIH W/ 41/2 GAUGE RING TAG UP @ 7904 TOP PERF, POOH RIH SET HAL 8K CBP @ 7822' POOH RD CUTTERS, SWI SDFN.
1/23/2013	7:00 - 7:30	0.50		48		P		HSM, RIGGING DOWN & RIGGING UP.
	7:30 - 9:00	1.50		30	D	P		ND BOPS NU SLEVE & FV. RIG DOWN, TEST FV & CSG TO 6215 FOR 15 MIN, LOST 803 PSI, 2ND TEST TO 6202 LOST 690 PSI IN 15 MINS, W/ CAMERON, BLEAD OF PSI, SWI, FINAL
1/28/2013								200 JTS 23/8 L-80 6323.78', 81 YELLOW, 119 BLUE, STACKED @ 921-26D PAD SEALS ARE PAINTED BLUE.
								97 RED 3062.75' HAULED TO SAMEULS YARD (SOME NORM)
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

US ROCKIES REGION									
Operation Summary Report									
Well: NBU 921-26D1BS (BLUE)			Spud Conductor: 8/22/2009			Spud Date: 8/26/2009			
Project: UTAH-UINTAH			Site: NBU 921-26C PAD			Rig Name No: SWABBCO 8/8			
Event: RECOMPL/RESEREVEADD			Start Date: 1/22/2013			End Date: 2/6/2013			
Active Datum: RKB @4,984.00usft (above Mean Sea Level)			UWI: NE/NW/0/9/S/21/E/26/0/0/6/PM/N/820.00/W/0/1,661.00/0/0						
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation	
1/29/2013	7:00 - 18:00	11.00	FRAC	36	B	P		<p>FRAC STG 1)WHP 468 PSI, BRK 3120 PSI @ 4.8 BPM. ISIP 2233 PSI, FG .73. CALC HOLES OPEN @ 49.3 BPM @ 5123 PSI = 83% HOLES OPEN. (20/24 HOLES OPEN) ISIP 2904 PSI, FG .82, NPI 671 PSI. MP 5603 PSI, MR 53.4 BPM, AP 5166 PSI, AR 46.6 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 @ 7461 ' P/U PERF AS PER PERF DESIGN. POOH. X-OVER FOR FRAC CREW</p> <p>FRAC STG 2)WHP 747 PSI, BRK 3025 PSI @ 4.0 BPM. ISIP 2135 PSI, FG .73. CALC HOLES OPEN @ 51.2 BPM @ 4876 PSI = 96% HOLES OPEN. (21/24 HOLES OPEN) ISIP 2236 PSI, FG .74, NPI 101 PSI. MP 4943 PSI, MR 51.5 BPM, AP 4554 PSI, AR 50.0 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 @ 7172' P/U PERF AS PER PERF DESIGN. POOH. X-OVER FOR FRAC CREW</p> <p>FRAC STG 3)WHP 1648 PSI, BRK 2409 PSI @ 3.9 BPM. ISIP 1734 PSI, FG .68. CALC HOLES OPEN @ 51.0 BPM @ 4414 PSI = 96% HOLES OPEN. (21/24 HOLES OPEN) ISIP 1914 PSI, FG .71, NPI 180 PSI. MP 4694 PSI, MR 51.7 BPM, AP 4387 PSI, AR 50.3 BPM PUMPED 30/50 OTTAWA SAND IN THIS STAGE PICKLE WELLS SWIFN</p>	

US ROCKIES REGION									
Operation Summary Report									
Well: NBU 921-26D1BS (BLUE)			Spud Conductor: 8/22/2009			Spud Date: 8/26/2009			
Project: UTAH-UJINTAH			Site: NBU 921-26C PAD				Rig Name No: SWABBCCO 8/8		
Event: RECOMPL/RESEREVEADD			Start Date: 1/22/2013			End Date: 2/6/2013			
Active Datum: RKB @4,984.00usft (above Mean Sea Level)			UWI: NE/NW0/9/S/21/E/26/0/0/6/PM/N/820.00/W/0/1,661.00/0/0						
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>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 @ 6960' P/U PERF AS PER PERF DESIGN. POOH. X-OVER FOR FRAC CREW</p> <p>FRAC STG 4)WHP 322 PSI, BRK 2570 PSI @ 4.1 BPM. ISIP 1586 PSI, FG .67. CALC HOLES OPEN @ 51.5 BPM @ 3874 PSI = 100% HOLES OPEN. (24/24 HOLES OPEN) ISIP 1603 PSI, FG .63, NPI 17 PSI. MP 4218 PSI, MR 51.9 BPM, AP 3992 PSI, AR 50.4 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, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 6621' P/U PERF AS PER PERF DESIGN. POOH. X-OVER FOR FRAC CREW</p> <p>FRAC STG 5)WHP 842 PSI, BRK 1684 PSI @ 3.4 BPM. ISIP 956 PSI, FG .59. CALC HOLES OPEN @ 51.3 BPM @ 3759 PSI = 83% HOLES OPEN. (20/24 HOLES OPEN) ISIP 1168 PSI, FG .62, NPI 212 PSI. MP 4233 PSI, MR 54.8 BPM, AP 3823 PSI, AR 51.4 BPM 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 @ 6093' P/U PERF AS PER PERF DESIGN. POOH. X-OVER FOR FRAC CREW</p> <p>FRAC STG 6)WHP 263 PSI, BRK 2080 PSI @ 4.2 BPM. ISIP 798 PSI, FG .57. CALC HOLES OPEN @ 49.8 BPM @ 4375 PSI = 73% HOLES OPEN. (16/22 HOLES OPEN) ISIP 1076 PSI, FG .62, NPI 278 PSI. MP 4365 PSI, MR 51.5 BPM, AP 3550 PSI, AR 50.8 BPM PUMPED 30/50 OTTAWA SAND IN THIS STAGE X-OVER FOR WL</p> <p>RIH SET CBP @ 5941, POOH. RD FRAC & WL SWI</p> <p>TOTAL SAND= 137,620 # 30/50 OTTAWA TOTAL CLFL= 4,512 BBLs HSM, RIGGING DWN, & RIGGING UP.</p>	
2/5/2013	7:00 - 7:30	0.50	DRLOUT	48		P			
	7:30 - 11:00	3.50	DRLOUT	30	A	P		<p>RIG DWN OFF NBU 921-26D1CS, MOVE OVER & RIGGED UP. LOADED TBG ON FLOAT BY COLOR, ND WH NU BOPS, RU FLOOR & TBG EQUIP.</p>	

US ROCKIES REGION								
Operation Summary Report								
Well: NBU 921-26D1BS (BLUE)			Spud Conductor: 8/22/2009			Spud Date: 8/26/2009		
Project: UTAH-UINTAH			Site: NBU 921-26C PAD			Rig Name No: SWABBCO 8/8		
Event: RECOMPL/RESEREVEADD			Start Date: 1/22/2013			End Date: 2/6/2013		
Active Datum: RKB @4,984.00usft (above Mean Sea Level)			UWI: NE/NW0/9/S/21/E/26/0/0/6/PM/N/820.00/W/0/1,661.00/0/0					
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	11:00 - 17:00	6.00	DRLOUT	31	I	P		TALLY & PU 37/8 BIT, PUMP OPEN SUB, 1.875 X/N & 52 JTS 23/8 L-80 NEW, 81 JTS 23/8 L-80 YELLOW, 53 JTS 23/8 BLUE TO @ 5898' RU DRLG EQUIP PREP TO D/O IN AM. SWI SDFN.
2/6/2013	7:00 - 7:30	0.50		48		P		WORKING W/ POWER SWIVEL & GAS CIRC UNIT.
	7:30 - 18:00	10.50	DRLOUT	44	C			<p>BROKE CIRC CONV, TEST BOPS TO 4,000# RIH.</p> <p>C/O 10' SAND TAG 1ST PLG @ 5941' DRL PLG IN 4 MINS, 0 PSI INCREASE RIH.</p> <p>C/O 30' SAND TAG 2ND PLG @ 6093' DRL PLG IN 4 MINS, 0 PSI INCREASE RIH.LOST CIRC RGAIN CIRC W/ GAS CIRC UNIT.</p> <p>C/O 25' SAND TAG 3RD PLG @ 6621' DRL PLG IN 3 MINS, 0 PSI INCREASE RIH,W/ GAS UNIT</p> <p>C/O 25' SAND TAG 4TH PLG @ 6960' DRL PLG IN 4 MINS, 0 PSI INCREASE RIH, W/ GAS UNIT, CIRC CLEAN KILL TBG PULL TO REMOVE TSF, RIH</p> <p>C/O 30' SAND TAG 5TH PLG @ 7172' DRL PLG IN 2 MINS, 0 PSI INCREASE RIH, W, GAS UNIT</p> <p>C/O 30' SAND TAG 6TH PLG @ 7461' DRL PLG IN 3 MINS, 0 PSI INCREASE RIH, W/ GAS UNIT</p> <p>C/O TO 7812', CIRC CLN W/ GAS UNIT KILLTBG, HANG SWIVEL, L/D 9 JTS,REM TSF, LAND TBG ON 238 JTS 23/8 L-80, ND BOPS NU WH, TEST FLOW LINE 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) 238 JTS 23/8 L-80 = 7530.99' (105 BLUE, 81 YELLOW, 52 NEW) 1.875 X/N, PUMP OPEN SUB, 37/8 BIT = 4.13' EOT @ 7549.95</p> <p>TWTR = 4992 BBLs TWR = 857 BBLs TWLTR = 4135 BBLs</p> <p>252 JTS 23/8 L-80 52 NEW, 81 YELLOW, 119 BLUE 238 LANDED 52 NEW, 81 YELLOW, 105 BLUE. 14 TO SAMEULS YARD.(BLUE)</p>

US ROCKIES REGION								
Operation Summary Report								
Well: NBU 921-26D1BS (BLUE)			Spud Conductor: 8/22/2009			Spud Date: 8/26/2009		
Project: UTAH-UINTAH			Site: NBU 921-26C PAD			Rig Name No: SWABBCO 8/8		
Event: RECOMPL/RESEREVEADD			Start Date: 4/30/2013			End Date: 5/1/2013		
Active Datum: RKB @4,984.00usft (above Mean Sea Level)			UWI: NE/NW0/9/S/21/E/26/0/0/6/PM/N/820.00/W/0/1,661.00/0/0					
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
4/30/2013	7:00 - 7:15	0.25	DRLOUT	48		P		HSM, JSA
	7:15 - 10:30	3.25	DRLOUT	30	A	P		MIRU, ND WH, NU BOP'S, RU FLOOR & TBG EQUIP, SPOT IN TBG TRAILER
	10:30 - 14:00	3.50	DRLOUT	31	I	P		100# FCP, CONTROLL W/ 20 BBLS T-MAC, TOO H W/ 2-3/8" TBG
	14:00 - 17:00	3.00	DRLOUT	31	I	P		P/U 3-7/8" BIT & POBS W/ LSN NIPPLE, TIH W/ 2-3/8" TBG, SDFN
5/1/2013	7:00 - 7:15	0.25	DRLOUT	48		P		HSM, JSA
	7:15 - 9:15	2.00	DRLOUT	44	C	P		MIRU PWR SWWL, MIRU GROSS FOAM (RECIRC UNIT), ESTB CIRC IN 1HR 15 MINS, C/O 30' OF SAND, TAG PLUG @ 7,822', D/O PLUG IN 3 MINS, NO KICK, 500 PSI ON CSG, CIRC FOR 10 MINS
	9:15 - 11:30	2.25	DRLOUT	31	I	P		P/U 2-3/8" TBG, TIH TAG FILL @ 9,936'
	11:30 - 13:30	2.00	DRLOUT	44	D	P		ESTB CIRC IN 30 MINS, C/O FROM 9,936' TO 10,083' PBTD, CIRC WELL CLEAN
	13:30 - 16:00	2.50	DRLOUT	31	I	P		TOOH W/ 2-3/8" TBG, LD 22 JTS TBG ON TRAILER, LAND TBG ON HANGER W/ 297 JTS 2-3/8" L-80 TBG, RD POWER SWIVEL, FLOOR & TBG EQUIP, ND BOPS, NU WH, DROP BALL TO SHEAR OFF BIT DIDN'T SEE ANY PSI, LET BIT FALL FOR 20 MIN, SWI, RD, SDFN
KB = 14' 71/16 CAMERON HNGR = .83' 297 JTS 2-3/8 L-80 = 9,387.56' LSN POBS HALF 2.20' EOT 9,404.59' TWLTR 80 BBLS								

US ROCKIES REGION

1 General

1.1 Customer Information

Company	US ROCKIES REGION
Representative	
Address	

1.2 Well/Wellbore Information

Well	NBU 921-26D1BS (BLUE)	Wellbore No.	OH
Well Name	NBU 921-26D1BS	Wellbore Name	NBU 921-26D1BS
Report No.	1	Report Date	1/28/2013
Project	UTAH-UJINTAH	Site	NBU 921-26C PAD
Rig Name/No.		Event	RECOMPL/RESEREVEADD
Start Date	1/22/2013	End Date	2/6/2013
Spud Date	8/26/2009	Active Datum	RKB @4,984.00usf (above Mean Sea Level)
UWI	NE/NW/0/9/S/21E/26/0/0/6/PM/N/820.00/W/0/1,661.00/0/0		

1.3 General

Contractor	CASED HOLE WELL SERVICES, LLC	Job Method	Supervisor
Perforated Assembly	PRODUCTION CASING	Conveyed Method	STEVE WALL, SR.

1.4 Initial Conditions

Fluid Type	Fluid Density	Gross Interval	5.991.0 (usft)-7,792.0 (usft)	Start Date/Time	1/31/2013 12:00AM
Surface Press	Estimate Res Press	No. of Intervals	30	End Date/Time	1/31/2013 12:00AM
TVD Fluid Top	Fluid Head	Total Shots	138	Net Perforation Interval	39.00 (usft)
Hydrostatic Press	Press Difference	Avg Shot Density	3.54 (shot/ft)	Final Surface Pressure	
Balance Cond	NEUTRAL			Final Press Date	

1.5 Summary

Diameter	0.360 (in)	Carr Type /Stage No	
Misfires/ Add. Shot		Carr Size (in)	3.375
Shot Density (shot/ft)	4.00	EXP/	
MD Base (usft)	5,992.0		
MD Top (usft)	5,991.0		
CCL-T S (usft)			
CCL@ (usft)			
Formation/ Reservoir			

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	Diameter (in)	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
1/31/2013 12:00AM	WASATCH/			5,991.0	5,992.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO	N

US ROCKIES REGION

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 (ft)	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/			6,040.0	6,043.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/31/2013 12:00AM	WASATCH/			6,060.0	6,063.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/31/2013 12:00AM	WASATCH/			6,388.0	6,389.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
1/31/2013 12:00AM	WASATCH/			6,459.0	6,460.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
1/31/2013 12:00AM	WASATCH/			6,470.0	6,471.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
1/31/2013 12:00AM	WASATCH/			6,552.0	6,553.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
1/31/2013 12:00AM	WASATCH/			6,562.0	6,563.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
1/31/2013 12:00AM	WASATCH/			6,590.0	6,591.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
1/31/2013 12:00AM	WASATCH/			6,773.0	6,774.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/31/2013 12:00AM	WASATCH/			6,816.0	6,818.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/31/2013 12:00AM	WASATCH/			6,835.0	6,837.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/31/2013 12:00AM	WASATCH/			6,917.0	6,918.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/31/2013 12:00AM	WASATCH/			6,928.0	6,930.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/31/2013 12:00AM	WASATCH/			6,994.0	6,996.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/31/2013 12:00AM	WASATCH/			7,032.0	7,033.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
1/31/2013 12:00AM	WASATCH/			7,112.0	7,113.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
1/31/2013 12:00AM	WASATCH/			7,128.0	7,129.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
1/31/2013 12:00AM	WASATCH/			7,141.0	7,142.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
1/31/2013 12:00AM	WASATCH/			7,246.0	7,247.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
1/31/2013 12:00AM	WASATCH/			7,363.0	7,364.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
1/31/2013 12:00AM	WASATCH/			7,378.0	7,380.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	

US ROCKIES REGION

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/			7,397.0	7,398.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
1/31/2013 12:00AM	WASATCH/			7,430.0	7,431.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
1/31/2013 12:00AM	WASATCH/			7,581.0	7,582.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
1/31/2013 12:00AM	WASATCH/			7,593.0	7,594.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
1/31/2013 12:00AM	WASATCH/			7,614.0	7,615.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
1/31/2013 12:00AM	WASATCH/			7,722.0	7,723.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
1/31/2013 12:00AM	WASATCH/			7,731.0	7,732.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
1/31/2013 12:00AM	WASATCH/			7,791.0	7,792.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	

3 Plots

3.1 Wellbore Schematic

