

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING						FORM 3 AMENDED REPORT <input checked="" type="checkbox"/>
APPLICATION FOR PERMIT TO DRILL						1. WELL NAME and NUMBER NBU 922-29L3CS
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 720 929-6007
8. ADDRESS OF OPERATOR P.O. Box 173779, Denver, CO, 80217						9. OPERATOR E-MAIL Kathy.SchneebeckDulnoan@anadarko.com
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) ML 22935			11. MINERAL OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>			12. SURFACE OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
13. NAME OF SURFACE OWNER (if box 12 = 'fee')						14. SURFACE OWNER PHONE (if box 12 = 'fee')
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')						16. SURFACE OWNER E-MAIL (if box 12 = 'fee')
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')			18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input checked="" type="checkbox"/> (Submit Commingling Application) NO <input type="checkbox"/>			19. SLANT VERTICAL <input type="checkbox"/> DIRECTIONAL <input checked="" type="checkbox"/> HORIZONTAL <input type="checkbox"/>
20. LOCATION OF WELL	FOOTAGES	QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN
LOCATION AT SURFACE	822 FSL 1637 FWL	SESW	29	9.0 S	22.0 E	S
Top of Uppermost Producing Zone	1601 FSL 289 FWL	NWSW	29	9.0 S	22.0 E	S
At Total Depth	1601 FSL 289 FWL	NWSW	29	9.0 S	22.0 E	S
21. COUNTY UINTAH			22. DISTANCE TO NEAREST LEASE LINE (Feet) 289		23. NUMBER OF ACRES IN DRILLING UNIT 200	
			25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 756		26. PROPOSED DEPTH MD: 9661 TVD: 9407	
27. ELEVATION - GROUND LEVEL 4933			28. BOND NUMBER 22013542		29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE Permit #43-8496	
ATTACHMENTS						
VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES						
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER			<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN			
<input type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)			<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER			
<input checked="" type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)			<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP			
NAME Danielle Piernot		TITLE Regulatory Analyst			PHONE 720 929-6156	
SIGNATURE		DATE 07/30/2010			EMAIL gnbregulatory@anadarko.com	
API NUMBER ASSIGNED 43047512160000		 Permit Manager				

Proposed Hole, Casing, and Cement						
String	Hole Size	Casing Size	Top (MD)	Bottom (MD)		
Prod	7.875	4.5	0	9661		
Pipe	Grade	Length	Weight			
	Grade I-80 Buttress	9661	11.6			

Proposed Hole, Casing, and Cement

String	Hole Size	Casing Size	Top (MD)	Bottom (MD)		
Surf	11	8.625	0	2290		
Pipe	Grade	Length	Weight			
	Grade I-80 LT&C	2290	28.0			

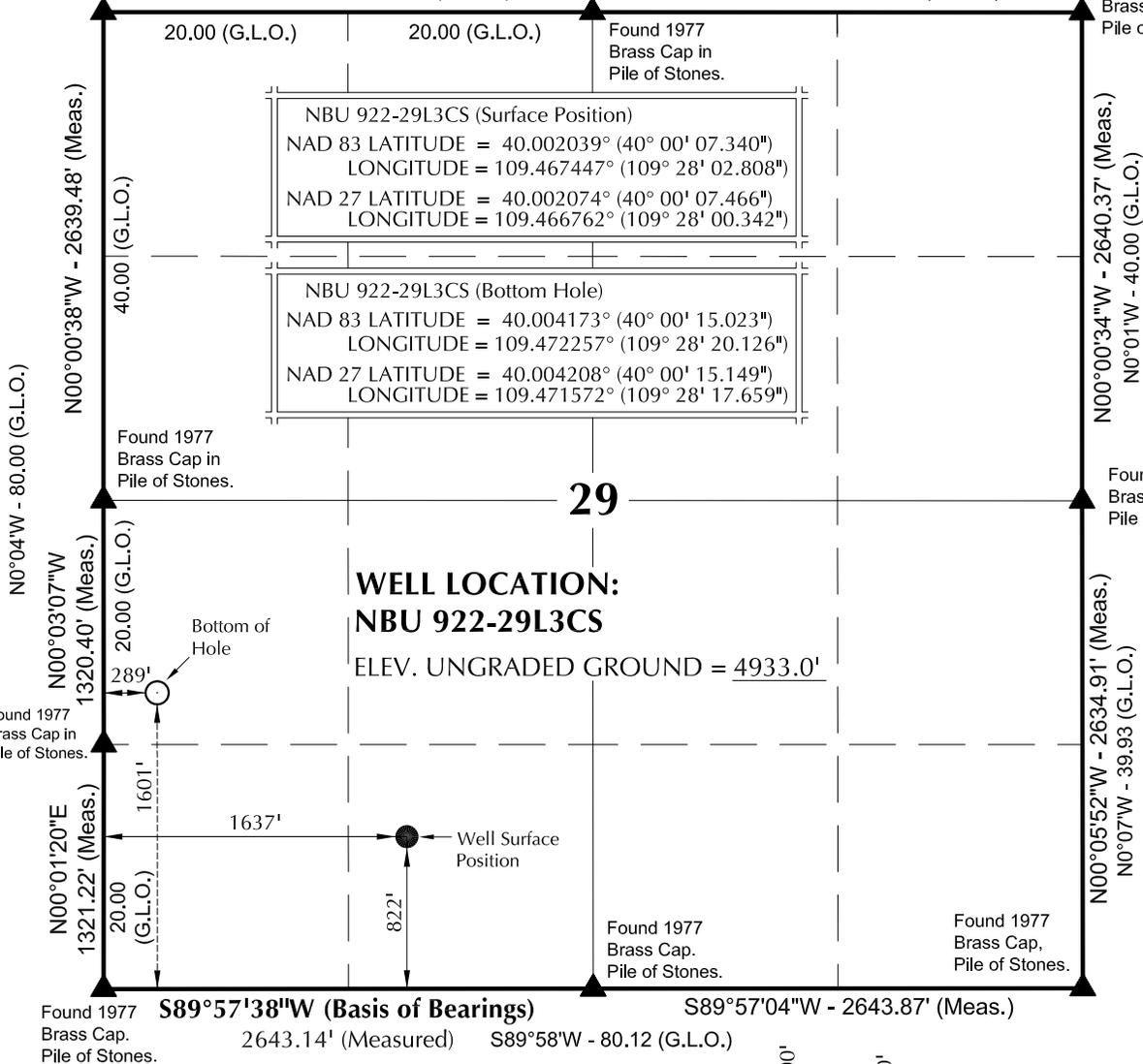
T9S, R22E, S.L.B.&M.

Found 1977
Brass Cap.
Pile of Stones.

S89°59'W - 40.00 (G.L.O.)
N89°59'26"W - 2640.07' (Meas.)

N89°59'W - 40.06 (G.L.O.)
N89°58'18"W - 2643.18' (Meas.)

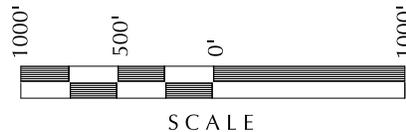
Found 1977
Brass Cap,
Pile of Stones.



Found 1977 Brass Cap, Pile of Stones. **S89°57'38"W (Basis of Bearings)** 2643.14' (Measured) **S89°58'W - 80.12 (G.L.O.)** Found 1977 Brass Cap, Pile of Stones.

NOTES:

- ▲ = Section Corners Located
- 1. Well footages are measured at right angles to the Section Lines.
- 2. G.L.O. distances are shown in feet or chains.
1 chain = 66 feet.
- 3. The Bottom of hole bears N60°01'00"W 1556.19' from the Surface Position.
- 4. Bearings are based on Global Positioning Satellite observations.
- 5. Basis of elevation is Tri-Sta "Two Water" located in the NW ¼ 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.

John R. Slough
No. 6028691
JOHN R. SLAUGH
PROFESSIONAL LAND SURVEYOR
REGISTRATION No. 6028691
STATE OF UTAH

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

WELL PAD: NBU 922-29N

**NBU 922-29L3CS
WELL PLAT**

1601' FSL, 289' FWL (Bottom Hole)
**NW ¼ SW ¼ OF SECTION 29, T9S, R22E,
S.L.B.&M., UTAH COUNTY, UTAH.**



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

TIMBERLINE

ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

DATE SURVEYED: 05-27-10	SURVEYED BY: M.S.B.	SHEET NO: 5
DATE DRAWN: 06-02-10	DRAWN BY: B.M.	
SCALE: 1" = 1000'		5 OF 18

WELL DETAILS: NBU 922-29L3CS

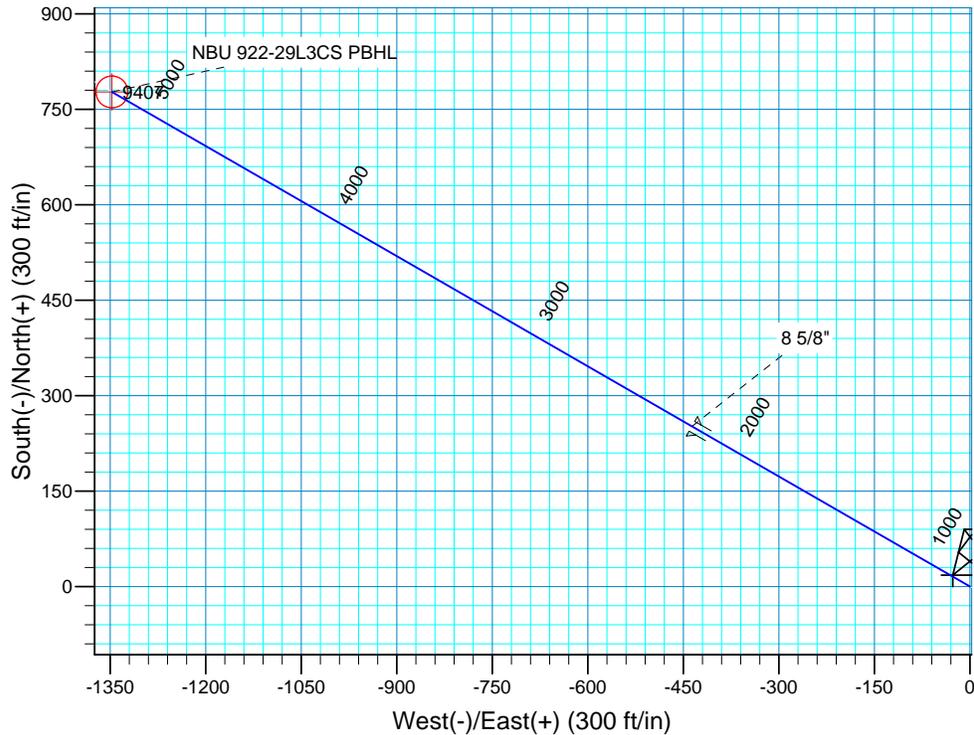
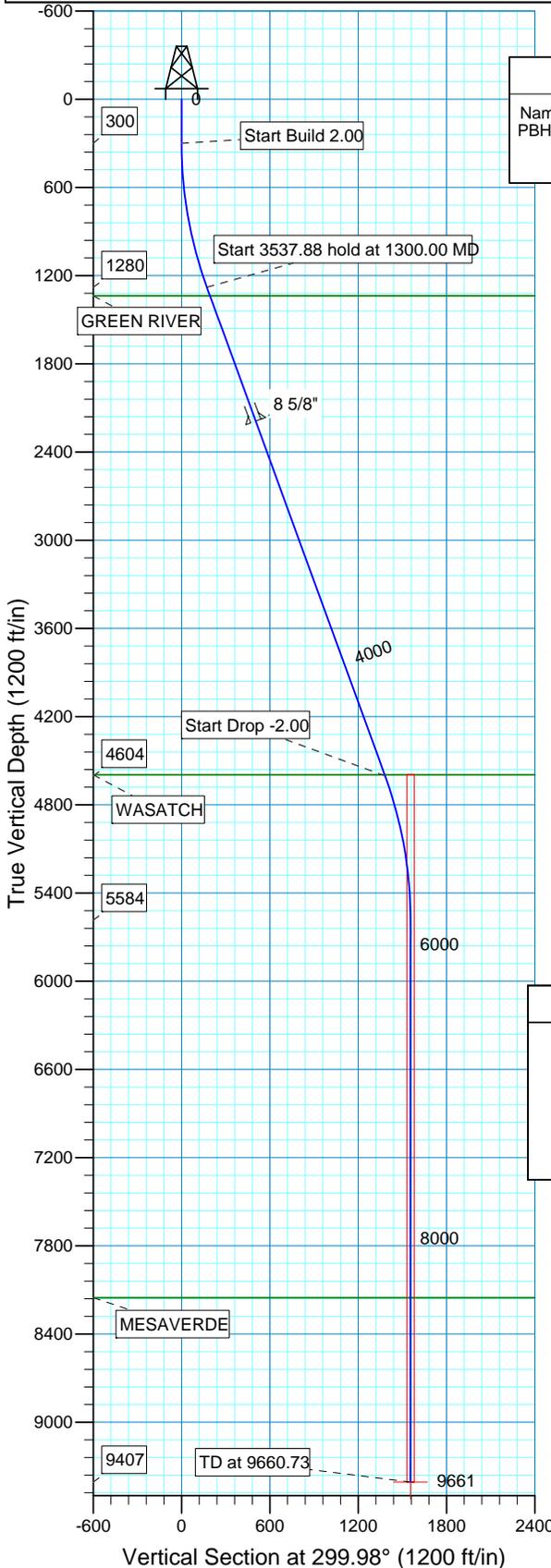
		GL 4932' & RKB 14' @ 4946.00ft (ASSUMED)		4932.00	
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	614274.28	2569531.54	40° 0' 7.466 N	109° 28' 0.343 W

T M Azimuths to True North
 Magnetic North: 11.16°

Magnetic Field
 Strength: 52458.1snT
 Dip Angle: 65.91°
 Date: 07/15/2010
 Model: IGRF200510

WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
PBHL	9407.00	777.34	-1347.41	615020.79	2568166.8140	0° 15.149 N	109° 28' 17.659 W	Circle (Radius: 25.0)



SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	
3	1300.00	20.00	299.98	1279.82	86.34	-149.65	2.00	299.98	172.77	
4	4837.88	20.00	299.98	4604.33	691.01	-1197.76	0.00	0.00	1382.79	
5	5837.88	0.00	0.00	5584.15	777.34	-1347.41	2.00	180.00	1555.56	
6	9660.73	0.00	0.00	9407.00	777.34	-1347.41	0.00	0.00	1555.56	NBU 922-29L3CS PBHL

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
1337.00	1360.85	GREEN RIVER
4596.00	4829.01	WASATCH
8153.00	8406.73	MESAVERDE

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 29 T9S R22E
 System Datum: Mean Sea Level
 Local North: No north reference data is available



Kerr McGee Oil and Gas Onshore LP

**Uintah County, UT NAD27
NBU 922-29N Pad
NBU 922-29L3CS
OH**

Plan: Plan #1

Standard Planning Report

15 July, 2010



SDI
Planning Report



Database:	EDM 2003.16 Single User Db	Local Co-ordinate Reference:	Well NBU 922-29L3CS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 4932' & RKB 14' @ 4946.00ft (ASSUMED)
Project:	Uintah County, UT NAD27	MD Reference:	GL 4932' & RKB 14' @ 4946.00ft (ASSUMED)
Site:	NBU 922-29N Pad	North Reference:	True
Well:	NBU 922-29L3CS	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 922-29N Pad, SEC 29 T9S R22E				
Site Position:		Northing:	614,282.16 ft	Latitude:	40° 0' 7.546 N
From:	Lat/Long	Easting:	2,569,525.48 ft	Longitude:	109° 28' 0.419 W
Position Uncertainty:	0.00 ft	Slot Radius:	in	Grid Convergence:	1.30 °

Well	NBU 922-29L3CS, 822' FSL 1637' FWL					
Well Position	+N/-S	0.00 ft	Northing:	614,274.28 ft	Latitude:	40° 0' 7.466 N
	+E/-W	0.00 ft	Easting:	2,569,531.54 ft	Longitude:	109° 28' 0.343 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	4,932.00 ft

Wellbore	OH
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	07/15/10	11.16	65.91	52,458

Design	Plan #1
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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 0.00 299.98

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	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,300.00	20.00	299.98	1,279.82	86.34	-149.65	2.00	2.00	0.00	299.98	
4,837.88	20.00	299.98	4,604.33	691.01	-1,197.76	0.00	0.00	0.00	0.00	
5,837.88	0.00	0.00	5,584.15	777.34	-1,347.41	2.00	-2.00	0.00	180.00	
9,660.73	0.00	0.00	9,407.00	777.34	-1,347.41	0.00	0.00	0.00	0.00	NBU 922-29L3CS F



Database:	EDM 2003.16 Single User Db	Local Co-ordinate Reference:	Well NBU 922-29L3CS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 4932' & RKB 14' @ 4946.00ft (ASSUMED)
Project:	Uintah County, UT NAD27	MD Reference:	GL 4932' & RKB 14' @ 4946.00ft (ASSUMED)
Site:	NBU 922-29N Pad	North Reference:	True
Well:	NBU 922-29L3CS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N-S (ft)	+E-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 2.00									
400.00	2.00	299.98	399.98	0.87	-1.51	1.75	2.00	2.00	0.00
500.00	4.00	299.98	499.84	3.49	-6.04	6.98	2.00	2.00	0.00
600.00	6.00	299.98	599.45	7.84	-13.59	15.69	2.00	2.00	0.00
700.00	8.00	299.98	698.70	13.93	-24.15	27.88	2.00	2.00	0.00
800.00	10.00	299.98	797.47	21.75	-37.70	43.52	2.00	2.00	0.00
900.00	12.00	299.98	895.62	31.28	-54.23	62.60	2.00	2.00	0.00
1,000.00	14.00	299.98	993.06	42.52	-73.71	85.10	2.00	2.00	0.00
1,100.00	16.00	299.98	1,089.64	55.46	-96.13	110.98	2.00	2.00	0.00
1,200.00	18.00	299.98	1,185.27	70.07	-121.45	140.21	2.00	2.00	0.00
1,300.00	20.00	299.98	1,279.82	86.34	-149.65	172.77	2.00	2.00	0.00
Start 3537.88 hold at 1300.00 MD									
1,360.85	20.00	299.98	1,337.00	96.74	-167.68	193.58	0.00	0.00	0.00
GREEN RIVER									
1,400.00	20.00	299.98	1,373.78	103.43	-179.28	206.97	0.00	0.00	0.00
1,500.00	20.00	299.98	1,467.75	120.52	-208.90	241.17	0.00	0.00	0.00
1,600.00	20.00	299.98	1,561.72	137.61	-238.53	275.37	0.00	0.00	0.00
1,700.00	20.00	299.98	1,655.69	154.70	-268.15	309.58	0.00	0.00	0.00
1,800.00	20.00	299.98	1,749.66	171.79	-297.78	343.78	0.00	0.00	0.00
1,900.00	20.00	299.98	1,843.63	188.88	-327.40	377.98	0.00	0.00	0.00
2,000.00	20.00	299.98	1,937.60	205.97	-357.03	412.18	0.00	0.00	0.00
2,100.00	20.00	299.98	2,031.57	223.07	-386.65	446.38	0.00	0.00	0.00
2,200.00	20.00	299.98	2,125.54	240.16	-416.28	480.59	0.00	0.00	0.00
2,268.60	20.00	299.98	2,190.00	251.88	-436.60	504.05	0.00	0.00	0.00
8 5/8"									
2,300.00	20.00	299.98	2,219.51	257.25	-445.90	514.79	0.00	0.00	0.00
2,400.00	20.00	299.98	2,313.48	274.34	-475.53	548.99	0.00	0.00	0.00
2,500.00	20.00	299.98	2,407.45	291.43	-505.15	583.19	0.00	0.00	0.00
2,600.00	20.00	299.98	2,501.42	308.52	-534.78	617.39	0.00	0.00	0.00
2,700.00	20.00	299.98	2,595.39	325.61	-564.41	651.60	0.00	0.00	0.00
2,800.00	20.00	299.98	2,689.35	342.71	-594.03	685.80	0.00	0.00	0.00
2,900.00	20.00	299.98	2,783.32	359.80	-623.66	720.00	0.00	0.00	0.00
3,000.00	20.00	299.98	2,877.29	376.89	-653.28	754.20	0.00	0.00	0.00
3,100.00	20.00	299.98	2,971.26	393.98	-682.91	788.40	0.00	0.00	0.00
3,200.00	20.00	299.98	3,065.23	411.07	-712.53	822.61	0.00	0.00	0.00
3,300.00	20.00	299.98	3,159.20	428.16	-742.16	856.81	0.00	0.00	0.00
3,400.00	20.00	299.98	3,253.17	445.25	-771.78	891.01	0.00	0.00	0.00
3,500.00	20.00	299.98	3,347.14	462.34	-801.41	925.21	0.00	0.00	0.00
3,600.00	20.00	299.98	3,441.11	479.44	-831.03	959.41	0.00	0.00	0.00
3,700.00	20.00	299.98	3,535.08	496.53	-860.66	993.62	0.00	0.00	0.00
3,800.00	20.00	299.98	3,629.05	513.62	-890.28	1,027.82	0.00	0.00	0.00
3,900.00	20.00	299.98	3,723.02	530.71	-919.91	1,062.02	0.00	0.00	0.00
4,000.00	20.00	299.98	3,816.99	547.80	-949.54	1,096.22	0.00	0.00	0.00
4,100.00	20.00	299.98	3,910.95	564.89	-979.16	1,130.42	0.00	0.00	0.00
4,200.00	20.00	299.98	4,004.92	581.98	-1,008.79	1,164.63	0.00	0.00	0.00
4,300.00	20.00	299.98	4,098.89	599.07	-1,038.41	1,198.83	0.00	0.00	0.00
4,400.00	20.00	299.98	4,192.86	616.17	-1,068.04	1,233.03	0.00	0.00	0.00
4,500.00	20.00	299.98	4,286.83	633.26	-1,097.66	1,267.23	0.00	0.00	0.00
4,600.00	20.00	299.98	4,380.80	650.35	-1,127.29	1,301.43	0.00	0.00	0.00



SDI
Planning Report



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Project:	Uintah County, UT NAD27	MD Reference:	GL 4932' & RKB 14' @ 4946.00ft (ASSUMED)
Site:	NBU 922-29N Pad	North Reference:	True
Well:	NBU 922-29L3CS	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)
4,700.00	20.00	299.98	4,474.77	667.44	-1,156.91	1,335.64	0.00	0.00	0.00
4,800.00	20.00	299.98	4,568.74	684.53	-1,186.54	1,369.84	0.00	0.00	0.00
4,829.01	20.00	299.98	4,596.00	689.49	-1,195.13	1,379.76	0.00	0.00	0.00
WASATCH									
4,837.88	20.00	299.98	4,604.33	691.01	-1,197.76	1,382.79	0.00	0.00	0.00
Start Drop -2.00									
4,900.00	18.76	299.98	4,662.93	701.31	-1,215.61	1,403.41	2.00	-2.00	0.00
5,000.00	16.76	299.98	4,758.17	716.55	-1,242.03	1,433.90	2.00	-2.00	0.00
5,100.00	14.76	299.98	4,854.40	730.12	-1,265.55	1,461.06	2.00	-2.00	0.00
5,200.00	12.76	299.98	4,951.53	742.00	-1,286.15	1,484.84	2.00	-2.00	0.00
5,300.00	10.76	299.98	5,049.43	752.18	-1,303.80	1,505.21	2.00	-2.00	0.00
5,400.00	8.76	299.98	5,147.97	760.65	-1,318.48	1,522.16	2.00	-2.00	0.00
5,500.00	6.76	299.98	5,247.05	767.39	-1,330.17	1,535.66	2.00	-2.00	0.00
5,600.00	4.76	299.98	5,346.54	772.41	-1,338.86	1,545.69	2.00	-2.00	0.00
5,700.00	2.76	299.98	5,446.32	775.68	-1,344.54	1,552.24	2.00	-2.00	0.00
5,800.00	0.76	299.98	5,546.27	777.21	-1,347.19	1,555.31	2.00	-2.00	0.00
5,837.88	0.00	0.00	5,584.15	777.34	-1,347.41	1,555.56	2.00	-2.00	0.00
Start 3822.85 hold at 5837.88 MD									
5,900.00	0.00	0.00	5,646.27	777.34	-1,347.41	1,555.56	0.00	0.00	0.00
6,000.00	0.00	0.00	5,746.27	777.34	-1,347.41	1,555.56	0.00	0.00	0.00
6,100.00	0.00	0.00	5,846.27	777.34	-1,347.41	1,555.56	0.00	0.00	0.00
6,200.00	0.00	0.00	5,946.27	777.34	-1,347.41	1,555.56	0.00	0.00	0.00
6,300.00	0.00	0.00	6,046.27	777.34	-1,347.41	1,555.56	0.00	0.00	0.00
6,400.00	0.00	0.00	6,146.27	777.34	-1,347.41	1,555.56	0.00	0.00	0.00
6,500.00	0.00	0.00	6,246.27	777.34	-1,347.41	1,555.56	0.00	0.00	0.00
6,600.00	0.00	0.00	6,346.27	777.34	-1,347.41	1,555.56	0.00	0.00	0.00
6,700.00	0.00	0.00	6,446.27	777.34	-1,347.41	1,555.56	0.00	0.00	0.00
6,800.00	0.00	0.00	6,546.27	777.34	-1,347.41	1,555.56	0.00	0.00	0.00
6,900.00	0.00	0.00	6,646.27	777.34	-1,347.41	1,555.56	0.00	0.00	0.00
7,000.00	0.00	0.00	6,746.27	777.34	-1,347.41	1,555.56	0.00	0.00	0.00
7,100.00	0.00	0.00	6,846.27	777.34	-1,347.41	1,555.56	0.00	0.00	0.00
7,200.00	0.00	0.00	6,946.27	777.34	-1,347.41	1,555.56	0.00	0.00	0.00
7,300.00	0.00	0.00	7,046.27	777.34	-1,347.41	1,555.56	0.00	0.00	0.00
7,400.00	0.00	0.00	7,146.27	777.34	-1,347.41	1,555.56	0.00	0.00	0.00
7,500.00	0.00	0.00	7,246.27	777.34	-1,347.41	1,555.56	0.00	0.00	0.00
7,600.00	0.00	0.00	7,346.27	777.34	-1,347.41	1,555.56	0.00	0.00	0.00
7,700.00	0.00	0.00	7,446.27	777.34	-1,347.41	1,555.56	0.00	0.00	0.00
7,800.00	0.00	0.00	7,546.27	777.34	-1,347.41	1,555.56	0.00	0.00	0.00
7,900.00	0.00	0.00	7,646.27	777.34	-1,347.41	1,555.56	0.00	0.00	0.00
8,000.00	0.00	0.00	7,746.27	777.34	-1,347.41	1,555.56	0.00	0.00	0.00
8,100.00	0.00	0.00	7,846.27	777.34	-1,347.41	1,555.56	0.00	0.00	0.00
8,200.00	0.00	0.00	7,946.27	777.34	-1,347.41	1,555.56	0.00	0.00	0.00
8,300.00	0.00	0.00	8,046.27	777.34	-1,347.41	1,555.56	0.00	0.00	0.00
8,400.00	0.00	0.00	8,146.27	777.34	-1,347.41	1,555.56	0.00	0.00	0.00
8,406.73	0.00	0.00	8,153.00	777.34	-1,347.41	1,555.56	0.00	0.00	0.00
MESAVERDE									
8,500.00	0.00	0.00	8,246.27	777.34	-1,347.41	1,555.56	0.00	0.00	0.00
8,600.00	0.00	0.00	8,346.27	777.34	-1,347.41	1,555.56	0.00	0.00	0.00
8,700.00	0.00	0.00	8,446.27	777.34	-1,347.41	1,555.56	0.00	0.00	0.00
8,800.00	0.00	0.00	8,546.27	777.34	-1,347.41	1,555.56	0.00	0.00	0.00
8,900.00	0.00	0.00	8,646.27	777.34	-1,347.41	1,555.56	0.00	0.00	0.00
9,000.00	0.00	0.00	8,746.27	777.34	-1,347.41	1,555.56	0.00	0.00	0.00
9,100.00	0.00	0.00	8,846.27	777.34	-1,347.41	1,555.56	0.00	0.00	0.00



SDI
Planning Report



Database:	EDM 2003.16 Single User Db	Local Co-ordinate Reference:	Well NBU 922-29L3CS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 4932' & RKB 14' @ 4946.00ft (ASSUMED)
Project:	Uintah County, UT NAD27	MD Reference:	GL 4932' & RKB 14' @ 4946.00ft (ASSUMED)
Site:	NBU 922-29N Pad	North Reference:	True
Well:	NBU 922-29L3CS	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)
9,200.00	0.00	0.00	8,946.27	777.34	-1,347.41	1,555.56	0.00	0.00	0.00
9,300.00	0.00	0.00	9,046.27	777.34	-1,347.41	1,555.56	0.00	0.00	0.00
9,400.00	0.00	0.00	9,146.27	777.34	-1,347.41	1,555.56	0.00	0.00	0.00
9,500.00	0.00	0.00	9,246.27	777.34	-1,347.41	1,555.56	0.00	0.00	0.00
9,600.00	0.00	0.00	9,346.27	777.34	-1,347.41	1,555.56	0.00	0.00	0.00
9,660.73	0.00	0.00	9,407.00	777.34	-1,347.41	1,555.56	0.00	0.00	0.00
TD at 9660.73 - NBU 922-29L3CS PBHL									

Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
NBU 922-29L3CS PB - hit/miss target - Shape - Circle (radius 25.00)	0.00	0.00	9,407.00	777.34	-1,347.41	615,020.79	2,568,166.81	40° 0' 15.149 N	109° 28' 17.659 W

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)	
2,268.60	2,190.00	8 5/8"	8.625	11.000	

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,360.85	1,337.00	GREEN RIVER			
8,406.73	8,153.00	MESAVERDE			
4,829.01	4,596.00	WASATCH			

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Comment	
300.00	300.00	0.00	0.00	Start Build 2.00	
1,300.00	1,279.82	86.34	-149.65	Start 3537.88 hold at 1300.00 MD	
4,837.88	4,604.33	691.01	-1,197.76	Start Drop -2.00	
5,837.88	5,584.15	777.34	-1,347.41	Start 3822.85 hold at 5837.88 MD	
9,660.73	9,407.00	777.34	-1,347.41	TD at 9660.73	



Kerr McGee Oil and Gas Onshore LP

**Uintah County, UT NAD27
NBU 922-29N Pad
NBU 922-29L3CS
OH**

Plan: Plan #1

Standard Planning Report - Geographic

15 July, 2010





SDI
Planning Report - Geographic



Database:	EDM 2003.16 Single User Db	Local Co-ordinate Reference:	Well NBU 922-29L3CS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 4932' & RKB 14' @ 4946.00ft (ASSUMED)
Project:	Uintah County, UT NAD27	MD Reference:	GL 4932' & RKB 14' @ 4946.00ft (ASSUMED)
Site:	NBU 922-29N Pad	North Reference:	True
Well:	NBU 922-29L3CS	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 922-29N Pad, SEC 29 T9S R22E				
Site Position:		Northing:	614,282.16 ft	Latitude:	40° 0' 7.546 N
From:	Lat/Long	Easting:	2,569,525.48 ft	Longitude:	109° 28' 0.419 W
Position Uncertainty:	0.00 ft	Slot Radius:	in	Grid Convergence:	1.30 °

Well	NBU 922-29L3CS, 822' FSL 1637' FWL					
Well Position	+N-S	0.00 ft	Northing:	614,274.28 ft	Latitude:	40° 0' 7.466 N
	+E-W	0.00 ft	Easting:	2,569,531.54 ft	Longitude:	109° 28' 0.343 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	4,932.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	07/15/10	11.16	65.91	52,458

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	299.98

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	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,300.00	20.00	299.98	1,279.82	86.34	-149.65	2.00	2.00	0.00	299.98	
4,837.88	20.00	299.98	4,604.33	691.01	-1,197.76	0.00	0.00	0.00	0.00	
5,837.88	0.00	0.00	5,584.15	777.34	-1,347.41	2.00	-2.00	0.00	180.00	
9,660.73	0.00	0.00	9,407.00	777.34	-1,347.41	0.00	0.00	0.00	0.00	NBU 922-29L3CS F



Database:	EDM 2003.16 Single User Db	Local Co-ordinate Reference:	Well NBU 922-29L3CS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 4932' & RKB 14' @ 4946.00ft (ASSUMED)
Project:	Uintah County, UT NAD27	MD Reference:	GL 4932' & RKB 14' @ 4946.00ft (ASSUMED)
Site:	NBU 922-29N Pad	North Reference:	True
Well:	NBU 922-29L3CS	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)	Map Northing (ft)	Map Easting (ft)	Latitude	Longitude
0.00	0.00	0.00	0.00	0.00	0.00	614,274.28	2,569,531.54	40° 0' 7.466 N	109° 28' 0.343 W
100.00	0.00	0.00	100.00	0.00	0.00	614,274.28	2,569,531.54	40° 0' 7.466 N	109° 28' 0.343 W
200.00	0.00	0.00	200.00	0.00	0.00	614,274.28	2,569,531.54	40° 0' 7.466 N	109° 28' 0.343 W
300.00	0.00	0.00	300.00	0.00	0.00	614,274.28	2,569,531.54	40° 0' 7.466 N	109° 28' 0.343 W
Start Build 2.00									
400.00	2.00	299.98	399.98	0.87	-1.51	614,275.11	2,569,530.01	40° 0' 7.475 N	109° 28' 0.363 W
500.00	4.00	299.98	499.84	3.49	-6.04	614,277.63	2,569,525.42	40° 0' 7.501 N	109° 28' 0.421 W
600.00	6.00	299.98	599.45	7.84	-13.59	614,281.81	2,569,517.77	40° 0' 7.544 N	109° 28' 0.518 W
700.00	8.00	299.98	698.70	13.93	-24.15	614,287.66	2,569,507.08	40° 0' 7.604 N	109° 28' 0.654 W
800.00	10.00	299.98	797.47	21.75	-37.70	614,295.16	2,569,493.36	40° 0' 7.681 N	109° 28' 0.828 W
900.00	12.00	299.98	895.62	31.28	-54.23	614,304.32	2,569,476.62	40° 0' 7.776 N	109° 28' 1.040 W
1,000.00	14.00	299.98	993.06	42.52	-73.71	614,315.11	2,569,456.88	40° 0' 7.887 N	109° 28' 1.290 W
1,100.00	16.00	299.98	1,089.64	55.46	-96.13	614,327.53	2,569,434.18	40° 0' 8.014 N	109° 28' 1.579 W
1,200.00	18.00	299.98	1,185.27	70.07	-121.45	614,341.56	2,569,408.53	40° 0' 8.159 N	109° 28' 1.904 W
1,300.00	20.00	299.98	1,279.82	86.34	-149.65	614,357.19	2,569,379.97	40° 0' 8.320 N	109° 28' 2.266 W
Start 3537.88 hold at 1300.00 MD									
1,360.85	20.00	299.98	1,337.00	96.74	-167.68	614,367.18	2,569,361.71	40° 0' 8.422 N	109° 28' 2.498 W
GREEN RIVER									
1,400.00	20.00	299.98	1,373.78	103.43	-179.28	614,373.60	2,569,349.96	40° 0' 8.489 N	109° 28' 2.647 W
1,500.00	20.00	299.98	1,467.75	120.52	-208.90	614,390.02	2,569,319.96	40° 0' 8.657 N	109° 28' 3.028 W
1,600.00	20.00	299.98	1,561.72	137.61	-238.53	614,406.43	2,569,289.95	40° 0' 8.826 N	109° 28' 3.408 W
1,700.00	20.00	299.98	1,655.69	154.70	-268.15	614,422.84	2,569,259.94	40° 0' 8.995 N	109° 28' 3.789 W
1,800.00	20.00	299.98	1,749.66	171.79	-297.78	614,439.26	2,569,229.94	40° 0' 9.164 N	109° 28' 4.170 W
1,900.00	20.00	299.98	1,843.63	188.88	-327.40	614,455.67	2,569,199.93	40° 0' 9.333 N	109° 28' 4.551 W
2,000.00	20.00	299.98	1,937.60	205.97	-357.03	614,472.08	2,569,169.92	40° 0' 9.502 N	109° 28' 4.931 W
2,100.00	20.00	299.98	2,031.57	223.07	-386.65	614,488.50	2,569,139.92	40° 0' 9.671 N	109° 28' 5.312 W
2,200.00	20.00	299.98	2,125.54	240.16	-416.28	614,504.91	2,569,109.91	40° 0' 9.840 N	109° 28' 5.693 W
2,268.60	20.00	299.98	2,190.00	251.88	-436.60	614,516.17	2,569,089.33	40° 0' 9.956 N	109° 28' 5.954 W
8 5/8"									
2,300.00	20.00	299.98	2,219.51	257.25	-445.90	614,521.32	2,569,079.91	40° 0' 10.009 N	109° 28' 6.074 W
2,400.00	20.00	299.98	2,313.48	274.34	-475.53	614,537.74	2,569,049.90	40° 0' 10.178 N	109° 28' 6.454 W
2,500.00	20.00	299.98	2,407.45	291.43	-505.15	614,554.15	2,569,019.89	40° 0' 10.347 N	109° 28' 6.835 W
2,600.00	20.00	299.98	2,501.42	308.52	-534.78	614,570.56	2,568,989.89	40° 0' 10.516 N	109° 28' 7.216 W
2,700.00	20.00	299.98	2,595.39	325.61	-564.41	614,586.98	2,568,959.88	40° 0' 10.684 N	109° 28' 7.596 W
2,800.00	20.00	299.98	2,689.35	342.71	-594.03	614,603.39	2,568,929.88	40° 0' 10.853 N	109° 28' 7.977 W
2,900.00	20.00	299.98	2,783.32	359.80	-623.66	614,619.80	2,568,899.87	40° 0' 11.022 N	109° 28' 8.358 W
3,000.00	20.00	299.98	2,877.29	376.89	-653.28	614,636.22	2,568,869.86	40° 0' 11.191 N	109° 28' 8.739 W
3,100.00	20.00	299.98	2,971.26	393.98	-682.91	614,652.63	2,568,839.86	40° 0' 11.360 N	109° 28' 9.119 W
3,200.00	20.00	299.98	3,065.23	411.07	-712.53	614,669.04	2,568,809.85	40° 0' 11.529 N	109° 28' 9.500 W
3,300.00	20.00	299.98	3,159.20	428.16	-742.16	614,685.46	2,568,779.84	40° 0' 11.698 N	109° 28' 9.881 W
3,400.00	20.00	299.98	3,253.17	445.25	-771.78	614,701.87	2,568,749.84	40° 0' 11.867 N	109° 28' 10.262 W
3,500.00	20.00	299.98	3,347.14	462.34	-801.41	614,718.28	2,568,719.83	40° 0' 12.036 N	109° 28' 10.642 W
3,600.00	20.00	299.98	3,441.11	479.44	-831.03	614,734.70	2,568,689.83	40° 0' 12.205 N	109° 28' 11.023 W
3,700.00	20.00	299.98	3,535.08	496.53	-860.66	614,751.11	2,568,659.82	40° 0' 12.374 N	109° 28' 11.404 W
3,800.00	20.00	299.98	3,629.05	513.62	-890.28	614,767.53	2,568,629.81	40° 0' 12.542 N	109° 28' 11.784 W
3,900.00	20.00	299.98	3,723.02	530.71	-919.91	614,783.94	2,568,599.81	40° 0' 12.711 N	109° 28' 12.165 W
4,000.00	20.00	299.98	3,816.99	547.80	-949.54	614,800.35	2,568,569.80	40° 0' 12.880 N	109° 28' 12.546 W
4,100.00	20.00	299.98	3,910.95	564.89	-979.16	614,816.77	2,568,539.80	40° 0' 13.049 N	109° 28' 12.927 W
4,200.00	20.00	299.98	4,004.92	581.98	-1,008.79	614,833.18	2,568,509.79	40° 0' 13.218 N	109° 28' 13.307 W
4,300.00	20.00	299.98	4,098.89	599.07	-1,038.41	614,849.59	2,568,479.78	40° 0' 13.387 N	109° 28' 13.688 W
4,400.00	20.00	299.98	4,192.86	616.17	-1,068.04	614,866.01	2,568,449.78	40° 0' 13.556 N	109° 28' 14.069 W
4,500.00	20.00	299.98	4,286.83	633.26	-1,097.66	614,882.42	2,568,419.77	40° 0' 13.725 N	109° 28' 14.450 W
4,600.00	20.00	299.98	4,380.80	650.35	-1,127.29	614,898.83	2,568,389.76	40° 0' 13.894 N	109° 28' 14.830 W
4,700.00	20.00	299.98	4,474.77	667.44	-1,156.91	614,915.25	2,568,359.76	40° 0' 14.063 N	109° 28' 15.211 W



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Project:	Uintah County, UT NAD27	MD Reference:	GL 4932' & RKB 14' @ 4946.00ft (ASSUMED)
Site:	NBU 922-29N Pad	North Reference:	True
Well:	NBU 922-29L3CS	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)	Map Northing (ft)	Map Easting (ft)	Latitude	Longitude
4,800.00	20.00	299.98	4,568.74	684.53	-1,186.54	614,931.66	2,568,329.75	40° 0' 14.232 N	109° 28' 15.592 W
4,829.01	20.00	299.98	4,596.00	689.49	-1,195.13	614,936.42	2,568,321.05	40° 0' 14.281 N	109° 28' 15.702 W
WASATCH									
4,837.88	20.00	299.98	4,604.33	691.01	-1,197.76	614,937.88	2,568,318.39	40° 0' 14.296 N	109° 28' 15.736 W
Start Drop -2.00									
4,900.00	18.76	299.98	4,662.93	701.31	-1,215.61	614,947.77	2,568,300.30	40° 0' 14.397 N	109° 28' 15.965 W
5,000.00	16.76	299.98	4,758.17	716.55	-1,242.03	614,962.40	2,568,273.55	40° 0' 14.548 N	109° 28' 16.305 W
5,100.00	14.76	299.98	4,854.40	730.12	-1,265.55	614,975.44	2,568,249.72	40° 0' 14.682 N	109° 28' 16.607 W
5,200.00	12.76	299.98	4,951.53	742.00	-1,286.15	614,986.85	2,568,228.86	40° 0' 14.799 N	109° 28' 16.872 W
5,300.00	10.76	299.98	5,049.43	752.18	-1,303.80	614,996.63	2,568,210.98	40° 0' 14.900 N	109° 28' 17.099 W
5,400.00	8.76	299.98	5,147.97	760.65	-1,318.48	615,004.76	2,568,196.12	40° 0' 14.984 N	109° 28' 17.287 W
5,500.00	6.76	299.98	5,247.05	767.39	-1,330.17	615,011.24	2,568,184.27	40° 0' 15.050 N	109° 28' 17.438 W
5,600.00	4.76	299.98	5,346.54	772.41	-1,338.86	615,016.05	2,568,175.47	40° 0' 15.100 N	109° 28' 17.549 W
5,700.00	2.76	299.98	5,446.32	775.68	-1,344.54	615,019.20	2,568,169.72	40° 0' 15.132 N	109° 28' 17.622 W
5,800.00	0.76	299.98	5,546.27	777.21	-1,347.19	615,020.67	2,568,167.03	40° 0' 15.148 N	109° 28' 17.656 W
5,837.88	0.00	0.00	5,584.15	777.34	-1,347.41	615,020.79	2,568,166.81	40° 0' 15.149 N	109° 28' 17.659 W
Start 3822.85 hold at 5837.88 MD									
5,900.00	0.00	0.00	5,646.27	777.34	-1,347.41	615,020.79	2,568,166.81	40° 0' 15.149 N	109° 28' 17.659 W
6,000.00	0.00	0.00	5,746.27	777.34	-1,347.41	615,020.79	2,568,166.81	40° 0' 15.149 N	109° 28' 17.659 W
6,100.00	0.00	0.00	5,846.27	777.34	-1,347.41	615,020.79	2,568,166.81	40° 0' 15.149 N	109° 28' 17.659 W
6,200.00	0.00	0.00	5,946.27	777.34	-1,347.41	615,020.79	2,568,166.81	40° 0' 15.149 N	109° 28' 17.659 W
6,300.00	0.00	0.00	6,046.27	777.34	-1,347.41	615,020.79	2,568,166.81	40° 0' 15.149 N	109° 28' 17.659 W
6,400.00	0.00	0.00	6,146.27	777.34	-1,347.41	615,020.79	2,568,166.81	40° 0' 15.149 N	109° 28' 17.659 W
6,500.00	0.00	0.00	6,246.27	777.34	-1,347.41	615,020.79	2,568,166.81	40° 0' 15.149 N	109° 28' 17.659 W
6,600.00	0.00	0.00	6,346.27	777.34	-1,347.41	615,020.79	2,568,166.81	40° 0' 15.149 N	109° 28' 17.659 W
6,700.00	0.00	0.00	6,446.27	777.34	-1,347.41	615,020.79	2,568,166.81	40° 0' 15.149 N	109° 28' 17.659 W
6,800.00	0.00	0.00	6,546.27	777.34	-1,347.41	615,020.79	2,568,166.81	40° 0' 15.149 N	109° 28' 17.659 W
6,900.00	0.00	0.00	6,646.27	777.34	-1,347.41	615,020.79	2,568,166.81	40° 0' 15.149 N	109° 28' 17.659 W
7,000.00	0.00	0.00	6,746.27	777.34	-1,347.41	615,020.79	2,568,166.81	40° 0' 15.149 N	109° 28' 17.659 W
7,100.00	0.00	0.00	6,846.27	777.34	-1,347.41	615,020.79	2,568,166.81	40° 0' 15.149 N	109° 28' 17.659 W
7,200.00	0.00	0.00	6,946.27	777.34	-1,347.41	615,020.79	2,568,166.81	40° 0' 15.149 N	109° 28' 17.659 W
7,300.00	0.00	0.00	7,046.27	777.34	-1,347.41	615,020.79	2,568,166.81	40° 0' 15.149 N	109° 28' 17.659 W
7,400.00	0.00	0.00	7,146.27	777.34	-1,347.41	615,020.79	2,568,166.81	40° 0' 15.149 N	109° 28' 17.659 W
7,500.00	0.00	0.00	7,246.27	777.34	-1,347.41	615,020.79	2,568,166.81	40° 0' 15.149 N	109° 28' 17.659 W
7,600.00	0.00	0.00	7,346.27	777.34	-1,347.41	615,020.79	2,568,166.81	40° 0' 15.149 N	109° 28' 17.659 W
7,700.00	0.00	0.00	7,446.27	777.34	-1,347.41	615,020.79	2,568,166.81	40° 0' 15.149 N	109° 28' 17.659 W
7,800.00	0.00	0.00	7,546.27	777.34	-1,347.41	615,020.79	2,568,166.81	40° 0' 15.149 N	109° 28' 17.659 W
7,900.00	0.00	0.00	7,646.27	777.34	-1,347.41	615,020.79	2,568,166.81	40° 0' 15.149 N	109° 28' 17.659 W
8,000.00	0.00	0.00	7,746.27	777.34	-1,347.41	615,020.79	2,568,166.81	40° 0' 15.149 N	109° 28' 17.659 W
8,100.00	0.00	0.00	7,846.27	777.34	-1,347.41	615,020.79	2,568,166.81	40° 0' 15.149 N	109° 28' 17.659 W
8,200.00	0.00	0.00	7,946.27	777.34	-1,347.41	615,020.79	2,568,166.81	40° 0' 15.149 N	109° 28' 17.659 W
8,300.00	0.00	0.00	8,046.27	777.34	-1,347.41	615,020.79	2,568,166.81	40° 0' 15.149 N	109° 28' 17.659 W
8,400.00	0.00	0.00	8,146.27	777.34	-1,347.41	615,020.79	2,568,166.81	40° 0' 15.149 N	109° 28' 17.659 W
8,406.73	0.00	0.00	8,153.00	777.34	-1,347.41	615,020.79	2,568,166.81	40° 0' 15.149 N	109° 28' 17.659 W
MESAVERDE									
8,500.00	0.00	0.00	8,246.27	777.34	-1,347.41	615,020.79	2,568,166.81	40° 0' 15.149 N	109° 28' 17.659 W
8,600.00	0.00	0.00	8,346.27	777.34	-1,347.41	615,020.79	2,568,166.81	40° 0' 15.149 N	109° 28' 17.659 W
8,700.00	0.00	0.00	8,446.27	777.34	-1,347.41	615,020.79	2,568,166.81	40° 0' 15.149 N	109° 28' 17.659 W
8,800.00	0.00	0.00	8,546.27	777.34	-1,347.41	615,020.79	2,568,166.81	40° 0' 15.149 N	109° 28' 17.659 W
8,900.00	0.00	0.00	8,646.27	777.34	-1,347.41	615,020.79	2,568,166.81	40° 0' 15.149 N	109° 28' 17.659 W
9,000.00	0.00	0.00	8,746.27	777.34	-1,347.41	615,020.79	2,568,166.81	40° 0' 15.149 N	109° 28' 17.659 W
9,100.00	0.00	0.00	8,846.27	777.34	-1,347.41	615,020.79	2,568,166.81	40° 0' 15.149 N	109° 28' 17.659 W
9,200.00	0.00	0.00	8,946.27	777.34	-1,347.41	615,020.79	2,568,166.81	40° 0' 15.149 N	109° 28' 17.659 W
9,300.00	0.00	0.00	9,046.27	777.34	-1,347.41	615,020.79	2,568,166.81	40° 0' 15.149 N	109° 28' 17.659 W



Database:	EDM 2003.16 Single User Db	Local Co-ordinate Reference:	Well NBU 922-29L3CS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 4932' & RKB 14' @ 4946.00ft (ASSUMED)
Project:	Uintah County, UT NAD27	MD Reference:	GL 4932' & RKB 14' @ 4946.00ft (ASSUMED)
Site:	NBU 922-29N Pad	North Reference:	True
Well:	NBU 922-29L3CS	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)	Map Northing (ft)	Map Easting (ft)	Latitude	Longitude
9,400.00	0.00	0.00	9,146.27	777.34	-1,347.41	615,020.79	2,568,166.81	40° 0' 15.149 N	109° 28' 17.659 W
9,500.00	0.00	0.00	9,246.27	777.34	-1,347.41	615,020.79	2,568,166.81	40° 0' 15.149 N	109° 28' 17.659 W
9,600.00	0.00	0.00	9,346.27	777.34	-1,347.41	615,020.79	2,568,166.81	40° 0' 15.149 N	109° 28' 17.659 W
9,660.73	0.00	0.00	9,407.00	777.34	-1,347.41	615,020.79	2,568,166.81	40° 0' 15.149 N	109° 28' 17.659 W
TD at 9660.73 - NBU 922-29L3CS PBHL									

Targets										
Target Name	- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
NBU 922-29L3CS PB	- plan hits target center	0.00	0.00	9,407.00	777.34	-1,347.41	615,020.79	2,568,166.81	40° 0' 15.149 N	109° 28' 17.659 W
	- Circle (radius 25.00)									

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)	
2,268.60	2,190.00	8 5/8"	8.625	11.000	

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,360.85	1,337.00	GREEN RIVER			
8,406.73	8,153.00	MESAVERDE			
4,829.01	4,596.00	WASATCH			

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Comment	
300.00	300.00	0.00	0.00	Start Build 2.00	
1,300.00	1,279.82	86.34	-149.65	Start 3537.88 hold at 1300.00 MD	
4,837.88	4,604.33	691.01	-1,197.76	Start Drop -2.00	
5,837.88	5,584.15	777.34	-1,347.41	Start 3822.85 hold at 5837.88 MD	
9,660.73	9,407.00	777.34	-1,347.41	TD at 9660.73	

NBU 922-29L3CS

Pad: NBU 922-29N

Surface: 822' FSL 1,637' FWL (SE/4SW/4)

BHL: 1,601' FSL 289' FWL (NW/4SW/4)

Section 29 T9S R22E

Uintah County, Utah

Mineral Lease: ML 22935

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	1,337'	
Birds Nest	1,659'	Water
Mahogany	2,043'	Water
Wasatch	4,596'	Gas
Mesaverde	7,163'	Gas
MVU2	8,153'	Gas
MVL1	8,682'	Gas
TVD	9,407'	
TD	9,661'	

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

Please refer to the attached Drilling Program.

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

Please refer to the attached Drilling Program.

5. **Drilling Fluids Program:**

Please refer to the attached Drilling Program.

6. **Evaluation Program:**

Please refer to the attached Drilling Program.

7. Abnormal Conditions:

Maximum anticipated bottomhole pressure calculated at 9,407' TVD, approximately equals 5,763 psi (calculated at 0.61 psi/foot).

Maximum anticipated surface pressure equals approximately 3,694 psi (bottomhole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

8. Anticipated Starting Dates:

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

9. Variances:

Please refer to the attached Drilling Program.

Onshore Order #2 – Air Drilling Variance

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

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

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

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

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

Background

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

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

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

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

Variance for BOPE Requirements

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

Variance for Mud Material Requirements

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

Variance for Special Drilling Operation (surface equipment placement) Requirements

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

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

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

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

Conclusion

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

10. Other Information:

Please refer to the attached Drilling Program.



KERR-McGEE OIL & GAS ONSHORE LP DRILLING PROGRAM

CASING PROGRAM

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS		
						BURST	COLLAPSE	TENSION
CONDUCTOR	14"	0-40'				3,390	1,880	348,000
SURFACE	8-5/8"	0 to 2,290	28.00	IJ-55	LTC	0.87	1.75	5.37
PRODUCTION	4-1/2"	0 to 9,661	11.60	I-80	BTC	2.05	1.08	2.84

*Burst on surface casing is controlled by fracture gradient as shoe with gas gradient above. D.F. = 2.35

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 3,694 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 5,763 psi

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE	LEAD	500'	Premium cmt + 2% CaCl + 0.25 pps flocele	180	60%	15.80	1.15
Option 1							
	TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt + 2% CaCl + 0.25 pps flocele	270	0%	15.80	1.15
SURFACE			NOTE: If well will circulate water to surface, option 2 will be utilized				
Option 2	LEAD	1,790'	65/35 Poz + 6% Gel + 10 pps gilsonite + 0.25 pps Flocele + 3% salt BWOW	170	35%	11.00	3.82
	TAIL	500'	Premium cmt + 2% CaCl + 0.25 pps flocele	150	35%	15.80	1.15
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.80	1.15
PRODUCTION	LEAD	4,091'	Premium Lite II +0.25 pps celloflake + 5 pps gilsonite + 10% gel + 0.5% extender	300	10%	11.00	3.38
	TAIL	5,570'	50/50 Poz/G + 10% salt + 2% gel + 0.1% R-3	1,070	10%	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.

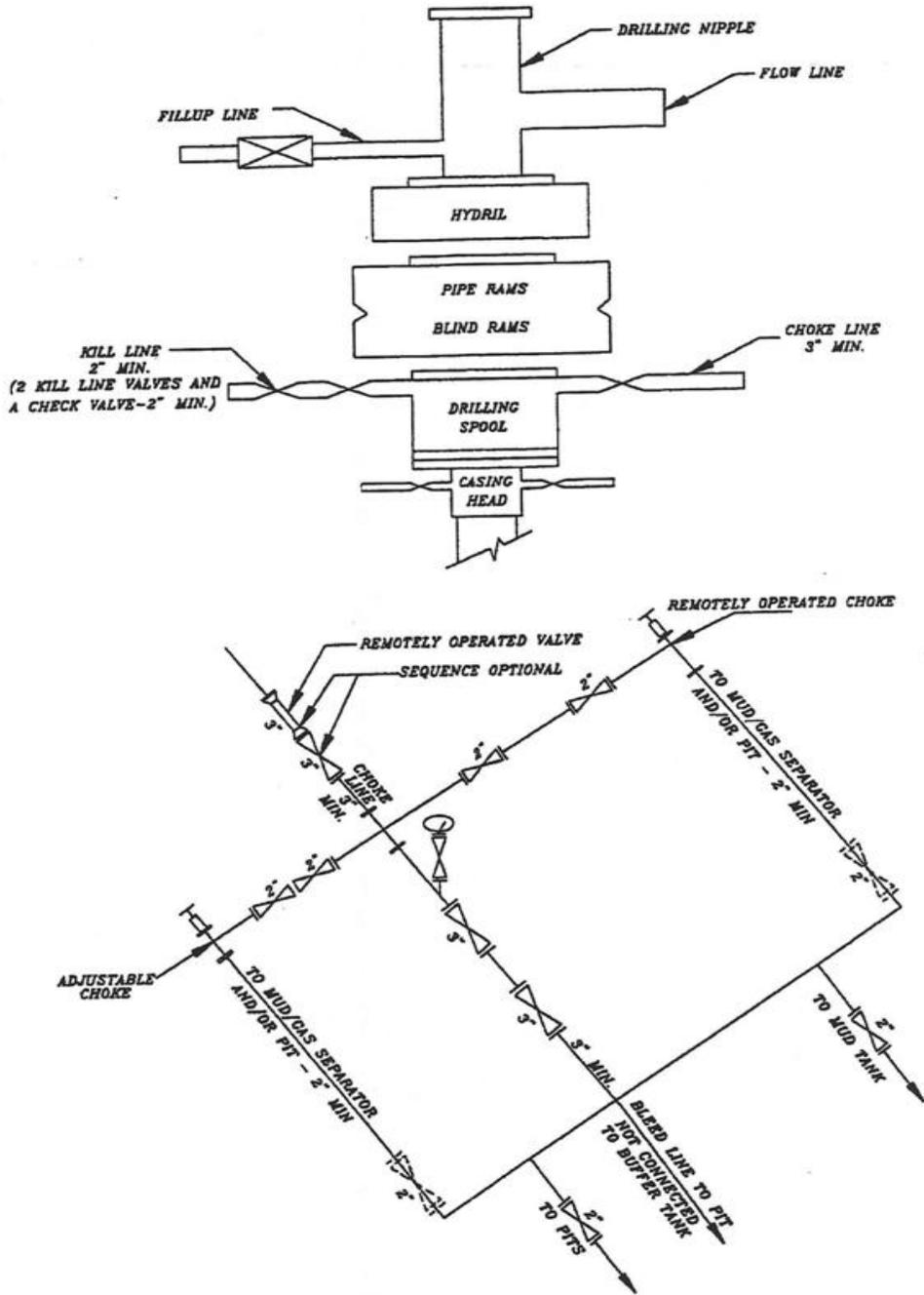
Surveys will be taken at 1,000' minimum intervals.

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 922-29L3CS

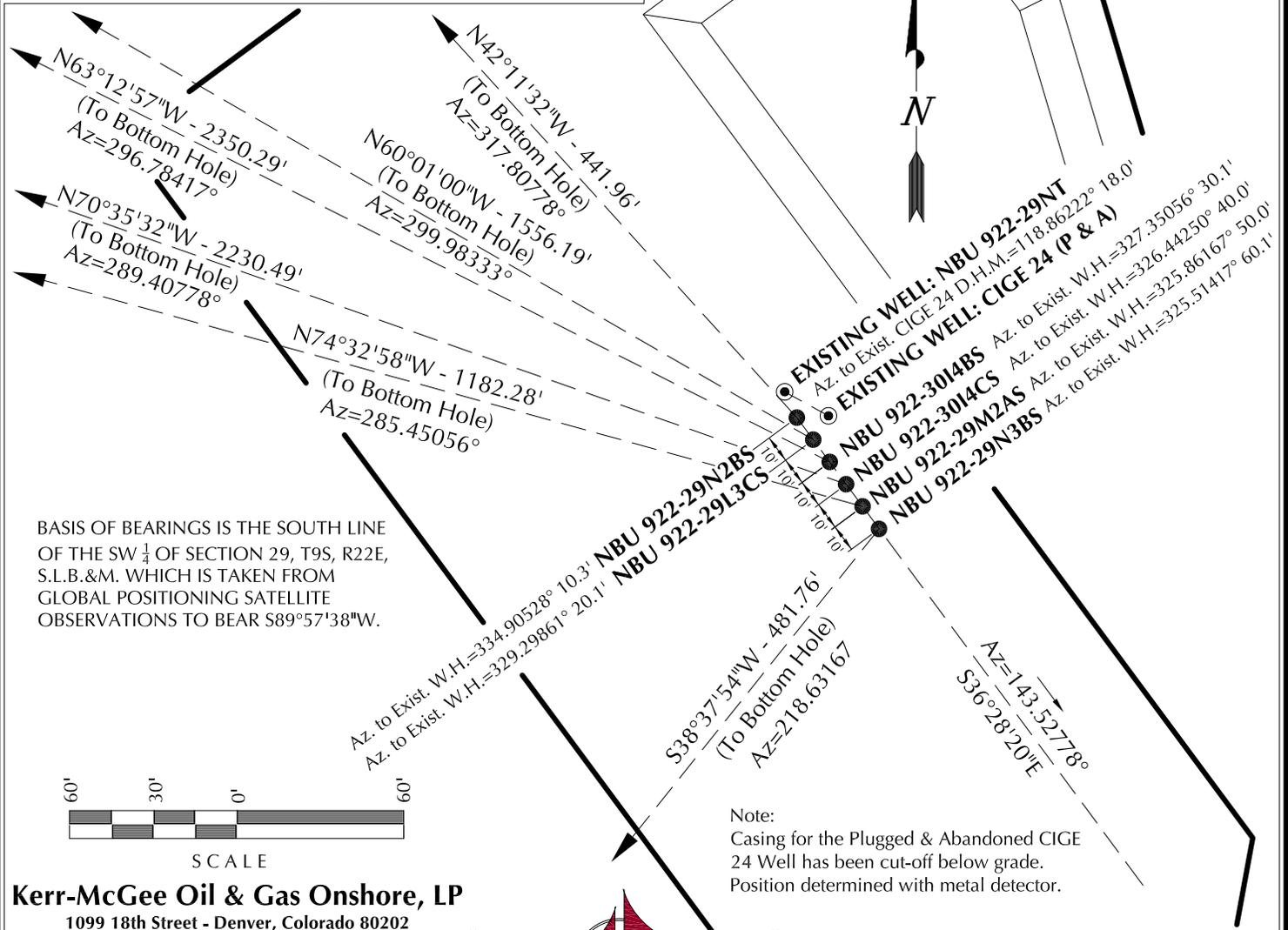


SCHEMATIC DIAGRAM OF 5,000 PSI BOP STACK

WELL NAME	SURFACE POSITION					BOTTOM HOLE				
	NAD83		NAD27		FOOTAGES	NAD83		NAD27		FOOTAGES
	LATITUDE	LONGITUDE	LATITUDE	LONGITUDE		LATITUDE	LONGITUDE	LATITUDE	LONGITUDE	
NBU 922-29N3BS	40°00'07.022"	109°28'02.503"	40°00'07.148"	109°28'00.037"	790' FSL	40°00'03.304"	109°28'06.367"	40°00'03.429"	109°28'03.901"	414' FSL
NBU 922-29M2AS	40°00'07.102"	109°28'02.579"	40°00'07.228"	109°28'00.114"	798' FSL	40°00'10.213"	109°28'17.219"	40°00'10.339"	109°28'14.753"	1114' FSL
NBU 922-30I4CS	40°00'07.181"	109°28'02.656"	40°00'07.307"	109°28'00.190"	806' FSL	40°00'14.502"	109°28'29.683"	40°00'14.628"	109°28'27.216"	1550' FSL
NBU 922-30I4BS	40°00'07.261"	109°28'02.732"	40°00'07.387"	109°28'00.266"	814' FSL	40°00'17.723"	109°28'29.687"	40°00'17.849"	109°28'17.220"	1876' FSL
NBU 922-29L3CS	40°00'07.340"	109°28'02.808"	40°00'07.466"	109°28'00.342"	822' FSL	40°00'15.023"	109°28'20.126"	40°00'15.149"	109°28'17.659"	1601' FSL
NBU 922-29N2BS	40°00'07.419"	109°28'02.884"	40°00'07.545"	109°28'00.418"	830' FSL	40°00'10.654"	109°28'06.697"	40°00'10.780"	109°28'04.231"	1158' FSL
NBU 922-29NT	40°00'07.511"	109°28'02.940"	40°00'07.637"	109°28'00.474"	840' FSL	40°00'20.959"	109.468527°	40.002994°	109.467842°	1334' FSL
CIGE 24	40°00'07.425"	109°28'02.737"	40°00'07.551"	109°28'00.272"	831' FSL					
	40.002063°	109.467427°	40.002097°	109.466742°	1642' FWL					

RELATIVE COORDINATES - From Surface Position to Bottom Hole

WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST
NBU 922-29N3BS	-376.3'	-300.8'	NBU 922-29M2AS	315.0'	-1139.6'	NBU 922-30I4CS	741.2'	-2103.7'	NBU 922-30I4BS	1059.1'	-2098.1'
NBU 922-29L3CS	777.7'	-1347.9'	NBU 922-29N2BS	327.4'	-296.8'						



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

WELL PAD - NBU 922-29N

WELL PAD INTERFERENCE PLAT
WELLS - NBU 922-29N3BS, NBU 922-29M2AS, NBU 922-30I4CS, NBU 922-30I4BS, NBU 922-29L3CS & NBU 922-29N2BS LOCATED IN SECTION 29, T9S, R22E, S.L.B.&M., UINTAH COUNTY, UTAH.

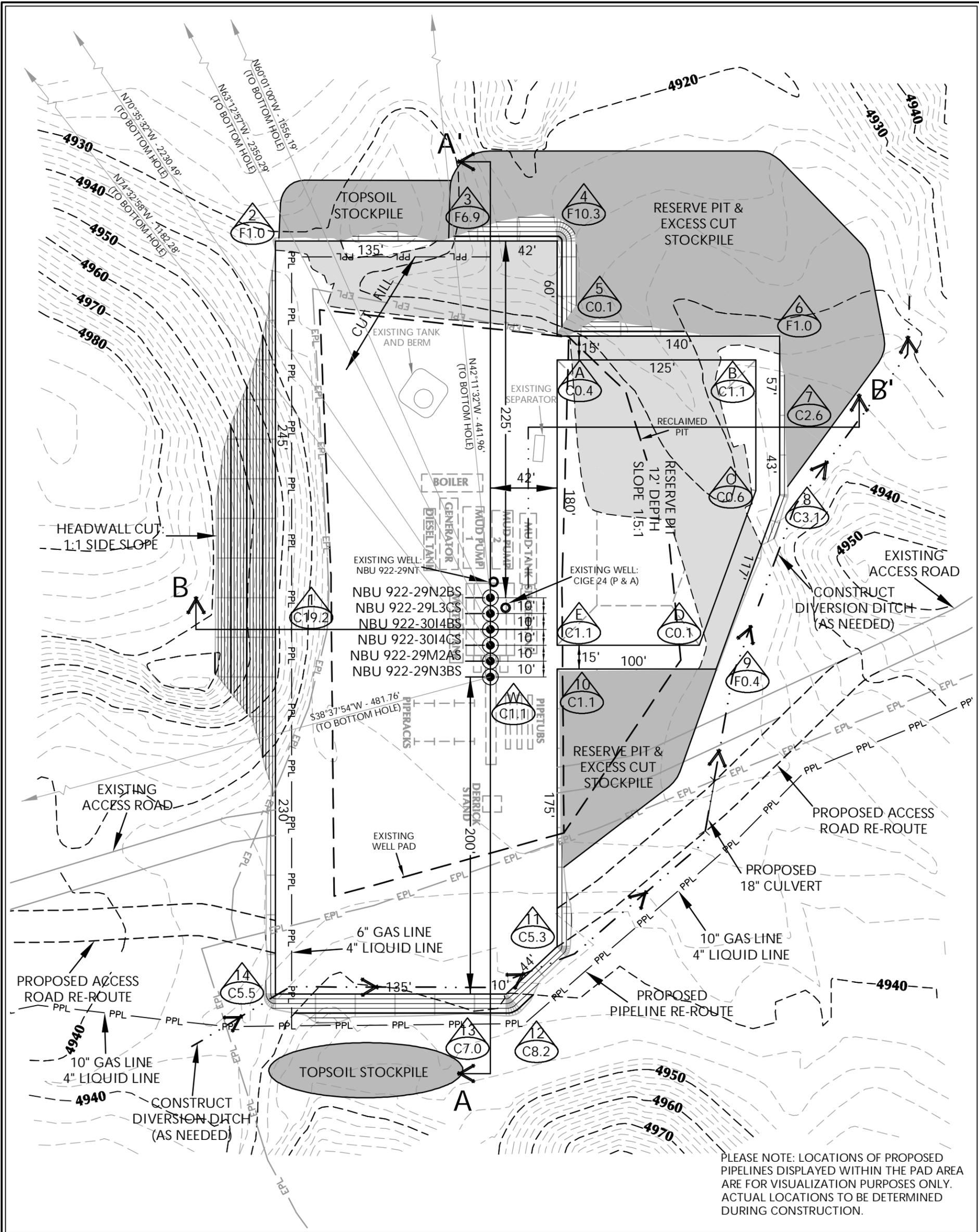
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Fax 307-674-0182

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ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

DATE SURVEYED: 05-27-10	SURVEYED BY: M.S.B.	SHEET NO: 7
DATE DRAWN: 06-02-10	DRAWN BY: B.M.	
SCALE: 1" = 60'		Date Last Revised: 09-01-10 E.M.S.

7 OF 18



WELL PAD - NBU 922-29N DESIGN SUMMARY

EXISTING GRADE @ CENTER OF WELL PAD = 4933.1'
 FINISHED GRADE ELEVATION = 4932.0'
 CUT SLOPES = VARY
 FILL SLOPES = 1.5:1
 TOTAL WELL PAD AREA = 2.89 ACRES
 TOTAL DAMAGE AREA = 5.98 ACRES
 SHRINKAGE FACTOR = 1.10
 SWELL FACTOR = 1.00

WELL PAD QUANTITIES

TOTAL CUT FOR WELL PAD = 10,525 C.Y.
 TOTAL FILL FOR WELL PAD = 2,639 C.Y.
 TOPSOIL @ 6" DEPTH = 1,402 C.Y.
 EXCESS MATERIAL = 7,886 C.Y.

RESERVE PIT QUANTITIES

TOTAL CUT FOR RESERVE PIT +/- 7,100 CY
 RESERVE PIT CAPACITY (2' OF FREEBOARD) +/- 27,030 BARRELS

WELL PAD LEGEND

- EXISTING WELL LOCATION
- PROPOSED WELL LOCATION
- PROPOSED BOTTOM HOLE LOCATION
- EXISTING CONTOURS (2' INTERVAL)
- PROPOSED CONTOURS (2' INTERVAL)
- PROPOSED PIPELINE
- EXISTING PIPELINE



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

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

WELL PAD - NBU 922-29N

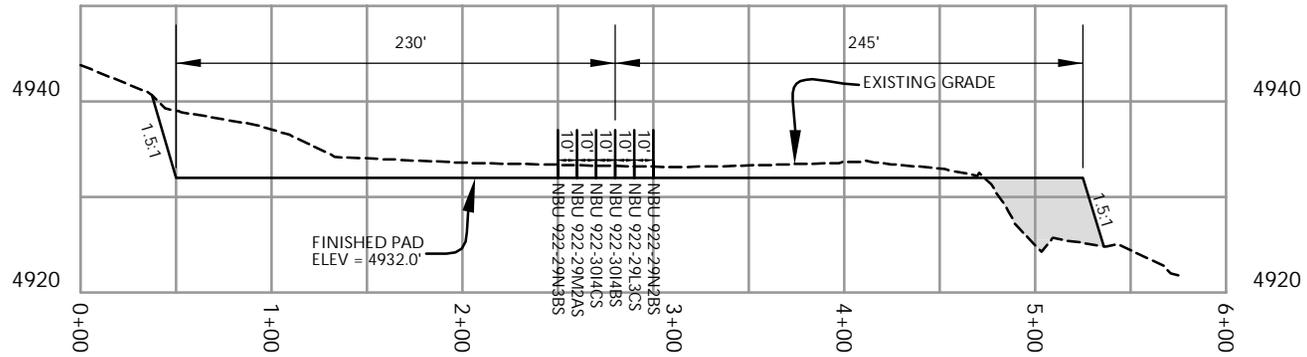
WELL PAD - LOCATION LAYOUT
 NBU 922-29N3BS, NBU 922-29M2AS,
 NBU 922-30I4CS, NBU 922-30I4BS,
 NBU 922-29L3CS & NBU 922-29N2BS
 LOCATED IN SECTION 29, T9S, R22E,
 S.L.B.&M., UINTAH COUNTY, UTAH



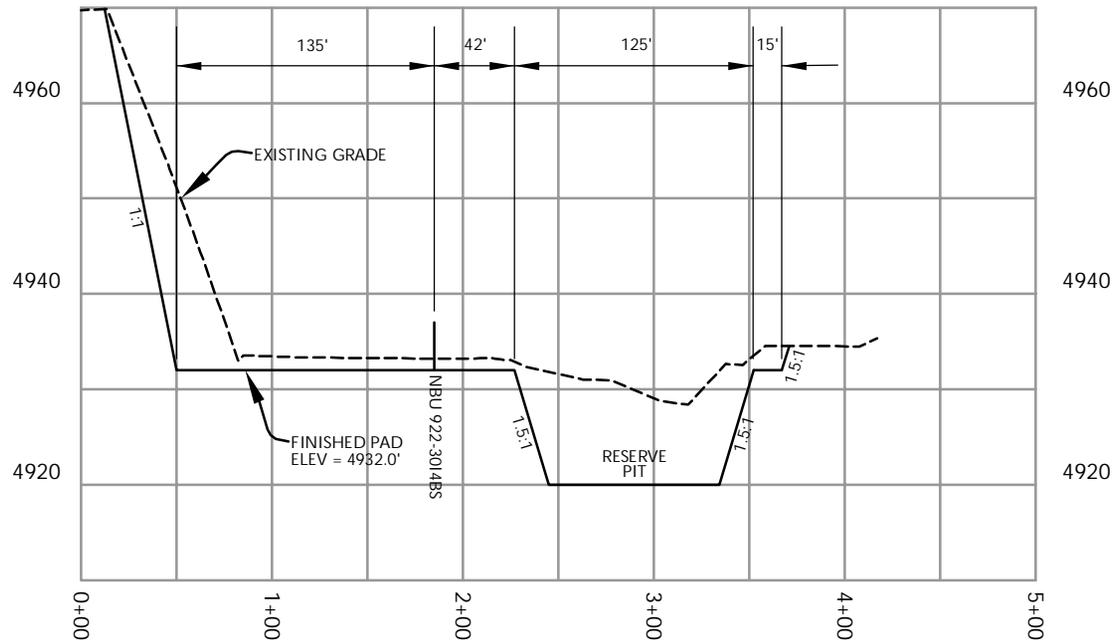
CONSULTING, LLC
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 Fax 307-674-0182

TIMBERLINE (435) 789-1365
 ENGINEERING & LAND SURVEYING, INC.
 209 NORTH 300 WEST - VERNAL, UTAH 84078

Scale: 1"=60' Date: 6/9/10 SHEET NO:
 REVISED: TAR 8
 9/3/10 8 OF 18



CROSS SECTION A-A'



CROSS SECTION B-B'

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WELL PAD - NBU 922-29N

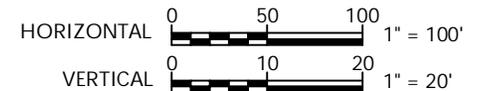
WELL PAD - CROSS SECTIONS
NBU 922-29N3BS, NBU 922-29M2AS,
NBU 922-30I4CS, NBU 922-30I4BS,
NBU 922-29L3CS & NBU 922-29N2BS
LOCATED IN SECTION 29, T9S, R22E,
S.L.B.&M., Uintah County, Utah



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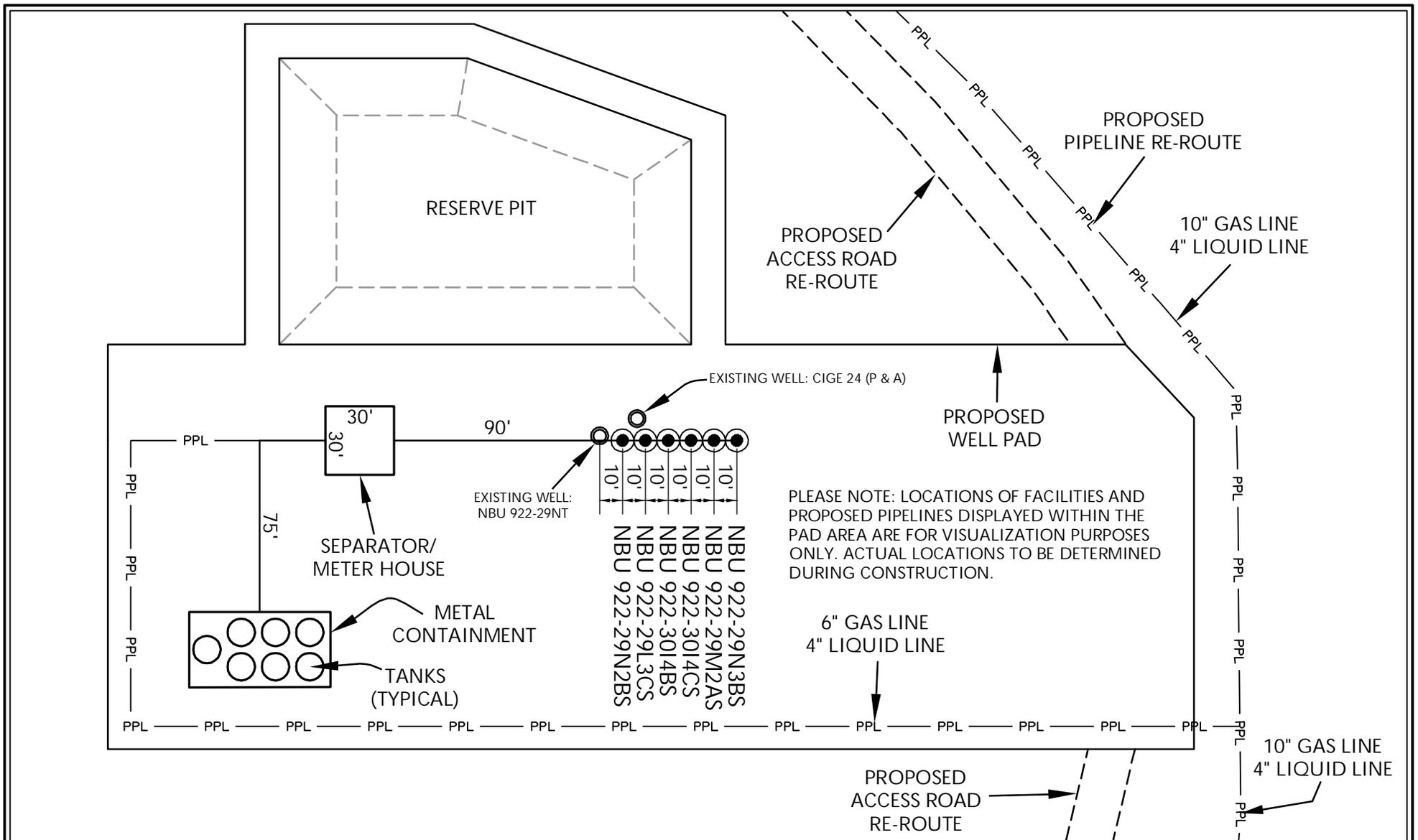
TIMBERLINE
ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

(435) 789-1365



Scale: 1"=100'	Date: 6/9/10	SHEET NO:
REVISED:	TAR 9/7/10	9 9 OF 18

'APIWELLINCo:43047512160000'



PLEASE NOTE: LOCATIONS OF FACILITIES AND PROPOSED PIPELINES DISPLAYED WITHIN THE PAD AREA ARE FOR VISUALIZATION PURPOSES ONLY. ACTUAL LOCATIONS TO BE DETERMINED DURING CONSTRUCTION.

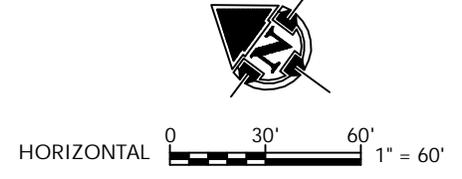
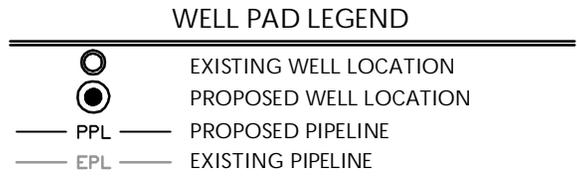
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1099 18th Street - Denver, Colorado 80202

WELL PAD - NBU 922-29N

WELL PAD - FACILITIES DIAGRAM
NBU 922-29N3BS, NBU 922-29M2AS,
NBU 922-30I4CS, NBU 922-30I4BS,
NBU 922-29L3CS & NBU 922-29N2BS
LOCATED IN SECTION 29, T9S, R22E,
S.L.B.&M., UINTAH COUNTY, UTAH



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Scale: 1"=60'
REVISED:

Date: 6/9/10
TAR
8/30/10

SHEET NO:
10 10 OF 18

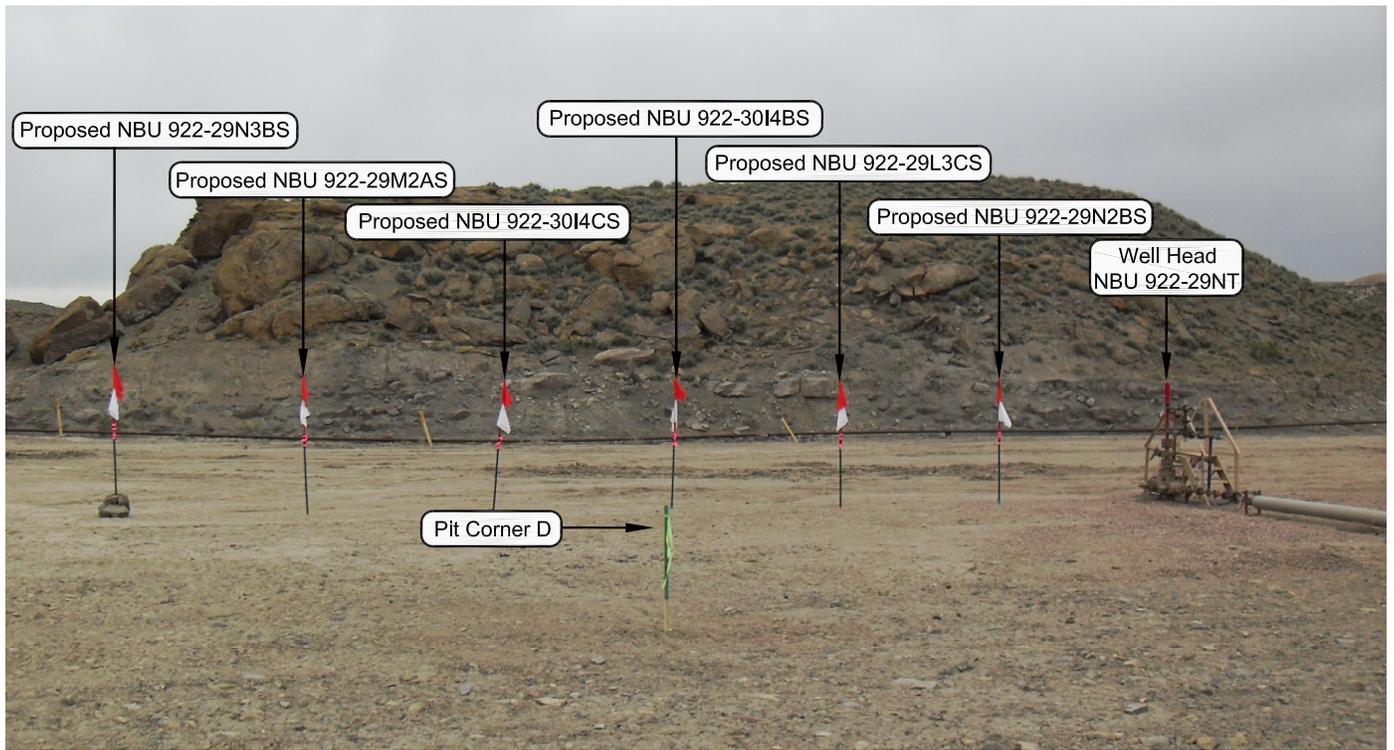


PHOTO VIEW: FROM PIT CORNER D TO LOCATION STAKE

CAMERA ANGLE: SOUTHWESTERLY



PHOTO VIEW: FROM BEGINNING OF PROPOSED ROAD

CAMERA ANGLE: NORTHEASTERLY

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 1099 18th Street - Denver, Colorado 80202

WELL PAD - NBU 922-29N

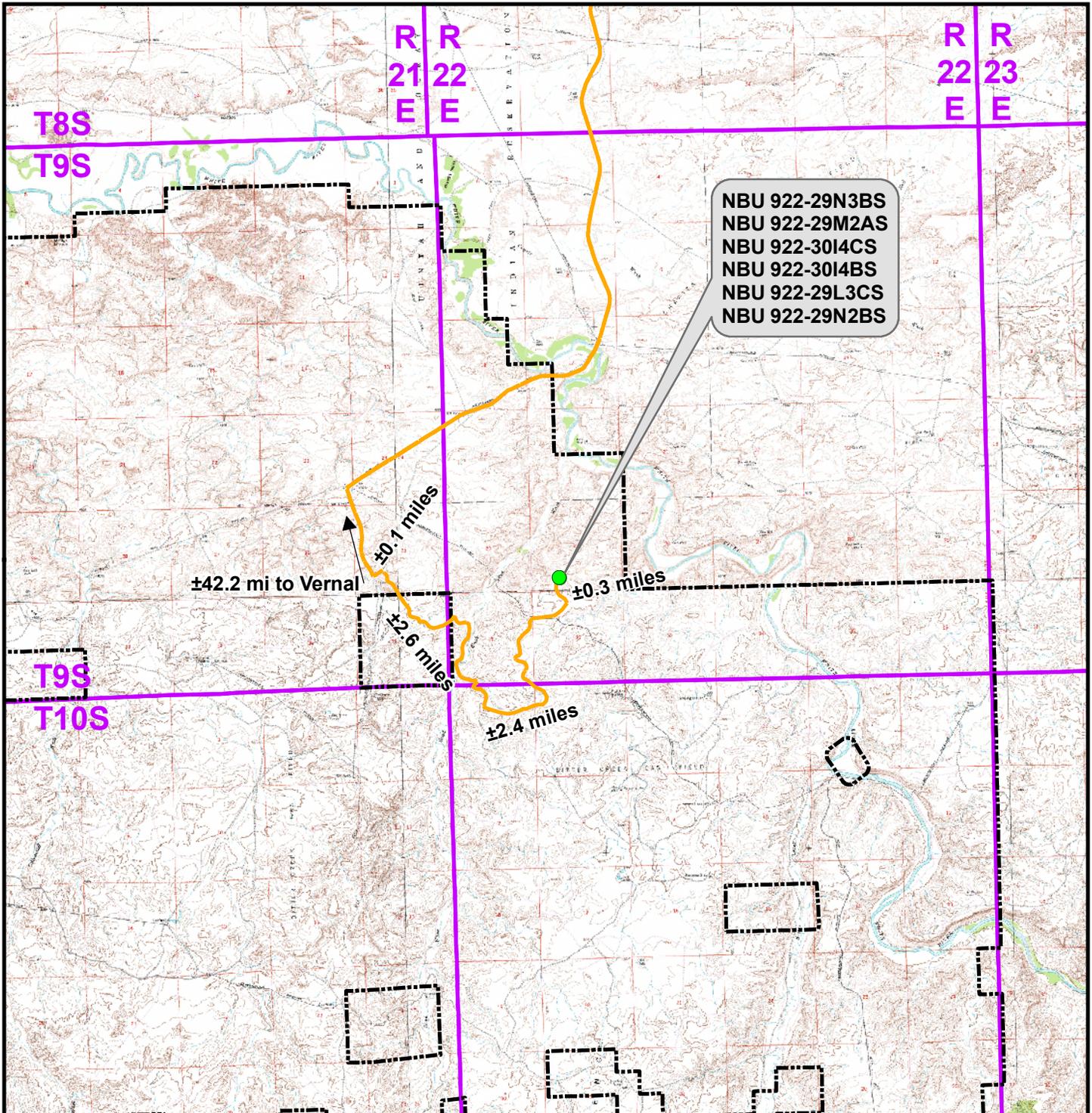
LOCATION PHOTOS
 NBU 922-29N3BS, NBU 922-29M2AS,
 NBU 922-30I4CS, NBU 922-30I4BS,
 NBU 922-29L3CS & NBU 922-29N2BS
 LOCATED IN SECTION 29, T9S, R22E,
 S.L.B.&M., UINTAH COUNTY, UTAH.



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DATE PHOTOS TAKEN: 05-27-10	PHOTOS TAKEN BY: M.S.B.	SHEET NO: 11
DATE DRAWN: 06-02-10	DRAWN BY: B.M.	
Date Last Revised:		11 OF 18



Legend

- Proposed Well Location
- Natural Buttes Unit Boundary
- Access Route - Proposed

Distance From Well Pad - NBU 922-29N To Unit Boundary: ±3,623ft

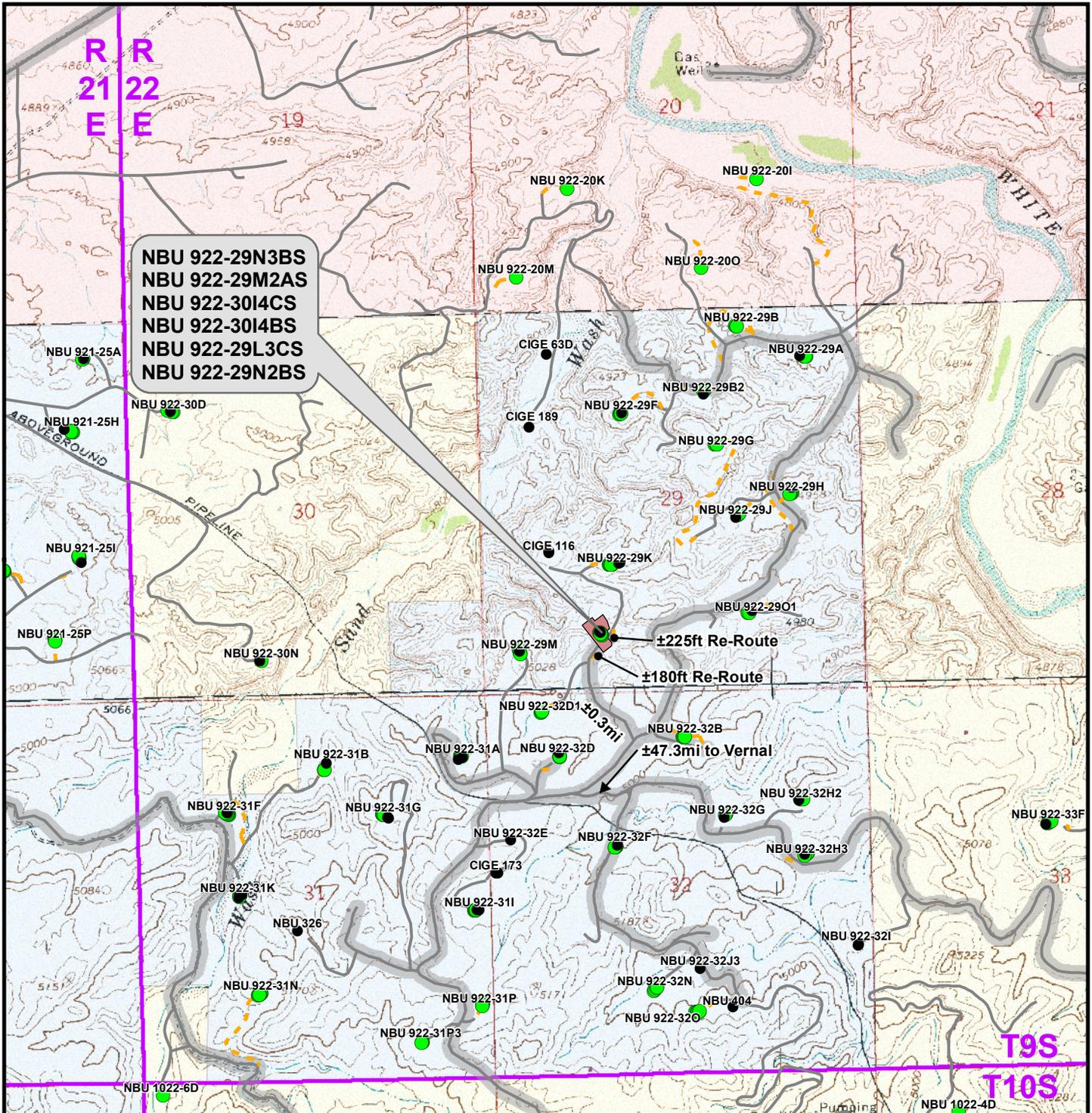
Kerr-McGee Oil & Gas Onshore, LP
 1099 18th Street, Denver, Colorado 80202

WELL PAD - NBU 922-29N

TOPO A
 NBU 922-29N3BS, NBU 922-29M2AS,
 NBU 922-3014CS, NBU 922-3014BS,
 NBU 922-29L3CS & NBU 922-29N2BS
 LOCATED IN SECTION 29, T9S, R22E
 S.L.B.&M., UINTAH COUNTY, UTAH



Scale: 1:100,000	NAD83 USP Central	Sheet No:
Drawn: CPS	Date: 9 June 2010	12
Revised: CPS	Date: 9 July 2010	



Legend

- Well - Proposed
- Well - Existing
- Well Pad
- Road - Proposed
- Road - Existing
- County Road
- Bureau of Land Management
- Indian Reservation
- State
- Private

Total Proposed Road Re-Route Length: ±405ft

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WELL PAD - NBU 922-29N

TOPO B

NBU 922-29N3BS, NBU 922-29M2AS,
NBU 922-30I4CS, NBU 922-30I4BS,
NBU 922-29L3CS & NBU 922-29N2BS
LOCATED IN SECTION 29, T9S, R22E
S.L.B.&M., UINTAH COUNTY, UTAH

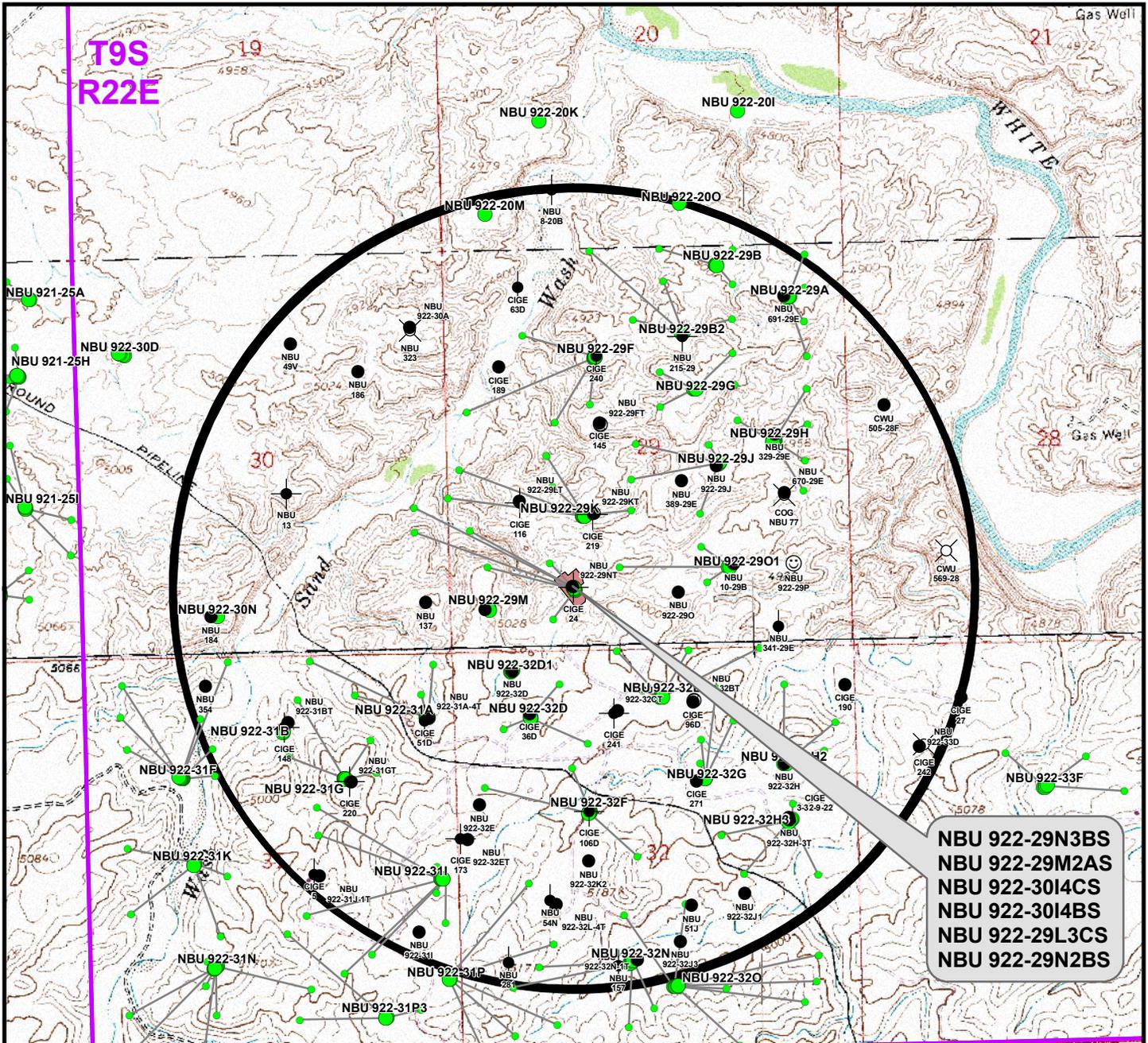


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Fax (307) 674-0182



Scale: 1" = 2,000ft | NAD83 USP Central
Drawn: CPS | Date: 9 June 2010
Revised: CPS | Date: 31 Aug 2010

Sheet No:
13 13 of 18



NBU 922-29N3BS
 NBU 922-29M2AS
 NBU 922-30I4CS
 NBU 922-30I4BS
 NBU 922-29L3CS
 NBU 922-29N2BS

Proposed Well	Nearest Well Bore	Footage	Proposed Well	Nearest Well Bore	Footage
NBU 922-29N3BS	CIGE 24	504ft	NBU 922-30I4BS	NBU 137	1,213ft
NBU 922-29M2AS	NBU 922-29M	522ft	NBU 922-29L3CS	CIGE 116	756ft
NBU 922-30I4CS	NBU 137	890ft	NBU 922-29N2BS	NBU 922-29NT	432ft

Legend

- Well - Proposed
- Bottom Hole - Proposed
- Well Path
- Well Pad
- Well - 1 Mile Radius

Well locations derived from State of Utah, Dept. of Natural Resources, Division of Oil, Gas and Mining

- Producing
- Temporarily-Abandoned
- ★ Active
- Shut-In
- ☺ Spudded (Drilling commenced; Not yet completed)
- Plugged and Abandoned
- ▲ Approved permit (APD); not yet spudded
- ⊗ Location Abandoned
- New Permit (Not yet approved or drilled)
- ⊖ Dry hole marker, buried
- ⊕ Inactive
- ⊗ Returned APD (Unapproved)
- ⊗ Drilling Operations Suspended

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

WELL PAD - NBU 922-29N

TOPO C
 NBU 922-29N3BS, NBU 922-29M2AS,
 NBU 922-30I4CS, NBU 922-30I4BS,
 NBU 922-29L3CS & NBU 922-29N2BS
 LOCATED IN SECTION 29, T9S, R22E
 S.L.B.&M., UINTAH COUNTY, UTAH



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 CONSULTING, LLC
 371 Coffeen Avenue
 Sheridan, WY 82801
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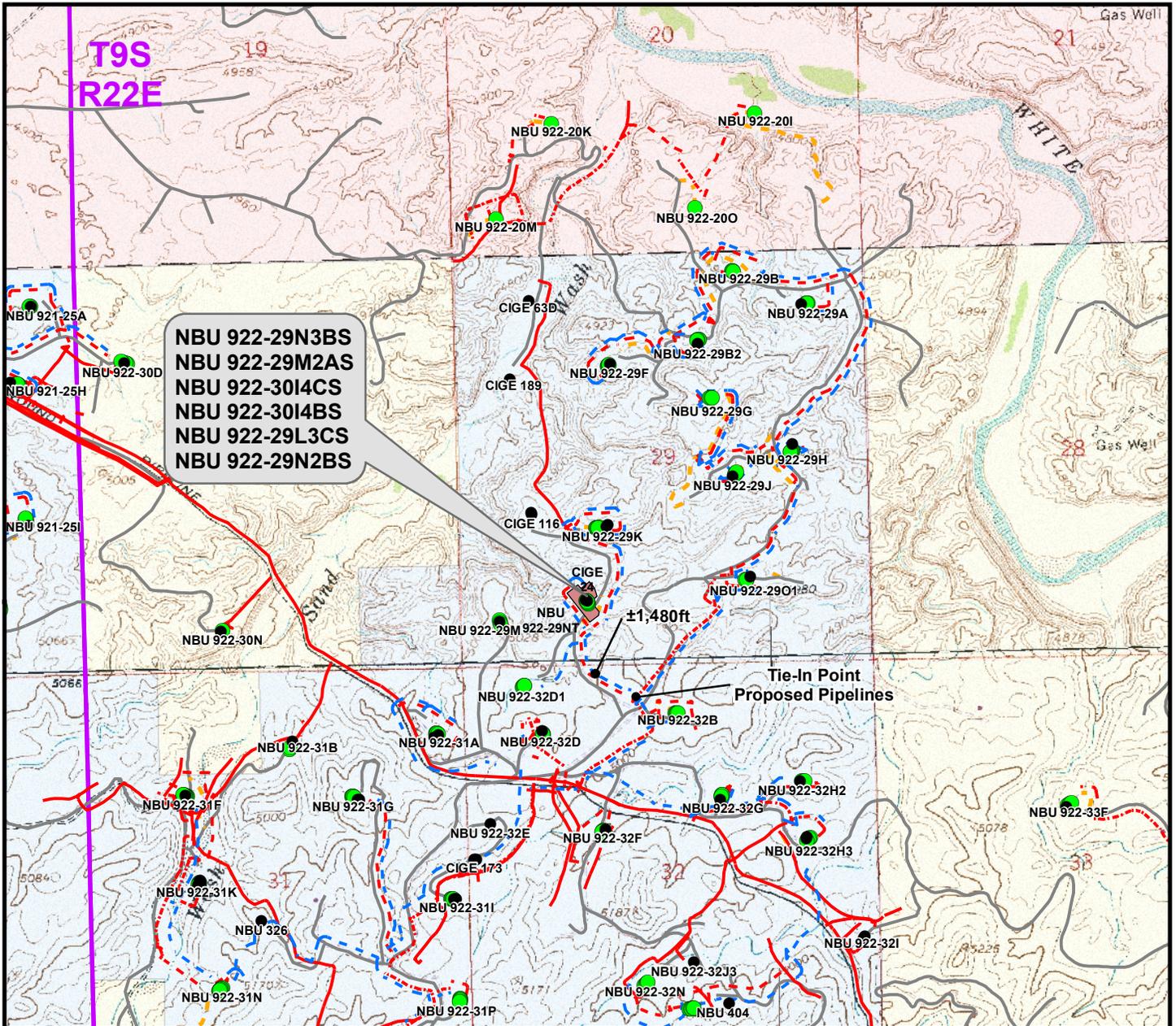
Scale: 1" = 2,000ft

Drawn: CPS Date: 9 June 2010

Revised: CPS Date: 31 Aug 2010

NAD83 USP Central

Sheet No:
14 14 of 18



Proposed Liquid Pipeline	Length
Proposed 4" (Meter House To Edge Of Pad)	±690ft
Proposed 4" (Edge Of Pad to 29K Intersection)	±20ft
Proposed 4" (29K Intersection to 2901 Intersection)	±1,460ft
TOTAL PROPOSED LIQUID PIPELINE =	±2,170ft

Proposed Gas Pipeline	Length
Proposed 6" (Meter House To Edge Of Pad)	±690ft
Proposed 6" (Edge of Pad To 29K Intersection)	±20ft
Proposed 10" (29K Intersection To 2901 Intersection)	±1,460ft
TOTAL PROPOSED GAS PIPELINE =	±2,170ft

Legend

- Well - Proposed - - - Gas Pipeline - Proposed - - - Liquid Pipeline - Proposed - - - Road - Proposed Bureau of Land Management
- Well - Existing ····· Gas Pipeline - To Be Upgraded ····· Liquid Pipeline - To Be Upgraded - - - Road - Existing Indian Reservation
- Well Pad - - - Gas Pipeline - Existing - - - Liquid Pipeline - Existing - - - State
- Private

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WELL PAD - NBU 922-29N

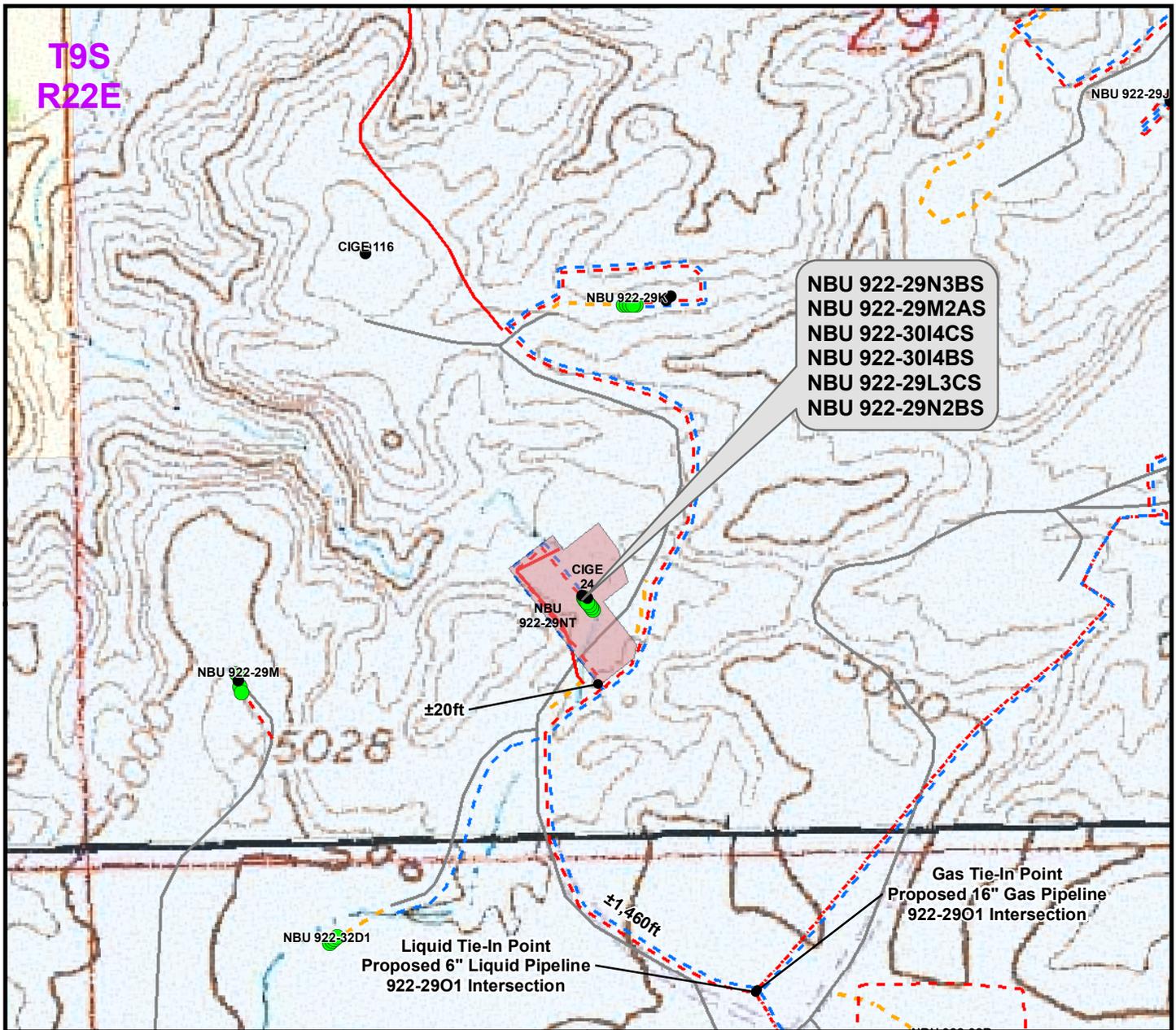
TOPO D

NBU 922-29N3BS, NBU 922-29M2AS,
NBU 922-30I4CS, NBU 922-30I4BS,
NBU 922-29L3CS & NBU 922-29N2BS
LOCATED IN SECTION 29, T9S, R22E
S.L.B.&M., UTAH COUNTY, UTAH

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Scale: 1" = 2,000ft	NAD83 USP Central	Sheet No:
Drawn: CPS	Date: 9 June 2010	15 15 of 18
Revised: CPS	Date: 31 Aug 2010	



Proposed Liquid Pipeline	Length
Proposed 4" (Meter House To Edge Of Pad)	±690ft
Proposed 4" (Edge Of Pad to 29K Intersection)	±20ft
Proposed 4" (29K Intersection to 29O1 Intersection)	±1,460ft
TOTAL PROPOSED LIQUID PIPELINE =	±2,170ft

Proposed Gas Pipeline	Length
Proposed 6" (Meter House To Edge of Pad)	±690ft
Proposed 6" (Edge of Pad To 29K Intersection)	±20ft
Proposed 10" (29K Intersection To 29O1 Intersection)	±1,460ft
TOTAL PROPOSED GAS PIPELINE =	±2,170ft

Legend

- Well - Proposed - - - Gas Pipeline - Proposed - - - Liquid Pipeline - Proposed - - - Road - Proposed Bureau of Land Management
- Well - Existing - - - Gas Pipeline - To Be Upgraded - - - Liquid Pipeline - To Be Upgraded - - - Road - Existing Indian Reservation
- Well Pad - - - Gas Pipeline - Existing - - - Liquid Pipeline - Existing
- State
- Private

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

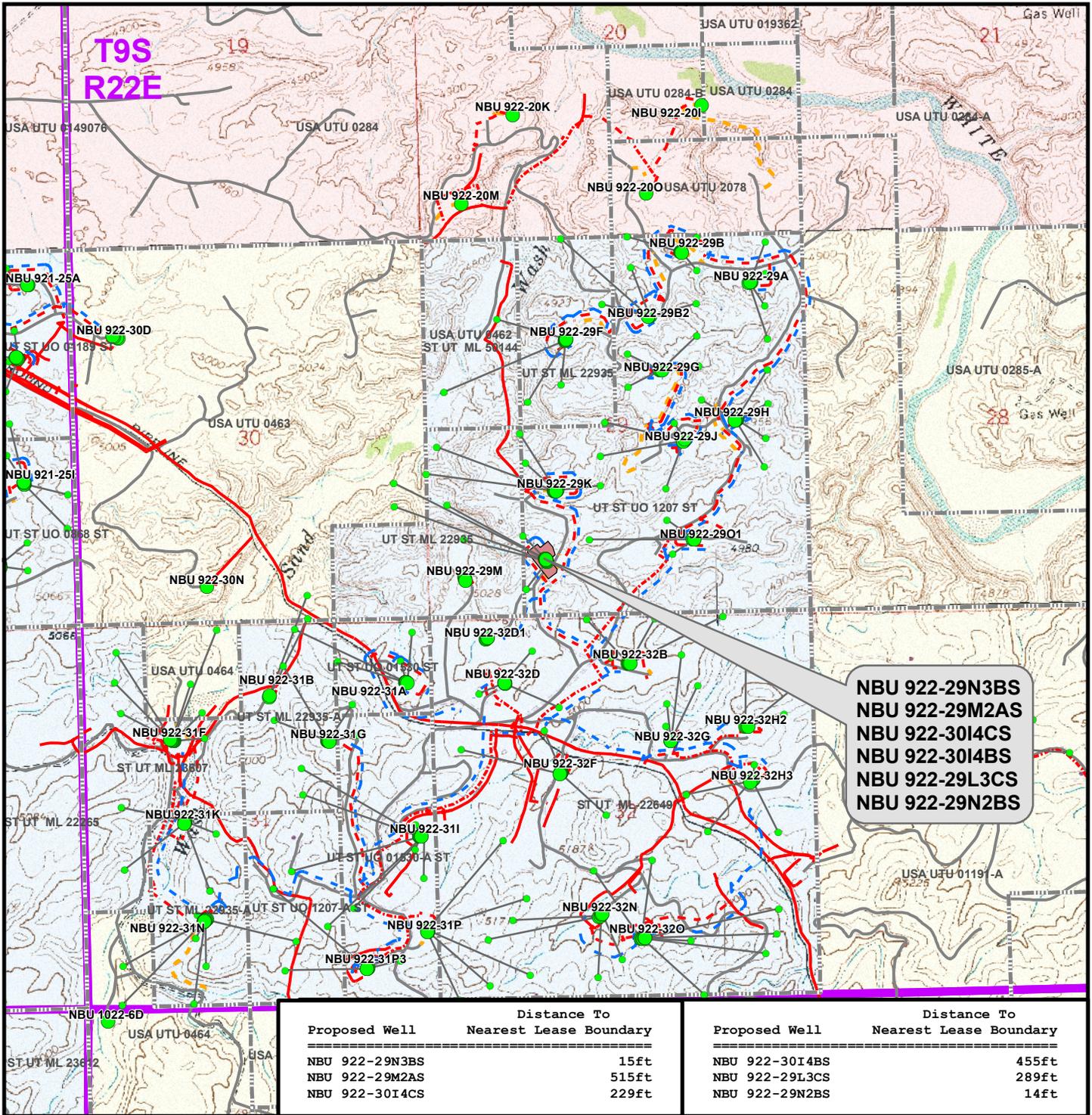
WELL PAD - NBU 922-29N

TOPO D2 (PAD & PIPELINE DETAIL)
 NBU 922-29N3BS, NBU 922-29M2AS,
 NBU 922-30I4CS, NBU 922-30I4BS,
 NBU 922-29L3CS & NBU 922-29N2BS
 LOCATED IN SECTION 29, T9S, R22E
 S.L.B.&M., UINTAH COUNTY, UTAH

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Scale: 1" = 500ft	NAD83 USP Central	Sheet No:
Drawn: CPS	Date: 9 June 2010	16 16 of 18
Revised: CPS	Date: 31 Aug 2010	



Distance To		Distance To	
Proposed Well	Nearest Lease Boundary	Proposed Well	Nearest Lease Boundary
NBU 922-29N3BS	15ft	NBU 922-30I4BS	455ft
NBU 922-29M2AS	515ft	NBU 922-29L3CS	289ft
NBU 922-30I4CS	229ft	NBU 922-29N2BS	14ft

Legend

- Well - Proposed
- Well Pad
- - - Gas Pipeline - Proposed
- - - Liquid Pipeline - Proposed
- Bottom Hole - Proposed
- ▭ Lease Boundary
- - - Gas Pipeline - To Be Upgraded
- - - Liquid Pipeline - To Be Upgraded
- Well Path
- Road - Proposed
- Gas Pipeline - Existing
- Liquid Pipeline - Existing
- Road - Existing
- Bureau of Land Management
- Indian Reservation
- State
- Private

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

WELL PAD - NBU 922-29N

TOPO E
 NBU 922-29N3BS, NBU 922-29M2AS,
 NBU 922-30I4CS, NBU 922-30I4BS,
 NBU 922-29L3CS & NBU 922-29N2BS
 LOCATED IN SECTION 29, T9S, R22E
 S.L.B.&M., UINTAH COUNTY, UTAH

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Scale: 1" = 2,000ft	NAD83 USP Central	Sheet No:
Drawn: CPS	Date: 9 June 2010	17
Revised: CPS	Date: 31 Aug 2010	

**Kerr-McGee Oil & Gas Onshore, LP
WELL PAD – NBU 922-29N
WELLS – NBU 922-29N3BS, NBU 922-29M2AS,
NBU 922-30I4CS, NBU 922-30I4BS,
NBU 922-29L3CS & NBU 922-29N2BS
Section 29, T9S, R22E, S.L.B.&M.**

From the intersection of U.S. Highway 40 and 500 East Street in Vernal, Utah proceed in an easterly then southerly direction along U.S. Highway 40 approximately 3.3 miles to the junction of State Highway 45; exit right and proceed in a southerly direction along State Highway 45 approximately 20.2 miles to the junction of the Glen Bench Road (County B Road 3260). Exit right and proceed in a southwesterly direction along the Glen Bench Road approximately 18.7 miles to a Class D County Road to the northeast. Exit left and proceed in a northeasterly direction along the Class D County Road approximately 0.1 miles to a second Class D County Road to the southeast. Exit right and proceed in a southeasterly direction along the second Class D County Road approximately 2.6 miles to a third Class D County Road to the east. Exit left and proceed in an easterly then northerly direction along the third Class D County Road approximately 2.4 miles to an existing service road to the northwest. Exit left and proceed in a northwesterly then northeasterly direction along the existing service road approximately 0.3 miles to the proposed well pad.

Total distance from Vernal, Utah to the proposed well location is approximately 47.6 miles in a southerly direction.

NBU 922-29L3CS

Surface: 822' FSL 1,637' FWL (SE/4SW/4) Section 29
BHL: 1,601' FSL 289' FWL (NW/4SW/4) Section 29
State Mineral Lease: ML 22935

NBU 922-29M2AS

Surface: 798' FSL 1,655' FWL (SE/4SW/4) Section 29
BHL: 1,114' FSL 515' FWL (SW/4SW/4) Section 29
State Mineral Lease: ML 22935

NBU 922-29N2BS

Surface: 830' FSL 1,631' FWL (SE/4SW/4) Section 29
BHL: 1,158' FSL 1,334' FWL (SE/4SW/4) Section 29
State Mineral Lease: UO 1207 ST

NBU 922-29N3BS

Surface: 790' FSL 1,661' FWL (SE/4SW/4) Section 29
BHL: 414' FSL 1,360' FWL (SE/4SW/4) Section 29
State Mineral Lease: UO 1207 ST

NBU 922-30I4BS

Surface: 814' FSL 1,643' FWL (SE/4SW/4) Section 29
BHL: 1,876' FSL 455' FEL (NE/4SE/4) Section 30
Federal Mineral Lease: UTU 0463

NBU 922-30I4CS

Surface: 806' FSL 1,649' FWL (SE/4SW/4) Section 29
BHL: 1,550' FSL 455' FEL (NE/4SE/4) Section 30
Federal Mineral Lease: UTU 0463

Pad: NBU 922-29N
T9S R22E

Uintah County, Utah
Operator: Kerr-McGee Oil & Gas Onshore LP

MULTI-POINT SURFACE USE PLAN of OPERATIONS (SUPO)

This SUPO contains surface operating procedures for Kerr-McGee Oil & Gas Onshore LP (KMG), a wholly owned subsidiary of Anadarko Petroleum Corporation (APC) pertaining to actions that involve the State of Utah School and Institutional Trust Lands Administration (SITLA) in the development of minerals leased to APC/KMG (including, but not limited to, APDs/SULAs/ROEs/ROWs and/or easements).

See associated Utah Division of Oil, Gas, and Mining (UDOGM) Form 3(s), plats, maps, and other attachments for site-specific information on projects represented herein.

In accordance with Utah Oil & Gas Conservation Rule R649-3-11 pertaining to Directional Drilling, these wells will be directionally drilled. Refer to Topo Map A for directions to the location and Topo Maps A and B for location of access roads within a 2-mile radius.

A. Existing Roads:

Existing roads consist of county roads and improved/unimproved lease roads. APC/KMG will maintain existing roads in a condition that is the same as or better than before operations began and in a safe and usable condition. Maintenance of existing roads will continue until final abandonment and reclamation of well pads and/or other facilities. The road maintenance may include, but is not limited to, blading, ditching, culvert installation/cleanout, surfacing, and dust control.

Typically, roads, gathering lines and electrical distribution lines will occupy common disturbance corridors and roadways will be used as working space. All disturbances located in the same corridor will overlap each other to the maximum extent possible; in no case will the maximum disturbance width of the access road and utility corridors exceed 50', unless otherwise approved.

B. Planned Access Roads:

Approximately $\pm 405'$ (0.08 miles) of new access road to this pad location is proposed (see Topo Map B). Applicable Uintah County encroachment and/or pipeline crossing permits will be obtained prior to construction/development. No other pipelines will be crossed at this location.

Where roads are new or to be reconstructed, they will be located, designed, and maintained to meet the standards of SITLA and other commonly accepted Best Management Practices (BMPs). If a new road/corridor were to cross a water of the United States, KMG will adhere to the requirements of applicable Nationwide or Individual Permits of the Department of Army Corps of Engineers.

Turnouts; major cut and fills; culverts; bridges; gates; cattle guards; low water crossings; or modifications needed to existing infrastructure/facilities were determined at the on-site and, as applicable, are typically shown on attached Exhibits and Topo maps.

C. Location of Existing and Proposed Facilities:

This pad will expand the existing pad for the CIGE 24, which is a vertical plugged and abandoned well, and for the NBU 922-29NT, which is a vertical producing well according to Utah Division of Oil, Gas and Mining (UDOGM) records as of July 29, 2010.

Production facilities (see Well Pad Design Summary and Facilities Diagram):

Production facilities will be installed on the disturbed portion of each well pad and may include bermed components (typically excluding dehy's and/or separators) that contain fluids (i.e. production tanks, produced liquids tanks). The berms will be constructed of compacted subsoil or corrugated metal, impervious, designed to hold 110% of the capacity of the largest tank, and be independent of the back cut. All permanent (on-site

six months or longer) aboveground structures constructed or installed, including pumping units, will be painted a flat, non-reflective, earth-tone color chosen at the onsite in coordination with SITLA.

Production tanks will be constructed, maintained, and operated to prevent unauthorized surface or subsurface discharges of liquids and to prevent livestock or wildlife entry. The tanks are not to be used for disposal of liquids from additional sources without prior approval of UDOGM.

Gathering facilities:

The following pipeline transmission facilities will apply if the well is productive (see Topo D):

The total gas gathering (steel line pipe with fusion bond epoxy coating) pipeline distances from the meter to the tie in point is $\pm 2,170'$ and the individual segments are broken up as follows:

- $\pm 720'$ (0.1 miles) –New 6” buried gas pipeline from the meter to the edge of the pad.
- $\pm 20'$ (0.01 miles) –New 6” buried gas pipeline from the edge of the pad to the NBU 922-29K pad intersection.
- $\pm 1,430'$ (0.3 miles) –New 10” buried gas pipeline from the NBU 922-29K pad intersection to the proposed 16” buried gas pipeline tie-in point (NBU 922-29O1 pad intersection).

The total liquid gathering pipeline (Flexsteel) distance from the meter to the tie in point is $\pm 2,170'$ and the individual segments are broken up as follows:

- $\pm 720'$ (0.1 miles) –New 4” buried liquid pipeline from the meter to the edge of the pad.
- $\pm 1,450'$ (0.3 miles) –New 4” buried liquid pipeline from the edge of the pad to the proposed 6” buried liquid pipeline tie-in point (NBU 922-29O1 pad intersection).

Kerr-McGee will request any needed right of way on state surface from Utah Division of Oil, Gas and Mining (UDOGM) and/or School and Institutional Trust Land Administration (SITLA) as per their requirements.

The proposed pipelines will be buried and will include gas gathering and liquid gathering pipelines in the same trench. Where the pipeline is adjacent to the road or well pad, the road and/or well pad will be utilized for construction activities and staging. Kerr-McGee requests a permanent 30' right-of-way adjacent to the road for life-of-project for maintenance, repairs, and/or upgrades, no additional right-of-way will be needed beyond the 30'. Where the pipeline is not adjacent to the road or well pad, Kerr-McGee requests a temporary 45' construction right-of-way and 30' permanent right-of-way.

The proposed trench width for the pipeline would range from 18-48 inches and will be excavated to a depth of 48 to 60 inches of normal soil cover or 24 inches of cover in consolidated rock. During construction blasting may occur along the proposed right-of-way where trenching equipment cannot cut into the bedrock. Large debris and rocks removed from the earth during trenching and blasting that could not be returned to the trench would be distributed evenly and naturally in the project area. The proposed pipelines will be pressure tested pneumatically (depending on size) or with fluids (either fresh or produced). If fluids are used, there will be no discharge to the surface.

Pipeline signs will be installed along the right-of-way to indicate the pipeline proximity, ownership, and to provide emergency contact phone numbers. Above ground valves, T's, and/or cathodic protection will be installed at various locations for connection, corrosion prevention and/or for safety purposes.

D. Location and Type of Water Supply:

Water for drilling purposes will be obtained from one of the following sources:

- Dalbo Inc.'s underground well located in Ouray, Utah, Sec. 32 T4S R3E, Water User Claim number 43-8496, application number 53617.
- Price Water Pumping Inc. Green River and White River, various sources, Water Right Number 49-1659, application number: a35745.

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.

E. Source of Construction Materials:

Construction operations will typically be completed with native materials found on location. If needed, construction materials that must be imported to the site (mineral material aggregate, soils or materials suitable for fill/surfacing) will be obtained from a nearby permitted source and described in subsequent Sundry requests. No construction materials will be removed from State lands without prior approval from SITLA.

F. Methods of Handling Waste Materials:

Should the well be productive, produced water will be contained in a water tank and will be transported by pipeline and/or truck to an approved disposal sites facilities and/or Salt Water Disposal (SWD) injection well. Currently, those facilities are:

RNI in Sec. 5 T9S R22E
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
Ouray #1 SWD in Sec. 1 T9S R21E
NBU 159 SWD in Sec. 35 T9S R21E
CIGE 112D SWD in Sec. 19 T9S R21E
CIGE 114 SWD in Sec. 34 T9S R21E
NBU 921-34K SWD in Sec. 34 T9S R21E
NBU 921-33F SWD in Sec. 33 T9S R21E
NBU 921-34L SWD in Sec. 34 T9S R21E

Drill cuttings and/or fluids will be contained in the reserve/frac pit. Cuttings will be buried in pit(s) upon closure. Unless otherwise approved, no oil or other oil-based drilling additives, chromium/metals-based, or saline muds will be used during drilling. Only fresh water (as specified above), biodegradable polymer soap, bentonite clay, and/or non-toxic additives will be used in the mud system.

Pits will be constructed to minimize the accumulation of surface runoff. Should fluid hydrocarbons be encountered during drilling, completions or well testing, product will either be contained in test tanks on the well site or evacuated by vacuum trucks and transported to an approved disposal/sales facility. Should petroleum hydrocarbons unexpectedly be released into a pit, they will be removed as soon as practical but in no case will they remain longer than 72 hours unless an alternate is approved by SITLA. Should timely removal prove infeasible, the pit will be netted with mesh no larger than 1 inch until such time as hydrocarbons can be removed. Hydrocarbon removal will also take place prior to the closure of the pit, unless authorization is provided for disposal via alternative pit closure methods (e.g. solidification).

The reserve and/or fracture stimulation pit will be lined with a synthetic material 20-mil or thicker. The liner will be installed over smooth fill subgrade that is free of pockets, loose rocks, or other materials (i.e. sand, sifted dirt, bentonite, straw, etc.) that could damage the liner. Any additional pits necessary to subsequent operations, such as temporary flare or workover pits, will be contained within the originally approved well pad and disturbance boundaries. Such temporary pits will be backfilled and reclaimed within 180 days of completion of work at a well location.

For the protection of livestock and wildlife, all open pits and cellars will be fenced/covered to prevent wildlife or livestock entry. Total height of pit fencing will be at least 42 inches and corner posts will be cemented and/or braced in such a manner as 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.

Pits containing drilling cuttings, mud, and/or completions fluids will be allowed to dry. Any free fluids remaining after six (6) months from reaching total depth, date of completion, and/or determination of inactivity will be removed (as weather conditions allow) to an approved site and the pit reclaimed. Additional drying methods may include fly-ash solidification or sprinkler evaporation. Installation and operation of any sprinklers, pumps, and equipment will ensure that water spray or mist does not drift. Reserve pit liners will be cut off or folded as near to the mud surface as possible and as safety considerations allow and buried on location.

No garbage or non-exempt substances as defined by Resource Conservation and Recovery Act (RCRA) subtitle C will be placed in the reserve pit. All refuse generated during construction, drilling, completion, and well testing activities will be contained in an enclosed receptacle, removed from the drill locations promptly, and transported to an approved disposal facility.

Portable, self-contained chemical toilets and/or sewage processing facilities will be provided for human waste disposal. Upon completion of operations, or as required, the toilet holding tanks will be pumped and the contents disposed of in an approved sewage disposal facility. All applicable regulations pertaining to disposal of human and solid waste will be observed.

Any undesirable event, accidental release, or in excess of reportable quantities will be managed according to the notification requirements of UDOGMs "Reporting Oil and Gas Undesirable Events" rule, and, where State wells are participatory to a Federal agreement, according to NTL-3A.

Materials Management

Hazardous materials above reportable quantities will not be produced by drilling or completing proposed wells or constructing the pipelines/facilities. The term “hazardous materials” as used here means: (1) any substance, pollutant, or containment listed as hazardous under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) of 1980, as amended 42 U.S.C. 9601 et seq., and the regulations issued under CERCLA; and (2) any hazardous waste as defined in RCRA of 1976, as amended. In addition, no extremely hazardous substance, as defined in 40 CFR 355, in threshold planning quantities, would be used, produced, stored, transported, or disposed of while producing any well.

Chemicals subject to reporting under Title III of the Superfund Amendments and Reauthorization Act (SARA) in quantities of 10,000 pounds or more may be produced and/or stored at production facilities and may be kept in limited quantities on drilling sites and well locations for short periods of time during drilling or completion activities.

G. Ancillary Facilities:

None are anticipated.

H. Well Site Layout (see Well Pad Design Summary):

The location, orientation and aerial extent of each drill pad; reserve/completion/flare pit; access road ingress/egress points, drilling rig, dikes/ditches, existing wells/infrastructure; proposed cuts and fills; and topsoil and spoil material stockpile locations are depicted on the exhibits for each project, where applicable. Site-specific conditions may require slight deviation in actual equipment and facility layout; however, the area of disturbance, as described in the survey, will not be exceeded.

Coordinates are provided in the National Spatial Reference System, North American Datum, 1983 (NAD83) or latest edition. Distances are depicted on each plat to the nearest two adjacent section lines.

I. Plans for Reclamation of the Surface:

Surface reclamation will be undertaken in two phases: interim and final. Interim reclamation is conducted following well completion and extends through the period of production. This reclamation is for the area of the well pad that is not required for production activities. Final reclamation is conducted following well plugging/conversion and/or facility abandonment processes.

Reclamation activities in both phases may include but are not limited to: re-contouring or re-configuration of topographic surfaces, restoration of drainage systems, segregation of spoils materials, minimizing surface disturbance, re-evaluating backfill requirements, pit closure, topsoil redistribution, soil treatments, seeding and weed control.

Interim Reclamation

Interim reclamation includes pit closure, re-contouring (where possible), soil bed preparation, topsoil placement, seeding, and/or weed control.

Interim re-contouring involves bringing all construction material from cuts and fills back onto the well pad and site and reestablishing the natural contours where desirable and practical. Fill and stockpiled spoils no longer necessary to the operation will be spread on the cut slopes and covered with stockpiled topsoil. All stockpiled top soils will be used for interim reclamation where practical to maintain soil viability. Where possible, the land surface will be left “rough” after re-contouring to ensure that the maximum surface area will be available to support the reestablishment of vegetative cover.

A reserve pit, upon being allowed to dry, will be backfilled and compacted with cover materials that are void of any topsoil, vegetation, large stones, rocks or foreign objects. Soils that are moisture laden, saturated, or partially/completely frozen will not be used for backfill or cover. The pit area will be mounded to allow for settling and to promote positive surface drainage away from the pit.

Final Reclamation

Final reclamation will be performed for newly drilled unproductive wells and/or at the end of the life of a productive well. As soon as practical after the conclusion of drilling and testing operations, unproductive drill holes will be plugged and abandoned (P&A). Site and road reclamation will commence following plugging. In no case will reclamation at non-producing locations be initiated later than six (6) months from the date a well is plugged. A joint inspection of the disturbed area to be reclaimed may be requested by APC/KMG. The primary purpose of this inspection will be to review the existing conditions, or agree upon a revised final reclamation and abandonment plan. A Notice of Intent to Abandon will be filed for final recommendations regarding surface reclamation.

After plugging, all wellhead equipment that is no longer needed will be removed, and the well site will be reclaimed. Final contouring will blend with and follow as closely as practical the natural terrain and contours of the original site and surrounding areas. After re-contouring, final grading will be conducted over the entire surface of the well site and access road. Where practical, the area will be ripped to a depth of 18 to 24 inches on 18 to 24-inch centers and surface materials will be pitted with small depressions to form longitudinal depressions 12 to 18 inches deep perpendicular to the natural flow of water.

All unnecessary surface equipment and structures (e.g. cattle guards) and water control structures (e.g. culverts, drainage pipes) not needed to facilitate successful reclamation will be removed during final reclamation. Roads that will be reclaimed will be ripped to a depth of 18 inches where practical, re-contoured to approximate the original contour of the ground and seeded.

Upon successfully completing reclamation of a P&A location, a Final Abandonment Notice will be submitted to UDOGM.

Seeding and Measures Common to Interim and Final Reclamation

Reclaimed areas may be fenced to exclude grazing and encourage re-vegetation.

On slopes where severe erosion can become a problem and the use of machinery is not practical, seed will be hand broadcast and raked with twice the specified amount of seed. The slope will be stabilized using materials specifically designed to prevent erosion on steep slopes and hold seed in place so vegetation can become permanently established. These materials will include, but are not limited to, erosion control blankets and bonded fiber matrix at a rate to achieve a minimum of 80 percent soil coverage.

Seeding will occur year-round as conditions allow. Seed mixes appropriate to the native plant community as determined and specified for each project location based on the site specific soils will be used for re-vegetation. The site specific seed mix will be provided by SITLA.

J. Surface Ownership:

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

Mineral Ownership for NBU 922-30I4BS, 922-30I4CS:

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

Mineral Ownership for NBU 922-29L3CS, 922-29M2AS, 922-29N2BS, 922-29N3BS:

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

K. Other Information:

A Class I literature report was completed on July 26, 2010 by Montgomery Archaeological Consultants, Inc. (MOAC). For additional details please refer to report MOAC 10-088.

A paleontological reconnaissance survey was completed by Intermountain Paleo-Consulting (IPC) and a report will be provided under separate cover.

A biological field survey was completed by Grasslands Consulting, Inc. on May 18th and July 1, 2010. For additional details please refer to report GCI-259:

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

Danielle Piernot
Regulatory Analyst I
Kerr-McGee Oil & Gas Onshore LP
PO Box 173779
Denver, CO 80217-3779
(720) 929-6156

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 for State lease activities is provided by State Surety Bond 22013542, and for applicable Federal lease activities and pursuant to 43 CFR 3104, 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.


Danielle Piernot

July 29, 2010
Date

CLASS I REVIEW OF KERR-MCGEE OIL AND GAS
ONSHORE LP'S 42 PROPOSED WELL LOCATIONS IN
T9S, R22E, SECTION 29
(MOAC Report No. 10-088)
UINTAH COUNTY, UTAH

By:

Andrea Van Schmus

Prepared For:

State of Utah
School and Institutional Trust Lands Administration

Prepared Under Contract With:

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

Prepared By:

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

MOAC Report No. 10-088

July 26, 2010

State of Utah Public Lands Policy Coordination Office
Permit No. 117

United States Department of Interior (FLPMA)
Permit No. 10-UT-60122



Grasslands Consulting, Inc.

4800 Happy Canyon Road, Suite 110, Denver, CO 80237

(303) 759-5377 Office (303) 759-5324 Fax

SPECIAL STATUS PLANT AND WILDLIFE SPECIES REPORT

Report Number: GCI #259

Report Date: July 23, 2010

Operator: Kerr-McGee Oil & Gas Onshore LP

Well: NBU 922-29N well pad (Bores: NBU 922-29L3CS, NBU 922-29M2AS, NBU 922-29N2BS, NBU-29N3BS, NBU 922-30I4BS, NBU 922-30I4CS)

Pipeline: Associated pipeline and pipeline re-route

Access Road: Associated access road re-route

Location: Section 29, Township 9 South, Range 22 East; Uintah County, Utah

Survey-Species: Uinta Basin Hookless Cactus (*Sclerocactus wetlandicus*)

Survey Date: May 18 and July 1, 2010

Observers: Grasslands Consulting, Inc. Biologists: Brad Snopek, Jennie Sinclair, Jonathan Sexauer, Adrienne Cunningham, Garrett Peterson and field technicians.



1099 18th Street
Denver, CO 80202
303-296-3600 (main)
303-296-3601 (fax)

ANNA C. CAVALERI
(Direct) 720-929-6029
(Direct Fax) 720-929-7029

July 26, 2010

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 922-29L3CS
T9S R22E
Section 29: SESW (Surface) / NWSW (Bottom Hole)
Surface Footages: 822' FSL, 1637' FWL
Bottom Hole Footages: 1601' FSL, 289' FWL
Uintah County, Utah

Dear Ms. Mason:

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

- Kerr-McGee's NBU 922-29L3CS 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,

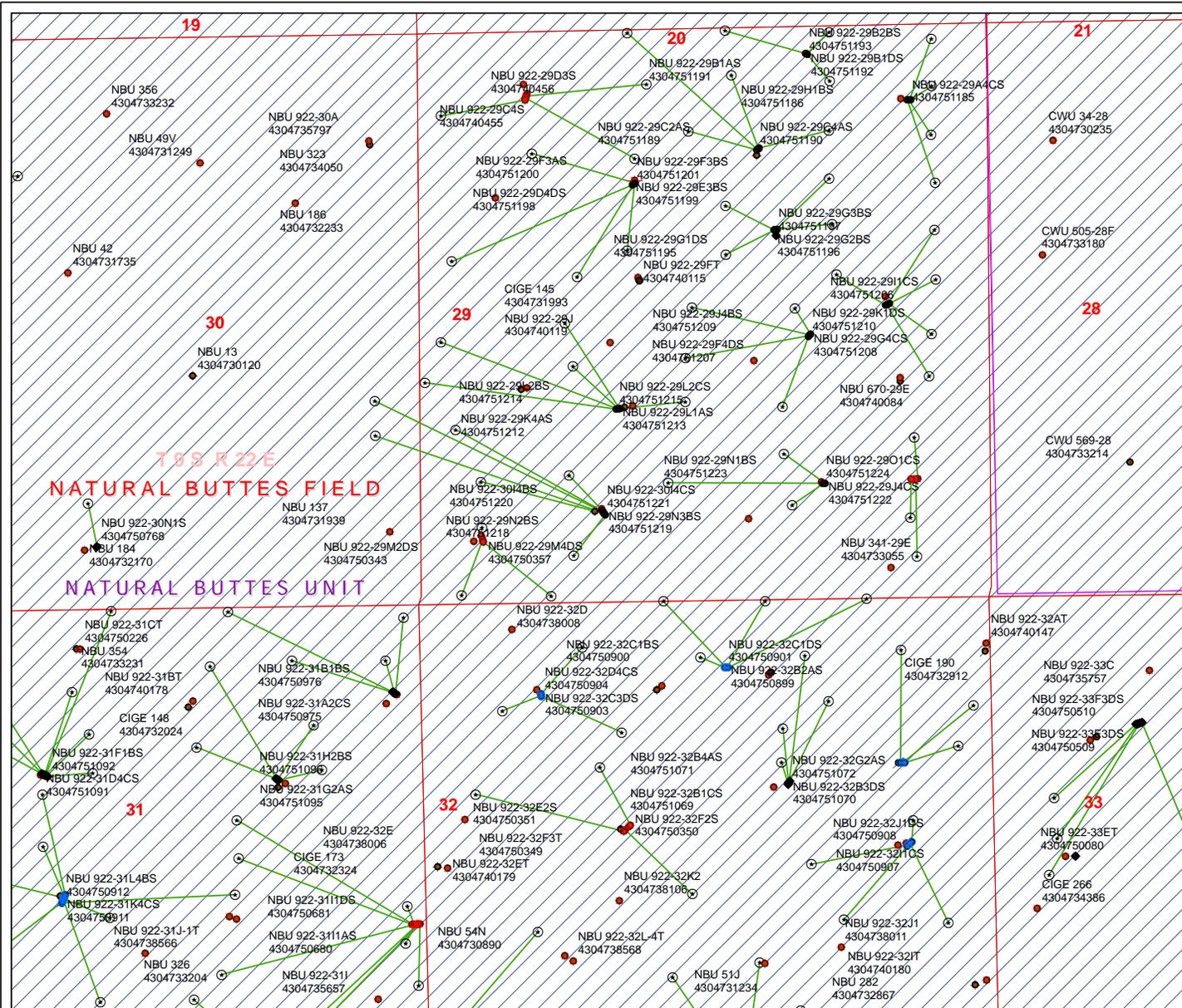
KERR-MCGEE OIL & GAS ONSHORE LP

A handwritten signature in blue ink, appearing to read 'Cavaleri'.

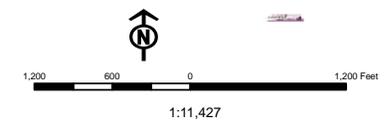
Anna C. Cavaleri
Landman

API Number: 4304751216
Well Name: NBU 922-29L3CS
Township 09.0 S Range 22.0 E Section 29
Meridian: SLBM
 Operator: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Map Prepared:
 Map Produced by Diana Mason



- | | |
|-------------------------------|--------------------------------------|
| Units | Wells Query |
| STATUS | ✕ - call other values- |
| ACTIVE | ◆ APD - Approved Permit |
| EXPLORATORY | ⊙ DRL - Spudded (Drilling Commenced) |
| GAS STORAGE | ⊙ GIW - Gas Injection |
| NF PP OIL | ⊙ GS - Gas Storage |
| PP GAS | ⊙ LA - Location Abandoned |
| PI OIL | ⊙ LDC - New Location |
| PP GEOTHERMAL | ⊙ OPS - Operation Suspended |
| PP OIL | ⊙ PA - Plugged Abandoned |
| SECONDARY | ⊙ PGW - Producing Gas Well |
| TERMINATED | ⊙ POW - Producing Oil Well |
| Fields | ⊙ RET - Returned APD |
| Sections | ⊙ SGW - Shut-in Gas Well |
| Township | ⊙ SOW - Shut-in Oil Well |
| ⊙ Bottom Hole Location - AGRC | ⊙ TA - Temp. Abandoned |
| | ⊙ TW - Test Well |
| | ⊙ WDW - Water Disposal |
| | ⊙ WW - Water Injection Well |
| | ⊙ WSW - Water Supply Well |



From: Jim Davis
To: Bonner, Ed; Garrison, LaVonne; Hill, Brad; Mason, Diana
CC: Bartlett, Floyd; Laura.Gianakos@anadarko.com; Piernot, Danielle; Upch...
Date: 9/2/2010 9:13 AM
Subject: SITLA approval of Kerr McGee wells
Attachments: KMG approvals and paleo 9.1.2010.xlsx

The following wells have been approved by SITLA including arch clearance. Paleo clearance is also granted with stipulations as noted.

Full Paleo monitoring: All ground-disturbing activities must be monitored by a permitted paleontologist.

NBU 922-29F4DS [API #4304751207]	Full Monitoring	IPC 10-08
NBU 922-29G4CS [API #4304751208]	Full Monitoring	IPC 10-08
NBU 922-29J4BS [API #4304751209]	Full Monitoring	IPC 10-08
NBU 922-29K1DS [API #4304751210]	Full Monitoring	IPC 10-08
NBU 922-29G1AS [API #4304751194]	Full Monitoring	IPC 10-06
NBU 922-29G1DS [API #4304751195]	Full Monitoring	IPC 10-06
NBU 922-29G2BS [API #4304751196]	Full Monitoring	IPC 10-06
NBU 922-29G3BS [API #4304751197]	Full Monitoring	IPC 10-06
NBU 921-25A3DS [API 4304751248]	Full Monitoring	IPC 10-21
NBU 921-25G1CS [API 4304751249]	Full Monitoring	IPC 10-21
NBU 921-25G2AS [API 4304751250]	Full Monitoring	IPC 10-21
NBU 921-25H2AS [API 4304751252]	Full Monitoring	IPC 10-21
NBU 921-25H2DS [API 4304751253]	Full Monitoring	IPC 10-21
NBU 921-25G3AS [API 4304751274]	Full Monitoring	IPC 10-23
NBU 921-25G3CS [API 4304751275]	Full Monitoring	IPC 10-23
NBU 921-25J2CS [API 4304751276]	Full Monitoring	IPC 10-23
NBU 921-25K1CS [API 4304751277]	Full Monitoring	IPC 10-23
NBU 921-25A2AS [API 4304751237]	Full Monitoring	IPC 10-21
NBU 921-25B1CS [API 4304751238]	Full Monitoring	IPC 10-21

Spot Paleo Monitoring: All ground-disturbing activities must be monitored by a permitted paleontologist at the beginning of construction and thereafter spot-monitored as paleontological conditions merit.

NBU 921-25C1AS [API 4304751239]	Spot Monitoring	IPC 10-20
NBU 921-25D1BS [API 4304751240]	Spot Monitoring	IPC 10-20
NBU 921-25D1CS [API 4304751251]	Spot Monitoring	IPC 10-20
NBU 921-25E1CS [API 4304751241]	Spot Monitoring	IPC 10-20
NBU 921-25E3AS [API 4304751242]	Spot Monitoring	IPC 10-20
NBU 921-25F1BS [API 4304751243]	Spot Monitoring	IPC 10-21
NBU 921-25F1CS [API 4304751244]	Spot Monitoring	IPC 10-21
NBU 921-25F3AS [API 4304751245]	Spot Monitoring	IPC 10-21
NBU 921-25F3CS [API 4304751246]	Spot Monitoring	IPC 10-21
NBU 921-25L1BS [API 4304751247]	Spot Monitoring	IPC 10-21
NBU 921-25J1DS [API 4304751256]	Spot Monitoring	IPC 10-23
NBU 921-25J4AS [API 4304751254]	Spot Monitoring	IPC 10-23
NBU 921-25J4CS [API 4304751255]	Spot Monitoring	IPC 10-23
NBU 921-25K4BS [API 4304751257]	Spot Monitoring	IPC 10-22
NBU 921-25L2AS [API 4304751258]	Spot Monitoring	IPC 10-22
NBU 921-25L4AS [API 4304751259]	Spot Monitoring	IPC 10-22
NBU 921-25N2BS [API 4304751260]	Spot Monitoring	IPC 10-22
NBU 921-25K4CS [API 4304751261]	Spot Monitoring	IPC 10-23
NBU 921-25N2DS [API 4304751262]	Spot Monitoring	IPC 10-23
NBU 921-25N3AS [API 4304751263]	Spot Monitoring	IPC 10-23

NBU 921-25O4BS [API 4304751264]	Spot Monitoring	IPC 10-23	
NBU 921-25B3AS [API 4304751265]	Spot Monitoring	IPC 10-20	
NBU 921-25B3DS [API 4304751266]	Spot Monitoring	IPC 10-20	
NBU 921-25C2DS [API 4304751267]	Spot Monitoring	IPC 10-20	
NBU 921-25C3AS [API 4304751268]	Spot Monitoring	IPC 10-20	
NBU 921-25IT [API 4304751273]	Spot Monitoring	IPC 10-23	
NBU 921-25H3DS [API 4304751269]	Spot Monitoring	IPC 10-23	
NBU 921-25I2AS [API 4304751270]	Spot Monitoring	IPC 10-23	
NBU 921-25I4AS [API 4304751271]	Spot Monitoring	IPC 10-23	
NBU 921-25I4DS [API 4304751272]	Spot Monitoring	IPC 10-23	
NBU 922-29A1BS [API #4304751183]	Spot Monitoring	IPC 10-06	
NBU 922-29A1CS [API #4304751184]	Spot Monitoring	IPC 10-06	
NBU 922-29A4CS [API #4304751185]	Spot Monitoring	IPC 10-06	
NBU 922-29H1BS [API #4304751186]	Spot Monitoring	IPC 10-06	
NBU 922-29B2CS [API #4304751187]	Spot Monitoring	IPC 10-06	
NBU 922-29B4AS [API #4304751188]	Spot Monitoring	IPC 10-06	(SITLA surf/ Fed Min)
NBU 922-29C2AS [API #4304751189]	Spot Monitoring	IPC 10-06	(SITLA surf/ Fed Min)
NBU 922-29C4AS [API #4304751190]	Spot Monitoring	IPC 10-06	
NBU 922-29B1AS [API #4304751191]	Spot Monitoring	IPC 10-06	
NBU 922-29B1DS [API #4304751192]	Spot Monitoring	IPC 10-06	
NBU 922-29B2BS [API #4304751193]	Spot Monitoring	IPC 10-06	
NBU 922-29D4DS [API #4304751198]	Spot Monitoring	IPC 10-05	
NBU 922-29E3BS [API #4304751199]	Spot Monitoring	IPC 10-05	
NBU 922-29F3AS [API #4304751200]	Spot Monitoring	IPC 10-05	
NBU 922-29F3BS [API #4304751201]	Spot Monitoring	IPC 10-05	
NBU 922-29G4AS [API #4304751202]	Spot Monitoring	IPC 10-06	
NBU 922-29H1CS [API #4304751203]	Spot Monitoring	IPC 10-06	
NBU 922-29H4CS [API #4304751204]	Spot Monitoring	IPC 10-06	
NBU 922-29I1BS [API #4304751205]	Spot Monitoring	IPC 10-06	
NBU 922-29I1CS [API #4304751206]	Spot Monitoring	IPC 10-06	
NBU 922-29K2CS [API #4304751211]	Spot Monitoring	IPC 10-07	
NBU 922-29K4AS [API #4304751212]	Spot Monitoring	IPC 10-07	
NBU 922-29L1AS [API #4304751213]	Spot Monitoring	IPC 10-07	
NBU 922-29L2BS [API #4304751214]	Spot Monitoring	IPC 10-07	
NBU 922-29L2CS [API #4304751215]	Spot Monitoring	IPC 10-07	
NBU 922-29L3CS [API #4304751216]	Spot Monitoring	IPC 10-07	
NBU 922-29M2AS [API #4304751217]	Spot Monitoring	IPC 10-07	
NBU 922-29N2BS [API #4304751218]	Spot Monitoring	IPC 10-07	
NBU 922-29N3BS [API #4304751219]	Spot Monitoring	IPC 10-07	
NBU 922-30I4BS [API #4304751220]	Spot Monitoring	IPC 10-07	(SITLA surf/ Fed Min)
NBU 922-30I4CS [API #4304751221]	Spot Monitoring	IPC 10-07	(SITLA surf/Fed Min)
NBU 922-29J4CS [API #4304751222]	Spot Monitoring	IPC 10-08	
NBU 922-29N1BS [API #4304751223]	Spot Monitoring	IPC 10-08	
NBU 922-29O1CS [API #4304751224]	Spot Monitoring	IPC 10-08	

That's quite a list, so I'm attaching a quick-and-dirty spreadsheet of the same data. This may be helpful to some of you.

Thanks.
-Jim

'APIWellNo:43047512160000'

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

Well Name	KERR-MCGEE OIL & GAS ONSHORE, L.P. NBU 922-29L3CS 4304751216			
String	Surf	Prod		
Casing Size(")	8.625	4.500		
Setting Depth (TVD)	2290	9407		
Previous Shoe Setting Depth (TVD)	40	2290		
Max Mud Weight (ppg)	8.3	12.0		
BOPE Proposed (psi)	500	5000		
Casing Internal Yield (psi)	3390	7780		
Operators Max Anticipated Pressure (psi)	5738	11.7		

Calculations	Surf String	8.625	"
Max BHP (psi)	.052*Setting Depth*MW=	992	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	717	NO <input type="text" value="air drill"/>
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	488	YES <input type="text" value="OK"/>
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	497	NO <input type="text" value="Reasonable depth in area"/>
Required Casing/BOPE Test Pressure=		2290	psi
*Max Pressure Allowed @ Previous Casing Shoe=		40	psi *Assumes 1psi/ft frac gradient

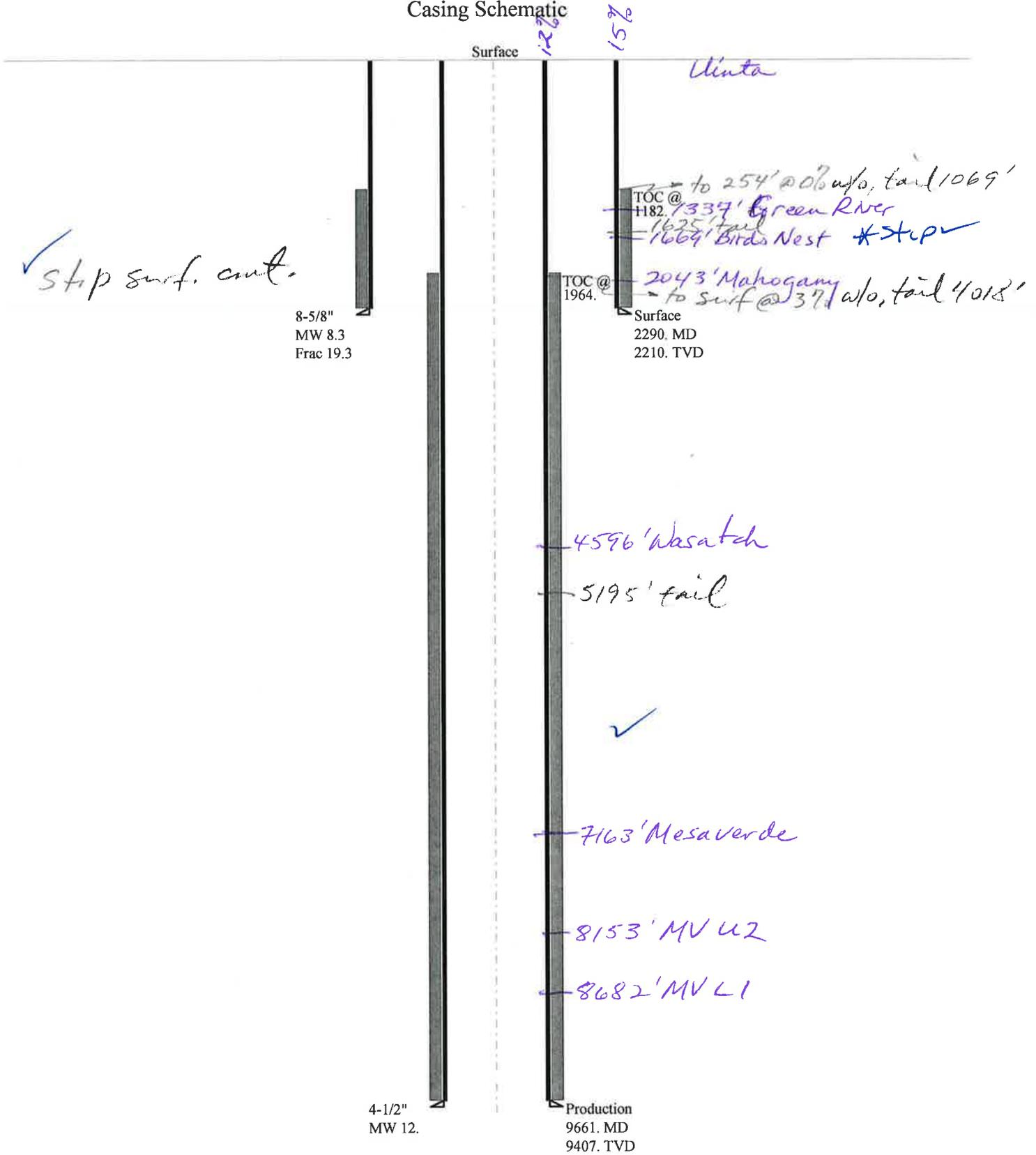
Calculations	Prod String	4.500	"
Max BHP (psi)	.052*Setting Depth*MW=	5870	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	4741	YES <input type="text"/>
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	3800	YES <input type="text" value="OK"/>
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	4304	NO <input type="text" value="Reasonable"/>
Required Casing/BOPE Test Pressure=		5000	psi
*Max Pressure Allowed @ Previous Casing Shoe=		2290	psi *Assumes 1psi/ft frac gradient

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

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

43047512160000 NBU 922-29L3CS

Casing Schematic



Well name:	43047512160000 NBU 922-29L3CS		
Operator:	KERR-MCGEE OIL & GAS ONSHORE, L.P.		
String type:	Surface	Project ID:	43-047-51216
Location:	UINTAH	COUNTY	

Design parameters:

Collapse

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

Minimum design factors:

Collapse:

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
Surface temperature: 74 °F
Bottom hole temperature: 105 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 100 ft
Cement top: 1,182 ft

Burst

Max anticipated surface pressure: 2,015 psi
Internal gradient: 0.120 psi/ft
Calculated BHP 2,280 psi

No backup mud specified.

Tension:

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

Tension is based on air weight.
Neutral point: 2,001 ft

Directional Info - Build & Drop

Kick-off point 300 ft
Departure at shoe: 511 ft
Maximum dogleg: 2 °/100ft
Inclination at shoe: 20 °

Re subsequent strings:

Next setting depth: 9,407 ft
Next mud weight: 12.000 ppg
Next setting BHP: 5,864 psi
Fracture mud wt: 19.250 ppg
Fracture depth: 2,290 ft
Injection pressure: 2,290 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	2290	8.625	28.00	I-55	LT&C	2210	2290	7.892	90684
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	956	1880	1.966	2280	3390	1.49	61.9	348	5.62 J

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

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

Date: September 16, 2010
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 2210 ft, a mud weight of 8.33 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

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

Well name:	43047512160000 NBU 922-29L3CS		
Operator:	KERR-MCGEE OIL & GAS ONSHORE, L.P.		
String type:	Production	Project ID:	43-047-51216
Location:	UINTAH COUNTY		

Design parameters:

Collapse

Mud weight: 12.000 ppg
 Internal fluid density: 1.000 ppg

Burst

Max anticipated surface pressure: 3,795 psi
 Internal gradient: 0.220 psi/ft
 Calculated BHP: 5,864 psi

No backup mud specified.

Minimum design factors:

Collapse:

Design factor: 1.125

Burst:

Design factor: 1.00

Tension:

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

Tension is based on air weight.
 Neutral point: 7,974 ft

Environment:

H2S considered? No
 Surface temperature: 74 °F
 Bottom hole temperature: 206 °F
 Temperature gradient: 1.40 °F/100ft
 Minimum section length: 100 ft
 Cement top: 1,964 ft

Directional Info - Build & Drop

Kick-off point: 300 ft
 Departure at shoe: 1556 ft
 Maximum dogleg: 2 °/100ft
 Inclination at shoe: 0 °

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	9661	4.5	11.60	I-80	LT&C	9407	9661	3.875	127525
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	5376	6360	1.183	5864	7780	1.33	109.1	212	1.94 J

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

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

Date: September 16, 2010
 Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 9407 ft, a mud weight of 12 ppg. An internal gradient of .052 psi/ft was used for collapse from TD to TD. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

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

ON-SITE PREDRILL EVALUATION

Utah Division of Oil, Gas and Mining

Operator KERR-MCGEE OIL & GAS ONSHORE, L.P.
Well Name NBU 922-29L3CS
API Number 43047512160000 **APD No** 2881 **Field/Unit** NATURAL BUTTES
Location: 1/4,1/4 SESW **Sec** 29 **Tw** 9.0S **Rng** 22.0E 822 FSL 1637 FWL
GPS Coord (UTM) **Surface Owner**

Participants

See Other Comments.

Regional/Local Setting & Topography

The general area is within the Natural Buttes Unit in the lower portion of the Sand Wash Drainage of Uintah, County, approximately 37 air miles and 47.6 road miles south of Vernal, Utah. Access is by State of Utah Highways, Uintah County and existing oilfield development roads to the site. Topography of the Sand Wash area is characterized by broad open flats dissected by numerous sub-drainages, which often become steep with ridges and draws with exposed sandstone layers. No perennial streams occur in the drainage. Individual draws or washes are ephemeral with spring runoff or flows from sometimes-intense summer rainstorms. No springs exist in the area. An occasional constructed pond occurs furnishing water for antelope or livestock.

The NBU 922-29N pad will be created by enlarging the existing pad of the NBU-922NT. gas well. Six gas wells, to be directionally drilled, will be added. They are the NBU 922-29L3CS, 922-29M2AS, 922-29N2BS, 922-29N3BS, 922-30I4BS and 922-30I4CS.

Significant cut will be necessary on the southwest into a steep rocky hillside. To reduce the cut into this hillside the pad will be narrowed 25 feet. Reserve pit Corner C will be angled to reduce the fill needed in this corner. A drainage ditch will be constructed on the edge of the bench around the north side of the pit tying in with a ditch coming around the southeast side of the pad. The pad extends west into a drainage that will be filled. No diversion is needed here. A drainage to the north will be missed. Sand Wash is about 1/2 mile to the west of the site and the White River about 1 1/2 mile down drainage. The selected site as adjusted appears to be suitable for enlarging a pad, drilling and operating the proposed wells and is the only site in the general area.

Both the surface and minerals for the NBU 922-29L3CS, 922-29M2AS, 922-29N2BS, and the 922-29N3BS are owned by SITLA. The minerals for the NBU 922-30I4BS and 922-30I4CS are owned by the United States Government and administered by the BLM.

Surface Use Plan

Current Surface Use

- Grazing
- Wildlfe Habitat
- Existing Well Pad

New Road Miles	Well Pad	Src Const Material	Surface Formation
0	Width 342 Length 450	Onsite	UNTA

Ancillary Facilities N

Waste Management Plan Adequate?

Environmental Parameters

Affected Floodplains and/or Wetlands N

Flora / Fauna

Vegetation is a poor desert shrub type, which includes shadscale, curly mesquite, broom snakeweed and halogeton..

Antelope, sheep during the winter, rabbits, coyotes, and small mammals, birds and raptors.

Soil Type and Characteristics

Surface soils are shallow and rocky

Erosion Issues N

Sedimentation Issues Y

Site Stability Issues N

Drainage Diverson Required? Y

A drainage ditch will be constructed on the edge of the bench around the north side of the pit tying in with a ditch coming around the southeast side of the pad.

Berm Required? N

Erosion Sedimentation Control Required? Y

A drainage ditch will be constructed on the edge of the bench around the north side of the pit tying in with a ditch coming around the southeast side of the pad.

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

Reserve Pit

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

Characteristics / Requirements

The proposed reserve pit is 125' x 180' x 12' deep located in a cut on the north side of the location. Kerr McGee plans a 30-mil liner with a double felt sub-liner.

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

Other Observations / Comments

Floyd Bartlett (DOGM), Sheila Wopsock, Clay Einerson, Mac Burton, Jordon Portillo, Roger Perry, Laura Gianokas, Doyle Holmes, Kenny Gathings (Kerr McGee), Mitch Batty, John Slaugh, (Timberline Engineering and Land Surveying), Jim Davis (SITLA), Ben Williams, Alex Hansen (UDWR), Travis Slaugh (Uintah County), David Gordon (BLM).

Floyd Bartlett
Evaluator

8/25/2010
Date / Time

Application for Permit to Drill

Statement of Basis

9/27/2010

Utah Division of Oil, Gas and Mining

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APD No	API WellNo	Status	Well Type	Surf Owner	CBM
2881	43047512160000	LOCKED	GW	S	No
Operator	KERR-MCGEE OIL & GAS ONSHORE, L.P.		Surface Owner-APD		
Well Name	NBU 922-29L3CS		Unit	NATURAL BUTTES	
Field	NATURAL BUTTES		Type of Work	DRILL	
Location	SESW 29 9S 22E S 822 FSL 1637 FWL		GPS Coord (UTM)	630887E	4428904N

Geologic Statement of Basis

Kerr McGee proposes to set 2,290' of surface casing at this location. The depth to the base of the moderately saline water at this location is estimated to be at a depth of 2,800'. A search of Division of Water Rights records shows no water wells within a 10,000 foot radius of the proposed location. The surface formation at this site is the Uinta Formation. The Uinta Formation is made up of interbedded shales and sandstones. The sandstones are mostly lenticular and discontinuous and should not be a significant source of useable ground water. The proposed casing and cement should adequately protect any usable ground water. Production casing cement should be brought up above the base of the moderately saline ground water in order to isolate fresher waters uphole.

Brad Hill
APD Evaluator

9/27/2010
Date / Time

Surface Statement of Basis

The general area is within the Natural Buttes Unit in the lower portion of the Sand Wash Drainage of Uintah, County, approximately 37 air miles and 47.6 road miles south of Vernal, Utah. Access is by State of Utah Highways, Uintah County and existing oilfield development roads to the site. Topography of the Sand Wash area is characterized by broad open flats dissected by numerous sub-drainages, which often become steep with ridges and draws with exposed sandstone layers. No perennial streams occur in the drainage. Individual draws or washes are ephemeral with spring runoff or flows from sometimes-intense summer rainstorms. No springs exist in the area. An occasional constructed pond occurs furnishing water for antelope or livestock.

The NBU 922-29N pad will be created by enlarging the existing pad of the NBU-922NT. gas well. Six gas wells, to be directionally drilled, will be added. They are the NBU 922-29L3CS, 922-29M2AS, 922-29N2BS, 922-29N3BS, 922-30I4BS and 922-30I4CS.

Significant cut will be necessary on the southwest into a steep rocky hillside. To reduce the cut into this hillside the pad will be narrowed 25 feet. Reserve pit Corner C will be angled to reduce the fill needed in this corner. A drainage ditch will be constructed on the edge of the bench around the north side of the pit tying in with a ditch coming around the southeast side of the pad. The pad extends west into a drainage that will be filled. No diversion is needed here. A drainage to the north will be missed. Sand Wash is about 1/2 mile to the west of the site and the White River about 1 1/2 mile down drainage. The selected site as adjusted appears to be suitable for enlarging a pad, drilling and operating the proposed wells and is the only site in the general area.

Both the surface and minerals for the NBU 922-29L3CS, 922-29M2AS, 922-29N2BS, and the 922-29N3BS are owned by SITLA. Jim Davis represented SITLA at the pre-site investigation. Mr. Davis had no concerns pertaining to this location excepted as covered above. SITLA will provide site reclamation standards and a seed mix. Mr. David Gordon represented the BLM. The minerals for the NBU 922-30I4BS and 922-30I4CS are owned by the United States Government and administered by the BLM. Mr. Gordon had no comments on the proposal.

Ben Williams and Alex Hansen represented the Utah Division of Wildlife Resources. Mr. Williams stated the

Application for Permit to Drill Statement of Basis

9/27/2010

Utah Division of Oil, Gas and Mining

Page 2

area is classified as crucial yearlong antelope habitat but recommended no restrictions for this species. No other wildlife will be significantly affected.

Floyd Bartlett
Onsite Evaluator

8/25/2010
Date / Time

Conditions of Approval / Application for Permit to Drill

Category	Condition
Pits	A synthetic liner with a minimum thickness of 30 mils with a double felt subliner shall be properly installed and maintained in the reserve pit.
Surface	Drainages adjacent to the proposed pad shall be diverted around the location.
Surface	The reserve pit shall be fenced upon completion of drilling operations.
Surface	The well site shall be bermed to prevent fluids from leaving the pad.

WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 7/30/2010

API NO. ASSIGNED: 43047512160000

WELL NAME: NBU 922-29L3CS

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

PHONE NUMBER: 720 929-6156

CONTACT: Danielle Piernot

PROPOSED LOCATION: SESW 29 090S 220E

Permit Tech Review:

SURFACE: 0822 FSL 1637 FWL

Engineering Review:

BOTTOM: 1601 FSL 0289 FWL

Geology Review:

COUNTY: UINTAH

LATITUDE: 40.00208

LONGITUDE: -109.46667

UTM SURF EASTINGS: 630887.00

NORTHINGS: 4428904.00

FIELD NAME: NATURAL BUTTES

LEASE TYPE: 3 - State

LEASE NUMBER: ML 22935

PROPOSED PRODUCING FORMATION(S): WASATCH-MESA VERDE

SURFACE OWNER: 3 - State

COALBED METHANE: NO

RECEIVED AND/OR REVIEWED:

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

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: Suspends General Siting
- R649-3-11. Directional Drill

Comments: Presite Completed

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



GARY R. HERBERT
Governor

GREGORY S. BELL
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

Well Name: NBU 922-29L3CS
API Well Number: 43047512160000
Lease Number: ML 22935
Surface Owner: STATE
Approval Date: 9/27/2010

Issued to:

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

Authority:

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

Duration:

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

Commingle:

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

General:

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

Conditions of Approval:

In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

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

Surface casing shall be cemented to the surface.

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

Additional Approvals:

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

- Any changes to the approved drilling plan – contact Dustin Doucet
- Significant plug back of the well – contact Dustin Doucet
- Plug and abandonment of the well – contact Dustin Doucet

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
OR
submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website at <https://oilgas.ogm.utah.gov>
- 24 hours prior to testing blowout prevention equipment - contact Dan Jarvis
- 24 hours prior to cementing or testing casing – contact Dan Jarvis
- Within 24 hours of making any emergency changes to the approved drilling program – contact Dustin Doucet
- 24 hours prior to commencing operations to plug and abandon the well – contact Dan Jarvis

Contact Information:

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

- Carol Daniels 801-538-5284 - office
- Dustin Doucet 801-538-5281 - office
801-733-0983 - after office hours
- Dan Jarvis 801-538-5338 - office
801-231-8956 - after office hours

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:



Acting 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: ML 22935
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: 7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: NBU 922-29L3CS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047512160000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6007 Ext
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0822 FSL 1637 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESW Section: 29 Township: 09.0S Range: 22.0E 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: 12/20/2010	<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 checked="" type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <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 to change the total depth (TD) to include the Blackhawk formation, which is in the Mesaverde group for this well. Please see the attached for additional details. All of the original information remains the same. Please contact the undersigned with any questions and/or comments. Thank you.

Approved by the Utah Division of Oil, Gas and Mining

Date: 12/21/2010

By: *Danielle Piernot*

NAME (PLEASE PRINT) Danielle Piernot	PHONE NUMBER 720 929-6156	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 12/20/2010	

Well name:	43047512160000 NBU 922-29L3CSrev.	
Operator:	Kerr McGee Oil & Gas Onshore L.P.	Project ID:
String type:	Production	43-047-51216-0000
Location:	Uintah County, Utah	

Design parameters:

Collapse

Mud weight: 13.000 ppg
Design is based on evacuated pipe.

Minimum design factors:

Collapse:

Design factor 1.125

Environment:

H2S considered? No
Surface temperature: 75 °F
Bottom hole temperature: 221 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 1,500 ft

Burst

Max anticipated surface pressure:

Internal gradient: 0.220 psi/ft
Calculated BHP: 7,029 psi

No backup mud specified.

Burst:

Design factor 1.00

Cement top:

1,565 ft w/128 w.o
Surf. Csg @ 2510' ✓ ok.

4,739 psi → 5 in. PIPE proposed ✓

Tension:

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

Directional well information:

Kick-off point: 1950 ft
Departure at shoe: 1573 ft
Maximum dogleg: 2 °/100ft
Inclination at shoe: 0 °

Tension is based on buoyed weight.
Neutral point: 8,641 ft

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	10664	4.5	11.60	HCP-110	LT&C	10408	10664	3.875	930.6
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	7029	8650	1.231 ✓	7029	10690	1.52 ✓	97	279	2.87 J ✓

Approved by the Utah Division of Oil, Gas and Mining

Date: 12/21/2010
By: Dustin K. Doucet

Prepared by: Dustin K. Doucet
Div of Oil, Gas & Mining

Phone: (801) 538-5281
FAX: (801) 359-3940

Date: December 21, 2010
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 10408 ft, a mud weight of 13 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

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



KERR-McGEE OIL & GAS ONSHORE LP DRILLING PROGRAM

CASING PROGRAM

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS		
						BURST	COLLAPSE	TENSION
CONDUCTOR	14"	0-40'						
SURFACE	8-5/8"	0 to 2,510'	28.00	IJ-55	LTC	3,390	1,880	348,000
PRODUCTION	4-1/2"	0 to 10,664'	11.60	HCP-110	BTC	10,690	8,650	367,000
						4.56	1.23	3.70

*Burst on surface casing is controlled by fracture gradient as shoe with gas gradient above.

D.F. = 2.14

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 = 13.0 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 4,628 psi

3) Maximum Anticipated Bottom Hole Pressure (MABHP) = Pore Pressure at TD

(Burst Assumptions: TD = 13.0 ppg)

0.66 psi/ft = bottomhole gradient

(Collapse Assumption: Fully Evacuated Casing, Max MW)

(Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

MABHP 6,918 psi

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD	
SURFACE	LEAD	500'	Premium cmt + 2% CaCl	110	60%	15.80	1.15	
Option 1			+ 0.25 pps flocele					
	TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt	160	0%	15.80	1.15	
			+ 2% CaCl + 0.25 pps flocele					
SURFACE		NOTE: If well will circulate water to surface, option 2 will be utilized						
Option 2	LEAD	2,010'	65/35 Poz + 6% Gel + 10 pps gilsonite	110	35%	11.00	3.82	
			+ 0.25 pps Flocele + 3% salt BWOW					
	TAIL	500'	Premium cmt + 2% CaCl	100	35%	15.80	1.15	
			+ 0.25 pps flocele					
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.80	1.15	
PRODUCTION	LEAD	4,114'	Premium Lite II + 3% KCl + 0.25 pps	310	20%	11.00	3.38	
			celloflake + 5 pps gilsonite + 10% gel					
			+ 0.5% extender					
	TAIL	6,550'	50/50 Poz/G + 10% salt + 2% gel	1,380	20%	14.30	1.31	
			+ 0.1% R-3					

*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: John Huycke / Emile Goodwin

DRILLING SUPERINTENDENT: John Merkel / Lovel Young

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: ML 22935
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: 7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: NBU 922-29L3CS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047512160000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6007 Ext
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0822 FSL 1637 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESW Section: 29 Township: 09.0S Range: 22.0E 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

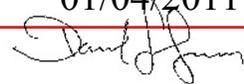
TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 12/20/2010	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<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
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	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input checked="" type="checkbox"/> OTHER	OTHER: <input type="text" value="ACTS (Pit Refurb)"/>

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

Kerr-McGee Oil & Gas Onshore, LP is requesting to refurb the existing pit on this multi-well pad for completion operations. The refurb pit will be relined per the requirements in the COA of the APD. Upon completion of the wells on this pad, Kerr-McGee is also requesting to utilize this pit as an ACTS staging pit to be utilized for other completion operations in the area. There will be 2-500 bbl temporary frac tanks placed on the location. The trucks will unload water into these tanks before the water is placed into the refurbished pit. The purpose of the frac tanks is to collect any hydro-carbons that may have been associated with the other completion operations before releasing into the pit. We plan to keep this pit open for 1 year. During this time the surrounding well location completion fluids will be recycled in this pit and utilized for other frac jobs in the surrounding sections.

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

Date: 01/04/2011

By: 

NAME (PLEASE PRINT) Danielle Piernot	PHONE NUMBER 720 929-6156	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 12/20/2010	



The Utah Division of Oil, Gas, and Mining

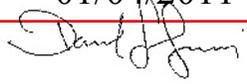
- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Sundry Conditions of Approval Well Number 43047512160000

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

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

Date: 01/04/2011
By: 

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 922-29L3CS
 Qtr/Qtr SESW Section 29 Township 9S Range 22E
 Lease Serial Number ML 22935
 API Number 4304751216

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

Date/Time 01/07/2011 10:00 HRS AM PM

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

- Surface Casing
 Intermediate Casing
 Production Casing
 Liner
 Other

RECEIVED

JAN 05 2011

DIV. OF OIL, GAS & MINING

Date/Time 01/27/2011 08:00 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

435.828.0986 OR LOVEL YOUNG AT 435.781.7051

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<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input checked="" type="checkbox"/> SPUD REPORT Date of Spud: 1/7/2011	<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
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	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <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" CONDUCTOR HOLE TO 40'.
 RAN 14" 36.7# SCHEDULE 10 CONDUCTOR PIPE. CMT W/28 SX READY MIX SPUD WELL LOCATION ON JANUARY 07, 2011 AT 13:30 HRS.

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

NAME (PLEASE PRINT) Gina Becker	PHONE NUMBER 720 929-6086	TITLE Regulatory Analyst II
SIGNATURE N/A		DATE 1/11/2011

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: ML 22935
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<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 1/18/2011	<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
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MIRU PROPETRO #11 AIR RIG ON JANUARY 15, 2011. DRILLED 11" SURFACE HOLE TO 2600'. RAN 8 5/8" 28# IJ-55 SURFACE CSG. PUMP 170 BBLs FRESH WATER. PUMP 20 BBLs GEL WATER. LEAD CEMENT W/ 200 SX CLASS G PREM LITE @ 11.0 PPG, 3.82 YD. TAILED CEMENT W/ 175 SX CLASS G PREM LITE @ 15.8 PPG, 1.15 YD. NO CIRC. DROP PLUG ON THE FLY, DISPLACED W/ 158 BBLs WATER. LIFT PRESSURE WAS 410 PSI, BUMP PLUG & HOLD 900 PSI FOR 5 MIN. FLOAT HELD; NO CEMENT TO SURFACE. TOP OUT W/ 190 SX CLASS G PREM LITE @ 15.8 PPG, 1.15 YD. WOC. TOP OUT #2 W/ 200 SX CLASS G PREM LITE @ 15.8 PPG, 1.15 YD. CEMENT TO SURFACE. WORT.

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

NAME (PLEASE PRINT) Gina Becker	PHONE NUMBER 720 929-6086	TITLE Regulatory Analyst II
SIGNATURE N/A		DATE 1/19/2011

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: ML 22935
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<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 2/28/2011	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
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	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

FINISHED DRILLING FROM 2600' TO 10,675' ON FEBRUARY 24, 2011. RAN 4 1/2" 11.6# P-110 PRODUCTION CSG. PUMP 40 BBLs SPACER, LEAD CEMENT W/ 490 SX CLASS G ECONOCEM @ 12.6 PPG, 1.93 YD. TAILED CEMENT W/ 1240 SX CLASS G 50/50 POZ MIX @ 14.3 PPG, 1.25 YD. DISPLACED W/ 1645 BBLs WATER W/ CLAYFIX & ALDACIDE G. FULL CIRC. THROUGHOUT JOB. 38 BBLs FLUSH WATER TO PIT. LIFT PSI OF 2700 @ 2 BBLs/MIN. BUMPED PLUG 2900 PSI OVER 3500 PSI. PRESSURE HELD 5 MINS. FLOATS HELD. FLOW BACK 2 BBLs. EST TOC FOR LEAD @ 54'; EST. TOC FOR TAIL @ 4300'. RD CEMENTERS AND CLEANED PITS. RELEASED ENSIGN RIG #145 ON FEBRUARY 28, 2011 @ 04:30 HRS.

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

NAME (PLEASE PRINT) Gina Becker	PHONE NUMBER 720 929-6086	TITLE Regulatory Analyst II
SIGNATURE N/A	DATE 3/1/2011	

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: ML 22935
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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
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0822 FSL 1637 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESW Section: 29 Township: 09.0S Range: 22.0E Meridian: S	COUNTY: UINTAH	
		STATE: UTAH
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<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: 7/5/2011	<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
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	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER: <input type="text"/>
		<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
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.		
THE SUBJECT WELL WAS PLACED ON PRODUCTION ON 07/05/2011 AT 3:00 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 7/8/2011	

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

AMENDED REPORT FORM 8
(highlight changes)

5. LEASE DESIGNATION AND SERIAL NUMBER:
ML 22935

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT or CA AGREEMENT NAME
UTU63047A

8. WELL NAME and NUMBER:
NBU 922-29L3CS

9. API NUMBER:
4304751216

10. FIELD AND POOL, OR WILDCAT
NATURAL BUTTES

11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
SESW 29 9S 22E S

12. COUNTY
UINTAH

13. STATE
UTAH

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

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

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

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

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

4. LOCATION OF WELL (FOOTAGES)
AT SURFACE: **SESW 822 FSL 1637 FWL S29, T9S, R22E**
AT TOP PRODUCING INTERVAL REPORTED BELOW: **NWSW 1614 FSL 273 FWL S29, T9S, R22E**
AT TOTAL DEPTH: **NWSW 1583 FSL 291 FWL S29, T9S, R22E**

BHL reviewed by JP

14. DATE SPURRED: 1/7/2011 15. DATE T.D. REACHED: 2/24/2011 16. DATE COMPLETED: 7/5/2011
ABANDONED READY TO PRODUCE

17. ELEVATIONS (DF, RKB, RT, GL):
4932 GL

18. TOTAL DEPTH: MD 10,675 TVD 10,412
19. PLUG BACK T.D.: MD 10,602 TVD 10,339

20. IF MULTIPLE COMPLETIONS, HOW MANY? *

21. DEPTH BRIDGE MD PLUG SET: TVD

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

SCBL/GR/CCL-BHV-SD/DSN/ACTR

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

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

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
20"	14" STL	36.7#		40		28			
11"	8 5/8" IJ-55	28#		2,589		765		0	
7 7/8"	4 1/2" P110	11.6#		10,646		1,730		140	

25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 3/8"	10,056							

26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)
(A) WASATCH	7,144	7,422		
(B) MESAVERDE	7,465	10,306		
(C)				
(D)				

27. PERFORATION RECORD

INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
7,144 7,422	0.36	15	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
7,465 10,306	0.36	166	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
			Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
			Open <input type="checkbox"/> Squeezed <input type="checkbox"/>

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

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
7144 - 10,306	PUMP 10,986 BBLs SLICK H2O & 261,857 LBS SAND

RECEIVED
AUG 09 2011

DIV. OF OIL, GAS & MINING

29. ENCLOSED ATTACHMENTS:

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

30. WELL STATUS:

PROD

31. INITIAL PRODUCTION

INTERVAL A (As shown in item #26)

DATE FIRST PRODUCED: 7/5/2011		TEST DATE: 7/10/2011		HOURS TESTED: 24		TEST PRODUCTION RATES: →	OIL - BBL: 0	GAS - MCF: 4,160	WATER - BBL: 432	PROD. METHOD: FLOWING
CHOKE SIZE: 2064	TBG. PRESS. 2,350	CSG. PRESS. 3,200	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL - BBL: 0	GAS - MCF: 4,160	WATER - BBL: 432	INTERVAL STATUS: PROD

INTERVAL B (As shown in item #26)

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

INTERVAL C (As shown in item #26)

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

INTERVAL D (As shown in item #26)

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

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

33. SUMMARY OF POROUS ZONES (Include Aquifers):

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

34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
GREEN RIVER	1,355				
BIRD'S NEST	1,675				
MAHOGANY	2,236				
WASATCH	4,847	7,437			
MESAVERDE	7,437	10,675	TD		

35. ADDITIONAL REMARKS (Include plugging procedure)

Attached is the chronological well history, perforation report and final survey. Completion chrono details individual frac stages.

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

NAME (PLEASE PRINT) ANDREW LYTLE TITLE REGULATORY ANALYST
 SIGNATURE  DATE 8/4/11

This report must be submitted within 30 days of

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

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

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

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

Phone: 801-538-5340
 Fax: 801-359-3940

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 922-29L3CS (BLUE) Spud Conductor: 1/7/2011 Spud Date: 1/15/2011
 Project: UTAH-UINTAH Site: NBU 922-29N PAD Rig Name No: PROPETRO/, ENSIGN 145/145
 Event: DRILLING Start Date: 1/5/2011 End Date: 2/28/2011
 Active Datum: RKB @4,945.00ft (above Mean Sea Level) UWI: NW/SW/0/9/S/22/E/29/0/0/26/PM/S/822/NW/0/1637/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
1/15/2011	17:00 - 20:00	3.00	MIRU	01	B	P		DRESS TOP OF CONDUCTOR. INSTALL DIVERTER HEAD AND BOWIE LINE. BUILD DITCH. MOVE RIG OVER HOLE AND RIG UP.. SET CATWALK AND PIPE RACKS. RIG UP AND PRIME PIT PUMP AND MUD PUMP.
	20:00 - 20:30	0.50	PRPSPD	01	B	P		P/U 1.83 DEG BENT HOUSING HUNTING MTR SN 8008 . 7/8 LOBE .17 RPM. M/U Q506 SN 7023549 1ST RUN, W/ 6-18'S. INSTALL RUBBER. PU GYRO TOOLS
	20:30 - 0:00	3.50	DRLSUR	02	C	P		SPUD SURFACE 1/16/2011 @ 20:30 HRS. DRILL/ SLIDE AND SURVEY 11" SURFACE HOLE F/40'-153' (113' @ 32'/HR) SURVEYING WITH MS SURVEY'S GYRO TOOL, PSI ON/ OFF 770/500, UP/ DOWN/ ROT 40/36/38. 550 GPM, 45 RPM ON TOP DRIVE, 15-18K WOB
1/16/2011	0:00 - 0:30	0.50	DRLSUR	02	C	P		DRILL/ SLIDE AND SURVEY 11" SURFACE HOLE F/153'-175' (22' @ 44'/HR) SURVEYING WITH MS SURVEY'S GYRO TOOL, PSI ON/ OFF 770/500, UP/ DOWN/ ROT 40/36/38. 550 GPM, 45 RPM ON TOP DRIVE, 15-18K WOB
	0:30 - 5:00	4.50	MAINT	08	B	X		POP OFF BLEW, COULDN'T GET IT TO RESET, HAD TO WAIT ON NEW ONE TO COME F/ VERNAL, INSTALL NEW POP OFF
	5:00 - 10:00	5.00	DRLSUR	02	C	P		DRILL/ SLIDE AND SURVEY 11" SURFACE HOLE F/175'- 300' (22' @ 44'/HR) SURVEYING WITH MS SURVEY'S GYRO TOOL, PSI ON/ OFF 790/550, UP/ DOWN/ ROT 42/38/40. 550 GPM, 45 RPM ON TOP DRIVE, 15-18K WOB
	10:00 - 13:30	3.50	DRLSUR	06	A	P		TOOH, PU AND ORIENT DIR TOOLS, TIH TO 300'
	13:30 - 0:00	10.50	DRLSUR	02	C	P		DRILL/ SLIDE AND SURVEY 11" SURFACE HOLE F/ 300'-1330' (1030" @ 98'/HR) PSI ON/ OFF 1220/980, UP/ DOWN/ ROT 63/56/59. 550 GPM, 45 RPM ON TOP DRIVE, 20K WOB, DRLG W/ H2O, CIRCULATE RESERVE PIT, PARTIAL LOSSES, NO AIR YET
1/17/2011	0:00 - 19:30	19.50	DRLSUR	02	C	P		DRILL/ SLIDE AND SURVEY 11" SURFACE HOLE F/ 1330'-2600' (1270" @ 65'/HR) PSI ON/ OFF 1670/1450, UP/ DOWN/ ROT 82/61/71. 550 GPM, 45 RPM ON TOP DRIVE, 20K WOB, DRLG W/ H2O, CIRCULATE RESERVE PIT, PARTIAL LOSSES.
	19:30 - 21:00	1.50	DRLSUR	05	F	P		CIRC AND COND HOLE CLEAN
	21:00 - 0:00	3.00	DRLSUR	06	A	P		TOOH LDDS AND DIR BHA
1/18/2011	0:00 - 2:00	2.00	DRLSUR	06	A	P		TOOH, LDDS, BIT, MTR AND DIR BHA
	2:00 - 3:30	1.50	CSG	12	A	P		RIG UP TO RUN 58 JTS OF 8.625" 28# SURFACE CSG, MOVE PIPE RACKS AND CSG OVER TO WORK AREA
	3:30 - 4:30	1.00	CSG	12	C	P		RUN 9 JTS OF 8.625" 28# SURFACE CSG, HAND DROPPED 6" PIN DOWN CSG STRING,
	4:30 - 6:00	1.50	CSG	22	O	X		PULL 9 JTS OOH TO RETRIEVE PIN FROM TOP OF BAFFLE PLATE
	6:00 - 9:30	3.50	CSG	12	C	P		HOLD SAFTEY MEETING RUN SHOE, SHOE JNT & 57 JNTS 8 5/8" 28# LT&C CSG W/ THE SHOE @2580' & THE BAFFEL @2534'
	9:30 - 10:00	0.50	CSG	12	B	P		HOLD SAFTEY MEETING R/U TO CEMENT 8 5/8" 28# SURF. CSG

US ROCKIES REGION
Operation Summary Report

Well: NBU 922-29L3CS (BLUE)	Spud Conductor: 1/7/2011	Spud Date: 1/15/2011
Project: UTAH-UINTAH	Site: NBU 922-29N PAD	Rig Name No: PROPETRO/, ENSIGN 145/145
Event: DRILLING	Start Date: 1/5/2011	End Date: 2/28/2011
Active Datum: RKB @4,945.00ft (above Mean Sea Level)	UWI: NW/SW/0/9/S/22/E/29/0/0/26/PM/S/822/NW/0/1637/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	10:00 - 12:00	2.00	CSG	12	E	P		HOLD SAFETY MEETING. INSTALL CEMENT HEAD. PSI TEST TO 2000 PSI. PUMP 170 BBLS OF 8.4# H2O AHEAD. NO CIRC. PUMP 20 BBLS OF 8.4# GEL WATER AHEAD. NO CIRC. PUMP 200 SX(136 BBLS) 11# 3.82 YIELD LEAD CEMENT, PUMP 175 SX (36 BBLS) OF 15.8# 1.15 YIELD TAIL(2% CALC, 1/4#/SK OF FLOCELE). NO CIRC. DROP PLUG ON FLY AND DISPLACE W/158 BBLS OF 8.3# H2O. LIFT PRESSURE WAS 410 PSI, BUMP PLUG AND HOLD 900 PSI FOR 5 MIN. FLOAT HELD,NO CEMENT TO SURF
	12:00 - 12:30	0.50	CSG	12	F	P		TOP OUT W/190 SKS 15.8 PPG CLAS "G" CEMENT W/ 1/15 CU/FT SK YEILD W/4% CACL2 & 1/4#/SK FLOCELE
	12:30 - 15:30	3.00	CSG	13	A	P		WAIT ON CEMENT
	15:30 - 16:00	0.50	CSG	12	F	P		TOP OUT W/200 SKS 15.8 PPG CLAS "G" CEMENT W/ 1/15 CU/FT SK YEILD W/4% CACL2 & 1/4#/SK FLOCELE,CEMENT TO SURF. RIG RELEASED @ 16:00 01/18/2011
	16:00 - 16:00	0.00	DRLSUR					CONDUCTOR CASING: Cond. Depth set: 40' Cement sx used: 28
								SPUD DATE/TIME: 1/15/2011 20:30
								SURFACE HOLE: Surface From depth: 40' Surface To depth: 2,600 Total SURFACE hours: 38.50 Surface Casing size: 8 5/8 # of casing joints ran: 58 Casing set MD: 2,580.0 # sx of cement: 200/175/390 Cement blend (ppg:) 11.0/15.8/15.8 Cement yield (ft3/sk): 3.82/1.15/1.15 # of bbls to surface: Describe cement issues: NONE Describe hole issues: NONE
2/17/2011	16:00 - 19:00	3.00	MIRU	01	A	P		RIG DOWN CATWALK AND PULL AHEAD. UNDO FLARE LINES. UNDO FLOW LINE. CLEAR ICE AND DIRT FROM UNDER SKID. INSTALL MATTING BOARDS.
	19:00 - 21:30	2.50	MIRU	01	C	P		SKID RIG 10' FOWARD OVER WELL #2 OF 6. SET DOWN STACK. CENTER RIG OVER HOLE. LEVEL RIG OVER HOLE. RECHECK RIG FOR CENTER. (HOLD CENTERED AND LEVEL J.G.) RIG UP CAT WALK.
	21:30 - 23:00	1.50	MIRU	14	A	P		NIPPLE UP BOPE. INSTALL FLOW LINES, FLARE LINES, INSTALL TURNBUCKLE.
	23:00 - 0:00	1.00	MIRU	15	A	P		HOLD SAFETY MEETING. RIG UP TESTER. UPPER TOP DRIVE VALVE, FLOOR VALVE, TIW VAVLE AND DART VAVLE TO 5000 PSI FOR 10 MIN AND 250 PSI FOR 5 MIN.
2/18/2011	0:00 - 4:00	4.00	MIRU	15	A	P		TEST PIPE RAMS, BLIND RAMS, INSIDE BOP VALVES, KILL LINE VALVE, CHECK VAVLE, HCR VALVE, CHOKE LINE, CHOKE MANIFOLD 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 CASING TO 1500 PSI FOR 30 MIN.

US ROCKIES REGION
Operation Summary Report

Well: NBU 922-29L3CS (BLUE)		Spud Conductor: 1/7/2011		Spud Date: 1/15/2011	
Project: UTAH-UINTAH		Site: NBU 922-29N PAD		Rig Name No: PROPETRO/, ENSIGN 145/145	
Event: DRILLING		Start Date: 1/5/2011		End Date: 2/28/2011	
Active Datum: RKB @4,945.00ft (above Mean Sea Level)		UWI: NW/SW/0/9/S/22/E/29/0/0/26/PM/S/822/W/0/1637/0/0			

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	4:00 - 7:30	3.50	MIRU	06	A	P		HOLD SAFETY MEETING. P/U SDI 7:8 5.0 STG. 1.5 BH .23 RPG MOTOR. MAKE UP Q506F W/ 6-14'S. SCRIBE MOTOR AND ORIENT DIRECTIONAL TOOLS. TRIP IN HOLE TO 2400'.
	7:30 - 10:30	3.00	MIRU	09	A	P		HOLD SAFETY MEETING, SLIP AND CUT DRILL LINE.
	10:30 - 11:30	1.00	MIRU	01	B	P		FILL PITS, PERFORM PRESPUD INSPECTION AND SAFETY MEETING. INSTALL NEW ROT HEAD RUBBER.
	11:30 - 12:00	0.50	MIRU	07	A	P		SERVICE RIG.
	12:00 - 13:30	1.50	DRLPRO	02	F	P		SPUD 2/18/2011 13:30 DRILL CEMENT AND FLOAT EQUIPMENT FROM 2500'-2609'. CSG SHOE 2589'. BAFFLE @ 2544'. WOB 10 K, RPM 35, DH RPM 69.
	13:30 - 18:00	4.50	DRLPRO	02	D	P		DRILL SLIDE 2609'-3030' (421', 94'/HR) WOB 15-20K SPM 107, GPM 482, PSI ON/OFF 1475/1025, DIFF 450, MOT RPM 111, ROT 45-50, TOR ON/OFF 7/3, PU/SO/ROT 115/100/107, DRAG 8K. CIRC RESERVE PIT W/ 8.4# WATER. SLIDE 138' @ 90'/HR 33% SLIDE 66% ROTATION.
	18:00 - 0:00	6.00	DRLPRO	02	D	P		DRILL SLIDE 3030'- 3635' (605', 101'/HR) WOB 15-20K SPM 107, GPM 482, PSI ON/OFF 1500/1100, DIFF 400, MOT RPM 111, ROT 45-50, TOR ON/OFF 8/5, PU/SO/ROT 130/107/117, DRAG 13K. CIRC RESERVE PIT W/ 8.4# WATER. SLIDE 199' @ 90'/HR 33% SLIDE 66% ROTATION.
2/19/2011	0:00 - 11:30	11.50	DRLPRO	02	D	P		DRILL SLIDE 3635'- 4660' (1025', 89'/HR) WOB 18-23K SPM 105, GPM 472, PSI ON/OFF 1600/1100, DIFF 500, MOT RPM 109, ROT 45-50, TOR ON/OFF 9/7, PU/SO/ROT 151/123/130, DRAG 21K. CIRC RESERVE PIT W/ 8.4# WATER. SLIDE 338' @ 85'/HR 33% SLIDE 66% ROTATION. BOP DRILL 80 SEC.
	11:30 - 12:00	0.50	DRLPRO	07	A	P		RIG SERVICE. FUNCTION BOP'S. SERVICE TOP DRIVE.
	12:00 - 0:00	12.00	DRLPRO	02	D	P		DRILL SLIDE 4660'-5899' (1239', 103'/HR) WOB 18-23K SPM 105, GPM 472, PSI ON/OFF 1900/1400, DIFF 500, MOT RPM 109, ROT 45-50, TOR ON/OFF 11/9, PU/SO/ROT 178/128/141, DRAG 37K. MUDDING UP @ 5500', MUD IN 8.9 VIS 34, MUD OUT 9.0 VIS 34. SLIDE 176' @ 75'/HR 14% SLIDE 86% ROTATION.
2/20/2011	0:00 - 14:00	14.00	DRLPRO	02	D	P		DRILL SLIDE 5899'- 7106' (1207', 86'/HR) WOB 18-23K SPM 105, GPM 472, PSI ON/OFF 2000/1550, DIFF 450, MOT RPM 109, ROT 45-50, TOR ON/OFF 11/9, PU/SO/ROT 174/130/154, DRAG 20 K. MUD IN 9.4 VIS 36, MUD OUT 9.5 VIS 37. SLIDE 50' @ 70'/HR 4% SLIDE 96% ROTATION.
	14:00 - 14:30	0.50	DRLPRO	07	A	P		RIG SERVICE, SERVICE TOP DRIVE. FUNCTION PIPE RAMS.
	14:30 - 0:00	9.50	DRLPRO					DRILL SLIDE 7106'-7635' (529', 56'/HR) WOB 18-24K SPM 105, GPM 472, PSI ON/OFF 2100/1750, DIFF 350, MOT RPM 109, ROT 45-50, TOR ON/OFF 13/9, PU/SO/ROT 227/156/177, DRAG 50 K. MUD IN 9.9 VIS 38, MUD OUT 9.9 VIS 38. SLIDE 55' @ 60'/HR 10% SLIDE 90% ROTATION. (FROM 7150'-7500' DRILLED W/ 30 ROT, SPM 90, GPM 405, MOT RPM 93) (BG GAS 25-155u, CONN GAS 410-890u, HIGH GS-890u)

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 922-29L3CS (BLUE)		Spud Conductor: 1/7/2011		Spud Date: 1/15/2011	
Project: UTAH-UINTAH		Site: NBU 922-29N PAD		Rig Name No: PROPETRO/, ENSIGN 145/145	
Event: DRILLING		Start Date: 1/5/2011		End Date: 2/28/2011	
Active Datum: RKB @4,945.00ft (above Mean Sea Level)		UWI: NW/SW/0/9/S/22/E/29/0/0/26/PM/S/822/W/0/1637/0/0			

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
2/21/2011	0:00 - 11:00	11.00	DRLPRO	02	D	P		DRILL SLIDE 7635'- 8194' (559', 51'/HR) WOB 20-25K SPM 105, GPM 472 , PSI ON/OFF 2200/1850, DIFF 350, MOT RPM 109, ROT 45-50, TOR ON/OFF 14/10, PU/SO/ROT 230/168/191, DRAG 39 K. MUD IN 10.3 VIS 39, MUD OUT 10.3 VIS 39. SLIDE 40' @ 20'/HR 7% SLIDE 93% ROTATION. NO LOSSES.
	11:00 - 11:30	0.50	DRLPRO	07	A	P		RIG SERVICE, FUNCTION PIPE RAMS AND ANNULAR.
	11:30 - 0:00	12.50	DRLPRO	02	D	P		DRILL SLIDE 8194'- 8727' (533', 44'/HR) WOB 18-25K SPM 105, GPM 472 , PSI ON/OFF 2400/2025, DIFF 375, MOT RPM 109, ROT 40-50, TOR ON/OFF 17/13, PU/SO/ROT 239/164/194, DRAG 45 K. MUD IN 11.1 VIS 41, MUD OUT 11.1+ VIS 42. SLIDE 50' @ 15'/HR 9% SLIDE 92% ROTATION. NO LOSSES. 15' FLARE FROM 8511' FOR 25 MIN.
2/22/2011	0:00 - 9:00	9.00	DRLPRO	02	A	P		DRILL SLIDE 8727'- 9083' (356', 40'/HR) WOB 18-26K SPM 105, GPM 472 , PSI ON/OFF 2475/2200, DIFF 275, MOT RPM 109, ROT 40-50, TOR ON/OFF 15/13, PU/SO/ROT 256/183/196, DRAG 60 K. MUD IN 11.5 VIS 42, MUD OUT 11.5 VIS 42. SLIDE 20' @ 15'/HR 6% SLIDE 94% ROTATION. SLIGHT SEEPAGE @ 9010'. HEALED UP W/ LCM SWEEP. LOSS 12 BBLS
	9:00 - 10:00	1.00	DRLPRO	05	A	P		CIRC AND CONDITION HOLE. CLEAN HOLE. PREPARE FOR TRIP. MIX 30 BBL 13.5# PILL. BOP DRILL 75 SEC.
	10:00 - 20:00	10.00	DRLPRO	06	A	P		TRIP OUT OF HOLE, PUMP AND ROT. OUT TO 7200'. MAX OVER PULL OF 80 K. PUMP DRY JOB @ 6800'. WORK THROUGH TIGHT SPOT @ 6075'. TRIP OUT OF HOLE. PULL DIRECTIONAL TOOLS. BREAK BIT AND LD MOTOR. WORK BLIND AND PIPE RAMS. RIG IS LEVEL AND CENTER OVER HOLE.
	20:00 - 0:00	4.00	DRLPRO	06	A	P		P/U SDI .14 RPG 1.5 BH MOTOR SN 6496. MAKE UP Q506FX SN 7132937 W 6-15'S. TRIP IN HOLE W/ HWDP. INSTALL ROT HEAD RUBBER. P/U 28 JTS OF FRESHLY HARDBANDED DP W/ CSG FREINDLY HARD BAND.
2/23/2011	0:00 - 2:00	2.00	DRLPRO	06	A	P		TRIP IN HOLE TO 5327'. FILLED PIPE 2700', AND 5200'.
	2:00 - 3:30	1.50	DRLPRO	03	A	X		TIGHT HOLE, WASH AND REAM HOLE ON AND OFF THROUGH 5327'-5888'. HOLE PACKED OFF. WORK OUT OF TIGHT SPOT. MUD WT 11.3 VIS 42. LOSS 20 BBLS WHILE HOLE WAS PACKING OFF.
	3:30 - 4:30	1.00	DRLPRO	05	A	X		CIRC HOLE, LARGE AMOUNTS OF SLOUGHING SHELL AND SANDS IN RETURNS. SMALL CUTTING SIZES. CIRC HOLE CLEAN.
	4:30 - 6:00	1.50	DRLPRO	03	A	X		WASH AND REAM 5888'-6465'. LOTS OF SLOUGH SHELLS IN RETURNS.
	6:00 - 7:00	1.00	DRLPRO	05	A	X		CIRC HOLE, LARGE AMOUNTS OF SLOUGHING SHELLS AND SANDS IN RETURNS. SMALL CUTTING SIZES. MIX LCM SWEEP TO HELP CLEAN HOLE. CIRC HOLE CLEAN. MUD WT 11.4 VIS 42. NO LOSSES.
	7:00 - 9:30	2.50	DRLPRO	06	A	P		TRIP IN HOLE. WASH THROUGH BRIDGE @ 8384'. TRIP TO 8950'. 15' FLARE AND HEAVY SHELL AND SAND RETURNS.
	9:30 - 10:00	0.50	DRLPRO	03	D	P		WASH DOWN FROM 8950'-9083' 30' FILL. 15' FLARE BOTTOMS UP. MUD WT 11.5 VIS 42, MUD OUT 11.2 VIS 40. HEAVY SLOUGHING SHELLS AND SANDS WITH RETURNS.

US ROCKIES REGION
Operation Summary Report

Well: NBU 922-29L3CS (BLUE)		Spud Conductor: 1/7/2011		Spud Date: 1/15/2011	
Project: UTAH-UINTAH			Site: NBU 922-29N PAD		Rig Name No: PROPETRO/, ENSIGN 145/145
Event: DRILLING			Start Date: 1/5/2011		End Date: 2/28/2011
Active Datum: RKB @4,945.00ft (above Mean Sea Level)			UWI: NW/SW/0/9/S/22/E/29/0/0/26/PM/S/822/W/0/1637/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	10:00 - 12:30	2.50	DRLPRO	02	D	P		DRILL SLIDE 9083'- 9192' (109', 44'/HR) WOB 13-17K SPM 105, GPM 472 , PSI ON/OFF 2450/2150, DIFF 300, MOT RPM 66, ROT 45, TOR ON/OFF 17/13, PU/SO/ROT 248/183/202, DRAG 46K. MUD IN 11.5 VIS 41, MUD OUT 11.4 VIS 42. SLIDE 20' @ 15'/HR 18% SLIDE 82% ROTATION. NORMAL RETURNS.
	12:30 - 13:00	0.50	DRLPRO	07	A	P		RIG SERVICE. SERVICE TOP DRIVE.
	13:00 - 0:00	11.00	DRLPRO	02	D	P		DRILL SLIDE 9192'- 9841' (649', 59'/HR) WOB 15-22K SPM 105, GPM 472 , PSI ON/OFF 2825/2500, DIFF 325, MOT RPM 66, ROT 45, TOR ON/OFF 14/16, PU/SO/ROT 252/180/205, DRAG 48K. MUD IN 12.2 VIS 43 LCM 5%, MUD OUT 12.1 VIS 44 5%LCM. SLIDE 0' 100% ROT. GAS SHOWS @ 9112', AND 9270'. 15-25' FLARES. SLIGHT SEEPAGE AFTER ZONES. LOSING 10 BBLS HR. RAISED LCM TO 5% TO CONTROL LOSSES.
2/24/2011	0:00 - 13:00	13.00	DRLPRO	02	D	P		DRILL 9841'-10279' (438', 34'/HR) WOB 18-23 K SPM 95, GPM 428 , PSI ON/OFF 2500/2200, DIFF 300, MOT RPM 60, ROT 40-50, TOR ON/OFF 13/16, PU/SO/ROT 262/193/217, DRAG 45K. MUD IN 12.3 VIS 45 LCM 6%, MUD OUT 12.3 VIS 47 6%LCM. SLIDE 0' 100% ROT.
	13:00 - 13:30	0.50	DRLPRO	07	A	P		RIG SERVICE. FUNCTION PIPE RAMS. SERVICE TOP DRIVE.
	13:30 - 0:00	10.50	DRLPRO	02	D	P		DRILL 10279'- 10675' (396',38'/HR) TD 2/24/2011 23:59 WOB 18-23 K SPM 95, GPM 428 , PSI ON/OFF 2750/2400, DIFF 350, MOT RPM 60, ROT 40-50, TOR ON/OFF 13/16, PU/SO/ROT 263/193/219, DRAG 44K. MUD IN 12.3 VIS 50 LCM 6%, MUD OUT 12.3 VIS 53 6%LCM. SLIDE 0' 100% ROT.
2/25/2011	0:00 - 2:00	2.00	EVALPR	05	A	P		CIRC AND CONDITION HOLE FOR WIPER TRIP. MUD WT 12.3 VIS 51 LCM 5%.
	2:00 - 14:30	12.50	EVALPR	06	E	P		PUMP AND ROT OUT 35 STD. HOLE VOLUME GAINED 12 BBLS WHILE PUMPING AND ROT OUT. PUMP 80 BBL 15# PILL @ 7400'. TRIP OUT... HOLE STARTED TAKING PROPER VOLUME. TRIP OUT CHECKING FLOW OFTEN. NO FLOWS ON CHECKS. STD BACK 3 STD AND DIRECTIONAL ASSEMBLY.BREAK BIT AND LD MOTOR. CHECKED THAT RIG IS LEVEL AND CENTERED OVER HOLE (JG). WORK BLIND RAMS.
	14:30 - 16:00	1.50	EVALPR	06	E	P		MAKE UP BIT #2 ON BIT SUB AND TRIP IN HOLE TO 700'. INSTALL ROT HEAD RUBBER. READY 9 JTS DP TO P/U.
	16:00 - 16:30	0.50	EVALPR	07	A	P		RIG SERVICE, C/O DIES IN GRABBER BOX.
	16:30 - 0:00	7.50	EVALPR	06	E	P		WIPER TRIP BACK IN HOLE. P/U 9 JTS OF DP. TRIP TO BOTTOM. BREAK CIRC. 2200',6000, 8300'. WIPED THROUGH 1 BRIDGE @ 4300'.
2/26/2011	0:00 - 2:00	2.00	EVALPR	05	A	P		CIRC AND CONDITION HOLE FOR LOGS. MUD WT 12.5 VIS 48 LCM 5%. BOTTOMS UP FLARE OF 15-20' FLARES FOR 15 MIN.
	2:00 - 2:30	0.50	MAINT	08	A	Z		FIX HYDRALIC HOSE ON RACKING BOARD.
	2:30 - 9:30	7.00	EVALPR	06	B	P		TRIP OUT FOR LOGS. PUMP AND ROT OFF BOTTOM TO 9000'. AVERAGE PULLOVER OF 60 K. PUMP 30 BBL 14.5 PILL FOR DRY JOB. TRIP TO CSG SHOE. (TIGHT SPOT 6329', 40 K OVER) CHECK FLOW AND NO FLOW THROUGH OUT TRIP. PREPARE CLEAN MUD.
	9:30 - 11:30	2.00	EVALPR	05	A	P		CLEAN LCM OUT OF MUD FROM CSG SHOE UP.
	11:30 - 13:30	2.00	EVALPR	06	B	P		TRIP OUT OF HOLE. LD BITS SUB AND BIT.

US ROCKIES REGION
Operation Summary Report

Well: NBU 922-29L3CS (BLUE)	Spud Conductor: 1/7/2011	Spud Date: 1/15/2011
Project: UTAH-UINTAH	Site: NBU 922-29N PAD	Rig Name No: PROPETRO/, ENSIGN 145/145
Event: DRILLING	Start Date: 1/5/2011	End Date: 2/28/2011
Active Datum: RKB @4,945.00ft (above Mean Sea Level)		UWI: NW/SW/0/9/S/22/E/29/0/0/26/PM/S/822/NW/0/1637/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	13:30 - 20:30	7.00	EVALPR	11	D	P		HOLD SAFETY MEETING AND RIG UP HALLIBURTON LOGGERS. RUN TRIPLE COMBO LOGS FROM DEPTH OF 10670' TO SURFACE CSG. LD TRIPLE COMBO TOOLS.
	20:30 - 23:00	2.50	EVALPR	11	E	P		HOLD SAFETY MEETING. INSTALL LOGGING ADAPTER WITH 6' TAIL PIPE. MAKE PRESSURE 40' LUBRICATOR. MAKE UP CSG SONIC TOOL. P/U LUBRICATOR AND TOOLS. RUN TOOLS IN HOLE TO 400'. CALIBRATE SONIC TOOLS.
	23:00 - 0:00	1.00	EVALPR	22	L	Z		WHILE CALIBRATING SONIC TOOLS. THE DRILLING CLOSED ANNULLAR ON ADAPTER TO PREPARE TO PRESSURE UP ON WELL BORE. ANNULLAR COLLAPSED LOGGING ADAPTER TAIL PIPE ON TO WIRELINE. UNABLE TO MOVE WIRELINE THROUGH ADAPTER.
2/27/2011	0:00 - 2:00	2.00	EVALPR	22	O	Z		HELD SAFETY MEETING. P/U LUBRICATOR, LOGGING ADAPTER AND WIRELINE UP AT SAME TIME INTO DERRICK. INSTALLED WIRE LINE T-BAR. CUT WIRELINE AND LD LUBRICATOR AND APDAPTER. TIE BACK ONTO WIRE LINE AND PULL SONIC TOOLS OUT OF HOLE. LD SONIC TOOLS, BREAK DOWN LUBRICATOR. RIG DOWN HALLIBURTON LOGGERS. ABANDON SONIC TOOL RUN.
	2:00 - 5:30	3.50	EVALPR	11	E	P		HOLD SAFETY MEETING. RIG UP PIONEER WIRELINE. RUN MULTI-ARMED CALIPER ON SURFACE CSG. FROM 2600'. RUN REPEAT PASS AT 100'.
	5:30 - 6:00	0.50	EVALPR	14	B	P		PULL WEAR BUSHING. INSTALL CSG SPEAR ON TOP DRIVE.
	6:00 - 7:00	1.00	CSG	12	A	P		HOLD SAFETY MEETING W/ WEATHERFORD TRS CSG CREW. DISCUSS PROPER MAKE UP OF BTC CSG.
	7:00 - 17:30	10.50	CSG	12	C	P		RIG UP CSG CREW. RUN 254 JTS OF 4.5", HCP-110, 11.6# BTC CSG. SET FLOAT SHOE @ 10646' KB. SET FC @ 10601' KB. SET TOP OF WASATCH MARKER JT 4854' KB. SET TOP OF MESA VERDE MARKER JT 7401' KB. FILLED CSG 5600',8700'. LAST JT OF CSG BECAME STUCK 17' FROM TOTAL LENGTH OF CSG.
	17:30 - 18:30	1.00	CSG	22	A	X		WORK STUCK CSG... UNABLE TO GET CSG TO MOVE. CSG WILL CIRC...WORK CSG UP AND DOWN.
	18:30 - 19:00	0.50	CSG	05	A	P		CSG IS WALL STUCK. CONTINUE CIRC AND CONDITION HOLE. HOLD SAFETY MEETING. RIG DOWN WEATHERFORD TRS AND HOLD SAFETY MEETING W/ HALLIBURTON CEMENTERS. NO FLARES ON BOTTOMS UP.
	19:00 - 20:00	1.00	CSG	12	B	P		BLOW DOWN KELLY. RIG UP CEMENT HEAD 17' ABOVE RIG FLOOR.INSTALL MANIFOLD AND BAILS.

US ROCKIES REGION
Operation Summary Report

Well: NBU 922-29L3CS (BLUE)		Spud Conductor: 1/7/2011		Spud Date: 1/15/2011	
Project: UTAH-UINTAH			Site: NBU 922-29N PAD		Rig Name No: PROPETRO/, ENSIGN 145/145
Event: DRILLING			Start Date: 1/5/2011		End Date: 2/28/2011
Active Datum: RKB @4,945.00ft (above Mean Sea Level)			UWI: NW/SW/0/9/S/22/E/29/0/0/26/PM/S/822/W/0/1637/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	20:00 - 23:30	3.50	CSG	12	E	P		PRESSURE TEST LINES TO 5000 PSI. PUMP 40 BBLs FRESH WATER AHEAD. PUMP 168 BBLs (490 SX) OF 12.6 PPG 1.93 YD 10.36 GAL/SK ECONOCEM LEAD CEMENT. PUMP 276 BBLs (1240 SX) OF 14.3# 1.25 YD 5.41 GAL/SK. POZ PREMIUM 50/50 TAIL CEMENT. SHUT DOWN FLUSH LINES. DROP TOP PLUG AND DISPLACE W/ 164.5 BBLs OF FRESH WATER TREATED W/ CLAYFIX AND ALDACIDE G. FULL CIRC THROUGH OUT JOB. 38 BBLs OF FLUSH WATER TO PIT. LIFT PSI OF 2700 PSI @ 2 BBLs MIN. BUMP PLUG 2900 PSI. PSI OVER 3500 PSI. PRESSURE HELD 5 MINS. FLOAT HELD. FLOW BACK 2 BBLs. HELD SAFETY MEETING. RIG DOWN HALLIBURTON. FLUSH STACK. RIG DOWN CEMENT HEAD. EST. TOC FOR LEAD 54', EST TOC FOR TAIL 4300'.
	23:30 - 0:00	0.50	RDMO	14	A	P		FLUSH STACK AND SET C-22 SLIPS THROUGH STACK W/ 115,000 #.
2/28/2011	0:00 - 4:30	4.50	RDMO	14	A	P		NIPPLE DOWN BOPE, CUT OFF CSG. 30' CUT JT. LD CUT OFF. CLEAN PITS. RELEASE RIG 04:30

US ROCKIES REGION
Operation Summary Report

Well: NBU 922-29L3CS (BLUE)		Spud Conductor: 1/7/2011	Spud Date: 1/15/2011
Project: UTAH-UINTAH		Site: NBU 922-29N PAD	Rig Name No: PROPETRO/, ENSIGN 145/145
Event: DRILLING		Start Date: 1/5/2011	End Date: 2/28/2011
Active Datum: RKB @4,945.00ft (above Mean Sea Level)		UWI: NW/SW/0/9/S/22/E/29/0/0/26/PM/S/822/W/0/1637/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
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4:30 - 4:30 0.00 RDMO

CONDUCTOR CASING:
 Cond. Depth set: 40'
 Cement sx used: 28

SPUD DATE/TIME: 1/15/2011 20:30

SURFACE HOLE:
 Surface From depth: 40'
 Surface To depth: 2,600
 Total SURFACE hours: 38.50
 Surface Casing size: 8 5/8
 # of casing joints ran: 58
 Casing set MD: 2,580.0
 # sx of cement: 200/175/390
 Cement blend (ppg): 11.0/15.8/15.8
 Cement yield (ft3/sk): 3.82/1.15/1.15
 # of bbls to surface:
 Describe cement issues: NONE
 Describe hole issues: NONE

PRODUCTION:
 Rig Move/Skid start date/time: 2/17/2011 16:00
 Rig Move/Skid finish date/time: 2/17/2011 21:30
 Total MOVE hours: 5.5
 Prod Rig Spud date/time: 2/18/2011 12:00
 Rig Release date/time: 2/28/2011 4:30
 Total SPUD to RR hours: 232.5
 Planned depth MD 10,675
 Planned depth TVD 10,410
 Actual MD: 10,675
 Actual TVD: 10,402
 Open Wells \$:
 AFE \$:
 Open wells \$/ft:

PRODUCTION HOLE:
 Prod. From depth: 2,609
 Prod. To depth: 10,675
 Total PROD hours: 128.5
 Log Depth: 10670
 Production Casing size: 4 1/2
 # of casing joints ran: 254
 Casing set MD: 10,646.0
 # sx of cement: 1,730
 Cement blend (ppg): LEAD 12.6#, TAIL 14.4#
 Cement yield (ft3/sk): LEAD 1.93 YD, TAIL 1.25 YD
 Est. TOC (Lead & Tail) or 2 Stage : LEAD 54', TAIL 4300'
 Describe cement issues: FULL RETURNS, 15 BBLS OF 38 BBLS FLUSH
 Describe hole issues: 6% LCM

DIRECTIONAL INFO:
 KOP: 74
 Max angle: 22.58
 Departure: 1607.65
 Max dogleg MD: 2.38 @5966'

1 General

1.1 Customer Information

Company	US ROCKIES REGION		
Representative			
Address			

1.2 Well Information

Well	NBU 922-29L3CS (BLUE)		
Common Name	NBU 922-29L3CS		
Well Name	NBU 922-29L3CS	Wellbore No.	OH
Report No.	1	Report Date	5/24/2011
Project	UTAH-UINTAH	Site	NBU 922-29N PAD
Rig Name/No.		Event	COMPLETION
Start Date	5/24/2011	End Date	7/5/2011
Spud Date	1/15/2011	Active Datum	RKB @4,945.00ft (above Mean Sea Level)
UWI	NW/SW/0/9/S/22/E/29/0/0/26/PM/S/822/W/0/1637/0/0		

1.3 General

Contractor	CUTTERS WIRELINE	Job Method	PERFORATE	Supervisor	DAVE DANIELS
Perforated Assembly	PRODUCTION CASING	Conveyed Method	WIRELINE		

1.4 Initial Conditions

1.5 Summary

Fluid Type		Fluid Density		Gross Interval	7,144.0 (ft)-10,306.0 (ft)	Start Date/Time	6/29/2011 12:00AM
Surface Press		Estimate Res Press		No. of Intervals	34	End Date/Time	6/30/2011 12:00AM
TVD Fluid Top		Fluid Head		Total Shots	181	Net Perforation Interval	54.00 (ft)
Hydrostatic Press		Press Difference		Avg Shot Density	3.35 (shot/ft)	Final Surface Pressure	
Balance Cond	NEUTRAL					Final Press Date	

2 Intervals

2.1 Perforated Interval

Date	Formation/Reservoir	CCL@ (ft)	CCL-T S (ft)	MD Top (ft)	MD Base (ft)	Shot Density (shot/ft)	Misfires/Add. Shot	Diameter (in)	Carr Type /Carr Manuf	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
12:00AM	WASATCH/			7,144.0	7,145.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO	
														N	

2.1 Perforated Interval (Continued)

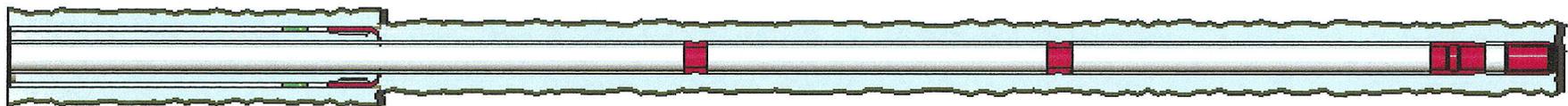
Date	Formation/ Reservoir	CCL@ (ft)	CCL-T S (ft)	MD Top (ft)	MD Base (ft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diamete r (in)	Carr Type /Carr Manuf	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
12:00AM	WASATCH/			7,395.0	7,396.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00AM	WASATCH/			7,420.0	7,422.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00AM	MESAVERDE/			7,465.0	7,467.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AM	MESAVERDE/			7,576.0	7,577.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00AM	MESAVERDE/			7,616.0	7,617.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AM	MESAVERDE/			7,656.0	7,658.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AM	MESAVERDE/			7,768.0	7,770.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AM	MESAVERDE/			7,808.0	7,809.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00AM	MESAVERDE/			7,958.0	7,960.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AM	MESAVERDE/			8,030.0	8,032.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00AM	MESAVERDE/			8,116.0	8,119.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AM	MESAVERDE/			8,274.0	8,275.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AM	MESAVERDE/			8,343.0	8,344.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00AM	MESAVERDE/			8,484.0	8,486.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AM	MESAVERDE/			8,522.0	8,523.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00AM	MESAVERDE/			8,546.0	8,547.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00AM	MESAVERDE/			8,611.0	8,613.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AM	MESAVERDE/			8,747.0	8,748.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AM	MESAVERDE/			8,767.0	8,768.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00AM	MESAVERDE/			8,810.0	8,811.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00AM	MESAVERDE/			8,837.0	8,838.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (ft)	CCL-T S (ft)	MD Top (ft)	MD Base (ft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diamete r (in)	Carr Type /Carr Manuf	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
12:00AM	MESAVERDE/			8,853.0	8,854.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00AM	MESAVERDE/			8,932.0	8,933.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00AM	MESAVERDE/			8,953.0	8,955.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AM	MESAVERDE/			9,023.0	9,024.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AM	MESAVERDE/			9,079.0	9,080.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00AM	MESAVERDE/			9,148.0	9,150.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AM	MESAVERDE/			9,264.0	9,266.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AM	MESAVERDE/			9,286.0	9,288.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00AM	MESAVERDE/			9,434.0	9,437.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AM	MESAVERDE/			10,251.0	10,253.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AM	MESAVERDE/			10,288.0	10,290.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00AM	MESAVERDE/			10,303.0	10,306.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	

3 Plots

3.1 Wellbore Schematic



**US ROCKIES REGION
Operation Summary Report**

Well: NBU 922-29L3CS (BLUE)	Spud Conductor: 1/7/2011	Spud Date: 1/15/2011
Project: UTAH-UINTAH	Site: NBU 922-29N PAD	Rig Name No: GWS 1/1
Event: COMPLETION	Start Date: 5/24/2011	End Date: 7/5/2011
Active Datum: RKB @4,945.00ft (above Mean Sea Level)	UWI: NW/SW/0/9/S/22/E/29/0/0/26/PM/S/822/W/0/1637/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
5/27/2011	7:00 - 15:00	8.00	COMP	33	C	P		FILL SURFACE CSG. PSI TEST T/ 1036 PSI. LOST 13 PSI IN 15 MIN. PSI TEST T/ 3508 PSI. LOST 25 PSI IN 15 MIN. 1ST ATTM, PSI T/ 9007 PSI. LOST 81 PSI IN 30 MIN. 2ND ATTM, PSI T/ 9044 PSI. LOST 25 PSI IN 30 MIN. GOOD TEST. BLEED PSI OFF. SWI. MOVE TO NEXT WELL.
5/31/2011	7:00 - 9:00	2.00	COMP	36	B	P		PERF STG 1)PU 4 1/2 10K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 & 120 DEG PHASING. RIH STACK OUT @ 9190'. P/U BECAME STUCK. WORK WIRE LINE. WOULD NOT WORK FREE. SET HALL 10K CBP @ 9190'. POOH W/ WIRE LINE. SWI. WAIT FOR ORDERS.
6/22/2011	7:00 - 7:15	0.25	COMP	48		P		HSM, SLIPS, TRIPS & FALLS, RIGGING UP & DOWN.
	7:15 - 17:00	9.75	COMP	31	I	P		RD OFF NBU 922-29NT, MIRU, ND WH, NU BOP, RU FLOOR & TBG EQUIP, SPOT TBG TRAILER, TALLY & PU TBG TO 9,190', RU POWER SWIVEL TO D/O STUCK CBP IN AM, SWI, SDFN.
6/23/2011	7:00 - 7:15	0.25	COMP	48		P		HSM, SLIPS, TRIPS & FALLS, L/D TBG, RIGGING DOWN.
	7:15 - 17:00	9.75	COMP	44	C	P		BREAK CIRC, D/O STUCK CBP @ 9,190', AFTER CBP FELL FROM D/O, CBP KEEPS HANGING UP FOR THE NEXT 50', HAD TO D/O AGAIN TILL IT FELL TO BTM, RIH TO 10,562', DISPLACE & CLEAN HOLE W/ 150 BBLs OF TMAC, L/D 111 JTS L-80 TBG, LAND TBG @ 7,045' W/ 222 JTS L-80 TBG, NEED TO FRAC WELL, RD FLOOR & TBG EQUIP, ND BOP, NU WH, RD & ROAD RIG TO BON 1023-8C PAD FOR D/O AFTER THIER DONE FRACING, SDFN.
6/28/2011	7:00 - 7:30	0.50	COMP	48		P		HSM, RIGGING DWN RIG & EQUIP
	7:30 - 13:00	5.50	COMP	30	A	P		RD OFF NBU 921-8P, MIRU, ND WH NU BOPS, RU FLOOR & TBG EQUIP.
	13:00 - 15:30	2.50	COMP	31	I	P		UNLAND TBG L/D 41/2 HANGER, POOH W/ 222 JTS 23/8 L-80 TBG L/D BIT.ND BOPS NU FV, FILL 41/2 CSG W/ 20 BBLs T-MAC.
	15:30 - 18:30	3.00	COMP	33	C	P		RU B&C TEST 41/2 TO 1050# PSI FOR 15 MIN, LOST 6 # PSI, PRESSURE UP TO 3550# PSI FOR 15 MIN LOST 31 # PSI IN 15 MIN, PRESSURE UP TO 9037 PSI FOR 30 MIN, LOST 75 # PSI, REPRESSURE TO 9037 PSI LOST 43 # PSI IN 30 MIN, GOOD TEST BLEAD OFF PSI RD B&C SWI SDFN.
6/29/2011	7:00 - 7:30	0.50	COMP	48		P		HSM, WORKING W/ WIRE LINE & FRAC CREW.
	7:30 - 11:25	3.92	COMP	34	I	P		RU CUTTERS & SUPERIOR, RIH SET 41/2 HAL 10K CBP @ 10,356'. POOH. (STG #1) RIH W/ 31/8 EXP GNS, 23 GM, .36" HOLES, 90 & 120 DEG PHASING, PERF AS OF PROCEDURE.POOH, PRIME PUMPS & LINES TEST LINES TO 9,500 PSI, LOST 3,000 PSI IN 15 MIN. SET N2 POPOFF FOR 9,000 PSI, SHUT MEC POPOFF, SET PUMP KICK OUTS TO 8,800, 6 TRUCKS.SET MEC POP OFF FOR 6900 AND RE SHUT.

US ROCKIES REGION
Operation Summary Report

Well: NBU 922-29L3CS (BLUE)	Spud Conductor: 1/7/2011	Spud Date: 1/15/2011
Project: UTAH-UINTAH	Site: NBU 922-29N PAD	Rig Name No: GWS 1/1
Event: COMPLETION	Start Date: 5/24/2011	End Date: 7/5/2011
Active Datum: RKB @4,945.00ft (above Mean Sea Level)		UWI: NW/SW/0/9/S/22/E/29/0/0/26/PM/S/822/W/0/1637/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	11:25 - 14:04	2.65	COMP	36	E	P		(STG #1) WHP 168 PSI, BRK @ 3950 PSI, @ 4.8 BPM, ISIP 3359 PSI, FG .77. PUMP 100 BBLs @ 41.7 BPM, @ 6752 PSI = 70 % PERFS OPEN. SPOT ACID ON PERFS SHUT DWN LET ACID SOAK FOR 10 MIN. MP 8378 PSI, MR 50.8 BPM, AP 6477 PSI, AR 48 BPM, ISIP 3979 PSI, FG .83. NPI 602 PSI, PMPD 4840 BBLs OF SW & 137,000 LBS OF 30/50 SND TOTAL PROP 137,000 LBS. (RA TRACER RAN ON THIS STAGE 3 ISOTOPES) HAD TO SHUT DWN ON THIS STAGE TO FIX A LEAKING VALVE.
	14:04 - 17:30	3.43	COMP	36	E	P		(STG #2) RIH W/ 41/2 HAL 8K CBP & 31/8 EXP GNS, 23 GM, .36" HOLES 90 & 120 DEG PHASING, SET HAL 8K CBP @ 9467', GUNS WOULDN'T FIRE, POOH REHEAD & CHANGED OUT COLLAR LOCATOR. RIH PERF AS OF PROCEDURE. (2 HRS 28 MIN) WHP 476 PSI, BRK @ 2468 PSI, @ 4.8 BPM, ISIP 1837 PSI, FG .64. PUMP 100 BBLs @ 47.9 BPM, @ 6057 PSI = 69 % PERFS OPEN. MP 6425 PSI, MR 50.3 BPM, AP 5502 PSI, AR 49.2 BPM, ISIP 2573 PSI, FG .71. NPI 736 PSI, PMPD 1069 BBLs OF SW & 15,611 LBS OF 30/50 SND & 5,628 LBS OF 20/40 RESIN SAND. TOTAL PROP 137,000 LBS. SWI SDFN HSM, WORKING W/ WL & FRAC CREW
6/30/2011	7:00 - 8:00	1.00	COMP	34	H	P		(STG #3) RIH W/ 41/2 HAL 8K CBP & 31/8 EXP GNS, 23 GM, .36" HOLES 90 & 120 DEG PHASING, SET HAL 8K CBP @ 9178', PERF AS PROCEDURE, POOH.
	8:00 - 11:35	3.58	COMP	46	E	P		WAIT ON HYD HOSE FOR BLEANDER.FIX BLEANDER.
	11:35 - 12:04	0.48	COMP	36	E	P		(STG #3) WHP 799 PSI, BRK @ 3200 PSI, @ 4.8 BPM, ISIP 2640 PSI, FG .73. PUMP 100 BBLs @ 43.5 BPM, @ 6489 PSI = 64 % PERFS OPEN. MP 6584 PSI, MR 51.6 BPM, AP 5742 PSI, AR 48.5 BPM, ISIP 2772 PSI, FG .75. NPI 132 PSI, PMPD 1232 BBLs OF SW & 22,989 LBS OF 30/50 SND & 2,494 LBS OF 20/40 RESIN SAND. TOTAL PROP 25,483 LBS.
	12:04 - 13:45	1.68	COMP	36	E	P		(STG #4) RIH W/ 41/2 HAL 8K CBP & 31/8 EXP GNS, 23 GM, .36" HOLES 90 & 120 DEG PHASING, SET HAL 8K CBP @ 8880', PERF WELL AS OF PROCEDURE. WHP 2014 PSI, BRK @ 3326 PSI, @ 4.8 BPM, ISIP 2223 PSI, FG .69. PUMP 100 BBLs @ 37.4 BPM, @ 6222 PSI = 60 % PERFS OPEN. MP 6464 PSI, MR 51.4 BPM, AP 5561 PSI, AR 46.8 BPM, ISIP 2575 PSI, FG .71. NPI 152 PSI, PMPD 963 BBLs OF SW & 16,614 LBS OF 30/50 SND & 2552 LBS OF 20/40 RESIN SAND. TOTAL PROP 19,166 LBS.

US ROCKIES REGION
Operation Summary Report

Well: NBU 922-29L3CS (BLUE)	Spud Conductor: 1/7/2011	Spud Date: 1/15/2011
Project: UTAH-UINTAH	Site: NBU 922-29N PAD	Rig Name No: GWS 1/1
Event: COMPLETION	Start Date: 5/24/2011	End Date: 7/5/2011
Active Datum: RKB @4,945.00ft (above Mean Sea Level)		UWI: NW/SW/0/9/S/22/E/29/0/0/26/PM/S/822/W/0/1637/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	13:45 - 15:19	1.57	COMP	36	E	P		(STG #5) RIH W/ 41/2 HAL 8K CBP & 31/8 EXP GNS, 23 GM, .36" HOLES 90 & 120 DEG PHASING, SET HAL 8K CBP @ 8574', PERF WELL AS OF PROCEDURE. WHP 162 PSI, BRK @ 3164 PSI, @ 4.8 BPM, ISIP 2071 PSI, FG .68. PUMP 100 BBLS @ 34.4 BPM, @ 5262 PSI = 60 % PERFS OPEN. MP 6393 PSI, MR 49.6 BPM, AP 5467 PSI, AR 47.2 BPM, ISIP 2288 PSI, FG .71. NPI 162 PSI, PMPD 619 BBLS OF SW & 8542 LBS OF 30/50 SND & 2537 LBS OF 20/40 RESIN SAND. TOTAL PROP 11,079 LBS.
	15:19 - 17:42	2.38	COMP	36	E	P		(STG #6) RIH W/ 41/2 HAL 8K CBP & 31/8 EXP GNS, 23 GM, .36" HOLES 90 & 120 DEG PHASING, SET HAL 8K CBP @ 8150', PERF WELL AS OF PROCEDURE. HAD MIS RUN ON GUNS POOH REPAIR & RIH RESHOOT. (2 HRS) WHP 169 PSI, BRK @ 2603 PSI, @ 4.7 BPM, ISIP 1749 PSI, FG .66. PUMP 100 BBLS @ 38.9 BPM, @ 5106 PSI = 60 % PERFS OPEN. MP 6511 PSI, MR 51.7 BPM, AP 5355 PSI, AR 50.2 BPM, ISIP 2468 PSI, FG .75. NPI 719 PSI, PMPD 619 BBLS OF SW & 8,694 LBS OF 30/50 SND & 2515 LBS OF 20/40 RESIN SAND. TOTAL PROP 11,209 LBS.
	17:42 - 19:11	1.48	COMP	36	E	P		(STG #7) RIH W/ 41/2 HAL 8K CBP & 31/8 EXP GNS, 23 GM, .36" HOLES 90 & 120 DEG PHASING, SET HAL 8K CBP @ 7838', PERF WELL AS OF PROCEDURE. WHP 231 PSI, BRK @ 1942 PSI, @ 4.2 BPM, ISIP 1377 PSI, FG .62. PUMP 100 BBLS @ 50.5 BPM, @ 5312 PSI = 74 % PERFS OPEN. MP 6158 PSI, MR 51.0 BPM, AP 4622 PSI, AR 47.9 BPM, ISIP 2126 PSI, FG .72. NPI 749 PSI, PMPD 1042 BBLS OF SW & 19,031 LBS OF 30/50 SND & 2474 LBS OF 20/40 RESIN SAND. TOTAL PROP 21,505 LBS.

US ROCKIES REGION
Operation Summary Report

Well: NBU 922-29L3CS (BLUE)		Spud Conductor: 1/7/2011		Spud Date: 1/15/2011	
Project: UTAH-UINTAH		Site: NBU 922-29N PAD		Rig Name No: GWS 1/1	
Event: COMPLETION		Start Date: 5/24/2011		End Date: 7/5/2011	
Active Datum: RKB @4,945.00ft (above Mean Sea Level)			UWI: NW/SW/0/9/S/22/E/29/0/0/26/PM/S/822/W/0/1637/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	19:11 - 20:19	1.13	COMP	36	E	P		(STG #8) RIH W/ 41/2 HAL 8K CBP & 31/8 EXP GNS, 23 GM, .36" HOLES 90 & 120 DEG PHASING, SET HAL 8K CBP @ 7494', PERF WELL AS OF PROCEDURE. WHP 1226 PSI, BRK @ 2215 PSI, @ 4.2 BPM, ISIP 1582 PSI, FG .66. PUMP 100 BBLS @ 42.0 BPM, @ 4993 PSI = 70 % PERFS OPEN. MP 6470 PSI, MR 51.3 BPM, AP 5413 PSI, AR 50.5 BPM, ISIP 2184 PSI, FG .74. NPI 602 PSI, PMPD 602 BBLS OF SW & 13,176 LBS OF 30/50 SND & 2,000 LBS OF 20/40 RESIN SAND. TOTAL PROP 15,176 LBS. TOTAL SAND HAULED OUT 270,660 LBS PUMPED 137,000 TLC 30/50 WHITE PUMPED 104,657 LBS 30/50 OTTAWA PUMPED 20,200 20/40 RESIN SHORT BY 8803 LBS 30/50 WHITE OTTAWA 6% OFF ON SCREWS. TOTAL WTR 10,986 BBLS TOTAL SCALE INH 1059 GALS, SHORT BY 100 GALS OVER ALL JOB. TOTAL BIOCIDE 228 GALS.
	20:19 - 22:00	1.68	COMP	34	I	P		(KILL PLUG) RIH SET 41/2 HAL 8K CBP @ 7110', POOH SWI, RD WL & FRAC CREW SDFN HSM, TRIPPING TBG.
7/1/2011	7:00 - 7:30	0.50	COMP	48		P		NO PSI ON WELL, ND FV, NU 10K BOPS, RU FLOOR & TBG EQUIP. RIH W/ 37/8 BIT, POBS, 1.875 X/N & 222 JTS 23/8 L-80 TO 7039' RU DRLG EQUIP BROK CIRC TEST BOPS TO 3,000# FOR 15 MIN, LOST 50 PSI IN 15 MIN. PREP TO D/O 7/5/11, SWI SDFWE.
	7:30 - 15:00	7.50	COMP	31	I	P		HSM, WORKING W/ POWER SWIVEL, DRILLING PLUGS.
7/5/2011	7:00 - 7:30	0.50	COMP	48		P		

US ROCKIES REGION
Operation Summary Report

Well: NBU 922-29L3CS (BLUE)		Spud Conductor: 1/7/2011	Spud Date: 1/15/2011
Project: UTAH-UINTAH		Site: NBU 922-29N PAD	Rig Name No: GWS 1/1
Event: COMPLETION		Start Date: 5/24/2011	End Date: 7/5/2011
Active Datum: RKB @4,945.00ft (above Mean Sea Level)		UWI: NW/SW/0/9/S/22/E/29/0/0/26/PM/S/822/W/0/1637/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	7:30 - 18:30	11.00	COMP	44	C	P		<p>BROKE CIRC CONVENTIONAL RIH.</p> <p>C/O 20' SAND TAG 1ST PLUG @ 7110' DRL PLG IN 5 MIN 300# PSI INCREASE RIH.</p> <p>C/O 28' SAND TAG 2ND PLUG @ 7494' DRL PLG IN 9 MIN 500# PSI INCREASE RIH</p> <p>C/O 30' SAND TAG 3RD PLUG @ 7838' DRL PLG IN 9 MIN 400# PSI INCREASE RIH</p> <p>C/O 30' SAND TAG 4TH PLUG @ 8150' DRL PLG IN 6 MIN 600# PSI INCREASE RIH</p> <p>C/O 30' SAND TAG 5TH PLUG @ 8574' DRL PLG IN 5 MIN 600# PSI INCREASE RIH</p> <p>C/O 30' SAND TAG 6TH PLUG @ 8880' DRL PLG IN 7 MIN 300# PSI INCREASE RIH</p> <p>C/O 30' SAND TAG 7TH PLUG @ 9178' DRL PLG IN 4 MIN 400# PSI INCREASE. RIH</p> <p>C/O 30' SAND TAG 8TH PLUG @ 9463' DRL PLG IN 8 MIN 1000# PSI INCREASE. RIH</p> <p>C/O 40' SAND TAG 9TH PLUG @ 10,356' DRL PLG IN 25 MIN 0# PSI INCREASE. RIH</p> <p>C/O TO @ 10,652' CIRC CLEAN, RACK OUT SWIVEL. L/D 13 JTS, LAND TBG ON 317 JTS 23/8 L-80. RD FLOOR, ND BOPS NU WH. PUMP OFF BIT, LET WELL SET FOR 30 MIN FOR BIT TO FALL. TURN WELL OVER TO FB CREW. RDMOL.MOVE RIG & EQUIP TO NBU 921-17G. SDFN SICP = 2300 FTP = 100</p> <p>KB = 13' HANGER 41/16 = .83' 317 JTS 23/8 L-80 = 10,040.18' (SURFAC VALVE OPEN W/ POP OFF ASSEMBLY) 1.875 X/N & POBS = 2.20' EOT @ 10,056.21'</p> <p>TWTR = 11,226 BBLS TWR = 1300 BBLS TWLTR = 9926 BBLS</p> <p>337 JTS HAULED OUT 317 LANDED 20 TO RETURN</p>
	15:00 - 15:00	0.00	PROD	50				<p>WELL TURNED TO SALES @ 1500 HR ON 7/5/11 - 1830 MCFD, 1920 BWPD, CP 2800#, FTP 100#, CK 20/64"</p>
7/6/2011	7:00 -			33	A			<p>7 AM FLBK REPORT: CP 3650#, TP 2900#, 20/64" CK, 65 BWPH, HVY SAND, - GAS TTL BBLS RECOVERED: 2465 BBLS LEFT TO RECOVER: 8761</p>
7/7/2011	7:00 -			33	A			<p>7 AM FLBK REPORT: CP 3500#, TP 2700#, 20/64" CK, 45 BWPH, MED SAND, - GAS TTL BBLS RECOVERED: 3795 BBLS LEFT TO RECOVER: 7431</p>

US ROCKIES REGION
Operation Summary Report

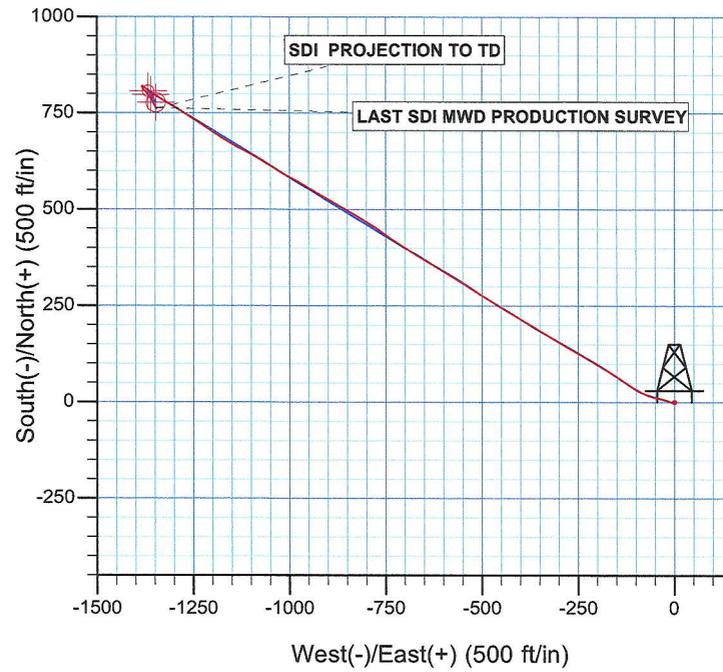
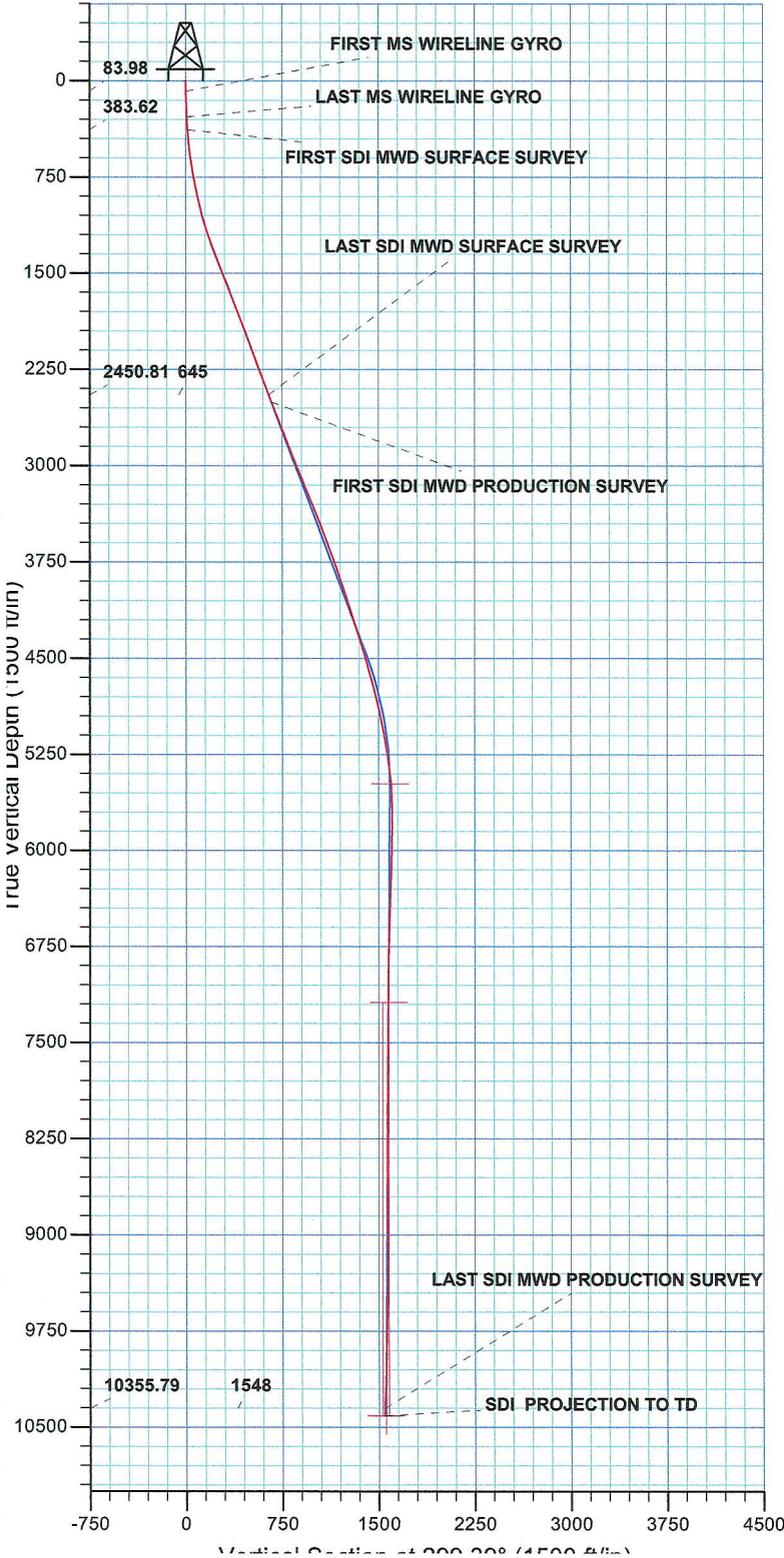
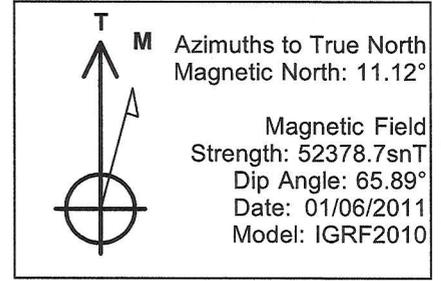
Well: NBU 922-29L3CS (BLUE)	Spud Conductor: 1/7/2011	Spud Date: 1/15/2011
Project: UTAH-UINTAH	Site: NBU 922-29N PAD	Rig Name No: GWS 1/1
Event: COMPLETION	Start Date: 5/24/2011	End Date: 7/5/2011
Active Datum: RKB @4,945.00ft (above Mean Sea Level)		UWI: NW/SW/0/9/S/22/E/29/0/0/26/PM/S/822/W/0/1637/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
7/8/2011	7:00 -			33	A			7 AM FLBK REPORT: CP 3400#, TP 2550#, 20/64" CK, 30 BWPH, LIGHT SAND, - GAS TTL BBLS RECOVERED: 4715 BBLS LEFT TO RECOVER: 6511
7/9/2011	7:00 -			33	A			7 AM FLBK REPORT: CP 3250#, TP 2450#, 20/64" CK, 24 BWPH, LIGHT SAND, - GAS TTL BBLS RECOVERED: 5357 BBLS LEFT TO RECOVER: 5869
7/10/2011	7:00 -			33	A			7 AM FLBK REPORT: CP 3200#, TP 2350#, 20/64" CK, 22 BWPH, LIGHT SAND, - GAS TTL BBLS RECOVERED: 5913 BBLS LEFT TO RECOVER: 5313
7/11/2011	7:00 -			33	A			7 AM FLBK REPORT: CP 3100#, TP 2250#, 20/64" CK, 17 BWPH, LIGHT SAND, - GAS TTL BBLS RECOVERED: 6345 BBLS LEFT TO RECOVER: 4881

WELL DETAILS: NBU 922-29L3CS

GL 4932' & RKB 14' @ 4946.00ft (ENSIGN 145)

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	14530493.19	2069808.72	40° 0' 7.466 N	109° 28' 0.343 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: SEC 29 T9S R22E
System Datum: Mean Sea Level



Scientific Drilling
Rocky Mountain Operations

Kerr McGee Oil and Gas Onshore LP

Uintah County, UT UTM12
NBU 922-29N Pad
NBU 922-29L3CS

OH

Design: OH

Standard Survey Report

22 March, 2011

Anadarko 
Petroleum Corporation

Company: Kerr McGee Oil and Gas Onshore LP	Local Co-ordinate Reference: Well NBU 922-29L3CS
Project: Uintah County, UT UTM12	TVD Reference: GL 4932' & RKB 14' @ 4946.00ft (ENSIGN 145)
Site: NBU 922-29N Pad	MD Reference: GL 4932' & RKB 14' @ 4946.00ft (ENSIGN 145)
Well: NBU 922-29L3CS	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 922-29N Pad, SEC 29 T9S R22E		
Site Position:	Northing: 14,530,501.12 usft	Latitude: 40° 0' 7.545 N
From: Lat/Long	Easting: 2,069,802.70 usft	Longitude: 109° 28' 0.419 W
Position Uncertainty: 0.00 ft	Slot Radius: 13.200 in	Grid Convergence: 0.99 °

Well NBU 922-29L3CS, 822' FSL 1637' FWL
Well Position +N/-S 0.00 ft Northing: 14,530,493.20 usft Latitude: 40° 0' 7.466 N
+E/-W 0.00 ft Easting: 2,069,808.72 usft Longitude: 109° 28' 0.343 W
Position Uncertainty 0.00 ft Wellhead Elevation: ft Ground Level: 4,932.00 ft

Wellbore OH					
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	01/06/2011	11.12	65.89	52,379

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	299.39

Survey Program	Date 03/22/2011			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
10.00	284.00	Survey #1 MS GYRO (OH)	NS-GYRO-MS	North sensing gyrocompassing m/s
384.00	2,555.00	Survey #2 SDI MWD SURFACE SURVEY	MWD SDI	MWD - Standard ver 1.0.1
2,614.00	10,675.00	Survey #3 SDI MWD PRODUCTION (OH)	MWD SDI	MWD - Standard ver 1.0.1

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
10.00	0.00	0.00	10.00	0.00	0.00	0.00	0.00	0.00	0.00
84.00	2.00	271.00	83.98	0.02	-1.29	1.14	2.70	2.70	0.00
FIRST MS WIRELINE GYRO									
197.00	2.00	270.00	196.92	0.06	-5.23	4.59	0.03	0.00	-0.88
284.00	3.00	284.00	283.83	0.61	-8.96	8.11	1.34	1.15	16.09
LAST MS WIRELINE GYRO									
384.00	4.48	290.86	383.62	2.63	-15.15	14.49	1.54	1.48	6.86

Company: Kerr McGee Oil and Gas Onshore LP
Project: Uintah County, UT UTM12
Site: NBU 922-29N Pad
Well: NBU 922-29L3CS
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well NBU 922-29L3CS
TVD Reference: GL 4932' & RKB 14' @ 4946.00ft (ENSGN 145)
MD Reference: GL 4932' & RKB 14' @ 4946.00ft (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)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
FIRST SDI MWD SURFACE SURVEY									
474.00	5.99	286.91	473.24	5.25	-22.93	22.55	1.72	1.68	-4.39
564.00	7.30	283.94	562.63	7.99	-32.97	32.65	1.50	1.46	-3.30
654.00	8.93	283.54	651.73	11.01	-45.31	44.88	1.81	1.81	-0.44
744.00	10.58	286.13	740.43	14.94	-60.04	59.65	1.90	1.83	2.88
834.00	11.67	292.53	828.74	20.72	-76.39	76.73	1.83	1.21	7.11
924.00	12.96	298.89	916.67	29.08	-93.63	95.86	2.08	1.43	7.07
1,014.00	14.05	303.40	1,004.18	39.98	-111.59	116.85	1.68	1.21	5.01
1,104.00	15.73	304.91	1,091.16	52.97	-130.72	139.89	1.92	1.87	1.68
1,194.00	17.68	303.31	1,177.35	67.46	-152.15	165.67	2.23	2.17	-1.78
1,284.00	19.47	301.48	1,262.66	82.80	-176.36	194.30	2.09	1.99	-2.03
1,374.00	20.43	301.33	1,347.26	98.80	-202.57	224.99	1.07	1.07	-0.17
1,464.00	21.55	299.99	1,431.29	115.23	-230.30	257.21	1.35	1.24	-1.49
1,554.00	22.71	299.19	1,514.66	131.97	-259.79	291.12	1.33	1.29	-0.89
1,644.00	21.22	301.68	1,598.12	148.99	-288.82	324.77	1.95	-1.66	2.77
1,734.00	20.26	300.33	1,682.29	165.42	-316.13	356.62	1.19	-1.07	-1.50
1,824.00	20.96	300.25	1,766.53	181.40	-343.49	388.30	0.78	0.78	-0.09
1,914.00	21.63	301.25	1,850.38	198.11	-371.57	420.97	0.85	0.74	1.11
2,004.00	21.24	301.25	1,934.16	215.17	-399.69	453.85	0.43	-0.43	0.00
2,094.00	19.84	301.52	2,018.44	231.62	-426.65	485.40	1.56	-1.56	0.30
2,184.00	19.92	301.19	2,103.07	247.54	-452.78	515.99	0.15	0.09	-0.37
2,274.00	20.09	301.78	2,187.64	263.62	-479.04	546.76	0.29	0.19	0.66
2,364.00	20.64	303.23	2,272.02	280.45	-505.45	578.03	0.83	0.61	1.61
2,454.00	20.56	303.07	2,356.26	297.77	-531.96	609.63	0.11	-0.09	-0.18
2,555.00	20.62	300.96	2,450.81	316.60	-562.07	645.10	0.74	0.06	-2.09
LAST SDI MWD SURFACE SURVEY									
2,614.00	20.15	300.03	2,506.12	327.03	-579.78	665.65	0.97	-0.80	-1.58
FIRST SDI MWD PRODUCTION SURVEY									
2,705.00	20.85	301.99	2,591.35	343.45	-607.08	697.50	1.08	0.77	2.15
2,795.00	21.19	300.72	2,675.37	360.25	-634.65	729.76	0.63	0.38	-1.41
2,886.00	22.82	301.53	2,759.73	377.88	-663.83	763.84	1.82	1.79	0.89
2,977.00	21.71	302.19	2,843.95	396.07	-693.12	798.29	1.25	-1.22	0.73
3,067.00	21.16	302.75	2,927.72	413.73	-720.87	831.13	0.65	-0.61	0.62
3,158.00	22.17	305.01	3,012.29	432.46	-748.75	864.62	1.44	1.11	2.48
3,248.00	22.68	304.56	3,095.49	452.05	-776.95	898.80	0.60	0.57	-0.50
3,339.00	23.48	301.95	3,179.21	471.59	-806.78	934.38	1.43	0.88	-2.87
3,430.00	22.56	300.83	3,262.96	490.13	-837.15	969.94	1.12	-1.01	-1.23
3,520.00	21.33	299.33	3,346.44	507.00	-866.25	1,003.57	1.50	-1.37	-1.67
3,611.00	20.92	299.67	3,431.32	523.15	-894.79	1,036.37	0.47	-0.45	0.37
3,701.00	20.94	300.97	3,515.38	539.38	-922.54	1,068.51	0.52	0.02	1.44
3,792.00	20.37	300.83	3,600.53	555.86	-950.08	1,100.60	0.63	-0.63	-0.15
3,883.00	20.08	298.85	3,685.92	571.52	-977.37	1,132.05	0.82	-0.32	-2.18
3,973.00	20.25	300.52	3,770.41	586.88	-1,004.32	1,163.08	0.67	0.19	1.86
4,064.00	18.66	298.70	3,856.21	601.87	-1,030.66	1,193.38	1.87	-1.75	-2.00

Company: Kerr McGee Oil and Gas Onshore LP
Project: Uintah County, UT UTM12
Site: NBU 922-29N Pad
Well: NBU 922-29L3CS
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well NBU 922-29L3CS
TVD Reference: GL 4932' & RKB 14' @ 4946.00ft (ENSIGN 145)
MD Reference: GL 4932' & RKB 14' @ 4946.00ft (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)
4,154.00	18.54	301.12	3,941.51	616.18	-1,055.53	1,222.08	0.87	-0.13	2.69
4,245.00	18.38	302.36	4,027.83	631.34	-1,080.04	1,250.87	0.47	-0.18	1.36
4,335.00	17.66	299.73	4,113.41	645.70	-1,103.88	1,278.69	1.21	-0.80	-2.92
4,426.00	17.01	294.88	4,200.29	658.15	-1,127.94	1,305.76	1.74	-0.71	-5.33
4,517.00	17.71	300.63	4,287.15	670.80	-1,151.93	1,332.87	2.04	0.77	6.32
4,607.00	17.82	302.14	4,372.86	685.10	-1,175.37	1,360.32	0.53	0.12	1.68
4,698.00	16.71	305.55	4,459.76	700.12	-1,197.81	1,387.23	1.65	-1.22	3.75
4,789.00	14.98	303.05	4,547.30	714.14	-1,218.31	1,411.98	2.04	-1.90	-2.75
4,879.00	15.69	301.90	4,634.09	726.92	-1,238.39	1,435.74	0.86	0.79	-1.28
4,970.00	15.90	305.13	4,721.66	740.59	-1,259.03	1,460.44	0.99	0.23	3.55
5,060.00	14.45	302.31	4,808.52	753.69	-1,278.61	1,483.92	1.81	-1.61	-3.13
5,151.00	12.73	300.26	4,896.97	764.81	-1,296.86	1,505.29	1.96	-1.89	-2.25
5,242.00	11.41	299.36	4,985.95	774.28	-1,313.37	1,524.32	1.47	-1.45	-0.99
5,332.00	10.36	304.72	5,074.34	783.25	-1,327.78	1,541.28	1.62	-1.17	5.96
5,423.00	9.45	302.82	5,163.98	791.96	-1,340.78	1,556.88	1.06	-1.00	-2.09
5,513.00	8.14	302.17	5,252.92	799.36	-1,352.39	1,570.62	1.46	-1.46	-0.72
5,604.00	6.90	307.30	5,343.13	806.10	-1,362.19	1,582.47	1.55	-1.36	5.64
5,695.00	5.66	307.60	5,433.59	812.15	-1,370.09	1,592.33	1.36	-1.36	0.33
5,785.00	3.93	301.33	5,523.27	816.46	-1,376.24	1,599.80	2.01	-1.92	-6.97
5,876.00	2.57	299.00	5,614.12	819.07	-1,380.69	1,604.96	1.50	-1.49	-2.56
5,966.00	0.67	254.70	5,704.08	819.91	-1,382.97	1,607.35	2.38	-2.11	-49.22
6,057.00	1.26	151.94	5,795.07	818.89	-1,383.01	1,606.89	1.71	0.65	-112.92
6,148.00	1.36	154.20	5,886.05	817.03	-1,382.07	1,605.16	0.12	0.11	2.48
6,238.00	1.58	158.14	5,976.02	814.92	-1,381.14	1,603.31	0.27	0.24	4.38
6,329.00	1.67	160.25	6,066.98	812.51	-1,380.23	1,601.33	0.12	0.10	2.32
6,420.00	1.77	130.01	6,157.94	810.36	-1,378.70	1,598.95	0.99	0.11	-33.23
6,510.00	1.88	135.29	6,247.90	808.41	-1,376.60	1,596.16	0.22	0.12	5.87
6,601.00	1.95	134.88	6,338.85	806.26	-1,374.45	1,593.23	0.08	0.08	-0.45
6,691.00	1.69	140.67	6,428.80	804.15	-1,372.52	1,590.52	0.35	-0.29	6.43
6,782.00	1.73	143.75	6,519.76	802.01	-1,370.86	1,588.02	0.11	0.04	3.38
6,872.00	2.11	149.26	6,609.71	799.49	-1,369.21	1,585.34	0.47	0.42	6.12
6,963.00	2.18	148.36	6,700.65	796.58	-1,367.45	1,582.38	0.09	0.08	-0.99
7,054.00	2.07	150.67	6,791.59	793.67	-1,365.73	1,579.46	0.15	-0.12	2.54
7,144.00	1.25	133.49	6,881.55	791.58	-1,364.23	1,577.12	1.06	-0.91	-19.09
7,235.00	0.38	156.62	6,972.54	790.62	-1,363.39	1,575.91	1.00	-0.96	25.42
7,325.00	0.41	133.47	7,062.54	790.12	-1,363.03	1,575.36	0.18	0.03	-25.72
7,416.00	0.34	129.07	7,153.53	789.73	-1,362.59	1,574.78	0.08	-0.08	-4.84
7,507.00	0.66	142.47	7,244.53	789.14	-1,362.06	1,574.03	0.37	0.35	14.73
7,597.00	0.47	359.40	7,334.53	789.10	-1,361.75	1,573.74	1.19	-0.21	-158.97
7,688.00	0.18	260.87	7,425.53	789.45	-1,361.89	1,574.04	0.58	-0.32	-108.27
7,778.00	0.57	107.96	7,515.53	789.29	-1,361.61	1,573.71	0.82	0.43	-169.90
7,869.00	0.90	122.09	7,606.52	788.77	-1,360.57	1,572.55	0.41	0.36	15.53
7,959.00	0.88	133.91	7,696.51	787.91	-1,359.47	1,571.18	0.20	-0.02	13.13

Company: Kerr McGee Oil and Gas Onshore LP
Project: Uintah County, UT UTM12
Site: NBU 922-29N Pad
Well: NBU 922-29L3CS
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well NBU 922-29L3CS
TVD Reference: GL 4932' & RKB 14' @ 4946.00ft (ENSIGN 145)
MD Reference: GL 4932' & RKB 14' @ 4946.00ft (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)
8,050.00	0.75	96.90	7,787.50	787.36	-1,358.38	1,569.95	0.58	-0.14	-40.67
8,141.00	0.69	53.62	7,878.49	787.61	-1,357.35	1,569.18	0.59	-0.07	-47.56
8,231.00	0.68	22.67	7,968.49	788.43	-1,356.70	1,569.02	0.41	-0.01	-34.39
8,322.00	0.54	26.24	8,059.48	789.31	-1,356.31	1,569.10	0.16	-0.15	3.92
8,412.00	0.44	100.15	8,149.48	789.63	-1,355.78	1,568.80	0.66	-0.11	82.12
8,503.00	0.72	80.80	8,240.47	789.66	-1,354.87	1,568.02	0.37	0.31	-21.26
8,593.00	0.43	24.50	8,330.47	790.06	-1,354.17	1,567.61	0.67	-0.32	-62.56
8,684.00	0.50	32.62	8,421.47	790.70	-1,353.82	1,567.62	0.11	0.08	8.92
8,775.00	0.81	348.17	8,512.46	791.67	-1,353.73	1,568.02	0.63	0.34	-48.85
8,865.00	1.08	343.96	8,602.45	793.10	-1,354.10	1,569.04	0.31	0.30	-4.68
8,956.00	0.57	349.04	8,693.44	794.37	-1,354.42	1,569.95	0.57	-0.56	5.58
9,046.00	0.47	23.28	8,783.44	795.15	-1,354.36	1,570.28	0.36	-0.11	38.04
9,136.00	0.89	329.02	8,873.43	796.09	-1,354.58	1,570.92	0.80	0.47	-60.29
9,227.00	0.43	313.63	8,964.42	796.93	-1,355.19	1,571.87	0.54	-0.51	-16.91
9,317.00	1.16	264.51	9,054.42	797.08	-1,356.34	1,572.94	1.04	0.81	-54.58
9,408.00	1.28	243.67	9,145.40	796.54	-1,358.17	1,574.27	0.50	0.13	-22.90
9,498.00	1.25	224.30	9,235.37	795.39	-1,359.75	1,575.09	0.47	-0.03	-21.52
9,589.00	1.55	189.15	9,326.35	793.46	-1,360.64	1,574.92	0.98	0.33	-38.63
9,680.00	1.68	170.17	9,417.31	790.93	-1,360.61	1,573.65	0.60	0.14	-20.86
9,770.00	1.75	152.71	9,507.27	788.41	-1,359.75	1,571.67	0.58	0.08	-19.40
9,861.00	1.64	150.26	9,598.23	786.05	-1,358.47	1,569.39	0.14	-0.12	-2.69
9,951.00	1.37	153.79	9,688.20	783.96	-1,357.36	1,567.40	0.32	-0.30	3.92
10,042.00	1.56	157.18	9,779.17	781.85	-1,356.40	1,565.52	0.23	0.21	3.73
10,133.00	1.88	151.26	9,870.13	779.40	-1,355.20	1,563.27	0.40	0.35	-6.51
10,223.00	2.16	153.90	9,960.07	776.58	-1,353.74	1,560.62	0.33	0.31	2.93
10,314.00	2.07	153.61	10,051.01	773.57	-1,352.26	1,557.85	0.10	-0.10	-0.32
10,404.00	2.20	152.26	10,140.95	770.58	-1,350.73	1,555.05	0.15	0.14	-1.50
10,495.00	2.19	154.05	10,231.88	767.47	-1,349.16	1,552.16	0.08	-0.01	1.97
10,585.00	2.16	152.05	10,321.82	764.43	-1,347.61	1,549.31	0.09	-0.03	-2.22
10,619.00	2.27	153.65	10,355.79	763.26	-1,347.01	1,548.22	0.37	0.32	4.71
LAST SDI MWD PRODUCTION SURVEY									
10,675.00	2.27	153.65	10,411.75	761.27	-1,346.02	1,546.39	0.00	0.00	0.00
SDI PROJECTION TO TD									

Company: Kerr McGee Oil and Gas Onshore LP
Project: Uintah County, UT UTM12
Site: NBU 922-29N Pad
Well: NBU 922-29L3CS
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well NBU 922-29L3CS
TVD Reference: GL 4932' & RKB 14' @ 4946.00ft (ENSIGN 145)
MD Reference: GL 4932' & RKB 14' @ 4946.00ft (ENSIGN 145)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM5000-RobertS-Local

Design Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
84.00	83.98	0.02	-1.29	FIRST MS WIRELINE GYRO
284.00	283.83	0.61	-8.96	LAST MS WIRELINE GYRO
384.00	383.62	2.63	-15.15	FIRST SDI MWD SURFACE SURVEY
2,555.00	2,450.81	316.60	-562.07	LAST SDI MWD SURFACE SURVEY
2,614.00	2,506.12	327.03	-579.78	FIRST SDI MWD PRODUCTION SURVEY
10,619.00	10,355.79	763.26	-1,347.01	LAST SDI MWD PRODUCTION SURVEY
10,675.00	10,411.75	761.27	-1,346.02	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 922-29N Pad
NBU 922-29L3CS

OH

Design: OH

Survey Report - Geographic

22 March, 2011

Company: Kerr McGee Oil and Gas Onshore LP	Local Co-ordinate Reference: Well NBU 922-29L3CS
Project: Uintah County, UT UTM12	TVD Reference: GL 4932' & RKB 14' @ 4946.00ft (ENSIGN 145)
Site: NBU 922-29N Pad	MD Reference: GL 4932' & RKB 14' @ 4946.00ft (ENSIGN 145)
Well: NBU 922-29L3CS	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 922-29N Pad, SEC 29 T9S R22E
Site Position: Northing: 14,530,501.12 usft Latitude: 40° 0' 7.545 N
From: Lat/Long Easting: 2,069,802.70 usft Longitude: 109° 28' 0.419 W
Position Uncertainty: 0.00 ft Slot Radius: 13.200 in Grid Convergence: 0.99 °

Well NBU 922-29L3CS, 822' FSL 1637' FWL
Well Position +N/-S 0.00 ft Northing: 14,530,493.20 usft Latitude: 40° 0' 7.466 N
+E/-W 0.00 ft Easting: 2,069,808.72 usft Longitude: 109° 28' 0.343 W
Position Uncertainty 0.00 ft Wellhead Elevation: ft Ground Level: 4,932.00 ft

Wellbore OH					
Magnetics	Model Name IGRF2010	Sample Date 01/06/2011	Declination (°) 11.12	Dip Angle (°) 65.89	Field Strength (nT) 52,379

Design OH				
Audit Notes:				
Version: 1.0 Phase: ACTUAL Tie On Depth: 0.00				
Vertical Section:	Depth From (TVD) (ft) 0.00	+N/-S (ft) 0.00	+E/-W (ft) 0.00	Direction (°) 299.39

Survey Program	Date 03/22/2011			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
10.00	284.00	Survey #1 MS GYRO (OH)	NS-GYRO-MS	North sensing gyrocompassing m/s
384.00	2,555.00	Survey #2 SDI MWD SURFACE SURVEY	MWD SDI	MWD - Standard ver 1.0.1
2,614.00	10,675.00	Survey #3 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	14,530,493.20	2,069,808.72	40° 0' 7.466 N	109° 28' 0.343 W
10.00	0.00	0.00	10.00	0.00	0.00	14,530,493.20	2,069,808.72	40° 0' 7.466 N	109° 28' 0.343 W
84.00	2.00	271.00	83.98	0.02	-1.29	14,530,493.20	2,069,807.43	40° 0' 7.466 N	109° 28' 0.360 W
FIRST MS WIRELINE GYRO									
197.00	2.00	270.00	196.92	0.06	-5.23	14,530,493.16	2,069,803.48	40° 0' 7.467 N	109° 28' 0.410 W
284.00	3.00	284.00	283.83	0.61	-8.96	14,530,493.65	2,069,799.75	40° 0' 7.472 N	109° 28' 0.458 W
LAST MS WIRELINE GYRO									
384.00	4.48	290.86	383.62	2.63	-15.15	14,530,495.57	2,069,793.52	40° 0' 7.492 N	109° 28' 0.538 W
FIRST SDI MWD SURFACE SURVEY									
474.00	5.99	286.91	473.24	5.25	-22.93	14,530,498.05	2,069,785.70	40° 0' 7.518 N	109° 28' 0.638 W

Company: Kerr McGee Oil and Gas Onshore LP
Project: Uintah County, UT UTM12
Site: NBU 922-29N Pad
Well: NBU 922-29L3CS
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well NBU 922-29L3CS
TVD Reference: GL 4932' & RKB 14' @ 4946.00ft (ENSGN 145)
MD Reference: GL 4932' & RKB 14' @ 4946.00ft (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
564.00	7.30	283.94	562.63	7.99	-32.97	14,530,500.62	2,069,775.61	40° 0' 7.545 N	109° 28' 0.767 W
654.00	8.93	283.54	651.73	11.01	-45.31	14,530,503.42	2,069,763.22	40° 0' 7.575 N	109° 28' 0.926 W
744.00	10.58	286.13	740.43	14.94	-60.04	14,530,507.10	2,069,748.43	40° 0' 7.614 N	109° 28' 1.115 W
834.00	11.67	292.53	828.74	20.72	-76.39	14,530,512.60	2,069,731.98	40° 0' 7.671 N	109° 28' 1.325 W
924.00	12.96	298.89	916.67	29.08	-93.63	14,530,520.67	2,069,714.60	40° 0' 7.754 N	109° 28' 1.547 W
1,014.00	14.05	303.40	1,004.18	39.98	-111.59	14,530,531.25	2,069,696.45	40° 0' 7.861 N	109° 28' 1.777 W
1,104.00	15.73	304.91	1,091.16	52.97	-130.72	14,530,543.91	2,069,677.11	40° 0' 7.990 N	109° 28' 2.023 W
1,194.00	17.68	303.31	1,177.35	67.46	-152.15	14,530,558.03	2,069,655.43	40° 0' 8.133 N	109° 28' 2.299 W
1,284.00	19.47	301.48	1,262.66	82.80	-176.36	14,530,572.95	2,069,630.96	40° 0' 8.285 N	109° 28' 2.610 W
1,374.00	20.43	301.33	1,347.26	98.80	-202.57	14,530,588.50	2,069,604.48	40° 0' 8.443 N	109° 28' 2.947 W
1,464.00	21.55	299.99	1,431.29	115.23	-230.30	14,530,604.45	2,069,576.46	40° 0' 8.605 N	109° 28' 3.303 W
1,554.00	22.71	299.19	1,514.66	131.97	-259.79	14,530,620.67	2,069,546.70	40° 0' 8.770 N	109° 28' 3.682 W
1,644.00	21.22	301.68	1,598.12	148.99	-288.82	14,530,637.20	2,069,517.38	40° 0' 8.939 N	109° 28' 4.055 W
1,734.00	20.26	300.33	1,682.29	165.42	-316.13	14,530,653.15	2,069,489.79	40° 0' 9.101 N	109° 28' 4.406 W
1,824.00	20.96	300.25	1,766.53	181.40	-343.49	14,530,668.66	2,069,462.16	40° 0' 9.259 N	109° 28' 4.758 W
1,914.00	21.63	301.25	1,850.38	198.11	-371.57	14,530,684.88	2,069,433.79	40° 0' 9.424 N	109° 28' 5.119 W
2,004.00	21.24	301.25	1,934.16	215.17	-399.69	14,530,701.46	2,069,405.39	40° 0' 9.593 N	109° 28' 5.480 W
2,094.00	19.84	301.52	2,018.44	231.62	-426.65	14,530,717.44	2,069,378.15	40° 0' 9.755 N	109° 28' 5.827 W
2,184.00	19.92	301.19	2,103.07	247.54	-452.78	14,530,732.91	2,069,351.74	40° 0' 9.913 N	109° 28' 6.162 W
2,274.00	20.09	301.78	2,187.64	263.62	-479.04	14,530,748.54	2,069,325.22	40° 0' 10.072 N	109° 28' 6.500 W
2,364.00	20.64	303.23	2,272.02	280.45	-505.45	14,530,764.91	2,069,298.52	40° 0' 10.238 N	109° 28' 6.839 W
2,454.00	20.56	303.07	2,356.26	297.77	-531.96	14,530,781.77	2,069,271.71	40° 0' 10.409 N	109° 28' 7.180 W
2,555.00	20.62	300.96	2,450.81	316.60	-562.07	14,530,800.08	2,069,241.28	40° 0' 10.595 N	109° 28' 7.567 W
LAST SDI MWD SURFACE SURVEY									
2,614.00	20.15	300.03	2,506.12	327.03	-579.78	14,530,810.20	2,069,223.40	40° 0' 10.698 N	109° 28' 7.795 W
FIRST SDI MWD PRODUCTION SURVEY									
2,705.00	20.85	301.99	2,591.35	343.45	-607.08	14,530,826.15	2,069,195.81	40° 0' 10.861 N	109° 28' 8.146 W
2,795.00	21.19	300.72	2,675.37	360.25	-634.65	14,530,842.47	2,069,167.96	40° 0' 11.027 N	109° 28' 8.500 W
2,886.00	22.82	301.53	2,759.73	377.88	-663.83	14,530,859.60	2,069,138.48	40° 0' 11.201 N	109° 28' 8.875 W
2,977.00	21.71	302.19	2,843.95	396.07	-693.12	14,530,877.28	2,069,108.89	40° 0' 11.381 N	109° 28' 9.251 W
3,067.00	21.16	302.75	2,927.72	413.73	-720.87	14,530,894.46	2,069,080.84	40° 0' 11.555 N	109° 28' 9.608 W
3,158.00	22.17	305.01	3,012.29	432.46	-748.75	14,530,912.71	2,069,052.64	40° 0' 11.741 N	109° 28' 9.966 W
3,248.00	22.68	304.56	3,095.49	452.05	-776.95	14,530,931.81	2,069,024.11	40° 0' 11.934 N	109° 28' 10.329 W
3,339.00	23.48	301.95	3,179.21	471.59	-806.78	14,530,950.84	2,068,993.95	40° 0' 12.127 N	109° 28' 10.712 W
3,430.00	22.56	300.83	3,262.96	490.13	-837.15	14,530,968.86	2,068,963.26	40° 0' 12.311 N	109° 28' 11.103 W
3,520.00	21.33	299.33	3,346.44	507.00	-866.25	14,530,985.22	2,068,933.88	40° 0' 12.477 N	109° 28' 11.477 W
3,611.00	20.92	299.67	3,431.32	523.15	-894.79	14,531,000.87	2,068,905.06	40° 0' 12.637 N	109° 28' 11.843 W
3,701.00	20.94	300.97	3,515.38	539.38	-922.54	14,531,016.62	2,068,877.03	40° 0' 12.797 N	109° 28' 12.200 W
3,792.00	20.37	300.83	3,600.53	555.86	-950.08	14,531,032.63	2,068,849.21	40° 0' 12.960 N	109° 28' 12.554 W
3,883.00	20.08	298.85	3,685.92	571.52	-977.37	14,531,047.82	2,068,821.66	40° 0' 13.115 N	109° 28' 12.905 W
3,973.00	20.25	300.52	3,770.41	586.88	-1,004.32	14,531,062.71	2,068,794.45	40° 0' 13.267 N	109° 28' 13.251 W
4,064.00	18.66	298.70	3,856.21	601.87	-1,030.66	14,531,077.25	2,068,767.86	40° 0' 13.415 N	109° 28' 13.590 W
4,154.00	18.54	301.12	3,941.51	616.18	-1,055.53	14,531,091.13	2,068,742.74	40° 0' 13.556 N	109° 28' 13.909 W
4,245.00	18.38	302.36	4,027.83	631.34	-1,080.04	14,531,105.86	2,068,717.98	40° 0' 13.706 N	109° 28' 14.224 W
4,335.00	17.66	299.73	4,113.41	645.70	-1,103.88	14,531,119.81	2,068,693.89	40° 0' 13.848 N	109° 28' 14.531 W
4,426.00	17.01	294.88	4,200.29	658.15	-1,127.94	14,531,131.84	2,068,669.62	40° 0' 13.971 N	109° 28' 14.840 W
4,517.00	17.71	300.63	4,287.15	670.80	-1,151.93	14,531,144.08	2,068,645.42	40° 0' 14.096 N	109° 28' 15.148 W
4,607.00	17.82	302.14	4,372.86	685.10	-1,175.37	14,531,157.98	2,068,621.74	40° 0' 14.238 N	109° 28' 15.450 W
4,698.00	16.71	305.55	4,459.76	700.12	-1,197.81	14,531,172.60	2,068,599.05	40° 0' 14.386 N	109° 28' 15.738 W
4,789.00	14.98	303.05	4,547.30	714.14	-1,218.31	14,531,186.27	2,068,578.30	40° 0' 14.525 N	109° 28' 16.002 W
4,879.00	15.69	301.90	4,634.09	726.92	-1,238.39	14,531,198.70	2,068,558.01	40° 0' 14.651 N	109° 28' 16.260 W
4,970.00	15.90	305.13	4,721.66	740.59	-1,259.03	14,531,212.02	2,068,537.13	40° 0' 14.786 N	109° 28' 16.525 W
5,060.00	14.45	302.31	4,808.52	753.69	-1,278.61	14,531,224.77	2,068,517.34	40° 0' 14.915 N	109° 28' 16.777 W
5,151.00	12.73	300.26	4,896.97	764.81	-1,296.86	14,531,235.58	2,068,498.89	40° 0' 15.025 N	109° 28' 17.011 W
5,242.00	11.41	299.36	4,985.95	774.28	-1,313.37	14,531,244.76	2,068,482.22	40° 0' 15.119 N	109° 28' 17.223 W

Company: Kerr McGee Oil and Gas Onshore LP
Project: Uintah County, UT UTM12
Site: NBU 922-29N Pad
Well: NBU 922-29L3CS
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well NBU 922-29L3CS
TVD Reference: GL 4932' & RKB 14' @ 4946.00ft (ENSIGN 145)
MD Reference: GL 4932' & RKB 14' @ 4946.00ft (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
5,332.00	10.36	304.72	5,074.34	783.25	-1,327.78	14,531,253.49	2,068,467.66	40° 0' 15.208 N	109° 28' 17.409 W
5,423.00	9.45	302.82	5,163.98	791.96	-1,340.78	14,531,261.97	2,068,454.51	40° 0' 15.294 N	109° 28' 17.576 W
5,513.00	8.14	302.17	5,252.92	799.36	-1,352.39	14,531,269.17	2,068,442.78	40° 0' 15.367 N	109° 28' 17.725 W
5,604.00	6.90	307.30	5,343.13	806.10	-1,362.19	14,531,275.74	2,068,432.86	40° 0' 15.434 N	109° 28' 17.851 W
5,695.00	5.66	307.60	5,433.59	812.15	-1,370.09	14,531,281.65	2,068,424.86	40° 0' 15.493 N	109° 28' 17.952 W
5,785.00	3.93	301.33	5,523.27	816.46	-1,376.24	14,531,285.86	2,068,418.63	40° 0' 15.536 N	109° 28' 18.031 W
5,876.00	2.57	299.00	5,614.12	819.07	-1,380.69	14,531,288.39	2,068,414.14	40° 0' 15.562 N	109° 28' 18.089 W
5,966.00	0.67	254.70	5,704.08	819.91	-1,382.97	14,531,289.19	2,068,411.85	40° 0' 15.570 N	109° 28' 18.118 W
6,057.00	1.26	151.94	5,795.07	818.89	-1,383.01	14,531,288.17	2,068,411.83	40° 0' 15.560 N	109° 28' 18.118 W
6,148.00	1.36	154.20	5,886.05	817.03	-1,382.07	14,531,286.33	2,068,412.80	40° 0' 15.542 N	109° 28' 18.106 W
6,238.00	1.58	158.14	5,976.02	814.92	-1,381.14	14,531,284.23	2,068,413.76	40° 0' 15.521 N	109° 28' 18.094 W
6,329.00	1.67	160.25	6,066.98	812.51	-1,380.23	14,531,281.84	2,068,414.72	40° 0' 15.497 N	109° 28' 18.083 W
6,420.00	1.77	130.01	6,157.94	810.36	-1,378.70	14,531,279.71	2,068,416.28	40° 0' 15.476 N	109° 28' 18.063 W
6,510.00	1.88	135.29	6,247.90	808.41	-1,376.60	14,531,277.81	2,068,418.42	40° 0' 15.456 N	109° 28' 18.036 W
6,601.00	1.95	134.88	6,338.85	806.26	-1,374.45	14,531,275.69	2,068,420.60	40° 0' 15.435 N	109° 28' 18.008 W
6,691.00	1.69	140.67	6,428.80	804.15	-1,372.52	14,531,273.62	2,068,422.56	40° 0' 15.414 N	109° 28' 17.984 W
6,782.00	1.73	143.75	6,519.76	802.01	-1,370.86	14,531,271.50	2,068,424.26	40° 0' 15.393 N	109° 28' 17.962 W
6,872.00	2.11	149.26	6,609.71	799.49	-1,369.21	14,531,269.01	2,068,425.96	40° 0' 15.368 N	109° 28' 17.941 W
6,963.00	2.18	148.36	6,700.65	796.58	-1,367.45	14,531,266.13	2,068,427.77	40° 0' 15.339 N	109° 28' 17.918 W
7,054.00	2.07	150.67	6,791.59	793.67	-1,365.73	14,531,263.25	2,068,429.53	40° 0' 15.311 N	109° 28' 17.896 W
7,144.00	1.25	133.49	6,881.55	791.58	-1,364.23	14,531,261.18	2,068,431.08	40° 0' 15.290 N	109° 28' 17.877 W
7,235.00	0.38	156.62	6,972.54	790.62	-1,363.39	14,531,260.24	2,068,431.93	40° 0' 15.280 N	109° 28' 17.866 W
7,325.00	0.41	133.47	7,062.54	790.12	-1,363.03	14,531,259.75	2,068,432.29	40° 0' 15.276 N	109° 28' 17.862 W
7,416.00	0.34	129.07	7,153.53	789.73	-1,362.59	14,531,259.36	2,068,432.75	40° 0' 15.272 N	109° 28' 17.856 W
7,507.00	0.66	142.47	7,244.53	789.14	-1,362.06	14,531,258.79	2,068,433.29	40° 0' 15.266 N	109° 28' 17.849 W
7,597.00	0.47	359.40	7,334.53	789.10	-1,361.75	14,531,258.75	2,068,433.60	40° 0' 15.265 N	109° 28' 17.845 W
7,688.00	0.18	260.87	7,425.53	789.45	-1,361.89	14,531,259.10	2,068,433.45	40° 0' 15.269 N	109° 28' 17.847 W
7,778.00	0.57	107.96	7,515.53	789.29	-1,361.61	14,531,258.94	2,068,433.74	40° 0' 15.267 N	109° 28' 17.843 W
7,869.00	0.90	122.09	7,606.52	788.77	-1,360.57	14,531,258.44	2,068,434.78	40° 0' 15.262 N	109° 28' 17.830 W
7,959.00	0.88	133.91	7,696.51	787.91	-1,359.47	14,531,257.60	2,068,435.89	40° 0' 15.254 N	109° 28' 17.816 W
8,050.00	0.75	96.90	7,787.50	787.36	-1,358.38	14,531,257.07	2,068,437.00	40° 0' 15.248 N	109° 28' 17.802 W
8,141.00	0.69	53.62	7,878.49	787.61	-1,357.35	14,531,257.34	2,068,438.02	40° 0' 15.251 N	109° 28' 17.789 W
8,231.00	0.68	22.67	7,968.49	788.43	-1,356.70	14,531,258.16	2,068,438.65	40° 0' 15.259 N	109° 28' 17.780 W
8,322.00	0.54	26.24	8,059.48	789.31	-1,356.31	14,531,259.05	2,068,439.03	40° 0' 15.268 N	109° 28' 17.775 W
8,412.00	0.44	100.15	8,149.48	789.63	-1,355.78	14,531,259.38	2,068,439.56	40° 0' 15.271 N	109° 28' 17.768 W
8,503.00	0.72	80.80	8,240.47	789.66	-1,354.87	14,531,259.43	2,068,440.46	40° 0' 15.271 N	109° 28' 17.757 W
8,593.00	0.43	24.50	8,330.47	790.06	-1,354.17	14,531,259.84	2,068,441.16	40° 0' 15.275 N	109° 28' 17.748 W
8,684.00	0.50	32.62	8,421.47	790.70	-1,353.82	14,531,260.49	2,068,441.50	40° 0' 15.281 N	109° 28' 17.743 W
8,775.00	0.81	348.17	8,512.46	791.67	-1,353.73	14,531,261.45	2,068,441.57	40° 0' 15.291 N	109° 28' 17.742 W
8,865.00	1.08	343.96	8,602.45	793.10	-1,354.10	14,531,262.88	2,068,441.18	40° 0' 15.305 N	109° 28' 17.747 W
8,956.00	0.57	349.04	8,693.44	794.37	-1,354.42	14,531,264.15	2,068,440.83	40° 0' 15.318 N	109° 28' 17.751 W
9,046.00	0.47	23.28	8,783.44	795.15	-1,354.36	14,531,264.93	2,068,440.88	40° 0' 15.325 N	109° 28' 17.750 W
9,136.00	0.89	329.02	8,873.43	796.09	-1,354.58	14,531,265.86	2,068,440.65	40° 0' 15.335 N	109° 28' 17.753 W
9,227.00	0.43	313.63	8,964.42	796.93	-1,355.19	14,531,266.69	2,068,440.02	40° 0' 15.343 N	109° 28' 17.761 W
9,317.00	1.16	264.51	9,054.42	797.08	-1,356.34	14,531,266.82	2,068,438.87	40° 0' 15.344 N	109° 28' 17.776 W
9,408.00	1.28	243.67	9,145.40	796.54	-1,358.17	14,531,266.25	2,068,437.05	40° 0' 15.339 N	109° 28' 17.799 W
9,498.00	1.25	224.30	9,235.37	795.39	-1,359.75	14,531,265.07	2,068,435.49	40° 0' 15.328 N	109° 28' 17.819 W
9,589.00	1.55	189.15	9,326.35	793.46	-1,360.64	14,531,263.13	2,068,434.63	40° 0' 15.309 N	109° 28' 17.831 W
9,680.00	1.68	170.17	9,417.31	790.93	-1,360.61	14,531,260.60	2,068,434.71	40° 0' 15.284 N	109° 28' 17.830 W
9,770.00	1.75	152.71	9,507.27	788.41	-1,359.75	14,531,258.10	2,068,435.60	40° 0' 15.259 N	109° 28' 17.819 W
9,861.00	1.64	150.26	9,598.23	786.05	-1,358.47	14,531,255.75	2,068,436.93	40° 0' 15.235 N	109° 28' 17.803 W
9,951.00	1.37	153.79	9,688.20	783.96	-1,357.36	14,531,253.69	2,068,438.08	40° 0' 15.215 N	109° 28' 17.789 W
10,042.00	1.56	157.18	9,779.17	781.85	-1,356.40	14,531,251.59	2,068,439.07	40° 0' 15.194 N	109° 28' 17.776 W
10,133.00	1.88	151.26	9,870.13	779.40	-1,355.20	14,531,249.16	2,068,440.31	40° 0' 15.170 N	109° 28' 17.761 W
10,223.00	2.16	153.90	9,960.07	776.58	-1,353.74	14,531,246.37	2,068,441.82	40° 0' 15.142 N	109° 28' 17.742 W

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

FORM 6

ENTITY ACTION FORM

Operator: KERR MCGEE OIL & GAS ONSHORE LP Operator Account Number: N 2995
Address: P.O. Box 173779
city DENVER
state CO zip 80217 Phone Number: (720) 929-6100

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304751218	NBU 922-29N2BS		SESW	29	9S	22E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
B	99999	2900	1/7/2011			1/13/2011	
Comments: MIRU PETE MARTIN BUCKET RIG. <u>WSTMVD</u> SPUD WELL LOCATION ON 01/07/2011 AT 11:30 HRS. <u>BHL = SESW</u>							

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304751216	NBU 922-29L3CS		SESW	29	9S	22E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
B	99999	2900	1/7/2011			1/13/2011	
Comments: MIRU PETE MARTIN BUCKET RIG. <u>WSTMVD</u> SPUD WELL LOCATION ON 01/07/2011 AT 13:30 HRS. <u>BHL = NWSW</u>							

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304751220	NBU 922-30I4BS		SESW	29	9S	22E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
B	99999	2900	1/7/2011			1/13/2011	
Comments: MIRU PETE MARTIN BUCKET RIG. <u>WSTMVD</u> SPUD WELL LOCATION ON 01/07/2011 AT 15:00 HRS. <u>BHL = Sec 30 NENE</u>							

ACTION CODES:

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

GINA BECKER

Name (Please Print)

Gina Becker

Signature

REGULATORY ANALYST

1/11/2011

Title

Date

RECEIVED

JAN 13 2011

DIV. OF OIL, GAS & MINING