

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 921-22D1BS
2. TYPE OF WORK DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>		3. FIELD OR WILDCAT NATURAL BUTTES
4. TYPE OF WELL Gas Well Coalbed Methane Well: NO		5. UNIT or COMMUNITIZATION AGREEMENT NAME NATURAL BUTTES
6. NAME OF OPERATOR KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. OPERATOR PHONE 720 929-6587
8. ADDRESS OF OPERATOR P.O. Box 173779, Denver, CO, 80217		9. OPERATOR E-MAIL mary.mondragon@anadarko.com
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) UTU 0147566	11. MINERAL OWNERSHIP FEDERAL <input checked="" type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>	
13. NAME OF SURFACE OWNER (if box 12 = 'fee')		12. SURFACE OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input checked="" type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')		14. SURFACE OWNER PHONE (if box 12 = 'fee')
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN') Ute Tribe		16. SURFACE OWNER E-MAIL (if box 12 = 'fee')
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	357 FSL 2093 FWL	SESW	15	9.0 S	21.0 E	S
Top of Uppermost Producing Zone	226 FNL 819 FWL	NWNW	22	9.0 S	21.0 E	S
At Total Depth	226 FNL 819 FWL	NWNW	22	9.0 S	21.0 E	S

21. COUNTY UINTAH	22. DISTANCE TO NEAREST LEASE LINE (Feet) 226	23. NUMBER OF ACRES IN DRILLING UNIT 160
	25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 340	26. PROPOSED DEPTH MD: 10395 TVD: 10000
27. ELEVATION - GROUND LEVEL 4827	28. BOND NUMBER WYB000291	29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE Permit #43-8496

ATTACHMENTS

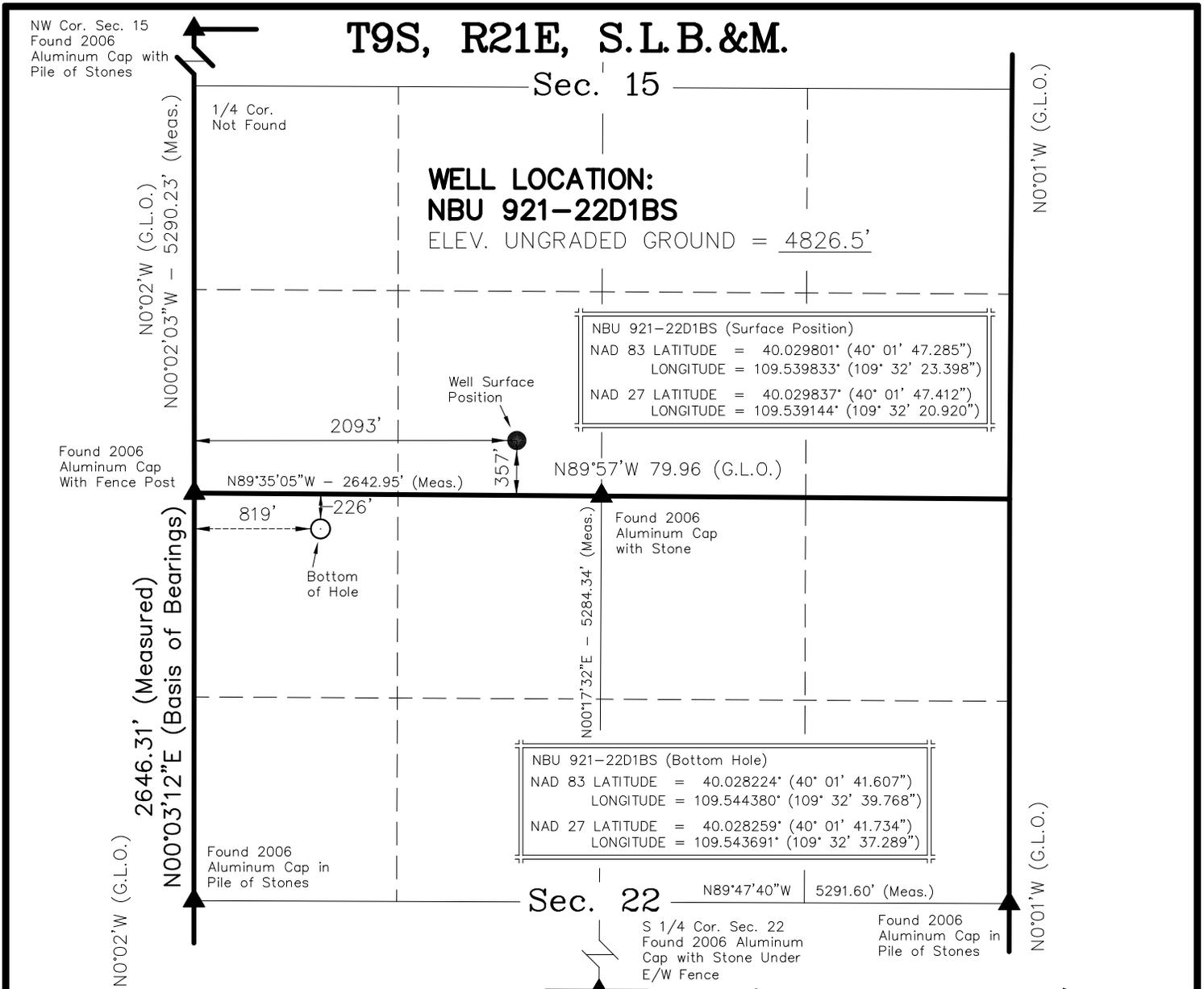
VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES

<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 Danielle Piernot	TITLE Regulatory Analyst	PHONE 720 929-6156
SIGNATURE	DATE 06/30/2009	EMAIL danielle.piernot@anadarko.com
API NUMBER ASSIGNED 43047505300000	APPROVAL  Permit Manager	

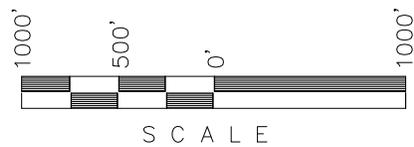
Proposed Hole, Casing, and Cement						
String	Hole Size	Casing Size	Top (MD)	Bottom (MD)		
Prod	7.875	4.5	0	10395		
Pipe	Grade	Length	Weight			
	Grade P-110 LT&C	10395	11.6			

Proposed Hole, Casing, and Cement						
String	Hole Size	Casing Size	Top (MD)	Bottom (MD)		
Surf	12.25	9.625	0	2640		
Pipe	Grade	Length	Weight			
	Grade J-55 LT&C	2640	36.0			



NOTES:

- ▲ = Section Corners Located
- Well footages are measured at right angles to the Section Lines.
 - G.L.O. distances are shown in feet or chains. 1 chain = 66 feet.
 - The Bottom of hole bears S65°45'53"W 1397.40' from the Surface Position.
 - Bearings are based on Global Positioning Satellite observations.
 - Basis of elevation is Tri-Sta "Two Water" located in the NW 1/4 of Section 1, T10S, R21E, S.L.B.&M. The elevation of this Tri-Sta is shown on the Big Pack mtn NE 7.5 Min. Quadrangle as being 5238'.

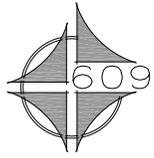


SURVEYOR'S CERTIFICATE

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.

REGISTERED LAND SURVEYOR
STATE OF UTAH
 No. 362251
KOLBY R. KAY
 REGISTERED LAND SURVEYOR
 REGISTRATION NO. 362251
 STATE OF UTAH

Kerr-McGee
Oil & Gas Onshore, LP
 1099 18th Street - Denver, Colorado 80202



CONSULTING, LLC
 371 Coffeen Avenue
 Sheridan WY 82801
 Phone 307-674-0609
 Fax 307-674-0182

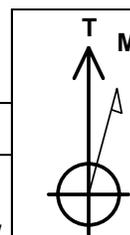
TIMBERLINE (435) 789-1365		SHEET 1 OF 13
ENGINEERING & LAND SURVEYING, INC. 209 NORTH 300 WEST - VERNAL, UTAH 84078		
DATE SURVEYED: 11-13-08	SURVEYED BY: M.S.B.	
DATE DRAWN: 11-14-08	DRAWN BY: E.M.S.	
SCALE: 1" = 1000'	Date Last Revised: 01-22-09	

NBU 921-22D1BS
WELL PLAT
 226' FNL, 819' FWL (Bottom Hole)
 NW 1/4 NW 1/4 OF SECTION 22, T9S, R21E,
 S.L.B.&M. UTAH COUNTY, UTAH.



Scientific Drilling
Rocky Mountain Operations

Site: NBU 921-15N Pad
Well: NBU 921-22D1BS
Wellbore: OH
Design: Plan #1

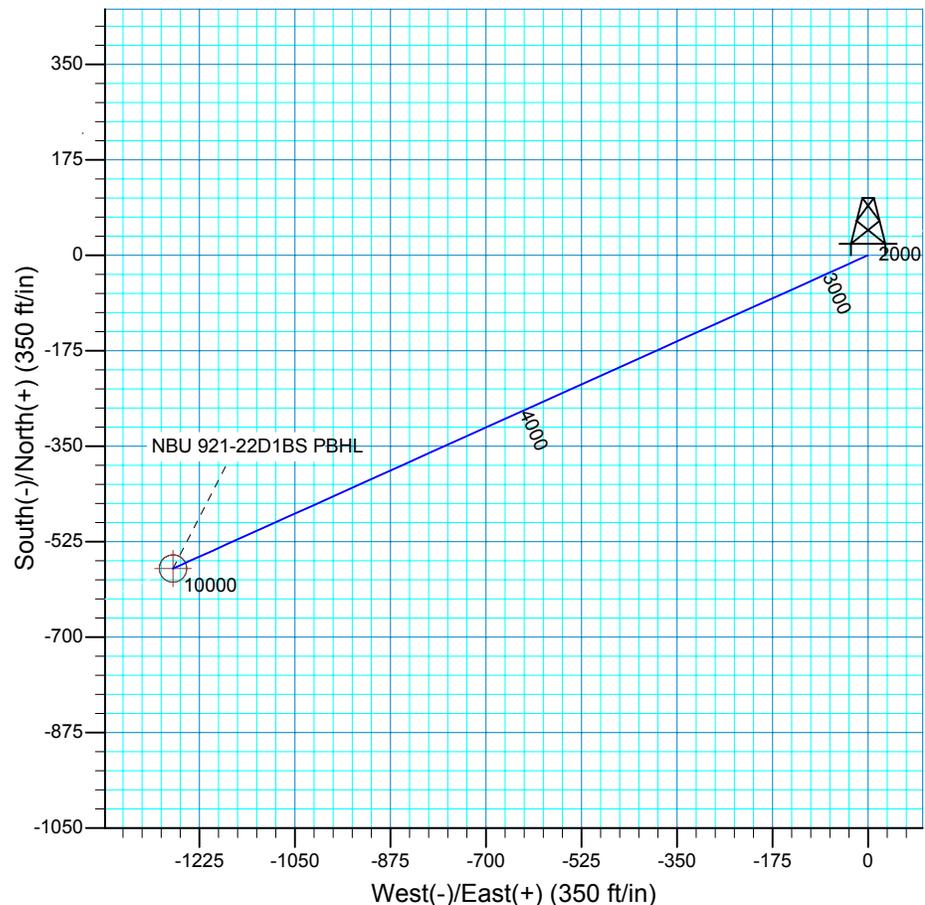
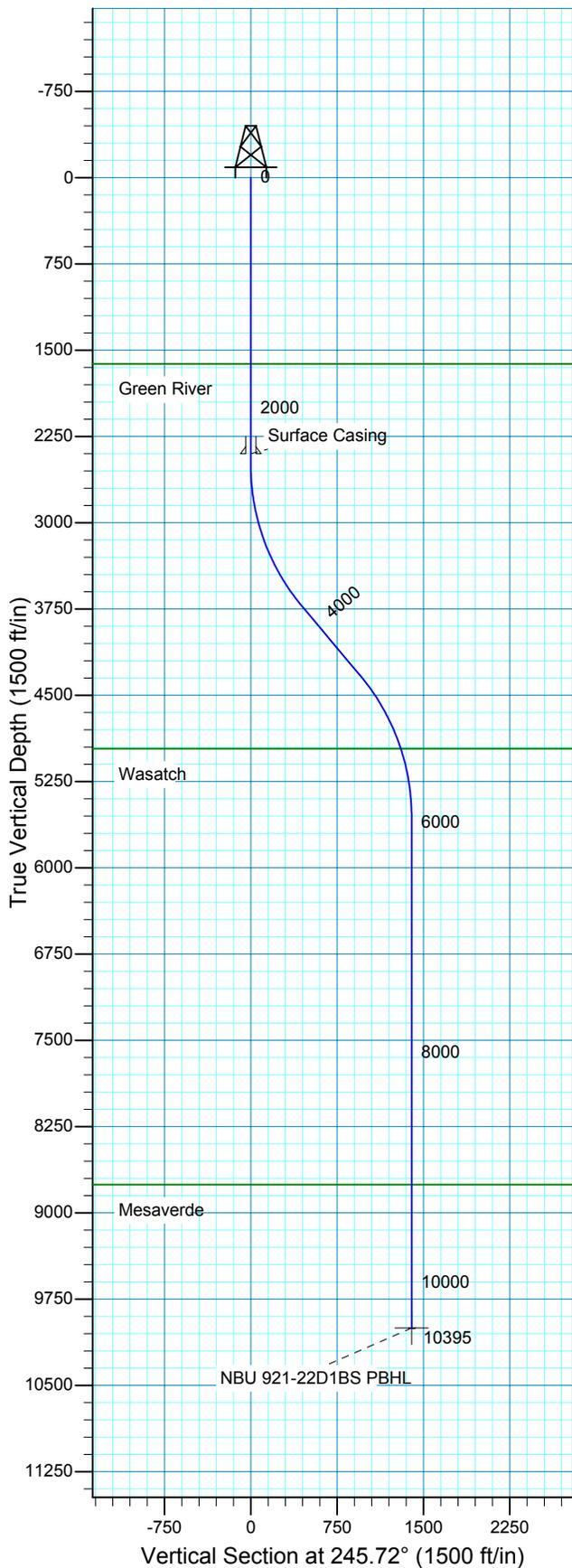


Azimuths to True North
Magnetic North: 11.37°

Magnetic Field
Strength: 52595.5snT
Dip Angle: 65.95°
Date: 2009/02/27
Model: IGRF2005-10

WELL DETAILS: NBU 921-22D1BS

GL 4826' & RKB 18' @ 4844.00ft 4826.00
+N/-S 0.00 +E/-W 0.00 Northing 623932.83 Easting 2549043.18 Latitude 40° 1' 47.412 N Longitude 109° 32' 20.920 W



Plan: Plan #1 (NBU 921-22D1BS/OH)
Created By: Julie Cruse Date: 2009-03-06
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 1 T10S RE21E
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	
2500.00	0.00	0.00	2500.00	0.00	0.00	0.00	0.00	0.00	
3833.33	40.00	245.72	3727.63	-183.76	-407.29	3.00	245.72	446.82	
4616.21	40.00	245.72	4327.35	-390.71	-865.99	0.00	0.00	950.04	
5949.54	0.00	0.00	5554.98	-574.46	-1273.27	3.00	180.001	396.87	
10394.56	0.00	0.00	0000.00	-574.46	-1273.27	0.00	0.001	396.87	NBU 921-22D1BS PBHL



Scientific Drilling
Rocky Mountain Operations

Kerr McGee Oil and Gas Onshore LP

**Uintah County, UT NAD27
NBU 921-15N Pad
NBU 921-22D1BS
OH**

Plan: Plan #1

Standard Planning Report

06 March, 2009



Scientific Drilling
Planning Report

Database:	EDM 2003.16 Multi User DB	Local Co-ordinate Reference:	Well NBU 921-22D1BS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 4826' & RKB 18' @ 4844.00ft
Project:	Uintah County, UT NAD27	MD Reference:	GL 4826' & RKB 18' @ 4844.00ft
Site:	NBU 921-15N Pad	North Reference:	True
Well:	NBU 921-22D1BS	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 921-15N Pad, Sec 1 T10S RE21E				
Site Position:		Northing:	623,937.73 ft	Latitude:	40° 1' 47.443 N
From:	Lat/Long	Easting:	2,549,122.98 ft	Longitude:	109° 32' 19.893 W
Position Uncertainty:	0.00 ft	Slot Radius:	in	Grid Convergence:	1.26 °

Well	NBU 921-22D1BS, 357' FSL 2093' FWL					
Well Position	+N/-S	0.00 ft	Northing:	623,932.83 ft	Latitude:	40° 1' 47.412 N
	+E/-W	0.00 ft	Easting:	2,549,043.18 ft	Longitude:	109° 32' 20.920 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	4,826.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2005-10	2009/02/27	11.37	65.95	52,596

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	245.72	

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	
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,833.33	40.00	245.72	3,727.63	-183.76	-407.29	3.00	3.00	0.00	245.72	
4,616.21	40.00	245.72	4,327.35	-390.71	-865.99	0.00	0.00	0.00	0.00	
5,949.54	0.00	0.00	5,554.98	-574.46	-1,273.27	3.00	-3.00	0.00	180.00	
10,394.56	0.00	0.00	10,000.00	-574.46	-1,273.27	0.00	0.00	0.00	0.00	NBU 921-22D1BS PB



Scientific Drilling

Planning Report

Database:	EDM 2003.16 Multi User DB	Local Co-ordinate Reference:	Well NBU 921-22D1BS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 4826' & RKB 18' @ 4844.00ft
Project:	Uintah County, UT NAD27	MD Reference:	GL 4826' & RKB 18' @ 4844.00ft
Site:	NBU 921-15N Pad	North Reference:	True
Well:	NBU 921-22D1BS	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	0.00
100.00	0.00	0.00	100.00	0.00	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	0.00
300.00	0.00	0.00	300.00	0.00	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	0.00
500.00	0.00	0.00	500.00	0.00	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	0.00
700.00	0.00	0.00	700.00	0.00	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	0.00
900.00	0.00	0.00	900.00	0.00	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	0.00
1,100.00	0.00	0.00	1,100.00	0.00	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	0.00
1,300.00	0.00	0.00	1,300.00	0.00	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	0.00
1,500.00	0.00	0.00	1,500.00	0.00	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	0.00
1,618.00	0.00	0.00	1,618.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Green River										
1,700.00	0.00	0.00	1,700.00	0.00	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	0.00
1,900.00	0.00	0.00	1,900.00	0.00	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	0.00
2,100.00	0.00	0.00	2,100.00	0.00	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	0.00
2,300.00	0.00	0.00	2,300.00	0.00	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	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	0.00
2,600.00	3.00	245.72	2,599.95	-1.08	-2.39	2.62	3.00	3.00	0.00	0.00
2,700.00	6.00	245.72	2,699.63	-4.30	-9.54	10.46	3.00	3.00	0.00	0.00
2,800.00	9.00	245.72	2,798.77	-9.67	-21.43	23.51	3.00	3.00	0.00	0.00
2,900.00	12.00	245.72	2,897.08	-17.16	-38.04	41.74	3.00	3.00	0.00	0.00
3,000.00	15.00	245.72	2,994.31	-26.76	-59.32	65.08	3.00	3.00	0.00	0.00
3,100.00	18.00	245.72	3,090.18	-38.44	-85.20	93.48	3.00	3.00	0.00	0.00
3,200.00	21.00	245.72	3,184.43	-52.17	-115.63	126.85	3.00	3.00	0.00	0.00
3,300.00	24.00	245.72	3,276.81	-67.90	-150.51	165.12	3.00	3.00	0.00	0.00
3,400.00	27.00	245.72	3,367.06	-85.61	-189.74	208.16	3.00	3.00	0.00	0.00
3,500.00	30.00	245.72	3,454.93	-105.23	-233.23	255.87	3.00	3.00	0.00	0.00
3,600.00	33.00	245.72	3,540.18	-126.71	-280.86	308.12	3.00	3.00	0.00	0.00
3,700.00	36.00	245.72	3,622.59	-150.00	-332.48	364.75	3.00	3.00	0.00	0.00
3,800.00	39.00	245.72	3,701.91	-175.04	-387.96	425.62	3.00	3.00	0.00	0.00
3,833.33	40.00	245.72	3,727.63	-183.76	-407.29	446.82	3.00	3.00	0.00	0.00
3,900.00	40.00	245.72	3,778.70	-201.38	-446.35	489.67	0.00	0.00	0.00	0.00
4,000.00	40.00	245.72	3,855.31	-227.81	-504.94	553.95	0.00	0.00	0.00	0.00
4,100.00	40.00	245.72	3,931.91	-254.25	-563.53	618.23	0.00	0.00	0.00	0.00
4,200.00	40.00	245.72	4,008.52	-280.68	-622.12	682.51	0.00	0.00	0.00	0.00
4,300.00	40.00	245.72	4,085.12	-307.12	-680.72	746.79	0.00	0.00	0.00	0.00
4,400.00	40.00	245.72	4,161.73	-333.55	-739.31	811.07	0.00	0.00	0.00	0.00
4,500.00	40.00	245.72	4,238.33	-359.99	-797.90	875.35	0.00	0.00	0.00	0.00
4,600.00	40.00	245.72	4,314.93	-386.42	-856.49	939.63	0.00	0.00	0.00	0.00
4,616.21	40.00	245.72	4,327.35	-390.71	-865.99	950.04	0.00	0.00	0.00	0.00
4,700.00	37.49	245.72	4,392.70	-412.27	-913.78	1,002.48	3.00	-3.00	0.00	0.00



Scientific Drilling

Planning Report

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Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 4826' & RKB 18' @ 4844.00ft
Project:	Uintah County, UT NAD27	MD Reference:	GL 4826' & RKB 18' @ 4844.00ft
Site:	NBU 921-15N Pad	North Reference:	True
Well:	NBU 921-22D1BS	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)	
4,800.00	34.49	245.72	4,473.61	-436.43	-967.34	1,061.23	3.00	-3.00	0.00	
4,900.00	31.49	245.72	4,557.48	-458.82	-1,016.96	1,115.67	3.00	-3.00	0.00	
5,000.00	28.49	245.72	4,644.08	-479.37	-1,062.51	1,165.64	3.00	-3.00	0.00	
5,100.00	25.49	245.72	4,733.18	-498.03	-1,103.87	1,211.02	3.00	-3.00	0.00	
5,200.00	22.49	245.72	4,824.54	-514.75	-1,140.92	1,251.66	3.00	-3.00	0.00	
5,300.00	19.49	245.72	4,917.89	-529.47	-1,173.56	1,287.47	3.00	-3.00	0.00	
5,349.75	17.99	245.72	4,965.00	-536.05	-1,188.13	1,303.45	3.00	-3.00	0.00	
Wasatch										
5,400.00	16.49	245.72	5,013.00	-542.17	-1,201.70	1,318.35	3.00	-3.00	0.00	
5,500.00	13.49	245.72	5,109.58	-552.80	-1,225.27	1,344.20	3.00	-3.00	0.00	
5,600.00	10.49	245.72	5,207.39	-561.34	-1,244.20	1,364.97	3.00	-3.00	0.00	
5,700.00	7.49	245.72	5,306.15	-567.77	-1,258.44	1,380.59	3.00	-3.00	0.00	
5,800.00	4.49	245.72	5,405.60	-572.06	-1,267.94	1,391.01	3.00	-3.00	0.00	
5,900.00	1.49	245.72	5,505.45	-574.20	-1,272.69	1,396.22	3.00	-3.00	0.00	
5,949.54	0.00	0.00	5,554.98	-574.46	-1,273.27	1,396.87	3.00	-3.00	0.00	
6,000.00	0.00	0.00	5,605.44	-574.46	-1,273.27	1,396.87	0.00	0.00	0.00	
6,100.00	0.00	0.00	5,705.44	-574.46	-1,273.27	1,396.87	0.00	0.00	0.00	
6,200.00	0.00	0.00	5,805.44	-574.46	-1,273.27	1,396.87	0.00	0.00	0.00	
6,300.00	0.00	0.00	5,905.44	-574.46	-1,273.27	1,396.87	0.00	0.00	0.00	
6,400.00	0.00	0.00	6,005.44	-574.46	-1,273.27	1,396.87	0.00	0.00	0.00	
6,500.00	0.00	0.00	6,105.44	-574.46	-1,273.27	1,396.87	0.00	0.00	0.00	
6,600.00	0.00	0.00	6,205.44	-574.46	-1,273.27	1,396.87	0.00	0.00	0.00	
6,700.00	0.00	0.00	6,305.44	-574.46	-1,273.27	1,396.87	0.00	0.00	0.00	
6,800.00	0.00	0.00	6,405.44	-574.46	-1,273.27	1,396.87	0.00	0.00	0.00	
6,900.00	0.00	0.00	6,505.44	-574.46	-1,273.27	1,396.87	0.00	0.00	0.00	
7,000.00	0.00	0.00	6,605.44	-574.46	-1,273.27	1,396.87	0.00	0.00	0.00	
7,100.00	0.00	0.00	6,705.44	-574.46	-1,273.27	1,396.87	0.00	0.00	0.00	
7,200.00	0.00	0.00	6,805.44	-574.46	-1,273.27	1,396.87	0.00	0.00	0.00	
7,300.00	0.00	0.00	6,905.44	-574.46	-1,273.27	1,396.87	0.00	0.00	0.00	
7,400.00	0.00	0.00	7,005.44	-574.46	-1,273.27	1,396.87	0.00	0.00	0.00	
7,500.00	0.00	0.00	7,105.44	-574.46	-1,273.27	1,396.87	0.00	0.00	0.00	
7,600.00	0.00	0.00	7,205.44	-574.46	-1,273.27	1,396.87	0.00	0.00	0.00	
7,700.00	0.00	0.00	7,305.44	-574.46	-1,273.27	1,396.87	0.00	0.00	0.00	
7,800.00	0.00	0.00	7,405.44	-574.46	-1,273.27	1,396.87	0.00	0.00	0.00	
7,900.00	0.00	0.00	7,505.44	-574.46	-1,273.27	1,396.87	0.00	0.00	0.00	
8,000.00	0.00	0.00	7,605.44	-574.46	-1,273.27	1,396.87	0.00	0.00	0.00	
8,100.00	0.00	0.00	7,705.44	-574.46	-1,273.27	1,396.87	0.00	0.00	0.00	
8,200.00	0.00	0.00	7,805.44	-574.46	-1,273.27	1,396.87	0.00	0.00	0.00	
8,300.00	0.00	0.00	7,905.44	-574.46	-1,273.27	1,396.87	0.00	0.00	0.00	
8,400.00	0.00	0.00	8,005.44	-574.46	-1,273.27	1,396.87	0.00	0.00	0.00	
8,500.00	0.00	0.00	8,105.44	-574.46	-1,273.27	1,396.87	0.00	0.00	0.00	
8,600.00	0.00	0.00	8,205.44	-574.46	-1,273.27	1,396.87	0.00	0.00	0.00	
8,700.00	0.00	0.00	8,305.44	-574.46	-1,273.27	1,396.87	0.00	0.00	0.00	
8,800.00	0.00	0.00	8,405.44	-574.46	-1,273.27	1,396.87	0.00	0.00	0.00	
8,900.00	0.00	0.00	8,505.44	-574.46	-1,273.27	1,396.87	0.00	0.00	0.00	
9,000.00	0.00	0.00	8,605.44	-574.46	-1,273.27	1,396.87	0.00	0.00	0.00	
9,100.00	0.00	0.00	8,705.44	-574.46	-1,273.27	1,396.87	0.00	0.00	0.00	
9,147.56	0.00	0.00	8,753.00	-574.46	-1,273.27	1,396.87	0.00	0.00	0.00	
Mesaverde										
9,200.00	0.00	0.00	8,805.44	-574.46	-1,273.27	1,396.87	0.00	0.00	0.00	
9,300.00	0.00	0.00	8,905.44	-574.46	-1,273.27	1,396.87	0.00	0.00	0.00	
9,400.00	0.00	0.00	9,005.44	-574.46	-1,273.27	1,396.87	0.00	0.00	0.00	
9,500.00	0.00	0.00	9,105.44	-574.46	-1,273.27	1,396.87	0.00	0.00	0.00	



Scientific Drilling

Planning Report

Database:	EDM 2003.16 Multi User DB	Local Co-ordinate Reference:	Well NBU 921-22D1BS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 4826' & RKB 18' @ 4844.00ft
Project:	Uintah County, UT NAD27	MD Reference:	GL 4826' & RKB 18' @ 4844.00ft
Site:	NBU 921-15N Pad	North Reference:	True
Well:	NBU 921-22D1BS	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)
9,600.00	0.00	0.00	9,205.44	-574.46	-1,273.27	1,396.87	0.00	0.00	0.00
9,700.00	0.00	0.00	9,305.44	-574.46	-1,273.27	1,396.87	0.00	0.00	0.00
9,800.00	0.00	0.00	9,405.44	-574.46	-1,273.27	1,396.87	0.00	0.00	0.00
9,900.00	0.00	0.00	9,505.44	-574.46	-1,273.27	1,396.87	0.00	0.00	0.00
10,000.00	0.00	0.00	9,605.44	-574.46	-1,273.27	1,396.87	0.00	0.00	0.00
10,100.00	0.00	0.00	9,705.44	-574.46	-1,273.27	1,396.87	0.00	0.00	0.00
10,200.00	0.00	0.00	9,805.44	-574.46	-1,273.27	1,396.87	0.00	0.00	0.00
10,300.00	0.00	0.00	9,905.44	-574.46	-1,273.27	1,396.87	0.00	0.00	0.00
10,394.56	0.00	0.00	10,000.00	-574.46	-1,273.27	1,396.87	0.00	0.00	0.00

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 921-22D1BS PBHL - plan hits target center - Circle (radius 25.00)	0.00	0.00	10,000.00	-574.46	-1,273.27	623,330.60	2,547,782.81	40° 1' 41.734 N	109° 32' 37.289 W

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)	
2,400.00	2,400.00	Surface Casing	9.625	13.500	

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,618.00	1,618.00	Green River		0.00	
5,349.75	4,965.00	Wasatch		0.00	
9,147.56	8,753.00	Mesaverde		0.00	

NBU 921-22D1BS

Pad: NBU 921-15N

Surface: 357' FSL, 2,093' FWL (SE/4SW/4) Sec. 15

BHL: 226' FNL 819' FWL (NW/4NW/4) Sec.22

Uintah, Utah

Mineral Lease: UTU 0147566

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	1,618'	
Birds Nest	1,944'	Water
Mahogany	2,437'	Water
Wasatch	4,965'	Gas
Mesaverde	7,837'	Gas
MVU2	8,753'	Gas
MVL1	9,314'	Gas
TVD	10,000'	
TD	10,395'	

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 10,395' TD, approximately equals 6,368 psi (calculated at 0.61 psi/foot).

Maximum anticipated surface pressure equals approximately 3,926 psi (bottomhole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

8. Anticipated Starting Dates:

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

9. Variations:

Please refer to the attached Drilling Program.

Onshore Order #2 – Air Drilling Variance

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

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

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

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

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

Background

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

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

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

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

Variance for BOPE Requirements

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

Variance for Mud Material Requirements

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

Variance for Special Drilling Operation (surface equipment placement) Requirements

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

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

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

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

Conclusion

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

10. Other Information:

Please refer to the attached Drilling Program.



KERR-McGEE OIL & GAS ONSHORE LP
DRILLING PROGRAM

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 2,640	36.00	J-55	LTC	0.84	1.63	6.07
PRODUCTION	4-1/2"	0 to 10,045	11.60	I-80	LTC	7,780	6,350	201,000
	4-1/2"	10,045 to 10,395	11.60	HCP-110	LTC	1.93	1.08	2.04
						10,690	8,650	279,000
						138.83	1.39	84.15

1) Max Anticipated Surf. Press.(MASP) (Surface Casing) = (Pore Pressure at next csg point-(0.22 psi/ft-partial evac gradient x TVD of next csg point))

2) MASP (Prod Casing) = Pore Pressure at TD - (0.22 psi/ft-partial evac gradient x TD)
 (Burst Assumptions: TD = 12.0 ppg) 0.22 psi/ft = gradient for partially evac wellbore
 (Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)
MASP 3,926 psi

3) Maximum Anticipated Bottom Hole Pressure (MABHP) = Pore Pressure at TD
 (Burst Assumptions: TD = 12.0 ppg) 0.61 psi/ft = bottomhole gradient
 (Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)
MABHP 6,368 psi

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE	LEAD	500'	Premium cmt + 2% CaCl + 0.25 pps flocele	215	60%	15.60	1.18
Option 1							
	TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt + 2% CaCl + 0.25 pps flocele Premium cmt + 2% CaCl	380	0%	15.60	1.18
NOTE: If well will circulate water to surface, option 2 will be utilized							
SURFACE	LEAD	2,140'	65/35 Poz + 6% Gel + 10 pps gilsonite + 0.25 pps Flocele + 3% salt BWOW	500	35%	12.60	1.81
Option 2							
	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	4,465'	Premium Lite II + 3% KCl + 0.25 pps celloflake + 5 pps gilsonite + 10% gel + 0.5% extender	430	40%	11.00	3.38
	TAIL	5,930'	50/50 Poz/G + 10% salt + 2% gel + 0.1% R-3	1,450	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.

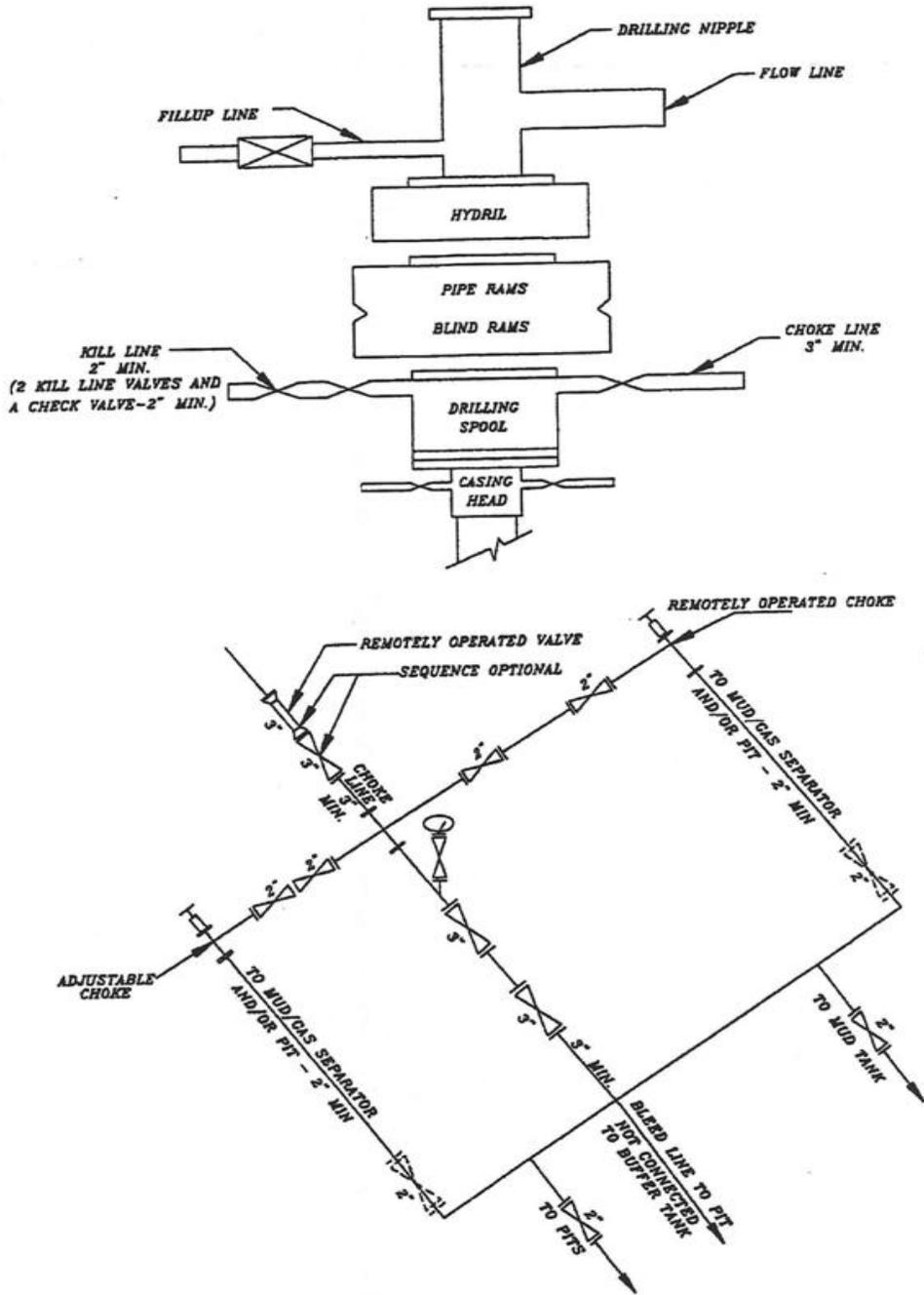
Surveys will be taken at 1,000' minimum intervals.

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 921-22D1BS



SCHEMATIC DIAGRAM OF 5,000 PSI BOP STACK

WELL PAD INTERFERENCE PLAT

DIRECTIONAL PAD - NBU 921-15N

SURFACE POSITION FOOTAGES:

NBU 921-22D1BS
357' FSL, 2093' FWL

NBU 921-22D1CS
358' FSL, 2113' FWL

NBU 921-22C1CS
359' FSL, 2133' FWL

NBU 921-22C4BS
360' FSL, 2153' FWL

NBU 921-15N (Existing Well Head)
360' FSL, 2173' FWL

RELATIVE COORDINATES From Surface Position to Bottom Hole		
WELL	NORTH	EAST
921-22D1BS	-574'	-1274'
921-22D1CS	-914'	-1324'
921-22C1CS	-804'	-62'
921-22C4BS	-1171'	-89'



BASIS OF BEARINGS IS THE WEST LINE OF THE NW 1/4 OF SECTION 22, T9S, R21E, S.L.B.&M. WHICH IS TAKEN FROM GLOBAL POSITIONING SATELLITE OBSERVATIONS TO BEAR N00°03'12"E.

BOTTOM HOLE FOOTAGES

NBU 921-22D1BS
226' FNL, 819' FWL

NBU 921-22D1CS
566' FNL, 789' FWL

NBU 921-22C1CS
446' FNL, 2071' FWL

NBU 921-22C4BS
812' FNL, 2065' FWL

NBU 921-22D1BS
Az. to exist. W.H.=267.83667° 80.0'

NBU 921-22D1CS
Az. to exist. W.H.=267.83667° 60.0'

NBU 921-22C1CS
Az. to exist. W.H.=267.83667° 40.0'

NBU 921-22C4BS
Az. to exist. W.H.=267.83667° 20.0'

NBU 921-15N : EXISTING WELL

LATITUDE & LONGITUDE Surface Position - (NAD 83)		
WELL	N. LATITUDE	W. LONGITUDE
921-22D1BS	40°01'47.285" 40.029801°	109°32'23.398" 109.539833°
921-22D1CS	40°01'47.293" 40.029804°	109°32'23.142" 109.539762°
921-22C1CS	40°01'47.300" 40.029806°	109°32'22.885" 109.539690°
921-22C4BS	40°01'47.309" 40.029808°	109°32'22.628" 109.539619°
Existing Well NBU 921-15N	40°01'47.316" 40.029810°	109°32'22.371" 109.539547°

LATITUDE & LONGITUDE Bottom Hole - (NAD 83)		
WELL	N. LATITUDE	W. LONGITUDE
921-22D1BS	40°01'41.607" 40.028224°	109°32'39.768" 109.544380°
921-22D1CS	40°01'38.250" 40.027292°	109°32'40.153" 109.544487°
921-22C1CS	40°01'39.355" 40.027599°	109°32'23.677" 109.539910°
921-22C4BS	40°01'35.739" 40.026594°	109°32'23.755" 109.539932°

LATITUDE & LONGITUDE Bottom Hole - (NAD 27)		
WELL	N. LATITUDE	W. LONGITUDE
921-22D1BS	40°01'41.734" 40.028259°	109°32'37.289" 109.543691°
921-22D1CS	40°01'38.377" 40.027327°	109°32'37.675" 109.543798°
921-22C1CS	40°01'39.482" 40.027634°	109°32'21.199" 109.539222°
921-22C4BS	40°01'35.866" 40.026629°	109°32'21.277" 109.539244°

LATITUDE & LONGITUDE Surface Position - (NAD 27)		
WELL	N. LATITUDE	W. LONGITUDE
921-22D1BS	40°01'47.412" 40.029837°	109°32'20.920" 109.539144°
921-22D1CS	40°01'47.420" 40.029839°	109°32'20.663" 109.539073°
921-22C1CS	40°01'47.427" 40.029841°	109°32'20.407" 109.539002°
921-22C4BS	40°01'47.436" 40.029843°	109°32'20.150" 109.538931°
Existing Well NBU 921-15N	40°01'47.443" 40.029845°	109°32'19.893" 109.538859°

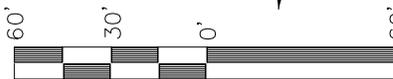
S87°50'12"W
Az.=267.83667°

Az.=245.76472°
S65°45'53"W - 1397.40'
(To Bottom Hole)

Az.=235.38639°
S55°23'11"W - 1609.33'
(To Bottom Hole)

Az.=184.43250°
S04°25'57"W - 806.56'
(To Bottom Hole)

Az.=184.33000°
S04°19'48"W - 1174.33'
(To Bottom Hole)



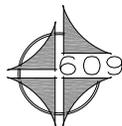
S C A L E

Kerr-McGee

Oil & Gas Onshore, LP

1099 18th Street - Denver, Colorado 80202

NBU 921-22D1BS, NBU 921-22D1CS,
NBU 921-22C1CS & NBU 921-22C4BS
LOCATED IN SECTION 15, T9S, R21E,
S.L.B.&M. UTAH COUNTY, UTAH.

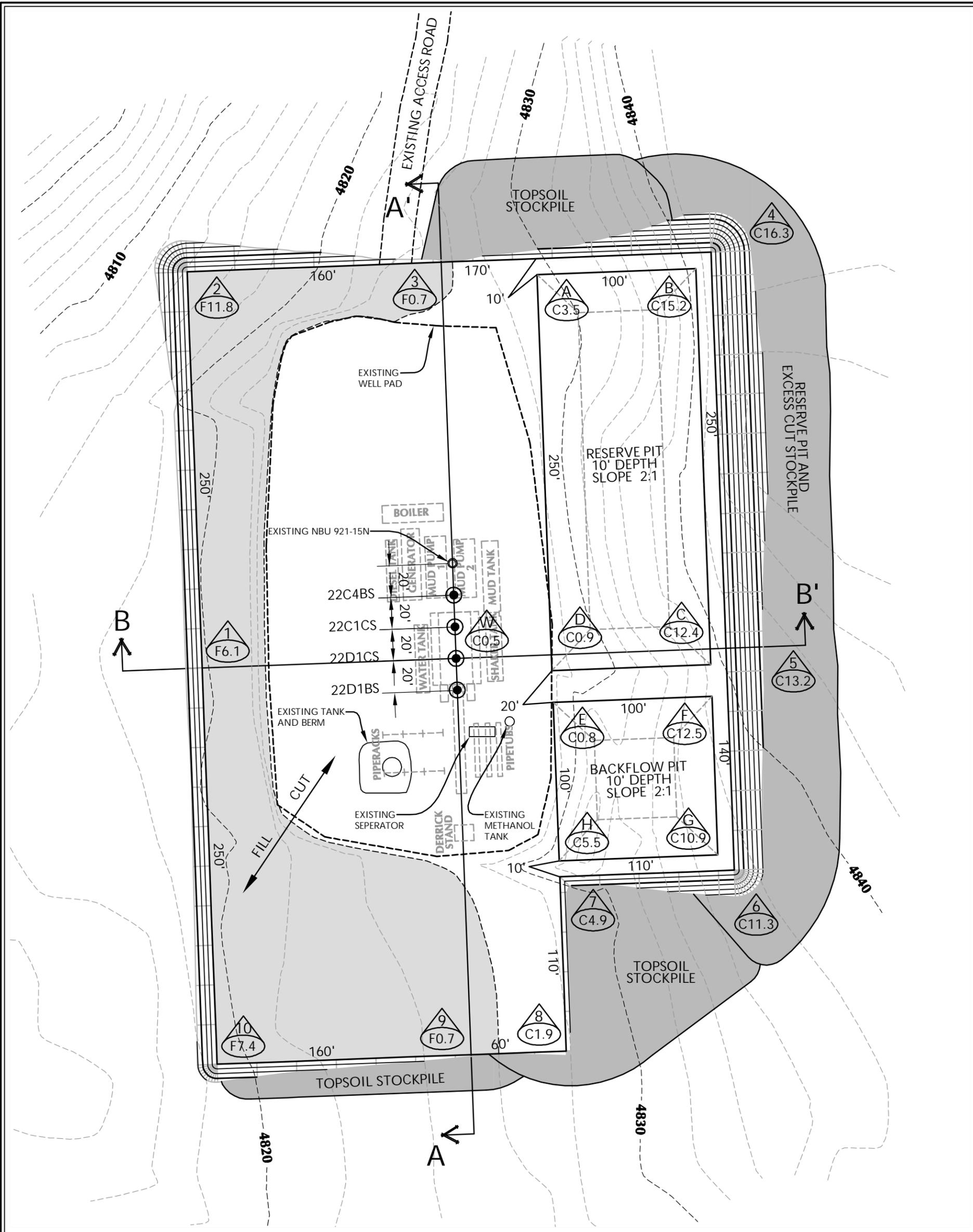


CONSULTING, LLC
371 Coffeen Avenue
Sheridan WY 82801
Phone 307-674-0609
Fax 307-674-0182

DATE SURVEYED: 11-13-08	SURVEYED BY: M.S.B.
DATE DRAWN: 11-17-08	DRAWN BY: E.M.S.
REVISED: 01-22-09	

Timberline (435) 789-1365
Engineering & Land Surveying, Inc.
209 NORTH 300 WEST VERNAL, UTAH 84078

SHEET
5
OF 13



WELL PAD NBU 921-15N QUANTITIES

EXISTING GRADE @ CENTER OF WELL PAD = 4,826.5'
 FINISHED GRADE ELEVATION = 4,826.0'
 CUT SLOPES = 1.5:1
 FILL SLOPES = 1.5:1

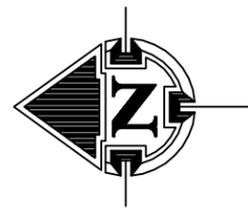
TOTAL CUT FOR WELL PAD = 18,035 C.Y.
 TOTAL FILL FOR WELL PAD = 8,842 C.Y.
 TOPSOIL @ 6" DEPTH = 2,234 C.Y.
 EXCESS MATERIAL = 9,193 C.Y.
 TOTAL DISTURBANCE = 4.03 ACRES
 SHRINKAGE FACTOR = 1.10
 SWELL FACTOR = 1.00
 RESERVE PIT CAPACITY (2' OF FREEBOARD)
 +/- 28,730 BARRELS
 RESERVE PIT VOLUME
 +/- 7,720 CY
 BACKFLOW PIT CAPACITY (2' OF FREEBOARD)
 +/- 9,490 BARRELS
 BACKFLOW PIT VOLUME
 +/- 2,660 CY

WELL PAD LEGEND

- EXISTING WELL LOCATION
- PROPOSED WELL LOCATION
- EXISTING CONTOURS (2' INTERVAL)
- PROPOSED CONTOURS (2' INTERVAL)



609
 CONSULTING, LLC
 371 Coffeen Avenue
 Sheridan WY 82801
 Phone 307-674-0609
 Fax 307-674-0182



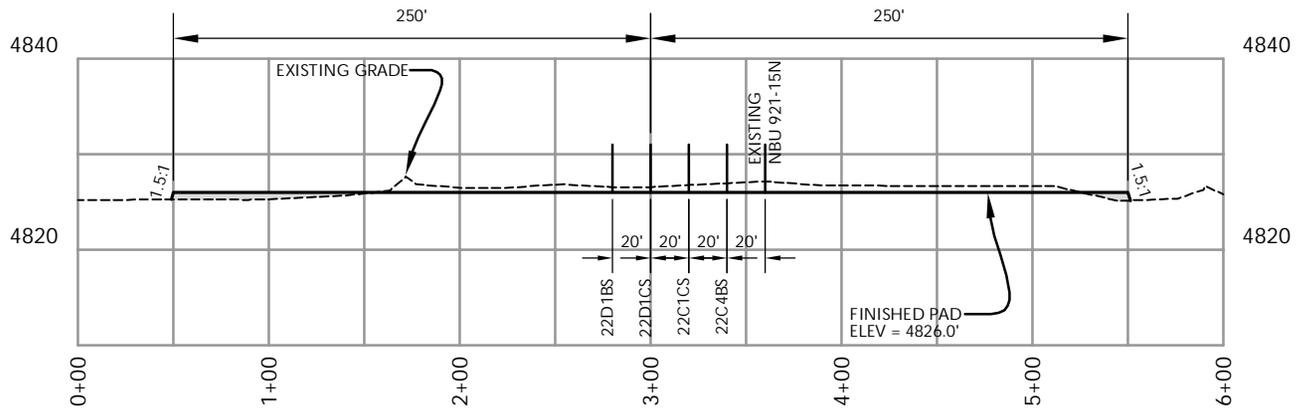
HORIZONTAL 0 30 60 1" = 60'
 2' CONTOURS

**KERR-MCGEE OIL & GAS
 ONSHORE L.P.**
 1099 18th Street - Denver, Colorado 80202

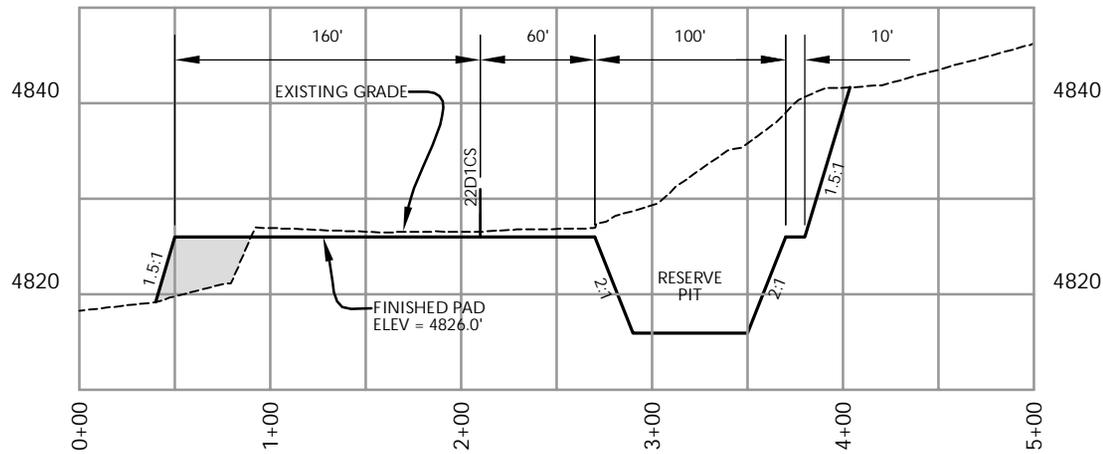
WELL PAD - LOCATION LAYOUT
 NBU 921-22D1BS, NBU 921-22D1CS,
 NBU 921-22C1CS, NBU 921-22C4BS
 LOCATED IN SECTION 15, T.9S., R.21E.
 S.L.B.&M., UINTAH COUNTY, UTAH

Scale: 1"=60'	Date: 2/9/09	SHEET NO:
REVISED:	BY DATE	6 6 OF 13

Timberline (435) 789-1365
 Engineering & Land Surveying, Inc.
 38 WEST 100 NORTH VERNAL, UTAH 84078



CROSS SECTION A-A'



CROSS SECTION B-B'

NOTE: CROSS SECTION B-B' DEPICTS
MAXIMUM RESERVE PIT DEPTH.

KERR-MCGEE OIL & GAS
ONSHORE L.P.

1099 18th Street - Denver, Colorado 80202

WELL PAD - CROSS SECTIONS
NBU 921-22D1BS, NBU 921-22D1CS,
NBU 921-22C1CS, NBU 921-22C4BS
LOCATED IN SECTION 15, T.9S., R.21E.
S.L.B.&M., Uintah County, Utah



CONSULTING, LLC
371 Coffeen Avenue
Sheridan WY 82801
Phone 307-674-0609
Fax 307-674-0182

Scale: 1"=100'

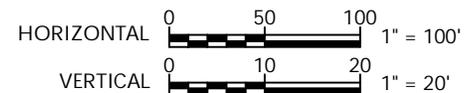
Date: 2/9/09

SHEET NO:

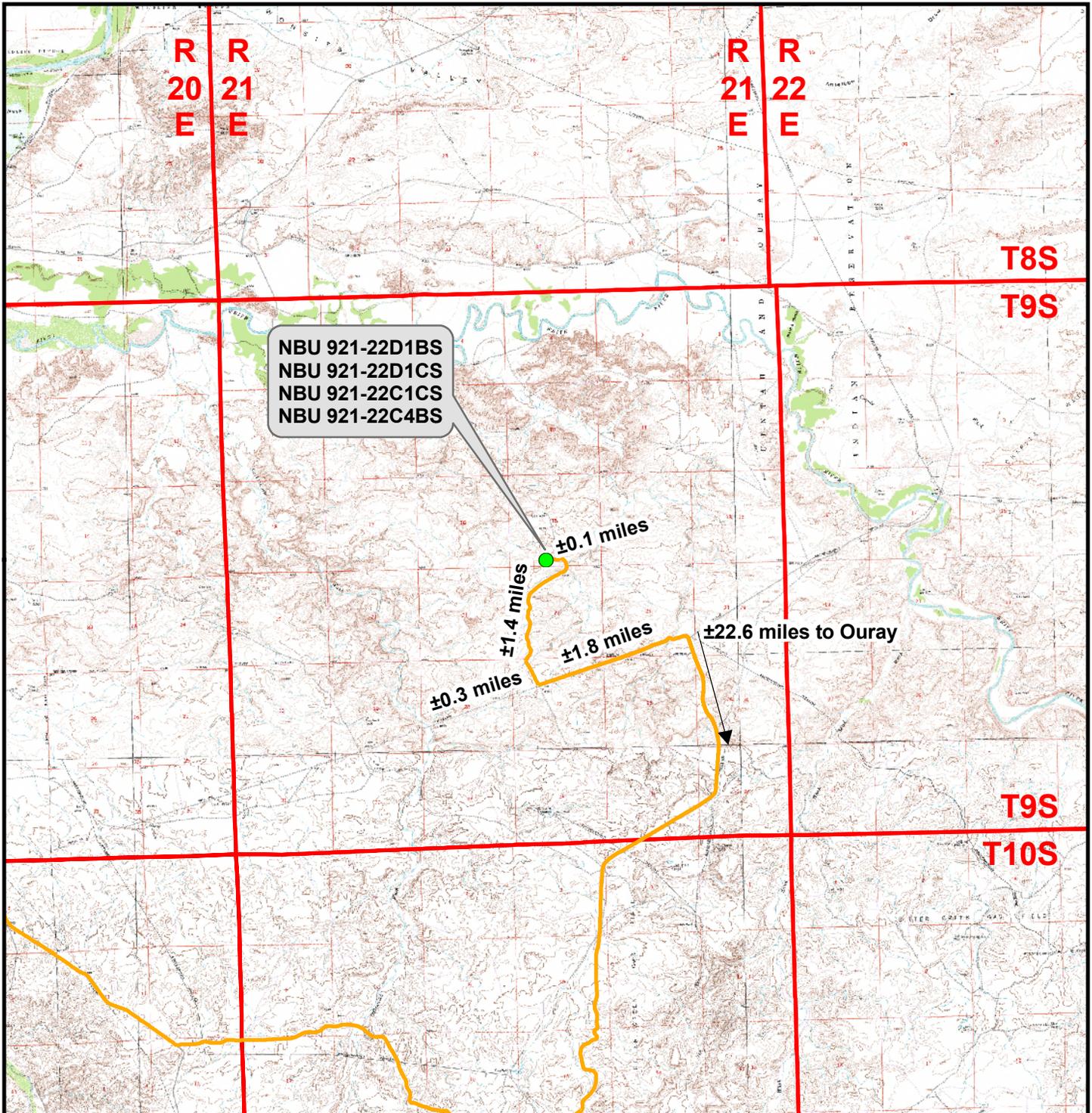
REVISED:

BY
DATE

7
7 OF 13



Timberline (435) 789-1365
Engineering & Land Surveying, Inc.
38 WEST 100 NORTH VERNAL, UTAH 84078



Legend

- Proposed Well Location
- Access Route - Proposed

Kerr-McGee Oil & Gas Onshore, LP
 1099 18th Street, Denver, Colorado 80202

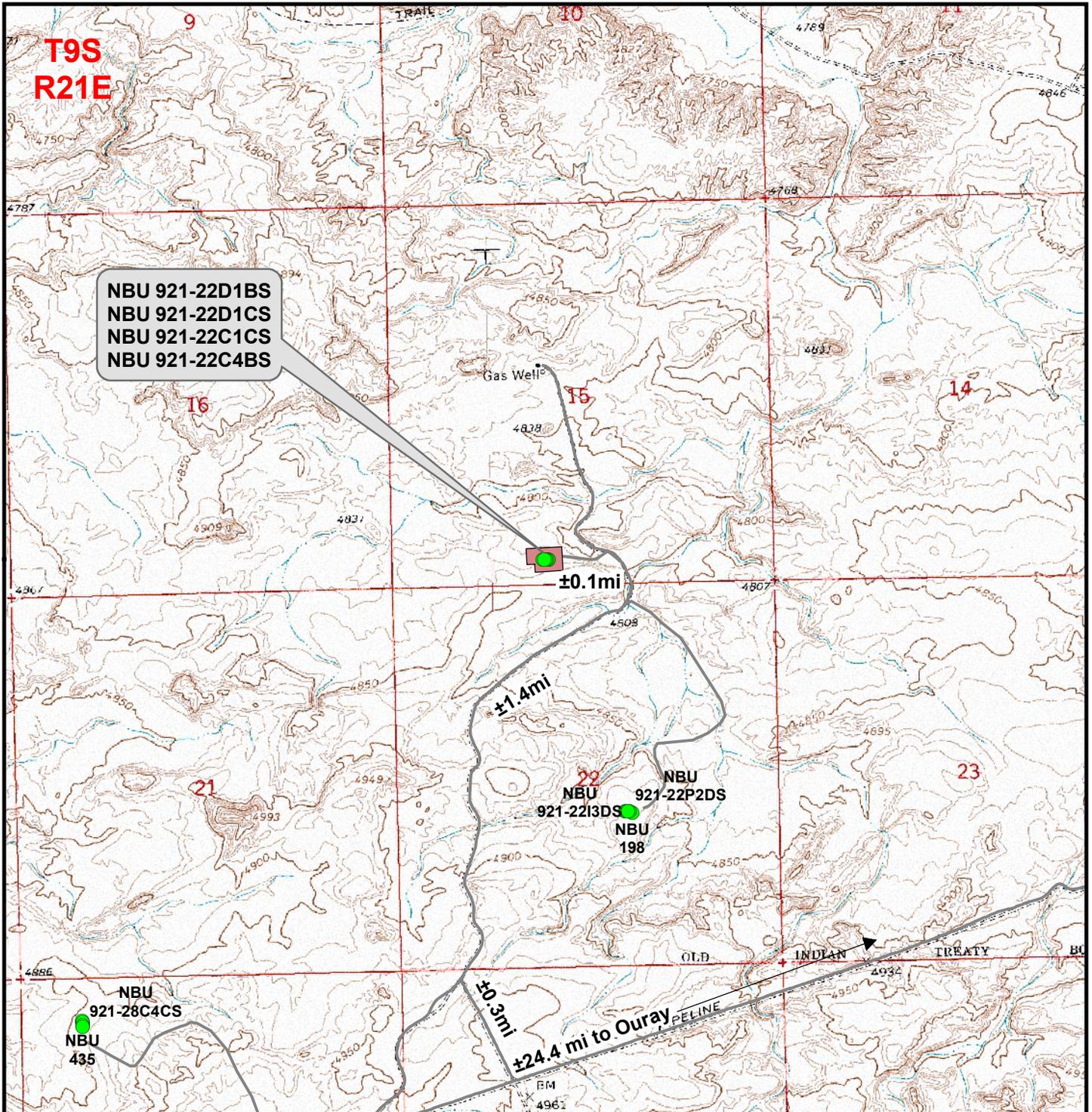
**NBU 921-22D1BS, NBU 921-22D1CS,
 NBU 921-22C1CS & NBU 921-22C4BS**
 Topo A

**Located In Section 15, T9S, R21E
 S.L.B.&M., Uintah County, Utah**

609
 CONSULTING, LLC
 371 Coffeen Avenue
 Sheridan, WY 82801
 Phone (307) 674-0609
 Fax (307) 674-0182



Scale: 1:100,000	NAD83 USP Central	Sheet No:
Drawn: JELO	Date: 10 Feb 2009	9
Revised:	Date:	



Legend

- Well - Proposed
- Well Pad
- Road - Proposed
- Road - Existing

Total Proposed Road Length: ±0ft

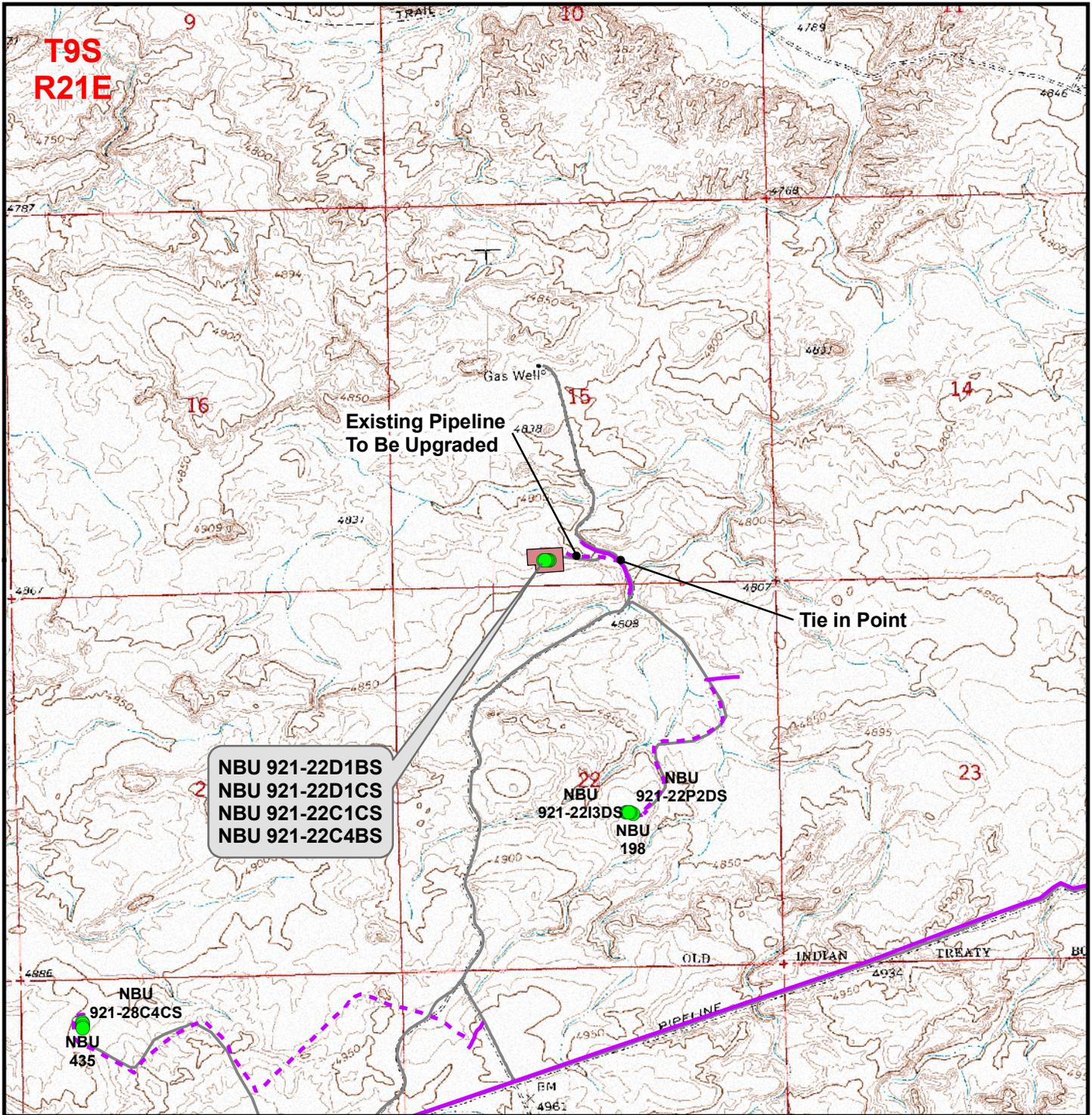
Kerr-McGee Oil & Gas Onshore, LP
 1099 18th Street, Denver, Colorado 80202

**NBU 921-22D1BS, NBU 921-22D1CS,
 NBU 921-22C1CS & NBU 921-22C4BS**
 Topo B
 Located In Section 15, T9S, R21E
 S.L.B.&M., Uintah County, Utah

609
 CONSULTING, LLC
 371 Coffeen Avenue
 Sheridan, WY 82801
 Phone (307) 674-0609
 Fax (307) 674-0182



Scale: 1" = 2000ft	NAD83 USP Central	Sheet No:
Drawn: JELO	Date: 10 Feb 2009	10
Revised:	Date:	



Legend

- Well - Proposed
- Well Pad
- Road - Proposed
- Pipeline - Proposed
- Road - Existing
- Pipeline - Existing

Proposed Pipeline Length From Tie-In Point To Edge Of Pad: ±820ft
 Proposed Pipeline Length Around Pad: ±660ft

Kerr-McGee Oil & Gas Onshore, LP
 1099 18th Street, Denver, Colorado 80202

**NBU 921-22D1BS, NBU 921-22D1CS,
 NBU 921-22C1CS & NBU 921-22C4BS
 Topo D**

**Located In Section 15, T9S, R21E
 S.L.B.&M., Uintah County, Utah**

609
 CONSULTING, LLC
 371 Coffeen Avenue
 Sheridan, WY 82801
 Phone (307) 674-0609
 Fax (307) 674-0182



Scale: 1" = 2000ft	NAD83 USP Central
Drawn: JELo	Date: 10 Feb 2009
Revised:	Date:

Sheet No: 12 12 of 13

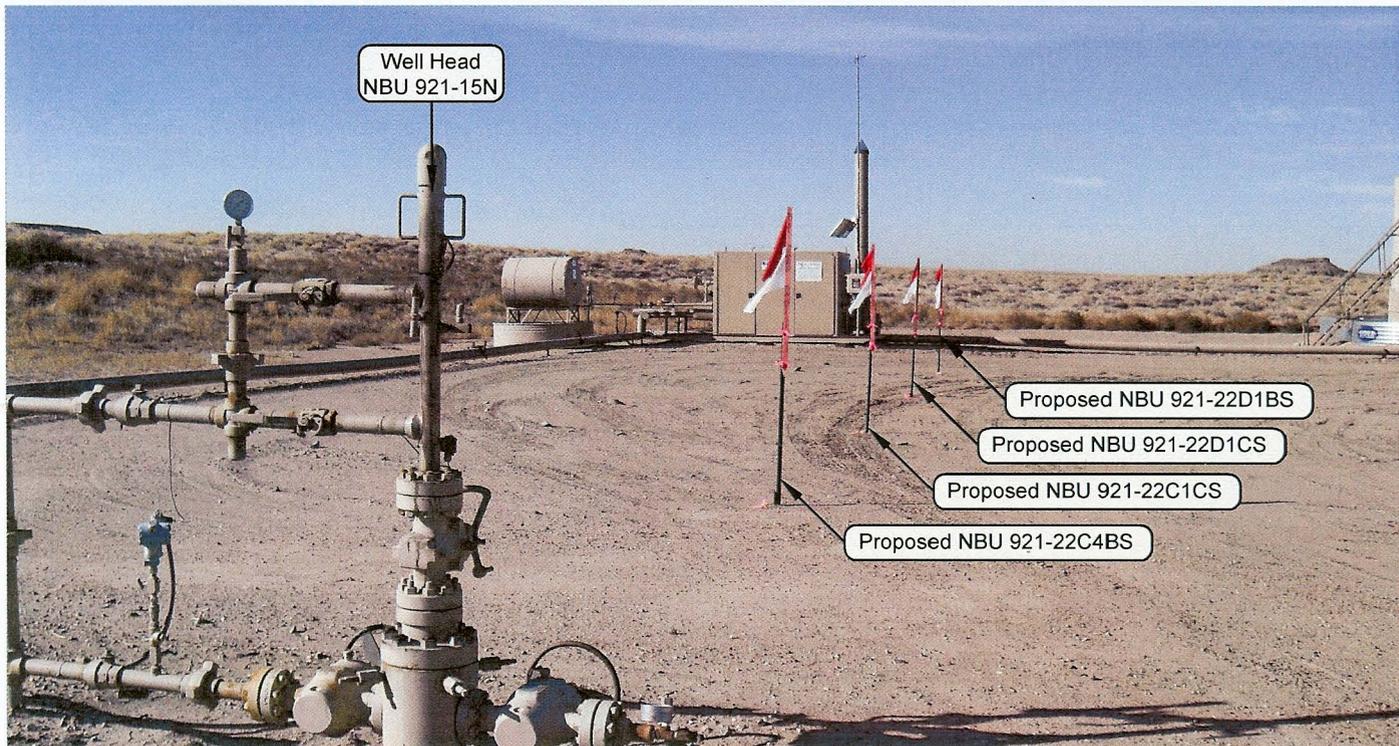


PHOTO VIEW: FROM EXISTING WELL HEAD TO LOCATION STAKES CAMERA ANGLE: SOUTHWESTERLY

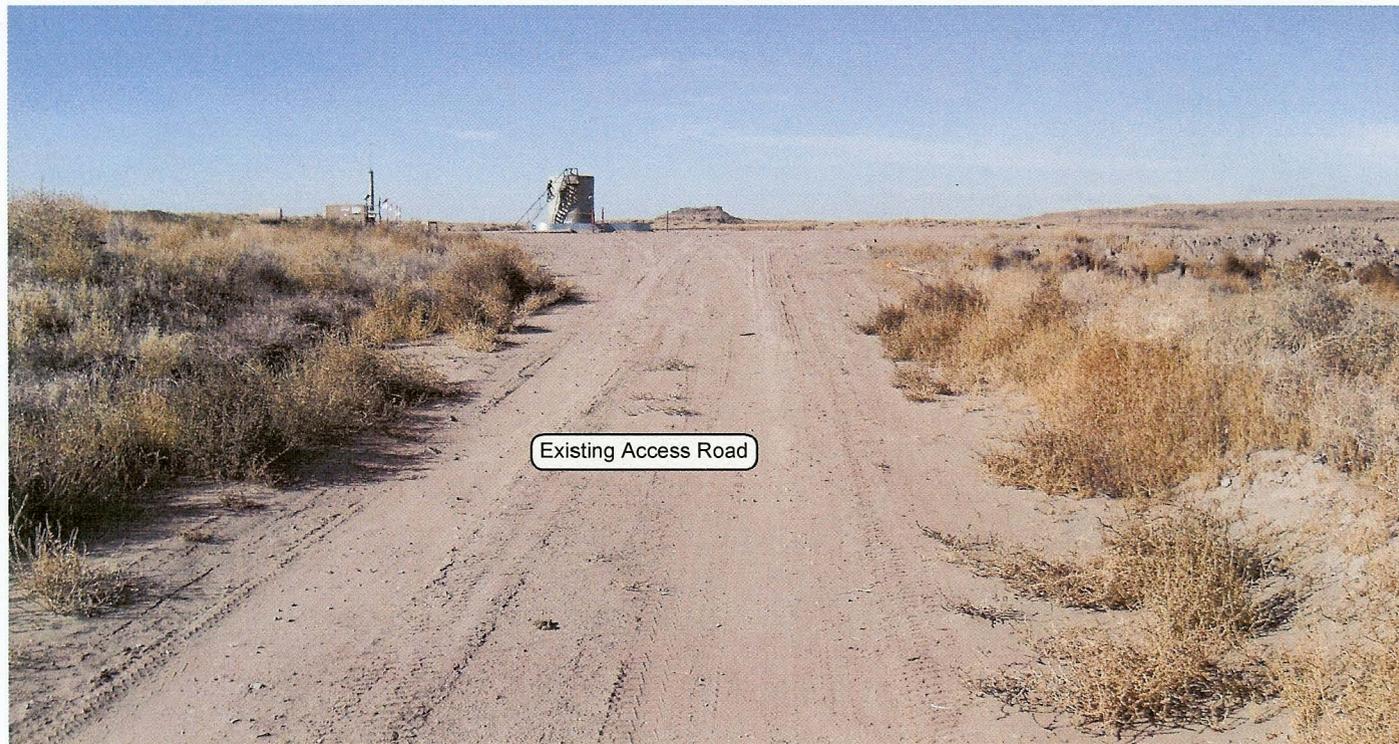


PHOTO VIEW: FROM EXISTING ROAD CAMERA ANGLE: WESTERLY

Kerr-McGee
Oil & Gas Onshore, LP
 1099 18th Street - Denver, Colorado 80202



CONSULTING, LLC
 371 Coffeen Avenue
 Sheridan WY 82801
 Phone 307-674-0609
 Fax 307-674-0182

NBU 921-22D1BS, NBU 921-22D1CS,
 NBU 921-22C1CS & 921-22C4BS
 LOCATED IN SECTION 15, T9S, R21E,
 S.L.B.&M. UINTAH COUNTY, UTAH.

LOCATION PHOTOS		DATE TAKEN: 11-13-08
		DATE DRAWN: 11-14-08
TAKEN BY: M.S.B.	DRAWN BY: E.M.S.	REVISED:

Timberline (435) 789-1365
 Engineering & Land Surveying, Inc.
 38 WEST 100 NORTH VERNAL, UTAH 84078

SHEET
8
OF 13

Kerr-McGee Oil & Gas Onshore, LP
NBU 921-22D1BS, NBU 921-22D1CS, NBU 921-22C1CS & NBU 921-22C4BS
Section 15, T9S, R21E, S.L.B.&M.

PROCEED IN A WESTERLY DIRECTION FROM VERNAL, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 13.9 MILES TO THE JUNCTION OF STATE HIGHWAY 88. EXIT LEFT AND PROCEED IN A SOUTHERLY DIRECTION ALONG STATE HIGHWAY 88 APPROXIMATELY 16.8 MILES TO OURAY, UTAH. FROM OURAY, PROCEED IN A SOUTHERLY DIRECTION ALONG THE SEEP RIDGE ROAD (COUNTY B ROAD 2810) APPROXIMATELY 11.2 MILES TO THE INTERSECTION OF THE GLEN BENCH ROAD (COUNTY B ROAD 3260). EXIT LEFT AND PROCEED IN AN EASTERLY, THEN SOUTHEASTERLY, THEN NORTHEASTERLY DIRECTION ALONG THE GLEN BENCH ROAD APPROXIMATELY 11.4 MILES TO A CLASS D COUNTY ROAD TO THE SOUTHWEST. EXIT LEFT AND PROCEED IN A SOUTHWESTERLY DIRECTION ALONG THE CLASS D COUNTY ROAD APPROXIMATELY 1.8 MILES TO A SECOND CLASS D COUNTY ROAD TO THE NORTH. EXIT RIGHT AND PROCEED IN A NORTH BY NORTHWEST DIRECTION ALONG THE SECOND CLASS D COUNTY ROAD APPROXIMATELY 0.3 MILES TO A THIRD CLASS D COUNTY ROAD TO THE NORTH. EXIT RIGHT AND PROCEED IN A NORTHERLY, THEN NORTHEASTERLY, THEN NORTHERLY DIRECTION ALONG THE THIRD CLASS D COUNTY ROAD APPROXIMATELY 1.4 MILES TO THE EXISTING ACCESS ROAD WHICH RUNS TO THE NBU 921-15N WELL PAD. EXIT LEFT AND PROCEED IN A WESTERLY DIRECTION ALONG THE ACCESS ROAD APPROXIMATELY 0.1 MILES TO THE EXISTING NBU 921-15N WELL PAD.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 56.9 MILES IN A SOUTHERLY DIRECTION.

NBU 921-22C1CS

Surface: 359' FSL, 2,133' FWL (SE/4SW/4) Sec. 15

BHL: 446' FNL 2,071' FWL (NE/4NW/4) Sec.22

NBU 921-22C4BS

Surface: 360' FSL, 2,153' FWL (SE/4SW/4) Sec. 15

BHL: 812' FNL 2,065' FWL (NE/4NW/4) Sec.22

NBU 921-22D1BS

Surface: 357' FSL, 2,093' FWL (SE/4SW/4) Sec. 15

BHL: 226' FNL 819' FWL (NW/4NW/4) Sec.22

NBU 921-22D1CS

Surface: 358' FSL, 2,113' FWL (SE/4SW/4) Sec. 15

BHL: 566' FNL 789' FWL (NW/4NW/4) Sec.22

Pad: NBU 921-15N

T9S R21E

Uintah, Utah

Mineral Lease: UTU 0147566

Surface Owner: Ute Indian Tribe

ONSHORE ORDER NO. 1

***MULTI-POINT SURFACE USE & OPERATIONS PLAN
SUBMITTED WITH SITE-SPECIFIC INFORMATION***

This Application for Permit to Drill (APD) is filed under the Notice of Staking (NOS) process as stated in Onshore Order No. 1 (OSO #1) and supporting Bureau of Land Management (BLM) and Bureau of Indian Affairs (BIA) documents. NOSs were submitted showing the surface locations in SE/4 SW/4 of Section 15 T9S R21E.

This Surface Use Plan of Operations (SUPO) or 13-point plan provides the site-specific information for the above-referenced wells. This information is to be incorporated by reference into the Master Development Plan (MDP) for Kerr-McGee Oil & Gas Onshore LP (Kerr-McGee). The MDP is available upon request from the BIA-Ft Duchesne Office.

An on-site meeting was held on June 24, 2009. Present were:

- Verlyn Pindell and Dave Gordon – BLM;
- Kolby Kay and Mitch Batty – Timberline Surveying, Inc.
- Tony Kazeck, Jeff Samuels, Raleen White, David Liddell, and Hal Blanchard – Kerr-McGee
- Bucky Secakuku – BIA
- Nick Hall – Grasslands Consulting, Inc.
- Scott Carson – Smiling Lake Consulting
- Keith Montgomery – Montgomery Archaeological Consultants, Inc.

Directional Drilling:

In accordance with Utah 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:

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

2. Planned Access Roads:

See MDP for additional details on road construction.

No new access road is proposed. Please refer to the attached Topo Map B. No pipelines will be crossed with the new construction.

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 and are typically shown on the attached Exhibits and Topo maps.

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

Please refer to Topo Map C.

4. Location of Existing and Proposed Facilities:

See MDP for additional details on Existing and Proposed Facilities.

The following guidelines will apply if the well is productive.

Approximately ±1,480' of new pipeline is proposed. Refer to Topo D for the existing pipeline.

Appropriate surface use agreements have been or will be obtained from the Ute Indian Tribe. Pipeline segments will be welded or zaplocked together on disturbed areas in or near the location, whenever possible, and dragged into place

5. Location and Type of Water Supply:

See MDP for additional details on 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 number 43-8496, Application number 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:

See MDP for additional details on Source of Construction Materials.

7. Methods of Handling Waste Materials:

See MDP for additional details on Methods of Handling Waste Materials.

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:

See MDP for additional details on Ancillary Facilities.

None are anticipated.

9. Well Site Layout: (See Location Layout Diagram)

See MDP for additional details on Well Site Layout.

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

- Net wire (39-inch) 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.

10. Plans for Reclamation of the Surface:

See MDP for additional details on Plans for Reclamation of the Surface.

Kerr-McGee shall call the BIA for the seed mixture prior to starting interim and/or final reclamation actions.

11. Surface/Mineral Ownership:

The well pad and access road are located on lands owned by:

Ute Indian Tribe
PO Box 70
Fort Duchesne, Utah 84026
435-722-5141

The mineral ownership is listed below:

United States of America
Bureau of Land Management
170 South 500 East
Vernal, UT 84078
435-781-4400

12. **Other Information:**
See MDP for additional details on Other Information.

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) 929-6007

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 Bureau of Land Management Nationwide Bond WYB000291.

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

June 29, 2009

Date

'APIWellNo:43047505300000'

CLASS I REVIEW OF KERR-MCGEE OIL AND GAS
ONSHORE LP'S 34 PROPOSED WELL LOCATIONS
IN TOWNSHIP 9S, RANGE 21E,
SECTIONS 11, 15, 18, 22, 25 AND 28
UINTAH COUNTY, UTAH

By:

Patricia Stavish

Prepared For:
Ute Tribal Land
Uintah and Ouray Agency

Bureau of Land Management
Vernal Field Office
and
State of Utah
School & 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. 08-319

February 19, 2009

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

**Paleontological Assessment for
Anadarko Petroleum Corp.**

**NBU 921-22D1BS, D1CS, C1CS,
C4BS**

Ouray SE Quadrangle

Uintah County, Utah

Prepared for

Anadarko Petroleum Corp.

and

Ute Tribe

Uintah and Ouray Reservation

Prepared by

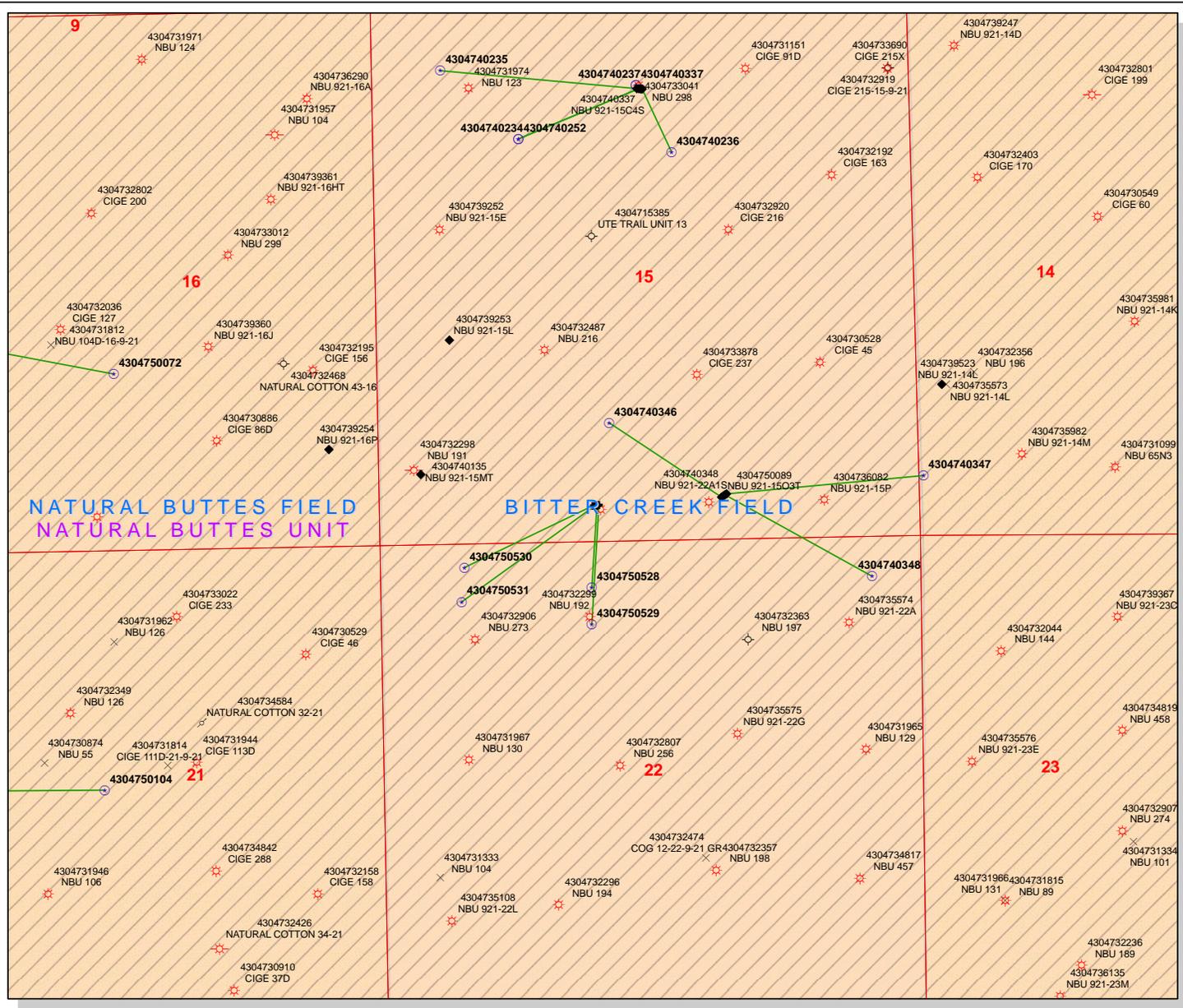
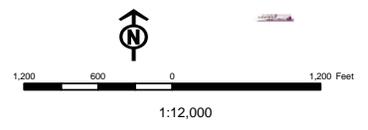
SWCA Environmental Consultants

SWCA #UT09-14314-20

API Number: 4304750530
Well Name: NBU 921-22D1BS
Township 09.0 S Range 21.0 E Section 15
Meridian: SLBM
 Operator: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Map Prepared:
 Map Produced by Diana Mason

Units	Wells Query Events
STATUS	GIS_STAT_TYPE
ACTIVE	<Null>
EXPLORATORY	APD
GAS STORAGE	DRL
NF PP OIL	GI
NF SECONDARY	GS
PI OIL	LA
PP GAS	NEW
PP GEOTHERM	OPS
PP OIL	PA
SECONDARY	PGW
TERMINATED	POW
Fields	RET
ACTIVE	SGW
COMBINED	SOW
Sections	TA
	TW
	WD
	WT
	WS



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)**

July 2, 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)		
43-047-50522	NBU 920-12M4CS	Sec 13 T09S R20E 0422 FNL 2135 FWL
	BHL	Sec 12 T09S R20E 0240 FSL 0675 FWL
43-047-50523	NBU 920-13C1AS	Sec 13 T09S R20E 0389 FNL 2156 FWL
	BHL	Sec 13 T09S R20E 0170 FNL 2600 FWL
43-047-50524	NBU 920-13C4BS	Sec 13 T09S R20E 0405 FNL 2146 FWL
	BHL	Sec 13 T09S R20E 0920 FNL 2100 FWL
43-047-50525	NBU 920-14M1BS	Sec 14 T09S R20E 0468 FSL 0637 FWL
	BHL	Sec 14 T09S R20E 1220 FSL 0675 FWL
43-047-50527	NBU 920-14M3AS	Sec 14 T09S R20E 0488 FSL 0633 FWL
	BHL	Sec 14 T09S R20E 0590 FSL 0635 FWL
43-047-50528	NBU 921-22C1CS	Sec 15 T09S R21E 0359 FSL 2133 FWL
	BHL	Sec 22 T09S R21E 0446 FNL 2071 FWL
43-047-50529	NBU 921-22C4BS	Sec 15 T09S R21E 0360 FSL 2153 FWL
	BHL	Sec 22 T09S R21E 0812 FNL 2065 FWL
43-047-50530	NBU 921-22D1BS	Sec 15 T09S R21E 0357 FSL 2093 FWL
	BHL	Sec 22 T09S R21E 0226 FNL 0819 FWL
43-047-50531	NBU 921-22D1CS	Sec 15 T09S R21E 0358 FSL 2113 FWL

BHL Sec 22 T09S R21E 0566 FNL 0789 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:7-2-09



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 921-22D1BS
T9S-R21E
Section 15: SESW (Surf), Section 22: NWNW (Bottom)
Surface: 357' FSL, 2093' FWL (Sec. 15)
Bottom Hole: 226' FNL, 819' FWL (Sec. 22)
Uintah County, Utah

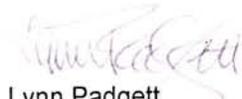
Dear Ms. Mason:

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 921-22D1BS 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

**WORKSHEET
APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 6/30/2009

API NO. ASSIGNED: 43047505300000

WELL NAME: NBU 921-22D1BS

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

PHONE NUMBER: 720 929-6156

CONTACT: Danielle Piernot

PROPOSED LOCATION: SESW 15 090S 210E

Permit Tech Review:

SURFACE: 0357 FSL 2093 FWL

Engineering Review:

BOTTOM: 0226 FNL 0819 FWL

Geology Review:

COUNTY: UINTAH

LATITUDE: 40.02982

LONGITUDE: -109.53912

UTM SURF EASTINGS: 624652.00

NORTHINGS: 4431879.00

FIELD NAME: NATURAL BUTTES

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU 0147566

PROPOSED PRODUCING FORMATION(S): WASATCH-MESA VERDE

SURFACE OWNER: 2 - Indian

COALBED METHANE: NO

RECEIVED AND/OR REVIEWED:

- PLAT
- Bond: FEDERAL - WYB000291
- 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

Commingling 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
BHL SEC 22 NWNW:

Stipulations: 3 - Commingling - ddoucet
4 - Federal Approval - dmason
15 - Directional - dmason
17 - Oil Shale 190-5(b) - dmason



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 921-22D1BS
API Well Number: 43047505300000
Lease Number: UTU 0147566
Surface Owner: INDIAN
Approval Date: 7/30/2009

Issued to:

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

Authority:

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

Duration:

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

Commingle:

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

General:

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

Conditions of Approval:

State approval of this well does not supercede the required federal approval, which must be obtained prior to drilling.

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.

Notification Requirements:

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

- Within 24 hours following the spudding of the well – contact Carol Daniels at 801-538-5284 (please leave a voicemail message if not available)

OR

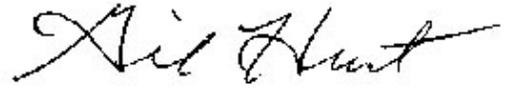
submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website at <http://oilgas.ogm.utah.gov>

Reporting Requirements:

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) – due within 5 days of spudding the well
- Monthly Status Report (Form 9) – due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) – due prior to implementation
- Written Notice of Emergency Changes (Form 9) – due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) – due prior to implementation
- Report of Water Encountered (Form 7) – due within 30 days after completion
- Well Completion Report (Form 8) – due within 30 days after completion or plugging

Approved By:



Gil Hunt
Associate Director, Oil & Gas

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: UTU 0147566
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: Ute Tr
1. TYPE OF WELL Gas Well	7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	8. WELL NAME and NUMBER: NBU 921-22D1BS
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	9. API NUMBER: 43047505300000
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0357 FSL 2093 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESW Section: 15 Township: 09.0S Range: 21.0E Meridian: S	9. FIELD and POOL or WILDCAT: NATURAL BUTTES
	COUNTY: UINTAH
	STATE: UTAH

11.

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 8/3/2010	<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 checked="" 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.

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

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

Date: August 03, 2010

By: 

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



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43047505300000

API: 43047505300000

Well Name: NBU 921-22D1BS

Location: 0357 FSL 2093 FWL QTR SESW SEC 15 TWNP 090S RNG 210E MER S

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

Date Original Permit Issued: 7/30/2009

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

- If located on private land, has the ownership changed, if so, has the surface agreement been updated? Yes No
- Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? Yes No
- Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? Yes No
- Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location? Yes No
- Has the approved source of water for drilling changed? Yes No
- Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? Yes No
- Is bonding still in place, which covers this proposed well? Yes No

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

Signature: Danielle Piernot

Date: 8/3/2010

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

Date: August 03, 2010

By: 

RECEIVED August 03, 2010

BLM - Vernal Field Office - Notification Form

Operator KERR-McGEE OIL & GAS Rig Name/# BUCKET RIG
 Submitted By ANDY LYTLE Phone Number 720.929.6100
 Well Name/Number NBU 921-22D1BS
 Qtr/Qtr SESW Section 15 Township 9S Range 21E
 Lease Serial Number UTU-0147566
 API Number 4304750530

Spud Notice – Spud is the initial spudding of the well, not drilling out below a casing string.

Date/Time 05/14/2011 14:00 HRS AM PM

Casing – Please report time casing run starts, not cementing times.

- Surface Casing
 Intermediate Casing
 Production Casing
 Liner
 Other

RECEIVED
 MAY 16 2011
 DIV. OF OIL, GAS & MINING

Date/Time 05/26/2011 18:00 HRS AM PM

BOPE

- Initial BOPE test at surface casing point
 BOPE test at intermediate casing point
 30 day BOPE test
 Other

Date/Time _____ AM PM

Remarks ESTIMATED DATE AND TIME. PLEASE CONTACT KENNY GATHINGS AT

435.781.7048 OR LOVEL YOUNG AT 435.828.0986

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: UTU 0147566
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: Ute Tr
		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: NBU 921-22D1BS	
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047505300000	
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: 0357 FSL 2093 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESW Section: 15 Township: 09.0S Range: 21.0E Meridian: S	COUNTY: UINTAH	
		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start: <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input checked="" type="checkbox"/> DRILLING REPORT Report Date: 5/29/2011	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	
	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.		
MIRU AIR RIG ON MAY 26, 2011. DRILLED SURFACE HOLE TO 2650'. RAN SURFACE CASING AND CEMENTED. WELL IS WAITING ON ROTARY RIG. DETAILS OF CEMENT JOB WILL BE INCLUDED WITH WELL COMPLETION REPORT.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY		
NAME (PLEASE PRINT) Andy Lytle	PHONE NUMBER 720 929-6100	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 5/31/2011	

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: UTU 0147566
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		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: NBU 921-22D1BS	
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047505300000	
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: 0357 FSL 2093 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESW Section: 15 Township: 09.0S Range: 21.0E Meridian: S	COUNTY: UINTAH	
		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start: <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input checked="" type="checkbox"/> SPUD REPORT Date of Spud: 5/14/2011 <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> WILDCAT WELL DETERMINATION <input type="checkbox"/> OTHER	
		<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.		
MIRU PETE MARTIN BUCKET RIG. DRILLED 20" HOLE TO 40'. RAN 14" 36.7# SCHEDULE 10 PIPE. CMT W/28 SX READY MIX. SPUD WELL LOCATION ON 05/14/2011 AT 14:30 HRS.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY		
NAME (PLEASE PRINT) Sheila Wopsock	PHONE NUMBER 435 781-7024	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 5/17/2011	

ENTITY ACTION FORM

Operator: KERR MCGEE OIL & GAS ONSHORE LP
Address: 1368 SOUTH 1200 EAST
city VERNAL
state UT zip 84078

Operator Account Number: N 2995

Phone Number: (435) 781-7024

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304750530	NBU 921-22D1BS		SESW	15	9S	21E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
<i>B</i>	99999	<i>2900</i>	5/14/2011			<i>5/31/11</i>	
Comments: <i>MIRU PETE MARTIN BUCKET RIG. WSMVB</i> <i>SPUD WELL LOCATION ON 05/14/2011 AT 1430 HRS</i> <i>BHL = Sec 22 NWNW</i>							

Well 2

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

Well 3

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

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

5/16/2011

Date

RECEIVED

MAY 18 2011

DIV. OF OIL, GAS & MINING

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: UTU 0147566
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: Ute Tr
		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: NBU 921-22D1BS	
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047505300000	
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: 0357 FSL 2093 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESW Section: 15 Township: 09.0S Range: 21.0E Meridian: S	COUNTY: UINTAH	
		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> 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"/> SUBSEQUENT REPORT Date of Work Completion: 7/18/2011		<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION
<input type="checkbox"/> SPUD REPORT Date of Spud:		<input type="checkbox"/> OTHER: RIG REL. - ACTS PIT
<input type="checkbox"/> DRILLING REPORT Report Date:		
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. MIRU ROTARY RIG. FINISHED DRILLING FROM 2650' TO 10,395' ON JULY 14, 2011. RAN 4-1/2" 11.6# I-80 PRODUCTION CASING TO 9772'. RAN 4 1/2" 11.6# P110 CSG FROM 9772' TO 10,438'. CEMENTED PRODUCTION CASING. RELEASED ENSIGN RIG 145 ON JULY 18, 2011 @ 02:00 HRS. DETAILS OF CEMENT JOB WILL BE INCLUDED WITH THE WELL COMPLETION REPORT. WELL IS WAITING ON FINAL COMPLETION ACTIVITIES. THE PIT ON THIS LOCATION WILL BE REFURBISHED AND UTILIZED AS PART OF THE ACTS SYSTEM.		
NAME (PLEASE PRINT) Andy Lytle		PHONE NUMBER 720 929-6100
SIGNATURE N/A		TITLE Regulatory Analyst
		DATE 7/18/2011

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

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: UTU 0147566
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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
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		STATE: UTAH
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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"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 8/31/2011	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON
	<input checked="" type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER
		OTHER: <input type="text"/>
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.		
THE SUBJECT WELL WAS PLACED ON PRODUCTION ON 08/31/2011 AT 12:30 PM. THE CHRONOLOGICAL WELL HISTORY WILL BE SUBMITTED WITH THE WELL COMPLETION REPORT.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY		
NAME (PLEASE PRINT) Sheila Wopsock	PHONE NUMBER 435 781-7024	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 9/1/2011	

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.
UTU0147566

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

2. Name of Operator **KERR MCGEE OIL & GAS ONSHORE** Contact: **JAIME L. SCHARNOWSKE**
 Email: **JAIME.SCHARNOWSKE@ANADARKO.COM**

3. Address **PO BOX 173779 DENVER, CO 80217** 3a. Phone No. (include area code)
Ph: 720-929-6304

4. Location of Well (Report location clearly and in accordance with Federal requirements)*
 Sec 15 T9S R21E Mer SLB
 At surface **SESW 357FSL 2093FWL 40.029802 N Lat, 109.539832 W Lon**
 Sec 22 T9S R21E Mer SLB
 At top prod interval reported below **NWNW 196FNL 819FWL**
 Sec 22 T9S R21E Mer SLB
 At total depth **NWNW 221FNL 832FWL**

6. If Indian, Allottee or Tribe Name _____
 7. Unit or CA Agreement Name and No.
UTU63047A
 8. Lease Name and Well No.
NBU 921-22D1BS
 9. API Well No.
43-047-50530
 10. Field and Pool, or Exploratory
NATURAL BUTTES
 11. Sec., T., R., M., or Block and Survey
 or Area **Sec 15 T9S R21E Mer SLB**
 12. County or Parish
UNITAH 13. State
UT
 14. Date Spudded
05/14/2011 15. Date T.D. Reached
07/14/2011 16. Date Completed
 D & A Ready to Prod.
08/31/2011 17. Elevations (DF, KB, RT, GL)*
4826 GL

18. Total Depth: MD **10449** TVD **10198** 19. Plug Back T.D.: MD **10392** TVD **10141** 20. Depth Bridge Plug Set: MD **10392** TVD **10141**

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
BHV-SD/DSN/ACTR-CBL/GR/CT 22. Was well cored? No Yes (Submit analysis)
 Was DST run? No Yes (Submit analysis)
 Directional Survey? No Yes (Submit analysis)

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

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
20.000	14.000 STL	36.7		40		28			
12.250	9.625 J-55	40.0		2629		525		0	
7.875	4.500 I-80	11.6		9772		1845		372	
7.875	4.500 P-110	11.6	9772	10438					

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.375	9551							

25. Producing Intervals 26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) MESAVERDE	8200	10119	8200 TO 10119	0.360	166	OPEN
B) WSDMVD						
C)						
D)						

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

Depth Interval	Amount and Type of Material
8200 TO 10119	PUMP 7,228 BBLs SLICK H2O & 180,371 LBS SAND

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
08/31/2011	09/03/2011	24	→	0.0	2142.0	456.0			FLOWS FROM WELL
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
20/64	1500	2375.0	→	0	2142	456		PGW	

28a. Production - Interval B

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

(See Instructions and spaces for additional data on reverse side)
 ELECTRONIC SUBMISSION #119211 VERIFIED BY THE BLM WELL INFORMATION SYSTEM
 ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED **

RECEIVED
OCT 11 2011

28b. Production - Interval C

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

28c. Production - Interval D

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

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

30. Summary of Porous Zones (Include Aquifers):

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

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
GREEN RIVER BIRD'S NEST MAHOAGANY WASATCH MESAVERDE	1600 1956 2322 5235 8193	8193 10438	TD		

32. Additional remarks (include plugging procedure):

Attached is the chronological well history, perforation report & final survey.
The Rig Release Sundry submitted 7/18/2011 showed a TD of 10,395. TD should have been reported as 10,449.

33. Circle enclosed attachments:

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

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

**Electronic Submission #119211 Verified by the BLM Well Information System.
For KERR MCGEE OIL & GAS ONSHORE,L, sent to the Vernal**

Name (please print) JAIME L. SCHARNOWSKE Title REGULATORY ANALYST

Signature _____ (Electronic Submission) Date 10/05/2011

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

**** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ****

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 921-22D1BS GREEN		Spud Conductor: 5/14/2011	Spud Date: 5/26/2011
Project: UTAH-UINTAH		Site: NBU 921-15N PAD	Rig Name No: ENSIGN 145/145, CAPSTAR 310/310
Event: DRILLING		Start Date: 5/8/2011	End Date: 7/18/2011
Active Datum: RKB @4,839.00ft (above Mean Sea Level)		UWI: NE/NW/0/9/S/21/E/22/0/0/26/PM/S/357/N/0/2093/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
5/26/2011	8:30 - 12:00	3.50	DRLSUR	01	C	P		SKID RIG TO LAST WELL ON PAD NBU 921-22D1BS
	12:00 - 14:00	2.00	DRLSUR	14	A	P		WELD ON CONDUCTOR AND RIG UP FLOW LINE
	14:00 - 14:30	0.50	DRLSUR	06	A	P		PICK UP MOTOR AND 12.25" BIT
	14:30 - 16:00	1.50	DRLSUR	02	C	P		SPUD WELL DRILL 12.25" HOLE F/ 40' - 227' WOB 8-15 ROT 45-55 GPM 600
	16:00 - 17:30	1.50	DRLSUR	06	A	P		TOOH PICK UP DIRECTIONAL TOOLS AND INSTALL MWD TOOL ORIENT TO MUD MOTOR AND TIH
	17:30 - 19:00	1.50	DRLSUR	07	C	P		SLIP AND CUT DRILL LINE
	19:00 - 0:00	5.00	DRLSUR	02	C	P		DRILL 12.25" HOLE F/ 227' - 721' AVE ROP 98 FT HR WOB 20-22 ROT 45-55 DHR 96 NO LOSSES LAST SURVEY 8.09 DEG 256.67 AZI
5/27/2011	0:00 - 0:30	0.50	DRLSUR	08	A	P		FIX HYDRAULIC LEAKS
	0:30 - 14:00	13.50	DRLSUR	02	C	P		DRILL 12.25" HOLE F/ 721' - 2100' AVE ROP 102 FT HR WOB 20-22 ROT 45-55 DHR 96 LAST SURVEY 24.71 DEG 243.49 AZI
	14:00 - 14:30	0.50	DRLSUR	07	A	P		DAILY RIG SERVICE
	14:30 - 0:00	9.50	DRLSUR	02	C	P		DRILL 12.25" HOLE F/ 2100' - 2650' T.D. AVE ROP 57 FT HR WOB 20-22 ROT 45-55 DHR 96 LAST SURVEY 20.84 DEG 239.1 AZI 13' RIGHT 28' HIGH
5/28/2011	0:00 - 1:30	1.50	DRLSUR	05	C	P		CIRCULATE AND CONDITION MUD PRIOR TO SHORT TRIP
	1:30 - 2:30	1.00	DRLSUR	06	D	P		SHORT TRIP 15 JOINTS PUMPED FIRST 5 OFF BOTTOM
	2:30 - 3:30	1.00	DRLSUR	05	C	P		CIRCULATE AND CONDITION MUD PRIOR TO LDDS
	3:30 - 8:00	4.50	DRLSUR	06	A	P		TOOH LAYING DOWN DRILL STRING BREAK DOWN DIRECTIONAL TOOLS AND L/D MWD TOOL, BIT, AND MUD MOTOR
	8:00 - 10:30	2.50	DRLSUR	12	C	P		RIG UP AND RUN 9 5/8 40# CASING
	10:30 - 12:30	2.00	DRLSUR	12	E	P		CONDUCT SAFETY MEETING AND TEST LINES TO 2500 PSI // PUMP 25 BBL SPACER // LEAD= 200 SX CLASS G CMT @ 3.83 YIELD & 11.0 WT // TAIL= 225 SX CLASS G CMT @ 1.15 YIELD & 15.8 WT // DROP PLUG & DIEPLACE W/ 158 BBL'S WATER // PLUG DN // BUMP PLUG W/ 625 PSI // FINAL LIFT = 245 PSI // CHECK FLOATS- HELD W/ 20 BBL'S BACK //
	12:30 - 13:00	0.50	DRLSUR	14	A	P		CUT CONDUCTOR AND HANG OFF CASING
13:00 - 14:00	1.00	DRLSUR	12	E	P		RUN 200' OF 1" PIPE AND PUMP 1" TOP OUT W/ 100 SX CLASS G CMT @ 1.15 YIELD @ 15.8 WT // CMT TO SURFACE RELEASE RIG 5-28-2011 @ 1400	

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 921-22D1BS GREEN		Spud Conductor: 5/14/2011		Spud Date: 5/26/2011	
Project: UTAH-UINTAH		Site: NBU 921-15N PAD		Rig Name No: ENSIGN 145/145, CAPSTAR 310/310	
Event: DRILLING		Start Date: 5/8/2011		End Date: 7/18/2011	
Active Datum: RKB @4,839.00ft (above Mean Sea Level)		UWI: NE/NW/0/9/S/21/E/22/0/0/26/PM/S/357/W/0/2093/0/0			

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	14:00 - 14:00	0.00	DRLSUR					CONDUCTOR CASING: Cond. Depth set: 40 Cement sx used: 28 SPUD DATE/TIME: 5/26/2011 14:30 SURFACE HOLE: Surface From depth: 40 Surface To depth: 2,650 Total SURFACE hours: 29.50 Surface Casing size: 9-5/8" # of casing joints ran: Casing set MD: 2,624.0 # sx of cement: 200/225/100 Cement blend (ppg:): 11/15.8/15/8 Cement yield (ft3/sk): 3.82/1.15/1.15 # of bbls to surface: 35 Describe cement issues: NONE Describe hole issues: NONE
7/5/2011	18:30 - 20:00	1.50	MIRU	01	C	P		PULL OUT CAT WALK. DISCONNECT FLOWLINE FROM PITS. DISSCONNECT FLARE LINES. PLACE MATTING BOARDS IN FRONT OF RIG.
	20:00 - 22:00	2.00	MIRU	01	C	P		SKID RIG 20' FOWARD OVER WELL BORE. SET DOWN STACK . MOVE CATWALK BACK INTO PLACE. TIGHTEN GERONIMO
	22:00 - 23:00	1.00	MIRU	08	A	Z		WAIT ON HAND TO HAVE FULL CREW
	23:00 - 0:00	1.00	MIRU	01	B	P		CENTER RIG & LEVEL RIG.
7/6/2011	0:00 - 1:00	1.00	RDMO	01	B	P		WORKED ON WELL HEAD ON LAST WELL. INSTALLED GAUGE. CLEANED THREADS AND INSTALLED CAP ON LAST WELL.
	1:00 - 3:30	2.50	RDMO	14	A	P		N/U BOP. INSTALL FLOW LINES. HOOK UP FLARE LINES. PERFORM RIG INSPECTION.
	3:30 - 12:00	8.50	RDMO	15	A	P		HOLD SAFETY MEETING. TEST TOP DRIVE VALVE, FLOOR VALVE, DART VALVE, PIPE AND BLIND RAMS, INSIDE AND OUTSIDE KILL LINE VALVES INSIDE CHOKE LINE VALVE, HCR VALVE, CHOKE LINE, CHOKE MANIFOLD VALVES AND CHOKES TO 5000 PSI FOR 10 MIN AND 250 PSI FOR 5 MIN. TEST ANNULAR TO 2500 PSI FOR 10 MIN AND 250 PSI FOR 5 MIN. TEST CSG TO 1500 PSI FOR 30 MIN. (HAD TO CLEAN OUT AND TIGHTEN CHOKE LINE CLAMP ON CHOKE MANIFOLD.) HELD BOP TEST WITH DONNA KENNY (BLM) PRESENT. SET WEAR BUSHING WITH ID 8 " W/ NO ABNORMAL WEAR.
	12:00 - 12:30	0.50	RDMO	01	B	P		INSTALL BLEED OFF HOSE FOR PREVIOUS WELL HEAD. PREVIOUS WELL HOLDING 800 PSI ON BACK SIDE OF PRODUCTION CSG.
	12:30 - 13:00	0.50	RDMO	07	A	P		SERVICE RIG. CHANGE OUT GRABBER DIES ON TOP DRIVE. CHANGE OUT SAVER SUB.
	13:00 - 17:30	4.50	RDMO	06	A	P		P/U SCIENTIFIC ERT MOTOR .23 RPG 1.5 BH. M/U SMITH MDI 616 BIT W/ 6-16'S. SCRIBE MOTOR AND DIRECTIONAL TOOLS. INSTALL EM TOOL. TRIP IN HOLE TO 2500'. INSTALL ROT HEAD RUBBER.
	17:30 - 19:30	2.00	RDMO	09	A	P		SLIP AND CUT 105' OF DRILL LINE.
	19:30 - 21:00	1.50	DRLPRO	02	F	P		TAG CEMENT 2542'. SPUD 7/6/2011 19:30. DRILL CEMENT AND FLOAT EQUIPMENT FROM 2542'-2654'. WOB 12 K, RPM 30. GPM 473. (FLOAT COLLAR @ 2587'. FLOAT SHOE 2632.

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 921-22D1BS GREEN		Spud Conductor: 5/14/2011		Spud Date: 5/26/2011	
Project: UTAH-UINTAH		Site: NBU 921-15N PAD		Rig Name No: ENSIGN 145/145, CAPSTAR 310/310	
Event: DRILLING		Start Date: 5/8/2011		End Date: 7/18/2011	
Active Datum: RKB @4,839.00ft (above Mean Sea Level)		UWI: NE/NW/0/9/S/21/E/22/0/0/26/PM/S/357/W/0/2093/0/0			

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	21:00 - 0:00	3.00	DRLPRO	02	D	P		DRILL SLIDE 2654'-2938' (284', 95'/HR) 'WOB 15-20K AVE WOB 18K, SPM 120, GPM 540, PSI ON/OFF 1400/950, DIFF 450, MOT RPM 124, ROT 45, TOR ON/OFF/UP 7/5/5, PU/SO/ROT 120/97/104, DRAG 16K. CIRC RESERVE PIT WITH 8.4# WATER. SLIDE 120' @ 90'/HR. 42% SLIDE 58% ROT. (BOP DRILL 38 SECONDS)
7/7/2011	0:00 - 10:00	10.00	DRLPRO	02	D	P		DRILL SLIDE 2938'-3935' (997', 100'/HR) 'WOB 15-22K AVE WOB 18K, SPM 120, GPM 540, PSI ON/OFF 1700/1200, DIFF 500, MOT RPM 124, ROT 40-45, TOR ON/OFF/UP 9/5/6, PU/SO/ROT 133/106/115, DRAG 18K. CIRC RESERVE PIT WITH 8.4# WATER. SLIDE 380' @ 90'/HR. 38% SLIDE 62% ROT. SLIDE TO HOLD TANGENT. START DROP @ 3800'.
	10:00 - 10:30	0.50	DRLPRO	07	A	P		RIG SERVICE. SERVICE TOP DRIVE. CHANGE OUT MAIN DRIVE ON PASON COMPUTER.
	10:30 - 18:00	7.50	DRLPRO	02	D	P		DRILL SLIDE 3935'-4750' (815', 109'/HR) 'WOB 15-22K AVE WOB 18K, SPM 120, GPM 540, PSI ON/OFF 1700/1200, DIFF 500, MOT RPM 124, ROT 40-45, TOR ON/OFF/UP 9/5/6, PU/SO/ROT 138/113/126, DRAG 12K. CIRC RESERVE PIT WITH 8.4# WATER. RUN POLYMER SWEEPS ON CONNECTIONS. NO LOSSES AT THIS TIME. SLIDE 127' @ 85'/HR. 16% SLIDE 84% ROT.
	18:00 - 0:00	6.00	DRLPRO	02	D	P		DRILL SLIDE 4750'- 5292' (542',90'/HR) 'WOB 15-22K AVE WOB 18K, SPM 120, GPM 540, PSI ON/OFF 1950/1450, DIFF 500, MOT RPM 124, ROT 45-55, TOR ON/OFF/UP 10/5/7, PU/SO/ROT 160/125/140, DRAG 20K. CIRC RESERVE PIT WITH 8.4# WATER. RUN POLYMER SWEEPS ON CONNECTIONS. NO LOSSES AT THIS TIME. SLIDE 110' @ 65'/HR. 20% SLIDE 80% ROT. NEEDED TO SLIDE DOWN TO DROP AFTER 7 DEGREES.
7/8/2011	0:00 - 6:00	6.00	DRLPRO	02	D	P		DRILL SLIDE 5292'-6109' (817',136') 'WOB 15-22K AVE WOB 18K, SPM 120, GPM 540, PSI ON/OFF 2000/1500, DIFF 500, MOT RPM 124, ROT 40-50, TOR ON/OFF/UP 12/9/9, PU/SO/ROT 174/142/154, DRAG 20K. CIRC RESERVE PIT WITH 8.4# WATER. RUN POLYMER SWEEPS ON CONNECTIONS. NO LOSSES AT THIS TIME. SLIDE 69' @ 65'/HR. 9% SLIDE 91% ROT.
	6:00 - 10:00	4.00	DRLPRO	02	D	P		DRILL SLIDE 6109'-6551' (442', 110'/HR) WOB 15-22K AVE WOB 20K, SPM 120, GPM 540, PSI ON/OFF 2000/1500, DIFF 500, MOT RPM 124, ROT 40-50, TOR ON/OFF/UP 12/9/9, PU/SO/ROT 183/148/163, DRAG 20K. CIRC RESERVE PIT WITH 8.4# WATER. RUN POLYMER SWEEPS ON CONNECTIONS. NO LOSSES AT THIS TIME. SLIDE 30' @ 70'/HR. 7% SLIDE 93% ROT.

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 921-22D1BS GREEN		Spud Conductor: 5/14/2011		Spud Date: 5/26/2011	
Project: UTAH-UINTAH		Site: NBU 921-15N PAD		Rig Name No: ENSIGN 145/145, CAPSTAR 310/310	
Event: DRILLING		Start Date: 5/8/2011		End Date: 7/18/2011	
Active Datum: RKB @4,839.00ft (above Mean Sea Level)		UWI: NE/NW/0/9/S/21/E/22/0/0/26/PM/S/357/W/0/2093/0/0			

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	10:00 - 12:30	2.50	MAINT	08	B	Z		THE BLOCKS FELL FREE WHILE DRILLING. DRILLER HAD TO HIT AUTOMATIC STOP BUTTON TO STOP DRUM FROM TURNING. THE ENTIRE WEIGHT OF DRILL STRING AND TOP DRIVE STACKED OUT AND DRILL LINE STARTED UN SPOOLING OFF OF DRUM. SET SLIPS AND SECURED TOP DRIVE WITH CHAINS. ESTABLISHED SLOW CIRC. THROUGH DRILL STRING OF ABOUT 180 GPM. INSPECT FOR DAMAGED DRILL LINE OR EQUIPMENT. UN SPOOL LOOSE DRILL LINE OFF OF DRUM AND RE SPOOL BACK ONTO DRUM. INSPECT TO MAKE SURE DRILL LINE DID NOT JUMP CHIVES AT CROWN. INSPECT DRUM BRAKES. P/U 20 K AT TIME MAKING SURE BRAKES WOULD ENGAGE. PULL 10K OVER AND ROT DRILL STRING FREE. ESTABLISH GOOD CIRC THROUGH DRILL STRING. ENSIGN ELECTRICIAN ON SITE TROUBLE SHOOTING PROBLEM.
	12:30 - 0:00	11.50	MAINT	08	B	Z		UNABLE TO DETERMINE WHY INCIDENT HAPPENED. ENSIGN HELD CONFERENCE CALL WITH ENSIGN MAIN OFFICE, SAFETY DEPARTMENT AND PECO. THE RIG WILL REMAINED LOCKED OUT TILL PECO HAND INSPECTS PROBLEM. THE PECO HAND WILL BE HERE TOMMOROW IN THE MORNING. CIRC HOLE 280 GPM AND ROT @ 10 RPM. (NO LOSSES OF FLUID DOWN HOLE)
7/9/2011	0:00 - 19:30	19.50	MAINT	08	B	Z		WAIT FOR PECO HAND TO ARRIVE. PECO HAND LEAVING SALT LAKE CITY AROUND 13:00. PECO HAND ARRIVED AT RIG @ 19:30. CIRC WITH 180 GPM AND ROT @ 10 RPM WHILE WAITING.
	19:30 - 22:00	2.50	MAINT	08	B	Z		THE PECO HAND WORKED ON COMPUTER. HE CLEAN OUT COMPUTER. HE FOUND 1 FILE ON COMPUTER THAT WAS POSSIBLY CORRUPTED. THERE SUPPOSE TO BRING OUT FILE THAT IS TOMMOROW THAT WILL STOP RIG IF RIG STARTES TO EXCEED 500 ROP WHILE DRILLING. REBOT COMS AND READY RIG TO DRILL. WHEN STARTING TO DRILL EVERYTHING SEEMED NORMAL.
	22:00 - 0:00	2.00	DRLPRO	02	D	P		DRILL SLIDE 6551'-6763' (212', 106'/HR) WOB 15-22K AVE WOB 20K, SPM 120, GPM 540, PSI ON/OFF 2100/1600, DIFF 500, MOT RPM 124, ROT 40-50, TOR ON/OFF/UP 12/9/9, PU/SO/ROT 190/150/166, DRAG 24K. CIRC RESERVE PIT WITH 8.4# WATER. RUN POLYMER SWEEPS ON CONNECTIONS. SOME SEEEPAGE DOWN HOLE FROM APPROX 6700'. START GEL AND LCM SWEEPS TO CONTROL LOSSES. SLIDE 18' @ 50'/HR. 8% SLIDE 92% ROT. (SENT 230 BBLS OF STORAGE MUD TO PROPETRO RIG 11 AND 12)
7/10/2011	0:00 - 6:30	6.50	DRLPRO	02	D	P		DRILL SLIDE 6763'-7468' (705', 108'/HR) WOB 18-23K AVE WOB 21K, SPM 120, GPM 540, PSI ON/OFF 2150/1750, DIFF 400, MOT RPM 124, ROT 40-50, TOR ON/OFF/UP 12/8/12, PU/SO/ROT 211/159/179, DRAG 32K. CIRC RESERVE PIT WITH 8.4# WATER. RUN POLYMER SWEEPS ON CONNECTIONS. SOME SEEEPAGE DOWN HOLE FROM APPROX 6700'. (LOSS 600 BBLS IN PIT) START GEL AND LCM SWEEPS TO CONTROL LOSSES. SLIDE 24' @ 40'/HR. 4% SLIDE 96% ROT.

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-22D1BS GREEN		Spud Conductor: 5/14/2011		Spud Date: 5/26/2011	
Project: UTAH-UINTAH		Site: NBU 921-15N PAD		Rig Name No: ENSIGN 145/145, CAPSTAR 310/310	
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Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	6:30 - 15:30	9.00	DRLPRO	02	D	P		DRILL SLIDE 7468'-8032' (564', 63'/HR) WOB 18-23K AVE WOB 21K, SPM 120, GPM 540, PSI ON/OFF 2150/1750, DIFF 400, MOT RPM 124, ROT 40-50, TOR ON/OFF/UP 12/8/12, PU/SO/ROT 211/159/179, DRAG 32K. START MUD UP @ 7470' (LOW RESERVE PIT VOLUME). DISPLACE RESERVE PIT WATER w/ 9500 CHLORIDE TO PIT W/ 550 BBLs OF FRESH WATER AND GEL. ADD LCM TO CONTROL LOSSES AND 300 BBLs OF STORED MUD FOR MUD WT TO HOLD BACK WATER ZONE CONTAMINATING MUD WITH CHLORIDES. MUD IN 9.8/38 VIS. MUD OUT 9.5/40 VIS 8% LCM. SLIDE 30' @ 45'/HR. 5% SLIDE 95% ROT.
	15:30 - 16:00	0.50	DRLPRO	07	A	P		RIG SERVICE. SERVICE TOP DRIVE. FUNCTION PIPE RAMS AND ANNULAR.
	16:00 - 0:00	8.00	DRLPRO	02	D	P		DRILL SLIDE 8032'-8585' (553', 69'/HR) WOB 18-24K AVE WOB 22K, SPM 120, GPM 540, PSI ON/OFF 2400/2000, DIFF 400, MOT RPM 124, ROT 40-50, TOR ON/OFF/UP 12/10/13, PU/SO/ROT 235/163/190, DRAG 45K. MUD IN 10.2/36 VIS. MUD OUT 10.2/37 VIS 10% LCM. (NO LOSSES) 15'-20' FLARE FROM 8230'. (5-15' CONNECTION FLARE THROUGH OUT) SLIDE 0'. 0% SLIDE 100% ROT. (GAVE 390 BBLs OF MUD TO H&P 311)
7/11/2011	0:00 - 9:00	9.00	DRLPRO	02	D	P		DRILL SLIDE 8585'-8973' (388', 43'/HR) WOB 18-24K AVE WOB 22K, SPM 120, GPM 540, PSI ON/OFF 2500/2050, DIFF 450, MOT RPM 124, ROT 40-50, TOR ON/OFF/UP 14/11/16, PU/SO/ROT 232/170/1194, DRAG 38K. MUD IN 10.3/42 VIS. MUD OUT 10.2/42 VIS 10% LCM. NO FLARE BUT 7 BBL GAIN WITH CONNECTION GAS. SLIDE 56' @20' HR. 14% SLIDE 86% ROT.
	9:00 - 9:30	0.50	DRLPRO	07	A	P		SERVICE RIG, PULL DATA OFF OF COMPUTER TO TROUBLE SHOOT PROBLEM. INPUT DATA LOGGERS INTO COMPUTER.
	9:30 - 21:30	12.00	DRLPRO	02	D	P		DRILL SLIDE 8973'-9460' (487', 41'/HR) WOB 18-25K AVE WOB 23K, SPM 120, GPM 540, PSI ON/OFF 2700/2300, DIFF 400, MOT RPM 124, ROT 40-45, TOR ON/OFF/UP 14/13/15, PU/SO/ROT 244/172/197, DRAG 49K. MUD IN 11.1/42 VIS. MUD OUT 11.2/42 VIS 12% LCM. 5' FLARE UP FROM 9315'. SLIDE 54' @ 18' HR. 6% SLIDE 94% ROT.
	21:30 - 22:00	0.50	MAINT	08	A	Z		RIG REPAIR ON RIG SMART. (FIXING SENSOR ON TOP DRIVE.) (SENSOR FOR BAILS)
	22:00 - 0:00	2.00	DRLPRO	02	D	P		DRILL SLIDE 9460'-9552' (92',46'/HR) WOB 20-25K AVE WOB 24K, SPM 105, GPM 473, PSI ON/OFF 2450/1950, DIFF 500, MOT RPM 108, ROT 40-45, TOR ON/OFF/UP 14/13/15, PU/SO/ROT 250/177/200, DRAG 50K. MUD IN 11.4/42 VIS. MUD OUT 11.3/44 VIS 11% LCM. TAKING 5 BBL GAIN ON CONNECTION THAT MAY BE CAUSED BY CO2 DETERMINED BY INCREASE IN VIS OF 5 POINTS. NO FLARE. SLIDE 0'. 0% SLIDE 100% ROT.

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-22D1BS GREEN	Spud Conductor: 5/14/2011	Spud Date: 5/26/2011
Project: UTAH-UINTAH	Site: NBU 921-15N PAD	Rig Name No: ENSIGN 145/145, CAPSTAR 310/310
Event: DRILLING	Start Date: 5/8/2011	End Date: 7/18/2011
Active Datum: RKB @4,839.00ft (above Mean Sea Level)		UWI: NE/NW/0/9/S/21/E/22/0/0/26/PM/S/357/W/0/2093/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
7/12/2011	0:00 - 6:00	6.00	DRLPRO	02	D	P		DRILL 9552'-9760' (208', 35'/HR) WOB 21-25K AVE WOB 24K, SPM 105, GPM 473, PSI ON/OFF 2550/2100, DIFF 450, MOT RPM 108, ROT 40-45, TOR ON/OFF/UP 12/13/14, PU/SO/ROT 256/186/205, DRAG 51K. MUD IN 11.5/45 VIS. MUD OUT 11.3/49 VIS 11% LCM. SLIDE 0' . 0% SLIDE 100% ROT.
	6:00 - 14:00	8.00	DRLPRO	02	D	P		DRILL SLIDE 9760'-10005' (245', 31'/HR) WOB 21-25K AVE WOB 24K, SPM 105, GPM 473, PSI ON/OFF 2700/2250, DIFF 450, MOT RPM 108, ROT 40-45, TOR ON/OFF/UP 12/14/15, PU/SO/ROT 254/186/207, DRAG 47K. MUD IN 11.8/50 VIS. MUD OUT 11.7/52 VIS 14% LCM. SLIDE 0' . 0% SLIDE 100% ROT.
	14:00 - 14:30	0.50	DRLPRO	07	A	P		RIG SERVICE. SERVICE TOP DRIVE. FUNCTION PIPE RAMS.
	14:30 - 23:00	8.50	DRLPRO	02	D	P		DRILL SLIDE 10005'- 10193' (188', 22'/HR) WOB 21-25K AVE WOB 25K, SPM 105, GPM 473, PSI ON/OFF 2700/2400, DIFF 300, MOT RPM 108, ROT 40-50, TOR ON/OFF/UP 14/13/15, PU/SO/ROT 254/187/209, DRAG 45K. MUD IN 12.1/53 VIS. MUD OUT 12.1/57 VIS 15% LCM. SLIDE 0' . 0% SLIDE 100% ROT. BIT QUIT DRILLING AND STARTED SEEING INCREASES OF TORQUE WITH BIT ON BOTTOM. (BOP DRILL WHILE DRILLING 69 SECONDS)
	23:00 - 0:00	1.00	DRLPRO	06	A	P		TRIP FOR BIT. START ROTATING AND PUMPING DRILLING STRING OUT OF HOLE. PUMPING WITH 270 GPM WHILE PULLING UP. PULL WITH 70 K MAXOVER PULL AND 15 K OF TORQUE. PULLED 7 STD BY MIDNIGHT.
7/13/2011	0:00 - 3:00	3.00	DRLPRO	06	A	P		PUMP AND ROT OUT OF HOLE TO 7100'. 70 K OVER PULL MAX. HOLE TAKING PROPER FLUID. PUMP CELLAR TO MAD TANKS. NO FLOW. MIX 35 BBL 14# DRY JOB WHILE PULLING. PUMP DRY JOB.
	3:00 - 5:00	2.00	DRLPRO	06	A	P		TRIP OUT OF HOLE. TIGHT HOLE 5200'. UNABLE TO WORK THROUGH TIGHT HOLE.
	5:00 - 5:30	0.50	DRLPRO	03	A	P		WASH AND BACK REAM BACK UP THROUGH TIGHT HOLE FROM 5200'-5000'. MIX 35 BBL 13.5# PILL FOR DRY JOB.
	5:30 - 10:30	5.00	DRLPRO	06	A	P		TRIP OUT OF HOLE. PUMP SECOND DRY JOB @ 4700'. NOT TIGHT HOLE ON REST OF TRIP. UNINSTALL ROT HEAD RUBBER. STAND BACK DIRECTIONAL. BREAK BIT. LD SDI .23 MUD MOTOR. FUNCTION BLIND AND PIPE RAMS.
	10:30 - 13:00	2.50	DRLPRO	06	A	P		P/U (SDI HUNTING) 1.5 BH .16 RPG. MOTOR. M/U Q506F (SN 7131527) W/ 6-16'S. M/U DIRECTIONAL TOOLS AND TRIP IN HOLE W/ BHA. INSTALL ROT HEAD RUBBER. TRIP IN HOLE TO SHOE.
	13:00 - 15:00	2.00	DRLPRO	09	A	P		CUT AND SLIP DRILL LINE. 52'. (SHORT CUT)
	15:00 - 22:00	7.00	DRLPRO	06	A	P		TRIP IN HOLE. NO TIGHT HOLE. 40K DRAG ON TRIP IN. BREAK CIRC. 2800', 5000', 7500. WASH DOWN LAST JT. 5' FILL. 15' FLARE ON BOTTOMS UP.
	22:00 - 0:00	2.00	DRLPRO	02	D	P		DRILL 10193'-10264' (71', 36'/HR) WOB 21-23K AVE WOB 22K, SPM 105, GPM 473, PSI ON/OFF 2750/2400, DIFF 350, MOT RPM 75, ROT 40-50, TOR ON/OFF/UP 14/14/17, PU/SO/ROT 263/195/215, DRAG 48K. MUD IN 12.2/48 VIS. MUD OUT 12.2/57 VIS 15% LCM. SLIDE 0' . 0% SLIDE 100% ROT.

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-22D1BS GREEN Spud Conductor: 5/14/2011 Spud Date: 5/26/2011
 Project: UTAH-UINTAH Site: NBU 921-15N PAD Rig Name No: ENSIGN 145/145, CAPSTAR 310/310
 Event: DRILLING Start Date: 5/8/2011 End Date: 7/18/2011
 Active Datum: RKB @4,839.00ft (above Mean Sea Level) UWI: NE/NW/0/9/S/21/E/22/0/0/26/PM/S/357/W/0/2093/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
7/14/2011	0:00 - 5:00	5.00	DRLPRO	02	D	P		DRILL 10264'-10449' (185', 37"/HR) TD 7/14/2011 05:00 WOB 21-23K AVE WOB 22K, SPM 105, GPM 473, PSI ON/OFF 2750/2400, DIFF 350, MOT RPM 75, ROT 40-50, TOR ON/OFF/UP 14/14/17, PU/SO/ROT 266/195/220, DRAG 46K. MUD IN 12.2/48 VIS. MUD OUT 12.2/57 VIS 14% LCM. SLIDE 0' . 0% SLIDE 100% ROT.
	5:00 - 6:00	1.00	EVALPR	05	A	P		CIRC AND CONDION MUD. CIRC BOTTOMS UP. NO SIGNS OF GAS. MUD IN 12.2/53 OUT 12.2/58 15%. MIX 35 BBL 14# PILL FOR DRY JOB.
	6:00 - 14:30	8.50	EVALPR	06	E	P		PUMP AND ROT OUT TO 7400' (MAX OVER PULL OF 60 K). PUMP DRY JOB. TRIP TO SHOE. NO TIGHT HOLE. . HOLE TAKING PROPER FLUID. PUMPED MUD FROM CELLAR TO MUD PITS. BAD LEAK STARTED ON IDM 2 JTS FROM SHOE.
	14:30 - 15:00	0.50	EVALPR	07	A	P		SERVICE RIG. SERVICE TOP DRIVE. INSPECT LEAK ON IDM.
	15:00 - 22:00	7.00	MAINT	08	A	Z		RIG REPIAR. BLOWN HYDRALIC SEAL ON OFF DRILLER EXTENDING RAM ON IDM. CHANGE OUT HYDRALIC RAM. MAKE ADJUSTMENT TO POWER SHOE. BLEED AIR OUT OF HYDRALIC RAM.
	22:00 - 0:00	2.00	EVALPR	06	E	P		TRIP IN HOLE. SLIGHTLY TIGHT HOLE AT 5500' 20K BOBBLE ON WT INDICATOR. TRIPPING IN @ 5600' @ REPORT TIME.
7/15/2011	0:00 - 3:30	3.50	EVALPR	06	A	P		TRIP BACK IN TO BOTTOM . NO TIGHT HOLE ON TRIP IN. NO LOSSES OR GAINS ON TRIP. FILL PIPE 2600', 6000', 8000'.
	3:30 - 5:30	2.00	EVALPR	05	A	P		CIRC AND CONDITION HOLE. 8' FLARE ON BOTTOMS UP. NO LOSSES. MUD WT 12.2 VIS 47 LCM 14%. MUD WT OUT 12.2 VIS 51 LCM 14%. BUIL 14# 35 BBL PILL FOR DRY JOB. CHECK FLOW. NO FLOW.
	5:30 - 10:30	5.00	EVALPR	06	B	P		PUMP AND ROT OUT OF HOLE TO 7600'. 60K MAX PULL. HOLE TAKING PROPER FLUID. NO FLOW ON CHECKS. PUMP DRY JOB.
	10:30 - 16:30	6.00	EVALPR	06	B	P		TRIP OUT OF HOLE. HOLE TAKING PROPER FLUID. NO FLOW ON CHECKS. PULL ROT HEAD RUBBER ON JT BEFORE HWDP. PULL EM TOOLS AND STAND BACK DIRECTIONAL TOOLS. BREAK BIT AND LD MUD MOTOR. MOVE MUD MOTOR OFF OF CAT WALK. RIG CENTER AND LEVEL. CHECKED FOR FLOW OUT OF HOLE AND WELL WAS DEAD. FUNCTION PIPE AND BLIND RAMS.
	16:30 - 22:00	5.50	EVALPR	11	D	P		HOLD SAFETY MEETING W/ HALIBURTON LOGGERS. RIG UP LOGGERS AND P/U TRIPLE COMBO TOOLS. RUN IN HOLE AND BRIDGE OUT @ 8050'. TRY WORKING THROUGH BRIDGE WITH NO SUCCESS. LOG UP FROM 8050'. RIG DOWN LOGGERS.
	22:00 - 0:00	2.00	EVALPR	06	E	P		MAKE UP #2 BIT ON BIT SUB. TRIP IN HOLE FOR WIPER TRIP AND TO LDDS. INSTALL ROT HEAD RUBBER AFTER HWDP. @ 2100' RT.
7/16/2011	0:00 - 4:30	4.50	EVALPR	06	E	P		WIPER RUN IN HOLE. BRIDGE @ 8350'. HOLE DISPLACEING PROPERLY. FILL PIPE 2600', 5700 AND 8000'. NO TIGHT HOLE @ 8050'.
	4:30 - 5:00	0.50	EVALPR	03	E	P		WASH THROUGH BRIDGE @ 8350' AND 8750. WASH THROUGH BRIDGES WITH 427 GPM AND 45 RPM. WOB- 5-15K. POSSIBLY WE WERE PUSHING BRIDGE THAT LOGGERS HIT @ 8050' DOWN HOLE.

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-22D1BS GREEN	Spud Conductor: 5/14/2011	Spud Date: 5/26/2011
Project: UTAH-UINTAH	Site: NBU 921-15N PAD	Rig Name No: ENSIGN 145/145, CAPSTAR 310/310
Event: DRILLING	Start Date: 5/8/2011	End Date: 7/18/2011
Active Datum: RKB @4,839.00ft (above Mean Sea Level)		UWI: NE/NW/0/9/S/21/E/22/0/0/26/PM/S/357/W/0/2093/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	5:00 - 6:30	1.50	EVALPR	06	E	P		FINISH TRIPPING IN HOLE TO 10300'. P/U 3 JTS TO MAKE UP FOR DIRECTIONAL TOOLS AND MUD MOTOR. WASH DOWN TO 10449'. NO FILL ON BOTTOM.
	6:30 - 8:00	1.50	EVALPR	05	A	P		CIRC. BOTTOMS UP. @ 473 GPM. .2 MUD CUT ON BOTTOMS UP W/ NO FLARE. MUD IN 12.2/47 OUT 12.2/ 56 15% LCM.
	8:00 - 12:30	4.50	EVALPR	06	E	P		PUMP AND ROT OUT OF HOLE TO 7500'. SPOT 105 BBLs OF 13.7# MUD AND DISPERSED IN HOLE FROM 8500 TO 7000'. EMW OF 12.6 ON BOTTOM. SPOT HEAVY PILL TO TRY TO HOLD OPEN FORMATIONS FOR LOGS.
	12:30 - 15:30	3.00	EVALPR	06	E	P		TRIP OUT OF HOLE LAYING DOWN DRILL STRING TO 3700'. NO TIGHT HOLE. HOLE TAKING PROPER FLUID. NO FLOW ON CHECKS.
	15:30 - 16:00	0.50	EVALPR	07	A	P		RIG SERVICE. FUNCTION ANNULAR. SERVICE TOP DRIVE AND GREASE CROWN.
	16:00 - 18:00	2.00	EVALPR	06	E	P		TRIP OUT OF HOLE TO 1700'. NO TIGHT HOLE. HOLE TAKING PROPER FLUID. NO FLOW ON CHECKS.
	18:00 - 20:00	2.00	EVALPR	06	E	P		TRIP IN HOLE WITH 33 STD OUT OF DERRICK TO 4700'. HOLE DISPLACING PROPERLY.
	20:00 - 0:00	4.00	EVALPR	06	E	P		TRIP OUT LAYING DOWN DRILL STRING. HOLE TAKING PROPER FLUID TO FILL. NO FLOW ON CHECKS. PULL ROT HEAD RUBBER AT HWDP. START LAYING DOWN HWDP.
7/17/2011	0:00 - 2:30	2.50	EVALPR	06	E	P		LAY DOWN HWDP. BREAK BIT SUB AND BIT. RUN IN HOLE WITH DIRECTIONAL TOOLS AND BREAK DOWN DIRECTIONAL TOOLS. NO FLOW ON CHECKS. FUNCTION PIPE RAMS AND BLIND RAMS. HELD SAFETY MEETING BEFORE BREAKING DIRECTIONAL TOOLS. PULL WEAR BUSHING.
	2:30 - 7:30	5.00	EVALPR	11	D	P		HOLD SAFETY MEETING W/ HALLIBURTON LOGGERS. RIG UP LOGGERS. RUN IN HOLE WITH TRIPLE COMBO LOGGING TOOLS. LOG FROM 10434' TO 7940'. MERGE RUN #2 WITH RUN #1 @ 7940'. LAYDOWN LOGGING TOOLS AND RIG DOWN LOGGERS.
	7:30 - 8:00	0.50	CSG	12	A	P		HOLD SAFETY MEETING WITH KIMZEY CSG. RIG UP CSG CREW TO RUN 4.5" CSG.
	8:00 - 18:00	10.00	CSG	12	C	P		PICK UP P-110 SHOE JT, MAKE UP OPEN FLOAT SHOE AND OPEN FLOAT COLLAR WITH THREAD LOCK. RUN IN HOLE W/ 14 JTS OF 4.5", P-110, 11.6# BTC CSG FOR TOTAL OF 663'. RUN 231 JTS OF 4.5" I-80 11.6# BTC CSG. (246 JTS TOTAL). RAN 15 CENTRALIZERS FIRST 3 JTS THEN EVERY THIRD JT TILL GONE. INSTALL ROT HEAD RUBBER AFTER CENTRALIZER WERE INSTALLED. SET BOTTOM FLOAT SHOE 10438'KB. SET TOP OF FLOAT COLLAR 10390'KB. SET TOP OF MESA VERDE MARKER JTS @ 8191' KB. SET TOP OF WASATCH MARKER JT @ 5221' KB. (PIPE STOPPED AUTO FILLING @ 3800') BREAK CIRC. 4000' AND 7600'. RIG UP BJ CEMENT HEAD.
	18:00 - 19:00	1.00	CSG	05	D	P		CIRC BOTTOMS UP GAS. NO FLARE ON BOTTOMS UP. GOOD CIRC. RIG DOWN CSG CREW. RIG UP CEMENTERS. HOLD SAFETY MEETING WITH CEMENTERS. COVER JOB SPECIFICS OF CEMENTING.

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-22D1BS GREEN	Spud Conductor: 5/14/2011	Spud Date: 5/26/2011
Project: UTAH-UINTAH	Site: NBU 921-15N PAD	Rig Name No: ENSIGN 145/145, CAPSTAR 310/310
Event: DRILLING	Start Date: 5/8/2011	End Date: 7/18/2011
Active Datum: RKB @4,839.00ft (above Mean Sea Level)		UWI: NE/NW/0/9/S/21/E/22/0/0/26/PM/S/357/N/0/2093/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	19:00 - 21:30	2.50	CSG	12	E	P		PRESSURE TEST TO 4500 PSI. PUMP 5 BBLs FRESH WATER AHEAD. PUMP 10 BBLs (20 SX) 11.3 PPG 2.83 YD 16.74 GAL/SK SCAVENGER CEMENT. PUMP 230 BBLs (609 SX) OF 12.3 PPG 2.12 YD 11.38 GAL/SK LEAD CEMENT. PUMP 283. BBLs (1216 SX) OF 14.3# 1.31 YD 5.41 GAL/SK. POZ 50/50 TAIL CEMENT. SHUT DOWN FLUSH LINES. DROP TOP PLUG AND DISPLACE W/ 161 BBLs OF FRESH WATER TREATED W/ CLAYCARE AND MAGNACIDE. CIRC THROUGH OUT. LOSS CIRC. 130 BBLs INTO DISPLACEMENT LIFT PSI OF 2860 @ 3 BBLs MIN. BUMP PLUG 3450 PSI. . PRESSURE HELD 5 MINS. FLOAT HELD. FLOW BACK 2 BBLs. EST. TOC FOR LEAD 240', EST TOC FOR TAIL 4746'. RIG DOWN CEMENTERS. FLUSH STACK WITH RESERVE PIT WATER.
	21:30 - 0:00	2.50	CSG	14	A	P		PULL ROT HEAD RUBBER, SET C-22 SLIPS THROUGH STACK W/ 110,000. P/U STACK AND CUT OFF CSG. CLEAN PITS.
7/18/2011	0:00 - 2:00	2.00	RDMO	14	A	P		CLEAN PITS AND RELEASE RIG 7/18/2011 02:00.

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-22D1BS GREEN		Spud Conductor: 5/14/2011	Spud Date: 5/26/2011
Project: UTAH-UJINTAH		Site: NBU 921-15N PAD	Rig Name No: ENSIGN 145/145, CAPSTAR 310/310
Event: DRILLING		Start Date: 5/8/2011	End Date: 7/18/2011
Active Datum: RKB @4,839.00ft (above Mean Sea Level)		UWI: NE/NW/0/9/S/21/E/22/0/0/26/PM/S/357/W/0/2093/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	2:00 - 2:00	0.00	RDMO					<p>CONDUCTOR CASING: Cond. Depth set: 40 Cement sx used: 28</p> <p>SPUD DATE/TIME: 5/26/2011 14:30</p> <p>SURFACE HOLE: Surface From depth: 40 Surface To depth: 2,650 Total SURFACE hours: 29.50 Surface Casing size: 9-5/8" # of casing joints ran: Casing set MD: 2,624.0 # sx of cement: 200/225/100 Cement blend (ppg): 11/15.8/15/8 Cement yield (ft3/sk): 3.82/1.15/1.15 # of bbls to surface: 35 Describe cement issues: NONE Describe hole issues: NONE</p> <p>PRODUCTION: Rig Move/Skid start date/time: 7/5/2011 18:30 Rig Move/Skid finish date/time: 7/6/2011 1:00 Total MOVE hours: 6.5 Prod Rig Spud date/time: 7/6/2011 19:30 Rig Release date/time: 7/18/2011 2:00 Total SPUD to RR hours:270.5 Planned depth MD 10,408 Planned depth TVD 10,013 Actual MD: 10,449 Actual TVD: 10,198 Open Wells \$: AFE \$: Open wells \$/ft:</p> <p>PRODUCTION HOLE: Prod. From depth: 2,624 Prod. To depth: 10,449 Total PROD hours: 116 Log Depth: 1ST RUN 8050, 2ND RUN 10433' Production Casing size: 4.5 P110 & 4.5 I-80 # of casing joints ran: 15 JTS OF P-110, 231 JTS OF I-80 Casing set MD: 10,438.0 # sx of cement: 1,845 Cement blend (ppg): SCAV 11.3 LEAD 12.3, TAIL 14.3 Cement yield (ft3/sk): SCAV 2.83 LEAD 1.2.12, TAIL 1.31 Est. TOC (Lead & Tail) or 2 Stage : SCAV 240 LEAD 350', TAIL 4746' Describe cement issues: FULL CIRC TILL 30 BBLS INTO DISPLACEMENT Describe hole issues: HARD FORMATIONS 2 BITS</p> <p>DIRECTIONAL INFO: KOP: 128 Max angle: 464.00 Departure: 1404.97 Max dogleg MD: 4607 3.57</p>

1 General

1.1 Customer Information

Company	US ROCKIES REGION
Representative	
Address	

1.2 Well Information

Well	NBU 921-22D1BS GREEN		
Common Name	NBU 921-22D1BS		
Well Name	NBU 921-22D1BS	Wellbore No.	OH
Report No.	1	Report Date	8/15/2011
Project	UTAH-UINTAH	Site	NBU 921-15N PAD
Rig Name/No.		Event	COMPLETION
Start Date	8/15/2011	End Date	
Spud Date	5/26/2011	Active Datum	RKB @4,839.00ft (above Mean Sea Level)
UWI	NE/NW/0/9/S/21/E/22/0/0/26/PM/S/357/N/0/2093/0/0		

1.3 General

Contractor	CUTTERS WIRELINE	Job Method	PERFORATE	Supervisor	KENNY WARREN
Perforated Assembly	PRODUCTION CASING	Conveyed Method	WIRELINE		

1.4 Initial Conditions

Fluid Type		Fluid Density		Gross Interval	8,200.0 (ft)-10,119.0 (ft)	Start Date/Time	8/15/2011 12:00AM
Surface Press		Estimate Res Press		No. of Intervals	22	End Date/Time	8/15/2011 12:00AM
TVD Fluid Top		Fluid Head		Total Shots	166	Net Perforation Interval	43.00 (ft)
Hydrostatic Press		Press Difference		Avg Shot Density	3.86 (shot/ft)	Final Surface Pressure	
Balance Cond	NEUTRAL					Final Press Date	

1.5 Summary

2 Intervals

2.1 Perforated Interval

Date	Formation/Reservoir	CCL@ (ft)	CCL-T S (ft)	MD Top (ft)	MD Base (ft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diameter (in)	Carr Type /Carr Manuf	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
12:00AM	MESAVERDE/			8,200.0	8,206.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO	
														N	

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (ft)	CCL-T S (ft)	MD Top (ft)	MD Base (ft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diamete r (in)	Carr Type /Carr Manuf	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
12:00	AMMESAVERDE/			8,350.0	8,352.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00	AMMESAVERDE/			8,372.0	8,374.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00	AMMESAVERDE/			8,500.0	8,502.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00	AMMESAVERDE/			8,614.0	8,615.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00	AMMESAVERDE/			8,708.0	8,710.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00	AMMESAVERDE/			8,776.0	8,777.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00	AMMESAVERDE/			8,819.0	8,820.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00	AMMESAVERDE/			8,834.0	8,835.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00	AMMESAVERDE/			9,110.0	9,112.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00	AMMESAVERDE/			9,132.0	9,134.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00	AMMESAVERDE/			9,300.0	9,302.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00	AMMESAVERDE/			9,382.0	9,384.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00	AMMESAVERDE/			9,460.0	9,462.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00	AMMESAVERDE/			9,500.0	9,502.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00	AMMESAVERDE/			9,568.0	9,569.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00	AMMESAVERDE/			9,616.0	9,618.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00	AMMESAVERDE/			9,722.0	9,724.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00	AMMESAVERDE/			9,774.0	9,776.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00	AMMESAVERDE/			9,930.0	9,932.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00	AMMESAVERDE/			10,024.0	10,027.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00	AMMESAVERDE/			10,118.0	10,119.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 921-22D1BS GREEN		Spud Conductor: 5/14/2011	Spud Date: 5/26/2011
Project: UTAH-UINTAH		Site: NBU 921-15N PAD	Rig Name No:
Event: COMPLETION		Start Date: 8/15/2011	End Date:
Active Datum: RKB @4,839.00ft (above Mean Sea Level)		UWI: NE/NW/0/9/S/21/E/22/0/0/26/PM/S/357/N/0/2093/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
8/11/2011	7:00 - 13:00	6.00	COMP	33	D	P		FILL SURFACE CSG. MIRU B&C QUICK TEST. PSI TEST T/ 1000 PSI. HELD FOR 15 MIN LOST 12 PSI. PSI TEST T/ 3500 PSI. HELD FOR 15 MIN LOST 25 PSI. 1ST PSI TEST T/ 7000 PSI. HELD FOR 30 MIN LOST 75 PSI. BLEED OFF PSI. MOVE T/ NEXT WELL. SWIF
8/12/2011	7:00 - 13:00	6.00	COMP	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 SWIFW

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-22D1BS GREEN		Spud Conductor: 5/14/2011		Spud Date: 5/26/2011	
Project: UTAH-UINTAH		Site: NBU 921-15N PAD		Rig Name No:	
Event: COMPLETION		Start Date: 8/15/2011		End Date:	
Active Datum: RKB @4,839.00ft (above Mean Sea Level)		UWI: NE/NW/0/9/S/21/E/22/0/0/26/PM/S/357/W/0/2093/0/0			

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
8/15/2011	7:00 - 18:00	11.00	COMP	36	B	P		<p>FRAC STG 1)WHP 1789 PSI, BRK 3742 PSI @ 4.6 BPM. ISIP 2972 PSI, FG .74 PUMP 100 BBLS @ 40.7 BPM @ 6071 PSI = 69% HOLES OPEN. ISIP 3188 PSI, FG .76, NPI 216 PSI. MP 6542 PSI, MR 50.5 BPM, AP 6071 PSI, AR 47.4 BPM, PMP 968 BBLS SW & 14,852 LBS OF 30/50 SND & NO RESIN SND. TOTAL PROP 14,852 LBS X-OVER TO W L</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 @ 9826' P/U PERF AS PER PERF DESIGN. POOH.X-OVER FOR FRAC CREW</p> <p>FRAC STG 2)WHP 945 PSI, BRK 3485 PSI @ 4.6 BPM. ISIP 3097 PSI, FG .76 PUMP 100 BBLS @ 50.4 BPM @ 6132 PSI = 100% HOLES OPEN. ISIP 2937 PSI, FG .74, NPI -160 PSI. MP 6364 PSI, MR 50.7 BPM, AP 5548 PSI, AR 50.8 BPM, PMP 1089 BBLS SW & 21,955 LBS OF 30/50 SND & NO RESIN SND. TOTAL PROP 21,955 LBS X-OVER FOR W L</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 @ 9632' P/U PERF AS PER PERF DESIGN. POOH.X-OVER FOR FRAC CREW</p> <p>FRAC STG 3)WHP 910 PSI, BRK 4432 PSI @ 4.8 BPM. ISIP 3701 PSI, FG .83 PUMP 100 BBLS @ 48.4 BPM @ 6214 PSI = 100% HOLES OPEN. ISIP 2883 PSI, FG .74, NPI -818 PSI. MP 6595 PSI, MR 50.8 BPM, AP 6183 PSI, AR 43.4 BPM, PMP 875 BBLS SW & 17,155 LBS OF 30/50 SND & NO RESIN SND. TOTAL PROP 17,155 LBS X-OVER FOR W L</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 DOWN @ 8040 WORKED UP TO 7838 WOULDNT, T COME FREE SET CBP @ 7838 GUNS FREE POOH LD PERF GUNS SWI</p>
8/16/2011	7:00 - 18:00	11.00	COMP	36	B	P		WAITING ON RIG TO DRILL OUT CBP AND CONTINUE FRACING
8/17/2011	6:45 - 7:00	0.25	COMP	48		P		HSM, PINCH POINTS
	7:00 - 19:30	12.50	COMP	44	C	P		ROAD RIG TO LOC, MIRU, SPOT EQUIP. N/D WELL HEAD, N/U BOPS, R/U TBG EQUIP, P/U BIT, BIT SUB W/ FLOAT, TALLEY & P/U 247 JNTS 2-3/8 L-80 TBG, TAG @ 7,869', HOOK UP PUMP LINES, PRESSURE TEST BOPS TO 2,500#, P/U PWR SWVL, BRK CIRC W/ RIG PUMP, DRL THROUGH CBP IN 5 MIN. W/ 1,500# KICK, HANG PWR SWVL BACK CONT TO RIH TAG @=9,524', BELOW PERF, L/D 15 JNT ON FLOAT, EOT @=9,052', TURN WELL OVER TO FLOW BACK CREW.
8/18/2011	6:45 - 7:00	0.25	COMP	48		P		HSM, PINCH POINTS

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-22D1BS GREEN		Spud Conductor: 5/14/2011		Spud Date: 5/26/2011	
Project: UTAH-UINTAH		Site: NBU 921-15N PAD		Rig Name No:	
Event: COMPLETION		Start Date: 8/15/2011		End Date:	
Active Datum: RKB @4,839.00ft (above Mean Sea Level)		UWI: NE/NW/0/9/S/21/E/22/0/0/26/PM/S/357/W/0/2093/0/0			

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	7:00 - 14:00	7.00	COMP	31	D	P		CSG FLOWING W/ 25#, TBG 0#, R/D PWR SWVL, POOH LAYING DOWN 2-3/8 TBG, POOH W/ 3-7/8 BIT, WELL CAME AROUND, R/U CASED HOLE SOLUTIONS, P/U RIH W/ HALIBURTON 8K CBP, SET @=9,340' BLEED WELL OFF, POOH R/D WIRE LINE, R/D TBG EQUIP, N/D BOP, N/U FRAC VALVE, RDMO.
8/19/2011	-		COMP					
	10:00 - 12:00	2.00	COMP	37		P		RU CASED HOLE SOLUTIONS PERF STG 4)PU 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH PERF AS PER PERF DESIGN. POOH.WAIT ON FRAC CREW TO GET RU
8/20/2011	6:45 - 7:00	0.25	COMP	48		P		HELD SAFETY : MEETING HIGH PRESSURE AND SMALL LOCTIONS

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-22D1BS GREEN		Spud Conductor: 5/14/2011		Spud Date: 5/26/2011	
Project: UTAH-UINTAH		Site: NBU 921-15N PAD		Rig Name No:	
Event: COMPLETION		Start Date: 8/15/2011		End Date:	
Active Datum: RKB @4,839.00ft (above Mean Sea Level)		UWI: NE/NW/0/9/S/21/E/22/0/0/26/PM/S/357/W/0/2093/0/0			

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	7:00 - 18:00	11.00	COMP	36	B	P		<p>FRAC STG 4)WHP 1423 PSI, BRK 4120 PSI @ 6.5 BPM. ISIP 3786 PSI, FG .85 CALC HOLES OPEN @ 35.1 BPM @ 5966 PSI = 72% HOLES OPEN. ISIP 2910 PSI, FG .75, NPI -876 PSI. MP 6315 PSI, MR 52.2 BPM, AP 5043 PSI, AR 45.2 BPM, PMP 945 BBLS SW & 17,634 LBS OF 30/50 SND. TOTAL PROP 17,634 LBS X-OVER FOR W L</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 @ 8880' P/U PERF AS PER PERF DESIGN. POOH. X-OVER FOR FRAC CREW</p> <p>FRAC STG 5)WHP 788 PSI, BRK 3932 PSI @ 4.8 BPM. ISIP 3102PSI, FG .79 CALC HOLES OPEN @ 43.7 BPM @ 5568 PSI = 89% HOLES OPEN. ISIP 3104 PSI, FG .79, NPI 2 PSI. MP 6487 PSI, MR 52.2 BPM, AP 5993 PSI, AR 49.3 BPM, PMP 634 BBLS SW & 10,976 LBS OF 30/50 SND TOTAL PROP 10,976 LBS X-OVER FOR W L</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 @ 8545' P/U PERF AS PER PERF DESIGN. POOH.X-OVER FOR FRAC CREW</p> <p>FRAC STG 6)WHP 525 PSI, BRK 3538 PSI @ 4.6 BPM. ISIP 1804 PSI, FG .65 CALC HOLES OPEN @ 47.8 BPM @ 5029 PSI = 77% HOLES OPEN. ISIP 2477 PSI, FG .73 NPI 673 PSI. MP 6024 PSI, MR 52.9 BPM, AP 5354 PSI, AR 52.3 BPM, PMP 759 BBLS SW & 14,136 LBS OF 30/50 SND.TOTAL PROP 14,136 LBS X-OVER FOR W L</p> <p>PERF STG 7)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 8256' P/U PERF AS PER PERF DESIGN. POOH.X-OVER FOR FRAC CREW</p> <p>FRAC STG 7)WHP 668 PSI, BRK 3030 PSI @ 4.4 BPM. ISIP 2155 PSI, FG .70 CALC HOLES OPEN @ 52.4 BPM @ 5131 PSI = 98% HOLES OPEN. ISIP 2864 PSI, FG .79, NPI 709 PSI. MP 6357 PSI, MR 52.6 BPM, AP 5818 PSI, AR 50.6 BPM, PMP 1958 BBLS SW & 83,663 LBS OF 30/50 SND TOTAL PROP 83,663 LBS X-OVER FOR W L</p> <p>PU HAL8K CBP RIH SET KILLPLUG @ 8167 POOH SWI RD CASED HOLE & SUPERIOR MOVED OVER TO RED WELL 921-22C4BS</p> <p>TOTAL SAND = 180,371 #</p>

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-22D1BS GREEN		Spud Conductor: 5/14/2011		Spud Date: 5/26/2011	
Project: UTAH-UINTAH		Site: NBU 921-15N PAD		Rig Name No:	
Event: COMPLETION		Start Date: 8/15/2011		End Date:	
Active Datum: RKB @4,839.00ft (above Mean Sea Level)		UWI: NE/NW/0/9/S/21/E/22/0/0/26/PM/S/357/W/0/2093/0/0			

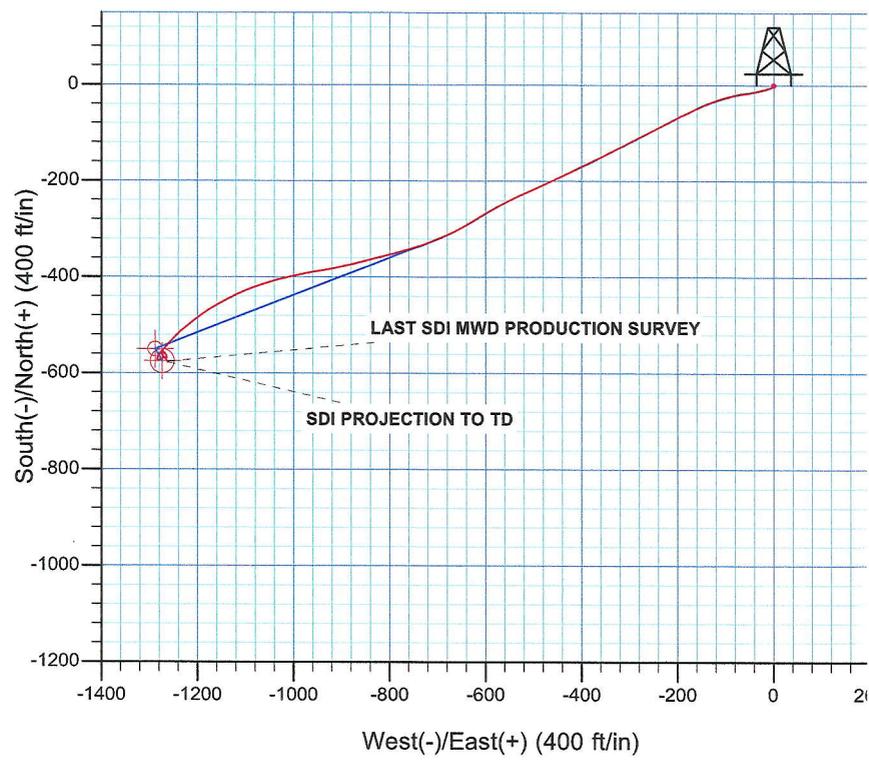
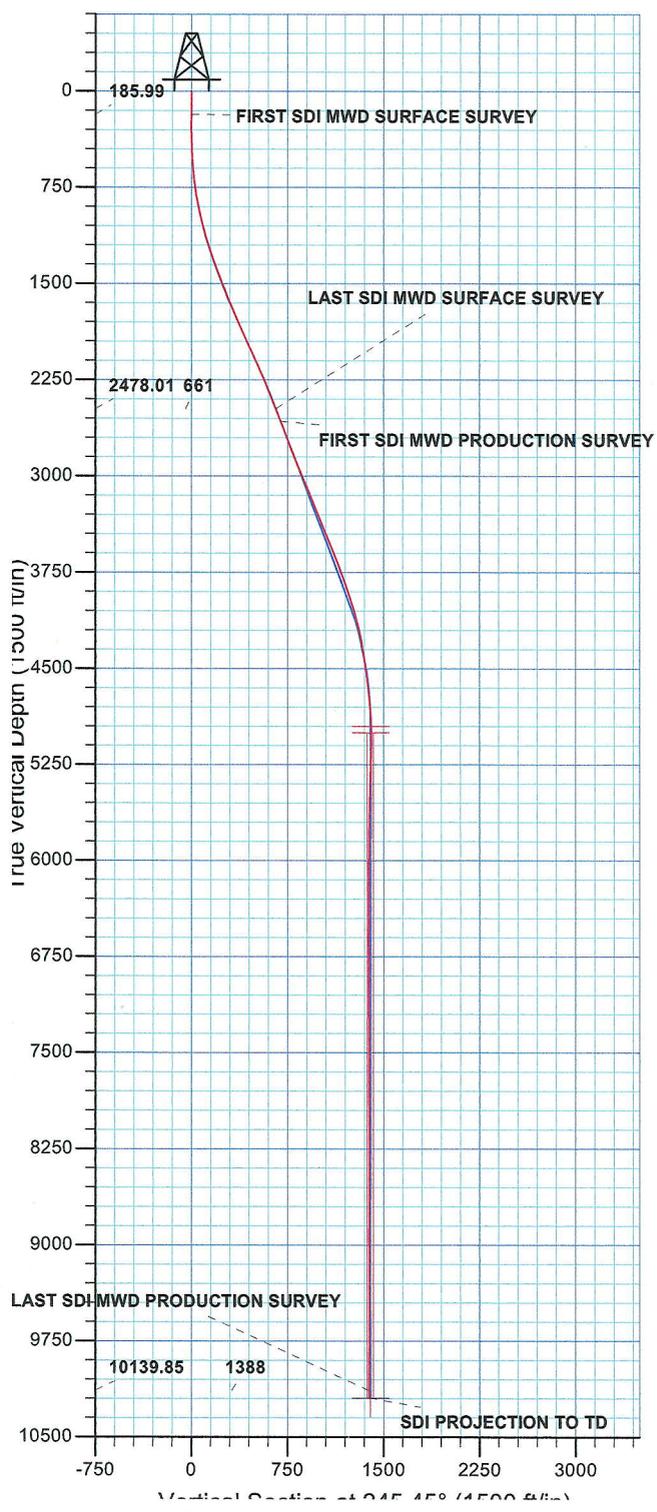
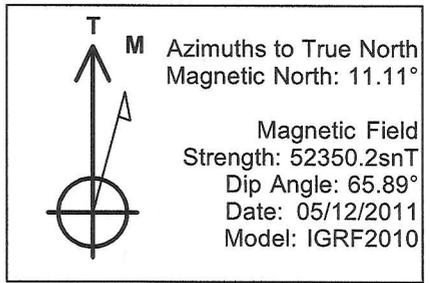
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
								TOTAL TOTAL CLFL = 7228 BBLS TOTAL SCALE = 394 GAL TOTAL BIO = 87 GAL HSM, PICKING UP TBG.
8/30/2011	7:00 - 7:15	0.25	COMP	48		P		PU TBG, REMOVE PROTECTORS, TALLY & DRIFT, RU POWER SWIVEL, INSTAL STRIPPING RUBBER, FILL TBG BREAK CIRC, PRESS TEST BOPS TO 3,000 PSI FOR 15 MIN 0 PSI LOSS, SURFACE CSG VALVE OPEN & LOCKED, START DRLG PLUGS. C/O 16' SAND, TAG 1ST PLUG @ 8,150' DRL PLUG IN 7 MIN. 800 PSI INCREASE RIH, CSG PRESS 100 PSI. C/O 20' SAND, TAG 2ND PLUG @ 8,256' DRL PLUG IN 10 MIN. 400 PSI INCREASE RIH, CSG PRESS 300 PSI. C/O 20' SAND, TAG 3RD PLUG @ 8,552' DRL PLUG IN 10 MIN. 300 PSI INCREASE RIH, CSG PRESS 350 PSI. C/O 25' SAND, TAG 4TH PLUG @ 8,885' DRL PLUG IN 11 MIN. 500 PSI INCREASE RIH, CSG PRESS 350 PSI. LET WELL CLEAN UP FOR 30 MIN, SWI, SDFN, D/O REMAINING PLUGS IN THE AM. HSM, DRILL OUT PLUGS, RD,RU SLIP, TRIP,& FALLS
	7:15 - 17:00	9.75	COMP	44	C	P		
8/31/2011	7:00 - 7:15	0.25	COMP	48		P		

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-22D1BS GREEN		Spud Conductor: 5/14/2011	Spud Date: 5/26/2011
Project: UTAH-UINTAH		Site: NBU 921-15N PAD	Rig Name No:
Event: COMPLETION		Start Date: 8/15/2011	End Date:
Active Datum: RKB @4,839.00ft (above Mean Sea Level)		UWI: NE/NW/0/9/S/21/E/22/0/0/26/PM/S/357/N/0/2093/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	7:15 - 14:00	6.75	COMP	44	C	P		<p>SICP 2,600 PSI, OPEN WELL BLEED DOWN PRESS, OPEN RAMS, D/O REMAINING PLUGS, SURFACE VALVE OPEN & LOCKED.</p> <p>C/O 20' SAND, TAG 5TH PLUG @ 9,332' DRL PLUG IN 9 MIN. 0 PSI INCREASE RIH, CSG PRESS 150 PSI.</p> <p>C/O 15' SAND, TAG 6TH PLUG @ 9,532' DRL PLUG IN 8 MIN. 500 PSI INCREASE RIH, CSG PRESS 300 PSI.</p> <p>C/O 20' SAND, TAG 7TH PLUG @ 9,826' DRL PLUG IN 7 MIN. 900 PSI INCREASE RIH, CSG PRESS 450 PSI.</p> <p>PBTD @ 10,240', BTM PERF @ 10,119', RIH TAG 0 FILL W/ 323 JTS 2 3/8" L-80 TBG, LD 21 JTS, PU & STRIP IN TBG HANGER & LAND TBG W/ 302 JTS 2 3/8" L-80, EOT 9,535'.</p> <p>RD PWR SWIVEL, FLOOR & TBG EQUIP, ND BOPS, NU WH, DROP BALL TO SHEAR OFF BIT W/ 2800 PSI, LET BIT FALL FOR 20 MIN.</p> <p>TURN OVER TO FLOW BACK CREW, RD & MOVE TO NBU 921-35 P PAD FOR D/O.</p> <p>KB-----13' TBG HGR-----,83 #JTS TBG-----302 / 9,535' POBS-----2.20 EOT@-----9,551.03'</p>
9/1/2011	7:00 -			33	A			<p>7 AM FLBK REPORT: CP 3025#, TP 1875#, 20/64" CK, 43 BWPH, LIGHT SAND, 1999 GAS TTL BBLs RECOVERED: 2011 BBLs LEFT TO RECOVER: 2285</p>
9/2/2011	7:00 -			33	A			<p>7 AM FLBK REPORT: CP 2625#, TP 1700#, 20/64" CK, 28 BWPH, LIGHT SAND, 2178 GAS TTL BBLs RECOVERED: 2843 BBLs LEFT TO RECOVER: 1453</p>
9/3/2011	7:00 -			33	A			<p>7 AM FLBK REPORT: CP 2375#, TP 1500#, 20/64" CK, 19 BWPH, LIGHT SAND, 2153 GAS TTL BBLs RECOVERED: 3413 BBLs LEFT TO RECOVER: 883</p>
9/4/2011	7:00 -			33	A			<p>7 AM FLBK REPORT: CP 2200#, TP 1375#, 20/64" CK, 15 BWPH, LIGHT SAND, 2096 GAS TTL BBLs RECOVERED: 3827 BBLs LEFT TO RECOVER: 469</p>

WELL DETAILS: NBU 921-22D1BS					
GL 4827' & KB 14' @ 4841.00ft (ENSIGN 145)					
+N/-S 0.00	+E/-W 0.00	Northing 14540262.72	Easting 2049371.15	Latitude 40° 1' 47.413 N	Longitude 109° 32' 20.918 W



PROJECT DETAILS: Uintah County, UT UTM12
Geodetic System: Universal Transverse Mercator (US Survey Feet)
Datum: NAD 1927 - Western US
Ellipsoid: Clarke 1866
Zone: Zone 12N (114 W to 108 W)
Location: SECTION 22 T9S R21E
System Datum: Mean Sea Level



Scientific Drilling
Rocky Mountain Operations

Kerr McGee Oil and Gas Onshore LP

**Uintah County, UT UTM12
NBU 921-15N Pad
NBU 921-22D1BS**

OH

Design: OH

Standard Survey Report

01 August, 2011

Company:	Kerr McGee Oil and Gas Onshore LP	Local Co-ordinate Reference:	Well NBU 921-22D1BS
Project:	Uintah County, UT UTM12	TVD Reference:	GL 4827' & KB 14' @ 4841.00ft (ENSIGN 145)
Site:	NBU 921-15N Pad	MD Reference:	GL 4827' & KB 14' @ 4841.00ft (ENSIGN 145)
Well:	NBU 921-22D1BS	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM5000-RobertS-Local

Project	Uintah County, UT UTM12		
Map System:	Universal Transverse Mercator (US Survey Feet)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 - Western US		
Map Zone:	Zone 12N (114 W to 108 W)		

Site	NBU 921-15N Pad, SECTION 22 T9S R21E				
Site Position:	Northing:	14,540,265.88 usft	Latitude:	40° 1' 47.435 N	
From:	Lat/Long	Easting:	2,049,430.74 usft	Longitude:	109° 32' 20.152 W
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence:	0.94 °

Well	NBU 921-22D1BS, 357 FSL 2093 FWL					
Well Position	+N/-S	0.00 ft	Northing:	14,540,262.72 usft	Latitude:	40° 1' 47.413 N
	+E/-W	0.00 ft	Easting:	2,049,371.15 usft	Longitude:	109° 32' 20.918 W
Position Uncertainty	0.00 ft	Wellhead Elevation:	ft	Ground Level:	4,827.00 ft	

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	05/12/11	11.11	65.89	52,350

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	245.45	

Survey Program	Date	08/01/11			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
5.00	2,598.00	Survey #1 SDI MWD SURFACE (OH)	MWD SDI	MWD - Standard ver 1.0.1	
2,705.00	10,449.00	Survey #2 SDI MWD 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	
5.00	0.00	0.00	5.00	0.00	0.00	0.00	0.00	0.00	0.00	
186.00	0.79	101.46	185.99	-0.25	1.22	-1.01	0.44	0.44	0.00	
FIRST SDI MWD SURFACE SURVEY										
277.00	0.26	111.74	276.99	-0.45	2.03	-1.66	0.59	-0.58	11.30	
370.00	1.06	232.59	369.99	-1.05	1.54	-0.97	1.31	0.86	129.95	
465.00	2.81	245.16	464.93	-2.56	-1.27	2.22	1.88	1.84	13.23	
560.00	4.48	246.48	559.73	-5.02	-6.78	8.26	1.76	1.76	1.39	
656.00	6.24	253.33	655.31	-8.01	-15.22	17.18	1.95	1.83	7.14	
751.00	8.09	256.67	749.56	-11.04	-26.67	28.85	2.00	1.95	3.52	

Company: Kerr McGee Oil and Gas Onshore LP
Project: Uintah County, UT UTM12
Site: NBU 921-15N Pad
Well: NBU 921-22D1BS
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well NBU 921-22D1BS
TVD Reference: GL 4827' & KB 14' @ 4841.00ft (ENSIGN 145)
MD Reference: GL 4827' & KB 14' @ 4841.00ft (ENSIGN 145)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM5000-RobertS-Local

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)
846.00	10.46	259.93	843.32	-14.09	-41.67	43.76	2.55	2.49	3.43
941.00	12.57	261.51	936.40	-17.12	-60.39	62.04	2.25	2.22	1.66
1,035.00	14.60	257.64	1,027.77	-21.17	-82.08	83.45	2.37	2.16	-4.12
1,131.00	16.00	252.28	1,120.37	-27.78	-106.50	108.42	2.07	1.46	-5.58
1,226.00	18.03	248.68	1,211.21	-37.12	-132.67	136.10	2.41	2.14	-3.79
1,321.00	19.26	244.72	1,301.22	-49.15	-160.54	166.45	1.86	1.29	-4.17
1,417.00	20.49	243.58	1,391.50	-63.39	-189.91	199.08	1.34	1.28	-1.19
1,512.00	21.28	242.17	1,480.26	-78.84	-220.04	232.91	0.99	0.83	-1.48
1,608.00	21.37	243.05	1,569.69	-94.90	-251.04	267.77	0.35	0.09	0.92
1,702.00	21.98	243.58	1,657.04	-110.49	-282.06	302.47	0.68	0.65	0.56
1,797.00	23.39	242.52	1,744.69	-127.10	-314.71	339.07	1.55	1.48	-1.12
1,891.00	24.71	242.79	1,830.53	-144.69	-348.74	377.33	1.41	1.40	0.29
1,986.00	24.01	244.72	1,917.07	-162.03	-383.88	416.49	1.12	-0.74	2.03
2,081.00	24.71	243.49	2,003.61	-179.14	-419.12	455.67	0.91	0.74	-1.29
2,177.00	24.01	245.16	2,091.07	-196.31	-454.80	495.25	1.02	-0.73	1.74
2,272.00	25.41	245.42	2,177.37	-212.90	-490.88	534.96	1.48	1.47	0.27
2,367.00	23.21	245.25	2,263.94	-229.22	-526.42	574.07	2.32	-2.32	-0.18
2,460.00	22.16	242.17	2,349.74	-245.08	-558.57	609.91	1.70	-1.13	-3.31
2,555.00	21.54	240.85	2,437.92	-261.94	-589.65	645.18	0.83	-0.65	-1.39
2,598.00	20.84	239.10	2,478.01	-269.72	-603.11	660.65	2.19	-1.63	-4.07
LAST SDI MWD SURFACE SURVEY									
2,705.00	20.40	239.08	2,578.16	-289.07	-635.44	698.10	0.41	-0.41	-0.02
FIRST SDI MWD PRODUCTION SURVEY									
2,795.00	20.89	242.64	2,662.38	-304.51	-663.15	729.72	1.50	0.54	3.96
2,886.00	21.39	248.83	2,747.27	-317.96	-693.03	762.49	2.51	0.55	6.80
2,977.00	22.03	248.88	2,831.81	-330.10	-724.43	796.09	0.70	0.70	0.05
3,067.00	22.54	253.44	2,915.10	-341.10	-756.71	830.03	2.00	0.57	5.07
3,158.00	22.27	254.12	2,999.23	-350.79	-790.01	864.34	0.41	-0.30	0.75
3,249.00	23.34	256.49	3,083.11	-359.72	-824.13	899.09	1.55	1.18	2.60
3,339.00	22.38	255.65	3,166.04	-368.13	-858.06	933.45	1.13	-1.07	-0.93
3,430.00	21.89	255.83	3,250.34	-376.58	-891.30	967.18	0.54	-0.54	0.20
3,520.00	23.21	260.54	3,333.46	-383.60	-925.06	1,000.81	2.48	1.47	5.23
3,611.00	23.04	260.88	3,417.15	-389.37	-960.33	1,035.29	0.24	-0.19	0.37
3,701.00	22.47	257.03	3,500.15	-396.02	-994.48	1,069.12	1.77	-0.63	-4.28
3,792.00	22.60	256.13	3,584.20	-404.12	-1,028.40	1,103.34	0.41	0.14	-0.99
3,883.00	21.65	250.60	3,668.51	-413.89	-1,061.22	1,137.25	2.51	-1.04	-6.08
3,973.00	19.93	248.46	3,752.65	-425.03	-1,091.15	1,169.10	2.09	-1.91	-2.38
4,064.00	19.87	244.44	3,838.22	-437.40	-1,119.53	1,200.05	1.50	-0.07	-4.42
4,154.00	18.46	240.78	3,923.23	-450.96	-1,145.76	1,229.55	2.06	-1.57	-4.07
4,245.00	16.97	239.34	4,009.91	-464.76	-1,169.76	1,257.12	1.71	-1.64	-1.58
4,336.00	15.39	234.77	4,097.31	-478.50	-1,191.05	1,282.19	2.23	-1.74	-5.02
4,426.00	13.45	230.38	4,184.47	-492.07	-1,208.87	1,304.04	2.47	-2.16	-4.88
4,517.00	13.37	233.01	4,272.99	-505.15	-1,225.43	1,324.53	0.68	-0.09	2.89

Company: Kerr McGee Oil and Gas Onshore LP
Project: Uintah County, UT UTM12
Site: NBU 921-15N Pad
Well: NBU 921-22D1BS
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well NBU 921-22D1BS
TVD Reference: GL 4827' & KB 14' @ 4841.00ft (ENSIGN 145)
MD Reference: GL 4827' & KB 14' @ 4841.00ft (ENSIGN 145)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM5000-RobertS-Local

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)
4,607.00	10.63	224.86	4,361.02	-517.29	-1,239.60	1,342.47	3.57	-3.04	-9.06
4,698.00	9.16	223.73	4,450.67	-528.48	-1,250.53	1,357.05	1.63	-1.62	-1.24
4,789.00	7.79	220.23	4,540.67	-538.42	-1,259.52	1,369.36	1.61	-1.51	-3.85
4,879.00	6.66	224.75	4,629.96	-546.78	-1,267.13	1,379.76	1.40	-1.26	5.02
4,970.00	6.23	218.58	4,720.38	-554.39	-1,273.92	1,389.10	0.90	-0.47	-6.78
5,060.00	4.53	216.28	4,809.98	-561.08	-1,279.07	1,396.56	1.90	-1.89	-2.56
5,151.00	3.46	199.45	4,900.76	-566.56	-1,282.11	1,401.61	1.73	-1.18	-18.49
5,242.00	2.68	183.77	4,991.63	-571.27	-1,283.17	1,404.53	1.25	-0.86	-17.23
5,332.00	1.48	123.33	5,081.58	-574.01	-1,282.34	1,404.91	2.60	-1.33	-67.16
5,423.00	1.61	54.58	5,172.56	-573.92	-1,280.31	1,403.03	1.92	0.14	-75.55
5,513.00	1.47	67.59	5,262.52	-572.75	-1,278.21	1,400.63	0.42	-0.16	14.46
5,604.00	1.54	105.38	5,353.49	-572.62	-1,275.96	1,398.53	1.07	0.08	41.53
5,695.00	1.12	51.85	5,444.47	-572.40	-1,274.08	1,396.72	1.38	-0.46	-58.82
5,785.00	2.01	33.18	5,534.44	-570.54	-1,272.52	1,394.53	1.13	0.99	-20.74
5,876.00	1.17	59.51	5,625.40	-568.73	-1,270.85	1,392.26	1.20	-0.92	28.93
5,966.00	1.35	84.80	5,715.38	-568.17	-1,269.00	1,390.35	0.64	0.20	28.10
6,057.00	1.23	99.26	5,806.36	-568.23	-1,266.97	1,388.52	0.38	-0.13	15.89
6,148.00	1.25	120.47	5,897.34	-568.89	-1,265.15	1,387.14	0.50	0.02	23.31
6,238.00	0.57	358.79	5,987.33	-568.94	-1,264.31	1,386.40	1.80	-0.76	-135.20
6,329.00	0.28	350.76	6,078.33	-568.26	-1,264.36	1,386.17	0.32	-0.32	-8.82
6,419.00	0.34	8.98	6,168.33	-567.78	-1,264.35	1,385.96	0.13	0.07	20.24
6,510.00	0.53	326.44	6,259.33	-567.17	-1,264.54	1,385.88	0.40	0.21	-46.75
6,601.00	0.85	359.45	6,350.32	-566.14	-1,264.78	1,385.67	0.55	0.35	36.27
6,691.00	0.48	24.76	6,440.31	-565.13	-1,264.63	1,385.11	0.52	-0.41	28.12
6,782.00	0.79	5.82	6,531.31	-564.16	-1,264.41	1,384.50	0.41	0.34	-20.81
6,873.00	1.93	327.32	6,622.28	-562.25	-1,265.17	1,384.40	1.54	1.25	-42.31
6,963.00	1.02	326.96	6,712.25	-560.30	-1,266.43	1,384.74	1.01	-1.01	-0.40
7,054.00	0.93	333.28	6,803.24	-558.96	-1,267.20	1,384.88	0.15	-0.10	6.95
7,144.00	0.69	305.41	6,893.23	-557.99	-1,267.97	1,385.18	0.50	-0.27	-30.97
7,235.00	0.52	219.28	6,984.23	-558.00	-1,268.68	1,385.83	0.92	-0.19	-94.65
7,326.00	0.57	253.11	7,075.22	-558.45	-1,269.37	1,386.65	0.35	0.05	37.18
7,416.00	0.30	271.44	7,165.22	-558.57	-1,270.04	1,387.30	0.33	-0.30	20.37
7,507.00	0.97	331.10	7,256.21	-557.89	-1,270.65	1,387.57	0.94	0.74	65.56
7,597.00	0.88	348.94	7,346.20	-556.55	-1,271.15	1,387.47	0.33	-0.10	19.82
7,688.00	0.53	326.71	7,437.20	-555.51	-1,271.51	1,387.37	0.48	-0.38	-24.43
7,778.00	0.32	143.36	7,527.20	-555.36	-1,271.59	1,387.38	0.94	-0.23	196.28
7,869.00	0.80	326.93	7,618.19	-555.03	-1,271.79	1,387.42	1.23	0.53	-193.88
7,960.00	0.97	286.54	7,709.18	-554.28	-1,272.87	1,388.10	0.69	0.19	-44.38
8,050.00	0.29	329.64	7,799.18	-553.87	-1,273.72	1,388.70	0.87	-0.76	47.89
8,141.00	0.38	321.57	7,890.18	-553.43	-1,274.02	1,388.79	0.11	0.10	-8.87
8,231.00	0.18	154.18	7,980.18	-553.33	-1,274.14	1,388.86	0.62	-0.22	-185.99
8,322.00	0.21	215.06	8,071.17	-553.59	-1,274.18	1,389.00	0.22	0.03	66.90
8,413.00	0.73	201.13	8,162.17	-554.27	-1,274.48	1,389.56	0.58	0.57	-15.31
8,503.00	1.14	187.31	8,252.16	-555.69	-1,274.80	1,390.44	0.52	0.46	-15.36

Company: Kerr McGee Oil and Gas Onshore LP
Project: Uintah County, UT UTM12
Site: NBU 921-15N Pad
Well: NBU 921-22D1BS
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well NBU 921-22D1BS
TVD Reference: GL 4827' & KB 14' @ 4841.00ft (ENSIGN 145)
MD Reference: GL 4827' & KB 14' @ 4841.00ft (ENSIGN 145)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM5000-RobertS-Local

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)	
8,594.00	0.91	155.64	8,343.15	-557.25	-1,274.62	1,390.92	0.66	-0.25	-34.80	
8,684.00	0.79	182.21	8,433.14	-558.52	-1,274.35	1,391.20	0.45	-0.13	29.52	
8,775.00	1.11	178.34	8,524.12	-560.03	-1,274.35	1,391.83	0.36	0.35	-4.25	
8,866.00	1.14	152.27	8,615.11	-561.71	-1,273.90	1,392.12	0.56	0.03	-28.65	
8,956.00	1.30	140.54	8,705.09	-563.29	-1,272.84	1,391.81	0.33	0.18	-13.03	
9,047.00	0.60	118.81	8,796.07	-564.32	-1,271.76	1,391.26	0.85	-0.77	-23.88	
9,137.00	0.96	338.87	8,886.07	-563.84	-1,271.62	1,390.93	1.63	0.40	-155.49	
9,228.00	0.60	35.10	8,977.06	-562.74	-1,271.62	1,390.48	0.88	-0.40	61.79	
9,318.00	0.71	298.16	9,067.06	-562.09	-1,271.84	1,390.41	1.09	0.12	-107.71	
9,409.00	0.18	198.82	9,158.06	-561.96	-1,272.39	1,390.85	0.84	-0.58	-109.16	
9,500.00	0.33	161.86	9,249.06	-562.34	-1,272.35	1,390.98	0.24	0.16	-40.62	
9,590.00	0.62	185.82	9,339.05	-563.08	-1,272.32	1,391.25	0.38	0.32	26.62	
9,681.00	0.62	140.20	9,430.05	-563.94	-1,272.05	1,391.37	0.53	0.00	-50.13	
9,771.00	1.17	131.81	9,520.04	-564.93	-1,271.06	1,390.87	0.63	0.61	-9.32	
9,862.00	1.49	121.57	9,611.01	-566.17	-1,269.36	1,389.84	0.44	0.35	-11.25	
9,953.00	1.67	151.80	9,701.98	-567.96	-1,267.72	1,389.10	0.93	0.20	33.22	
10,043.00	0.97	162.53	9,791.95	-569.84	-1,266.87	1,389.11	0.82	-0.78	11.92	
10,134.00	1.23	124.38	9,882.94	-571.13	-1,265.84	1,388.70	0.83	0.29	-41.92	
10,225.00	1.14	147.76	9,973.92	-572.44	-1,264.55	1,388.07	0.54	-0.10	25.69	
10,315.00	1.85	150.84	10,063.89	-574.47	-1,263.36	1,387.84	0.79	0.79	3.42	
10,391.00	1.77	145.01	10,139.85	-576.50	-1,262.09	1,387.53	0.26	-0.11	-7.67	
LAST SDI MWD PRODUCTION SURVEY										
10,449.00	1.77	145.01	10,197.82	-577.97	-1,261.06	1,387.20	0.00	0.00	0.00	
SDI PROJECTION TO TD										

Design Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N-S (ft)	+E-W (ft)	
186.00	185.99	-0.25	1.22	FIRST SDI MWD SURFACE SURVEY
2,598.00	2,478.01	-269.72	-603.11	LAST SDI MWD SURFACE SURVEY
2,705.00	2,578.16	-289.07	-635.44	FIRST SDI MWD PRODUCTION SURVEY
10,391.00	10,139.85	-576.50	-1,262.09	LAST SDI MWD PRODUCTION SURVEY
10,449.00	10,197.82	-577.97	-1,261.06	SDI PROJECTION TO TD

Checked By: _____ Approved By: _____ Date: _____



Scientific Drilling
Rocky Mountain Operations

Kerr McGee Oil and Gas Onshore LP

**Uintah County, UT UTM12
NBU 921-15N Pad
NBU 921-22D1BS**

OH

Design: OH

Survey Report - Geographic

01 August, 2011

Company: Kerr McGee Oil and Gas Onshore LP	Local Co-ordinate Reference: Well NBU 921-22D1BS
Project: Uintah County, UT UTM12	TVD Reference: GL 4827' & KB 14' @ 4841.00ft (ENSIGN 145)
Site: NBU 921-15N Pad	MD Reference: GL 4827' & KB 14' @ 4841.00ft (ENSIGN 145)
Well: NBU 921-22D1BS	North Reference: True
Wellbore: OH	Survey Calculation Method: Minimum Curvature
Design: OH	Database: EDM5000-RobertS-Local

Project	Uintah County, UT UTM12		
Map System:	Universal Transverse Mercator (US Survey Feet)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 - Western US		
Map Zone:	Zone 12N (114 W to 108 W)		

Site	NBU 921-15N Pad, SECTION 22 T9S R21E				
Site Position:	Northing:	14,540,265.88 usft	Latitude:	40° 1' 47.435 N	
From: Lat/Long	Easting:	2,049,430.74 usft	Longitude:	109° 32' 20.152 W	
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence:	0.94 °

Well	NBU 921-22D1BS, 357 FSL 2093 FWL					
Well Position	+N/-S	0.00 ft	Northing:	14,540,262.72 usft	Latitude:	40° 1' 47.413 N
	+E/-W	0.00 ft	Easting:	2,049,371.15 usft	Longitude:	109° 32' 20.918 W
Position Uncertainty	0.00 ft	Wellhead Elevation:	ft	Ground Level:	4,827.00 ft	

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	05/12/11	11.11	65.89	52,350

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	245.45	

Survey Program	Date	08/01/11			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
5.00	2,598.00	Survey #1 SDI MWD SURFACE (OH)	MWD SDI	MWD - Standard ver 1.0.1	
2,705.00	10,449.00	Survey #2 SDI MWD PRODUCTION (OH)	MWD SDI	MWD - Standard ver 1.0.1	

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.00	0.00	0.00	0.00	0.00	0.00	14,540,262.72	2,049,371.15	40° 1' 47.413 N	109° 32' 20.918 W
5.00	0.00	0.00	5.00	0.00	0.00	14,540,262.72	2,049,371.15	40° 1' 47.413 N	109° 32' 20.918 W
186.00	0.79	101.46	185.99	-0.25	1.22	14,540,262.49	2,049,372.37	40° 1' 47.411 N	109° 32' 20.903 W
FIRST SDI MWD SURFACE SURVEY									
277.00	0.26	111.74	276.99	-0.45	2.03	14,540,262.30	2,049,373.18	40° 1' 47.409 N	109° 32' 20.892 W
370.00	1.06	232.59	369.99	-1.05	1.54	14,540,261.69	2,049,372.71	40° 1' 47.403 N	109° 32' 20.899 W
465.00	2.81	245.16	464.93	-2.56	-1.27	14,540,260.13	2,049,369.92	40° 1' 47.388 N	109° 32' 20.935 W
560.00	4.48	246.48	559.73	-5.02	-6.78	14,540,257.58	2,049,364.45	40° 1' 47.364 N	109° 32' 21.006 W
656.00	6.24	253.33	655.31	-8.01	-15.22	14,540,254.45	2,049,356.06	40° 1' 47.334 N	109° 32' 21.114 W
751.00	8.09	256.67	749.56	-11.04	-26.67	14,540,251.25	2,049,344.66	40° 1' 47.304 N	109° 32' 21.261 W
846.00	10.46	259.93	843.32	-14.09	-41.67	14,540,247.96	2,049,329.71	40° 1' 47.274 N	109° 32' 21.454 W

Company: Kerr McGee Oil and Gas Onshore LP
Project: Uintah County, UT UTM12
Site: NBU 921-15N Pad
Well: NBU 921-22D1BS
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well NBU 921-22D1BS
TVD Reference: GL 4827' & KB 14' @ 4841.00ft (ENSGN 145)
MD Reference: GL 4827' & KB 14' @ 4841.00ft (ENSGN 145)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM5000-RobertS-Local

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
941.00	12.57	261.51	936.40	-17.12	-60.39	14,540,244.62	2,049,311.05	40° 1' 47.244 N	109° 32' 21.695 W
1,035.00	14.60	257.64	1,027.77	-21.17	-82.08	14,540,240.21	2,049,289.43	40° 1' 47.204 N	109° 32' 21.974 W
1,131.00	16.00	252.28	1,120.37	-27.78	-106.50	14,540,233.20	2,049,265.11	40° 1' 47.139 N	109° 32' 22.288 W
1,226.00	18.03	248.68	1,211.21	-37.12	-132.67	14,540,223.44	2,049,239.10	40° 1' 47.046 N	109° 32' 22.624 W
1,321.00	19.26	244.72	1,301.22	-49.15	-160.54	14,540,210.95	2,049,211.44	40° 1' 46.927 N	109° 32' 22.983 W
1,417.00	20.49	243.58	1,391.50	-63.39	-189.91	14,540,196.23	2,049,182.31	40° 1' 46.787 N	109° 32' 23.360 W
1,512.00	21.28	242.17	1,480.26	-78.84	-220.04	14,540,180.29	2,049,152.43	40° 1' 46.634 N	109° 32' 23.748 W
1,608.00	21.37	243.05	1,569.69	-94.90	-251.04	14,540,163.72	2,049,121.70	40° 1' 46.475 N	109° 32' 24.146 W
1,702.00	21.98	243.58	1,657.04	-110.49	-282.06	14,540,147.63	2,049,090.94	40° 1' 46.321 N	109° 32' 24.545 W
1,797.00	23.39	242.52	1,744.69	-127.10	-314.71	14,540,130.48	2,049,058.56	40° 1' 46.157 N	109° 32' 24.965 W
1,891.00	24.71	242.79	1,830.53	-144.69	-348.74	14,540,112.33	2,049,024.83	40° 1' 45.983 N	109° 32' 25.402 W
1,986.00	24.01	244.72	1,917.07	-162.03	-383.88	14,540,094.42	2,048,989.98	40° 1' 45.812 N	109° 32' 25.854 W
2,081.00	24.71	243.49	2,003.61	-179.14	-419.12	14,540,076.73	2,048,955.02	40° 1' 45.642 N	109° 32' 26.307 W
2,177.00	24.01	245.16	2,091.07	-196.31	-454.80	14,540,058.99	2,048,919.63	40° 1' 45.473 N	109° 32' 26.766 W
2,272.00	25.41	245.42	2,177.37	-212.90	-490.88	14,540,041.80	2,048,883.83	40° 1' 45.309 N	109° 32' 27.230 W
2,367.00	23.21	245.25	2,263.94	-229.22	-526.42	14,540,024.90	2,048,848.56	40° 1' 45.147 N	109° 32' 27.687 W
2,460.00	22.16	242.17	2,349.74	-245.08	-558.57	14,540,008.51	2,048,816.67	40° 1' 44.991 N	109° 32' 28.100 W
2,555.00	21.54	240.85	2,437.92	-261.94	-589.65	14,539,991.15	2,048,785.88	40° 1' 44.824 N	109° 32' 28.500 W
2,598.00	20.84	239.10	2,478.01	-269.72	-603.11	14,539,983.15	2,048,772.55	40° 1' 44.747 N	109° 32' 28.673 W
LAST SDI MWD SURFACE SURVEY									
2,705.00	20.40	239.08	2,578.16	-289.07	-635.44	14,539,963.27	2,048,740.54	40° 1' 44.556 N	109° 32' 29.088 W
FIRST SDI MWD PRODUCTION SURVEY									
2,795.00	20.89	242.64	2,662.38	-304.51	-663.15	14,539,947.38	2,048,713.09	40° 1' 44.403 N	109° 32' 29.445 W
2,886.00	21.39	248.83	2,747.27	-317.96	-693.03	14,539,933.44	2,048,683.42	40° 1' 44.270 N	109° 32' 29.829 W
2,977.00	22.03	248.88	2,831.81	-330.10	-724.43	14,539,920.79	2,048,652.23	40° 1' 44.150 N	109° 32' 30.233 W
3,067.00	22.54	253.44	2,915.10	-341.10	-756.71	14,539,909.26	2,048,620.13	40° 1' 44.041 N	109° 32' 30.648 W
3,158.00	22.27	254.12	2,999.23	-350.79	-790.01	14,539,899.03	2,048,586.99	40° 1' 43.946 N	109° 32' 31.076 W
3,249.00	23.34	256.49	3,083.11	-359.72	-824.13	14,539,889.54	2,048,553.03	40° 1' 43.857 N	109° 32' 31.515 W
3,339.00	22.38	255.65	3,166.04	-368.13	-858.06	14,539,880.57	2,048,519.24	40° 1' 43.774 N	109° 32' 31.951 W
3,430.00	21.89	255.83	3,250.34	-376.58	-891.30	14,539,871.58	2,048,486.15	40° 1' 43.691 N	109° 32' 32.378 W
3,520.00	23.21	260.54	3,333.46	-383.60	-925.06	14,539,864.01	2,048,452.51	40° 1' 43.621 N	109° 32' 32.812 W
3,611.00	23.04	260.88	3,417.15	-389.37	-960.33	14,539,857.66	2,048,417.34	40° 1' 43.564 N	109° 32' 33.266 W
3,701.00	22.47	257.03	3,500.15	-396.02	-994.48	14,539,850.45	2,048,383.30	40° 1' 43.499 N	109° 32' 33.705 W
3,792.00	22.60	256.13	3,584.20	-404.12	-1,028.40	14,539,841.80	2,048,349.51	40° 1' 43.418 N	109° 32' 34.141 W
3,883.00	21.65	250.60	3,668.51	-413.89	-1,061.22	14,539,831.49	2,048,316.86	40° 1' 43.322 N	109° 32' 34.563 W
3,973.00	19.93	248.46	3,752.65	-425.03	-1,091.15	14,539,819.85	2,048,287.12	40° 1' 43.212 N	109° 32' 34.948 W
4,064.00	19.87	244.44	3,838.22	-437.40	-1,119.53	14,539,807.02	2,048,258.95	40° 1' 43.089 N	109° 32' 35.313 W
4,154.00	18.46	240.78	3,923.23	-450.96	-1,145.76	14,539,793.04	2,048,232.94	40° 1' 42.955 N	109° 32' 35.650 W
4,245.00	16.97	239.34	4,009.91	-464.76	-1,169.76	14,539,778.84	2,048,209.17	40° 1' 42.819 N	109° 32' 35.958 W
4,336.00	15.39	234.77	4,097.31	-478.50	-1,191.05	14,539,764.75	2,048,188.11	40° 1' 42.683 N	109° 32' 36.232 W
4,426.00	13.45	230.38	4,184.47	-492.07	-1,208.87	14,539,750.90	2,048,170.51	40° 1' 42.549 N	109° 32' 36.461 W
4,517.00	13.37	233.01	4,272.99	-505.15	-1,225.43	14,539,737.55	2,048,154.17	40° 1' 42.420 N	109° 32' 36.674 W
4,607.00	10.63	224.86	4,361.02	-517.29	-1,239.60	14,539,725.17	2,048,140.20	40° 1' 42.300 N	109° 32' 36.856 W
4,698.00	9.16	223.73	4,450.67	-528.48	-1,250.53	14,539,713.81	2,048,129.46	40° 1' 42.189 N	109° 32' 36.997 W
4,789.00	7.79	220.23	4,540.67	-538.42	-1,259.52	14,539,703.72	2,048,120.64	40° 1' 42.091 N	109° 32' 37.112 W
4,879.00	6.66	224.75	4,629.96	-546.78	-1,267.13	14,539,695.23	2,048,113.16	40° 1' 42.008 N	109° 32' 37.210 W
4,970.00	6.23	218.58	4,720.38	-554.39	-1,273.92	14,539,687.51	2,048,106.49	40° 1' 41.933 N	109° 32' 37.298 W
5,060.00	4.53	216.28	4,809.98	-561.08	-1,279.07	14,539,680.75	2,048,101.45	40° 1' 41.867 N	109° 32' 37.364 W
5,151.00	3.46	199.45	4,900.76	-566.56	-1,282.11	14,539,675.21	2,048,098.50	40° 1' 41.813 N	109° 32' 37.403 W
5,242.00	2.68	183.77	4,991.63	-571.27	-1,283.17	14,539,670.48	2,048,097.52	40° 1' 41.766 N	109° 32' 37.416 W
5,332.00	1.48	123.33	5,081.58	-574.01	-1,282.34	14,539,667.76	2,048,098.40	40° 1' 41.739 N	109° 32' 37.406 W
5,423.00	1.61	54.58	5,172.56	-573.92	-1,280.31	14,539,667.89	2,048,100.42	40° 1' 41.740 N	109° 32' 37.380 W
5,513.00	1.47	67.59	5,262.52	-572.75	-1,278.21	14,539,669.09	2,048,102.50	40° 1' 41.752 N	109° 32' 37.353 W
5,604.00	1.54	105.38	5,353.49	-572.62	-1,275.96	14,539,669.25	2,048,104.76	40° 1' 41.753 N	109° 32' 37.324 W
5,695.00	1.12	51.85	5,444.47	-572.40	-1,274.08	14,539,669.51	2,048,106.63	40° 1' 41.755 N	109° 32' 37.300 W

Company: Kerr McGee Oil and Gas Onshore LP
Project: Uintah County, UT UTM12
Site: NBU 921-15N Pad
Well: NBU 921-22D1BS
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well NBU 921-22D1BS
TVD Reference: GL 4827' & KB 14' @ 4841.00ft (ENSIGN 145)
MD Reference: GL 4827' & KB 14' @ 4841.00ft (ENSIGN 145)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM5000-RobertS-Local

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
5,785.00	2.01	33.18	5,534.44	-570.54	-1,272.52	14,539,671.40	2,048,108.16	40° 1' 41.773 N	109° 32' 37.280 W
5,876.00	1.17	59.51	5,625.40	-568.73	-1,270.85	14,539,673.23	2,048,109.80	40° 1' 41.791 N	109° 32' 37.258 W
5,966.00	1.35	84.80	5,715.38	-568.17	-1,269.00	14,539,673.82	2,048,111.64	40° 1' 41.797 N	109° 32' 37.234 W
6,057.00	1.23	99.26	5,806.36	-568.23	-1,266.97	14,539,673.80	2,048,113.67	40° 1' 41.796 N	109° 32' 37.208 W
6,148.00	1.25	120.47	5,897.34	-568.89	-1,265.15	14,539,673.17	2,048,115.50	40° 1' 41.790 N	109° 32' 37.185 W
6,238.00	0.57	358.79	5,987.33	-568.94	-1,264.31	14,539,673.13	2,048,116.34	40° 1' 41.789 N	109° 32' 37.174 W
6,329.00	0.28	350.76	6,078.33	-568.26	-1,264.36	14,539,673.80	2,048,116.28	40° 1' 41.796 N	109° 32' 37.175 W
6,419.00	0.34	8.98	6,168.33	-567.78	-1,264.35	14,539,674.28	2,048,116.28	40° 1' 41.801 N	109° 32' 37.175 W
6,510.00	0.53	326.44	6,259.33	-567.17	-1,264.54	14,539,674.90	2,048,116.08	40° 1' 41.807 N	109° 32' 37.177 W
6,601.00	0.85	359.45	6,350.32	-566.14	-1,264.78	14,539,675.92	2,048,115.83	40° 1' 41.817 N	109° 32' 37.180 W
6,691.00	0.48	24.76	6,440.31	-565.13	-1,264.63	14,539,676.93	2,048,115.96	40° 1' 41.827 N	109° 32' 37.178 W
6,782.00	0.79	5.82	6,531.31	-564.16	-1,264.41	14,539,677.90	2,048,116.17	40° 1' 41.836 N	109° 32' 37.175 W
6,873.00	1.93	327.32	6,622.28	-562.25	-1,265.17	14,539,679.81	2,048,115.37	40° 1' 41.855 N	109° 32' 37.185 W
6,963.00	1.02	326.96	6,712.25	-560.30	-1,266.43	14,539,681.73	2,048,114.09	40° 1' 41.875 N	109° 32' 37.201 W
7,054.00	0.93	333.28	6,803.24	-558.96	-1,267.20	14,539,683.06	2,048,113.29	40° 1' 41.888 N	109° 32' 37.211 W
7,144.00	0.69	305.41	6,893.23	-557.99	-1,267.97	14,539,684.01	2,048,112.50	40° 1' 41.897 N	109° 32' 37.221 W
7,235.00	0.52	219.28	6,984.23	-558.00	-1,268.68	14,539,684.00	2,048,111.80	40° 1' 41.897 N	109° 32' 37.230 W
7,326.00	0.57	253.11	7,075.22	-558.45	-1,269.37	14,539,683.53	2,048,111.11	40° 1' 41.893 N	109° 32' 37.239 W
7,416.00	0.30	271.44	7,165.22	-558.57	-1,270.04	14,539,683.40	2,048,110.45	40° 1' 41.892 N	109° 32' 37.248 W
7,507.00	0.97	331.10	7,256.21	-557.89	-1,270.65	14,539,684.07	2,048,109.83	40° 1' 41.898 N	109° 32' 37.255 W
7,597.00	0.88	348.94	7,346.20	-556.55	-1,271.15	14,539,685.41	2,048,109.30	40° 1' 41.912 N	109° 32' 37.262 W
7,688.00	0.53	326.71	7,437.20	-555.51	-1,271.51	14,539,686.44	2,048,108.92	40° 1' 41.922 N	109° 32' 37.267 W
7,778.00	0.32	143.36	7,527.20	-555.36	-1,271.59	14,539,686.58	2,048,108.84	40° 1' 41.923 N	109° 32' 37.268 W
7,869.00	0.80	326.93	7,618.19	-555.03	-1,271.79	14,539,686.91	2,048,108.64	40° 1' 41.927 N	109° 32' 37.270 W
7,960.00	0.97	286.54	7,709.18	-554.28	-1,272.87	14,539,687.64	2,048,107.54	40° 1' 41.934 N	109° 32' 37.284 W
8,050.00	0.29	329.64	7,799.18	-553.87	-1,273.72	14,539,688.04	2,048,106.69	40° 1' 41.938 N	109° 32' 37.295 W
8,141.00	0.38	321.57	7,890.18	-553.43	-1,274.02	14,539,688.47	2,048,106.38	40° 1' 41.942 N	109° 32' 37.299 W
8,231.00	0.18	154.18	7,980.18	-553.33	-1,274.14	14,539,688.58	2,048,106.25	40° 1' 41.943 N	109° 32' 37.300 W
8,322.00	0.21	215.06	8,071.17	-553.59	-1,274.18	14,539,688.31	2,048,106.22	40° 1' 41.941 N	109° 32' 37.301 W
8,413.00	0.73	201.13	8,162.17	-554.27	-1,274.48	14,539,687.63	2,048,105.93	40° 1' 41.934 N	109° 32' 37.305 W
8,503.00	1.14	187.31	8,252.16	-555.69	-1,274.80	14,539,686.20	2,048,105.63	40° 1' 41.920 N	109° 32' 37.309 W
8,594.00	0.91	155.64	8,343.15	-557.25	-1,274.62	14,539,684.65	2,048,105.84	40° 1' 41.905 N	109° 32' 37.307 W
8,684.00	0.79	182.21	8,433.14	-558.52	-1,274.35	14,539,683.38	2,048,106.13	40° 1' 41.892 N	109° 32' 37.303 W
8,775.00	1.11	178.34	8,524.12	-560.03	-1,274.35	14,539,681.87	2,048,106.16	40° 1' 41.877 N	109° 32' 37.303 W
8,866.00	1.14	152.27	8,615.11	-561.71	-1,273.90	14,539,680.20	2,048,106.63	40° 1' 41.861 N	109° 32' 37.297 W
8,956.00	1.30	140.54	8,705.09	-563.29	-1,272.84	14,539,678.64	2,048,107.73	40° 1' 41.845 N	109° 32' 37.284 W
9,047.00	0.60	118.81	8,796.07	-564.32	-1,271.76	14,539,677.63	2,048,108.82	40° 1' 41.835 N	109° 32' 37.270 W
9,137.00	0.96	338.87	8,886.07	-563.84	-1,271.62	14,539,678.11	2,048,108.95	40° 1' 41.840 N	109° 32' 37.268 W
9,228.00	0.60	35.10	8,977.06	-562.74	-1,271.62	14,539,679.21	2,048,108.93	40° 1' 41.850 N	109° 32' 37.268 W
9,318.00	0.71	298.16	9,067.06	-562.09	-1,271.84	14,539,679.85	2,048,108.70	40° 1' 41.857 N	109° 32' 37.271 W
9,409.00	0.18	198.82	9,158.06	-561.96	-1,272.39	14,539,679.97	2,048,108.15	40° 1' 41.858 N	109° 32' 37.278 W
9,500.00	0.33	161.86	9,249.06	-562.34	-1,272.35	14,539,679.59	2,048,108.20	40° 1' 41.854 N	109° 32' 37.277 W
9,590.00	0.62	185.82	9,339.05	-563.08	-1,272.32	14,539,678.86	2,048,108.24	40° 1' 41.847 N	109° 32' 37.277 W
9,681.00	0.62	140.20	9,430.05	-563.94	-1,272.05	14,539,678.00	2,048,108.52	40° 1' 41.839 N	109° 32' 37.274 W
9,771.00	1.17	131.81	9,520.04	-564.93	-1,271.06	14,539,677.03	2,048,109.53	40° 1' 41.829 N	109° 32' 37.261 W
9,862.00	1.49	121.57	9,611.01	-566.17	-1,269.36	14,539,675.81	2,048,111.25	40° 1' 41.817 N	109° 32' 37.239 W
9,953.00	1.67	151.80	9,701.98	-567.96	-1,267.72	14,539,674.05	2,048,112.91	40° 1' 41.799 N	109° 32' 37.218 W
10,043.00	0.97	162.53	9,791.95	-569.84	-1,266.87	14,539,672.19	2,048,113.79	40° 1' 41.780 N	109° 32' 37.207 W
10,134.00	1.23	124.38	9,882.94	-571.13	-1,265.84	14,539,670.92	2,048,114.85	40° 1' 41.768 N	109° 32' 37.194 W
10,225.00	1.14	147.76	9,973.92	-572.44	-1,264.55	14,539,669.62	2,048,116.16	40° 1' 41.755 N	109° 32' 37.177 W
10,315.00	1.85	150.84	10,063.89	-574.47	-1,263.36	14,539,667.61	2,048,117.38	40° 1' 41.735 N	109° 32' 37.162 W
10,391.00	1.77	145.01	10,139.85	-576.50	-1,262.09	14,539,665.60	2,048,118.69	40° 1' 41.714 N	109° 32' 37.145 W
LAST SDI MWD PRODUCTION SURVEY									
10,449.00	1.77	145.01	10,197.82	-577.97	-1,261.06	14,539,664.15	2,048,119.74	40° 1' 41.700 N	109° 32' 37.132 W
SDI PROJECTION TO TD									

Company:	Kerr McGee Oil and Gas Onshore LP	Local Co-ordinate Reference:	Well NBU 921-22D1BS
Project:	Uintah County, UT UTM12	TVD Reference:	GL 4827' & KB 14' @ 4841.00ft (ENSIGN 145)
Site:	NBU 921-15N Pad	MD Reference:	GL 4827' & KB 14' @ 4841.00ft (ENSIGN 145)
Well:	NBU 921-22D1BS	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM5000-RobertS-Local

Design Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
186.00	185.99	-0.25	1.22	FIRST SDI MWD SURFACE SURVEY
2,598.00	2,478.01	-269.72	-603.11	LAST SDI MWD SURFACE SURVEY
2,705.00	2,578.16	-289.07	-635.44	FIRST SDI MWD PRODUCTION SURVEY
10,391.00	10,139.85	-576.50	-1,262.09	LAST SDI MWD PRODUCTION SURVEY
10,449.00	10,197.82	-577.97	-1,261.06	SDI PROJECTION TO TD

Checked By: _____ Approved By: _____ Date: _____

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

JUN 30 2009

FORM APPROVED
OMB No. 1004-0136
Expires July 31, 2010

APPLICATION FOR PERMIT TO DRILL OR REENTER BLM

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. UTU0147566
1b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name
2. Name of Operator KERRMCGEE OIL&GAS ONSHORE LP Contact: DANIELLE E PIERNOT Email: Danielle.Piernot@anadarko.com		7. If Unit or CA Agreement, Name and No. 891008900A
3a. Address PO BOX 173779 DENVER, CO 80202-3779		8. Lease Name and Well No. NBU 921-22D1BS
3b. Phone No. (include area code) Ph: 720-929-6156 Fx: 720-929-7156		9. API Well No. 43-047-50530
4. Location of Well (Report location clearly and in accordance with any State requirements.)* At surface SESW 357FSL 2093FWL 40.02980 N Lat, 109.53983 W Lon (Sec. 15) At proposed prod. zone NWNW 226FNL 819FWL 40.02822 N Lat, 109.54438 W Lon (Sec. 22)		10. Field and Pool, or Exploratory NATURAL BUTTES
14. Distance in miles and direction from nearest town or post office* APPROXIMATELY 26 MILES SOUTHEAST OF OURAY, UTAH		11. Sec., T., R., M., or Blk. and Survey or Area Sec 15 T9S R21E Mer SLB
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 226 FEET	16. No. of Acres in Lease 160.00	12. County or Parish UINTAH
17. Spacing Unit dedicated to this well	13. State UT	18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. APPROXIMATELY 340 FEET
19. Proposed Depth 10395 MD 10000 TVD	20. BLM/BIA Bond No. on file WYB000291	21. Elevations (Show whether DF, KB, RT, GL, etc.) 4827 GL
22. Approximate date work will start 07/20/2009	23. Estimated duration 60-90 DAYS	

24. Attachments

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

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

25. Signature (Electronic Submission)	Name (Printed/Typed) DANIELLE E PIERNOT Ph: 720-929-6156	Date 06/30/2009
Title REGULATORY ANALYST		
Approved by (Signature)	Name (Printed/Typed) James H. Sparger	Date NOV 12 2010
Title Acting Assistant Field Manager Land & Mineral Resources	Office VERNAL FIELD OFFICE	

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

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

Additional Operator Remarks (see next page)

RECEIVED
DEC 06 2010



Electronic Submission #71515 verified by the BLM Well Information System
For KERRMCGEE OIL&GAS ONSHORE LP, sent to the Vernal
Committed to AFMSS for processing by GAIL JENKINS on 07/02/2009

NOS and posted 7/6/09
AFMSS#

NOTICE OF APPROVAL

CONDITIONS OF APPROVAL ATTACHED

** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED **

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

170 South 500 East

VERNAL, UT 84078

(435) 781-4400



CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company:	Kerr McGee Oil & Gas Onshore LP	Location:	SESW, Sec 15, T9S R21E
Well No:	NBU 921-22D1BS	Lease No:	UTU-0147566
API No:	43-047-50530	Agreement:	Natural Buttes Unit

OFFICE NUMBER: (435) 781-4400

OFFICE FAX NUMBER: (435) 781-3420

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

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

NOTIFICATION REQUIREMENTS

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

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

SITE SPECIFIC CONDITIONS OF APPROVAL

- Paint old and new facilities "Shadow Gray."
- Move the existing pipeline off the damage area of the well pad.
- In accordance with the guidelines specified in the Utah BLM Field Office Guidelines for Raptor Protection from Human and Land Use Disturbances, 2002, a raptor survey should be conducted prior to expansion of the well pad or pipeline upgrade if construction would take place during raptor nesting season (January 01 through September 30). If active raptor nests are identified during a new survey, KMG should conduct its operations according to the seasonal restrictions detailed in the Uintah Basin-specific RMP guidelines and spatial offsets specified by the USFWS Utah Raptor Guidelines (see Appendix D).
- If project construction operations are not initiated before June 25, 2010, KMG should conduct additional biological surveys in accordance with the guidelines specified in the USFWS Rare Plant Conservation Measures for Uinta Basin hookless cactus (See Appendix D) and conduct its operation according to its specifications.

BIA Standard Conditions of Approval:

- Soil erosion will be mitigated by reseeding all disturbed areas.
- The gathering pipelines will be constructed to lie on the surface. The surface pipelines will not be bladed or cleared of vegetation. Where pipelines are constructed parallel to roads they may be welded on the road and then lifted from the road onto the right-of-way. Where pipelines do not parallel roads but cross-country between sites, they shall be welded in place at well sites or on access roads and then pulled between stations with a suitable piece of equipment. Traffic will be restricted along these areas so that the pipeline right-of-way will not be used as an access road.
- An open drilling system shall be used, unless otherwise specified in 10.0 Additional Stipulations of this document and in the Application for Permit to Drill. A closed drilling system shall be used in all flood plain areas, and other highly sensitive areas, recommended by the Ute Tribe Technician, BIA, and other agencies involved.
- The reserve pit shall be lined with a synthetic leak proof liner. After the drilling operation is complete, excess fluids shall be removed from the reserve pit and either hauled to an approved disposal site or shall be used to drill other wells. When the fluids are removed the pit shall be backfilled a minimum of 3.0' below the soil surface elevation.
- A closed production system shall be used. This means all produced water and oil field fluid wastes shall be contained in leak proof tanks. These fluids shall be disposed of in either approved injection wells or disposal pits.
- Major low water crossings will be armored with pit run material to protect them from erosion.

- All personnel should refrain from collecting any paleontological fossils and from disturbing any fossil resources in the area.
- If fossils are exposed or identified during construction, all construction must cease and immediate notification to the Energy and Minerals Department and the Cultural Rights Protection Officer.
- Before the site is abandoned the company will be required to restore the right-of-way to near its original state. The disturbed area will be reseeded with desirable perennial vegetation. If necessary, the Bureau of Indian Affairs or Bureau of Land Management will provide a suitable seed mixture.
- Noxious weeds will be controlled on all surface disturbances within the project area. If noxious weeds spread from the project area onto adjoining land, the company will also be responsible for their control.
- If project construction operations are scheduled to occur after December 31, 2009, KMG should conduct annual raptor surveys in accordance with the guidelines specified in the Utah Field Office Guidelines for Raptor Protection from Human and Land Use Disturbances, 2002. If active raptor nest are identified during a new survey, KMG should conduct its operations according to the seasonal restrictions detailed in the Uinta basin-specific RMP guidelines and spatial offsets specified by the USFWS Utah Raptor Guidelines (See Appendix D).
- USFWS threatened and endangered plant and animal conservation measures will be followed, as appropriate to the species identified by the biological resource survey (See Appendix D).
- All personnel should refrain from collecting artifacts and from disturbing any significant cultural resources in the area.
- If artifacts or any culturally sensitive materials are exposed or identified during construction, all construction must cease and immediate notification to the Energy and Minerals Department and the Cultural Rights Protection Officer.

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

SITE SPECIFIC DOWNHOLE CONDITIONS OF APPROVAL

- A Gamma Ray Log shall be run from TD to surface.

Variations Granted:

Air Drilling:

- Properly lubricated and maintained rotating head, variance granted to use a properly maintained and lubricated diverter bowl in place of a rotating head.
- Blooie line discharge 100' from the well bore, variance granted for blooie line discharge to be 45' from the well bore.
- Compressors located in the opposite direction from the blooie line a minimum of 100' from the well bore. Variance granted for two truck/trailer mounted air compressors located within 40 feet from the well bore and 60' from the blooie line.
- In lieu of mud products on location, Kerr McGee will fill the reserve pit with water for kill fluid.
- Automatic igniter. Variance granted for igniter due to there being no productive formations while drilling with air.

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

DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

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

- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- **Cement baskets shall not be run on surface casing.**
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.
- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- **Please submit an electronic copy of all other logs run on this well in LAS format to UT_VN_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.**
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

OPERATING REQUIREMENT REMINDERS:

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

data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

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