

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

FORM 3

AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL		1. WELL NAME and NUMBER NBU 922-29N1BS
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) UO 1207 ST	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	1050 FSL 1596 FEL	SWSE	29	9.0 S	22.0 E	S
Top of Uppermost Producing Zone	1080 FSL 2251 FWL	SESW	29	9.0 S	22.0 E	S
At Total Depth	1080 FSL 2251 FWL	SESW	29	9.0 S	22.0 E	S

21. COUNTY UINTAH	22. DISTANCE TO NEAREST LEASE LINE (Feet) 1080	23. NUMBER OF ACRES IN DRILLING UNIT 400
	25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 669	26. PROPOSED DEPTH MD: 9594 TVD: 9361
27. ELEVATION - GROUND LEVEL 4928	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 43047512230000	APPROVAL  Permit Manager	

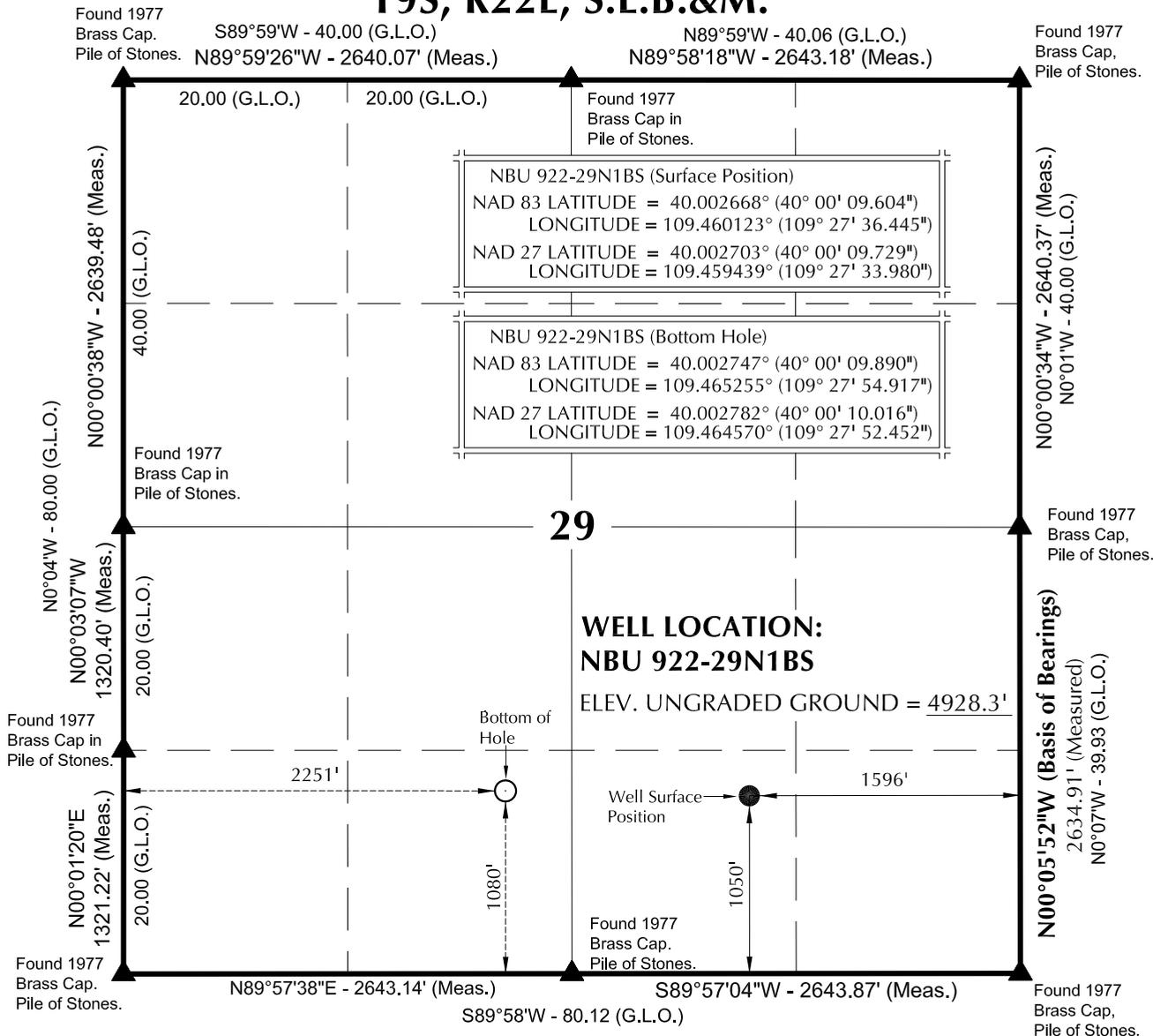
Proposed Hole, Casing, and Cement

String	Hole Size	Casing Size	Top (MD)	Bottom (MD)		
Prod	7.875	4.5	0	9594		
Pipe	Grade	Length	Weight			
	Grade I-80 Buttress	9594	11.6			

Proposed Hole, Casing, and Cement

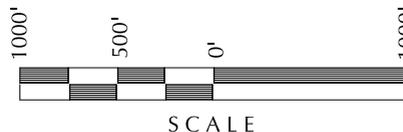
String	Hole Size	Casing Size	Top (MD)	Bottom (MD)		
Surf	11	8.625	0	2300		
Pipe	Grade	Length	Weight			
	Grade I-80 LT&C	2300	28.0			

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



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 N88°50'44"W 1438.19' 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. SLOUGH
 PROFESSIONAL LAND SURVEYOR
 REGISTRATION No. 6028691
 STATE OF UTAH

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

Well Pad: NBU 922-29O1

**NBU 922-29N1BS
WELL PLAT
1080' FSL, 2251' FWL (Bottom Hole)
SE ¼ SW ¼ OF SECTION 29, T9S, R22E,
S.L.B.&M., UTAH COUNTY, UTAH.**

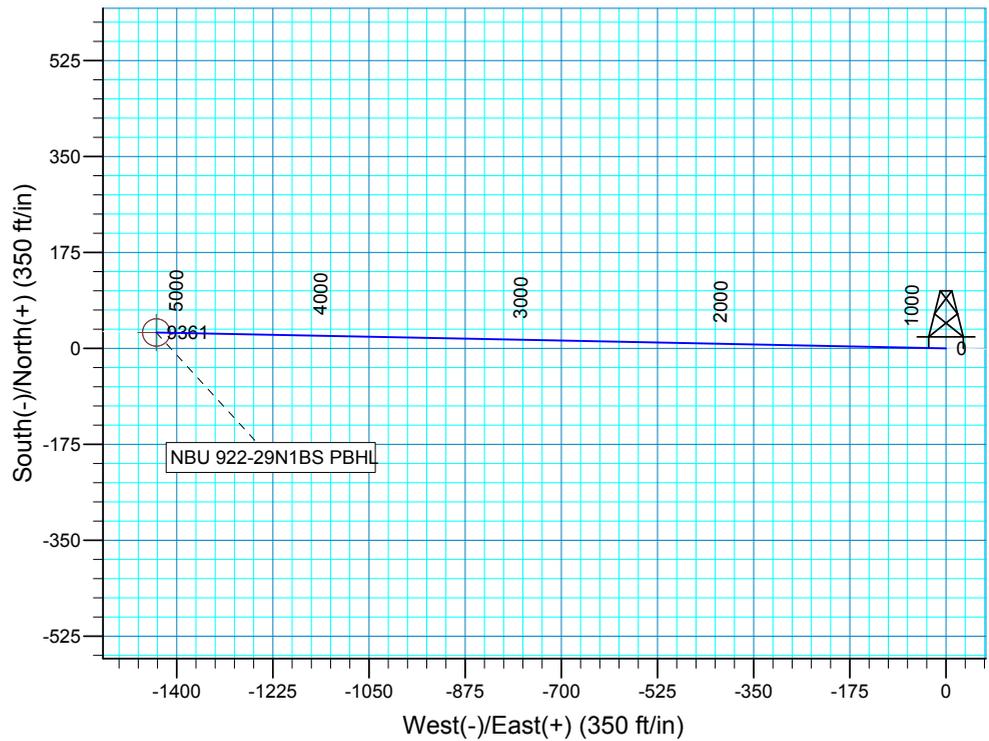
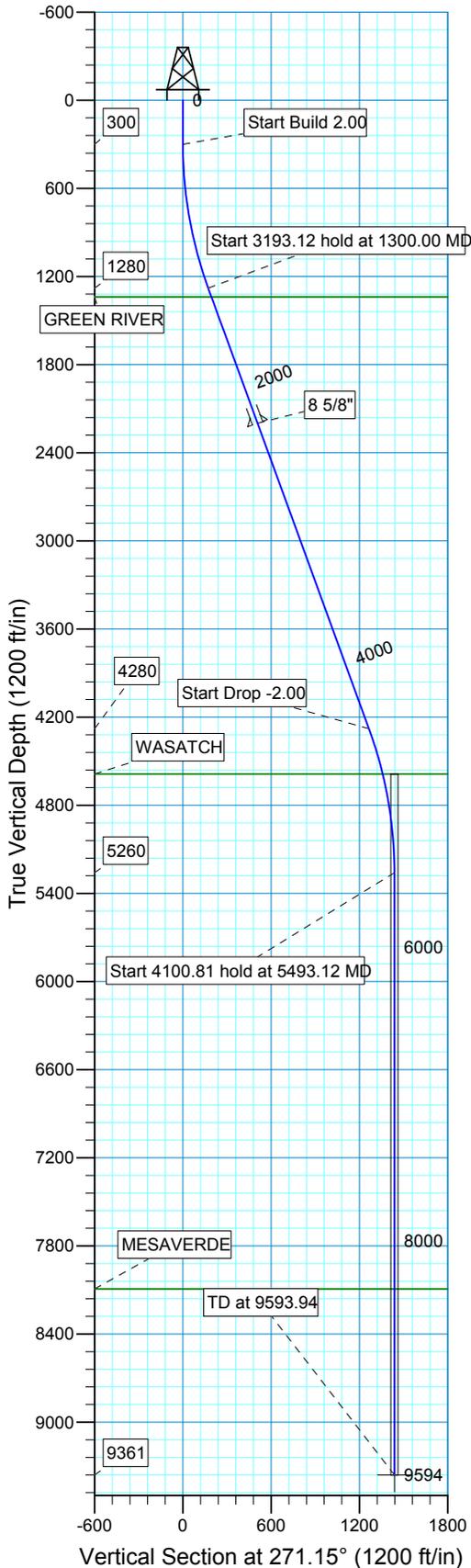


CONSULTING, LLC
 371 Coffeen Avenue
 Sheridan WY 82801
 Phone 307-674-0609
 Fax 307-674-0182

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

DATE SURVEYED: 03-25-10	SURVEYED BY: K.B.C.	SHEET NO: 1 1 OF 15
DATE DRAWN: 03-30-10	DRAWN BY: K.O.B.	
SCALE: 1" = 1000'		Date Last Revised: 06-04-10 K.O.B.

WELL DETAILS: NBU 922-29N1BS					
		GL 4961' & RKB 14' @ 4975.00ft (ASSUMED)		4961.00	
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	614550.03	2571577.21	40° 0' 9.731 N	109° 27' 33.980 W



T M
 Azimuths to True North
 Magnetic North: 11.16°
 Magnetic Field
 Strength: 52459.5snT
 Dip Angle: 65.91°
 Date: 07/14/2010
 Model: IGRF200510

Plan: Plan #1 (NBU 922-29N1BS/OH)
 Created By: Robert H. Scott Date: 10:54, July 14 2010

FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
1340.00	1364.05	GREEN RIVER
4588.00	4814.61	WASATCH
8093.00	8325.94	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

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	271.15	1279.82	3.46	-172.73	2.00	271.15	172.77	
4	4493.12	20.00	271.15	4280.37	25.37	-1264.63	0.00	0.00	1264.88	
5	5493.12	0.00	0.00	5260.19	28.83	-1437.36	2.00	180.00	1437.65	
6	9593.94	0.00	0.00	9361.00	28.83	-1437.36	0.00	0.00	1437.65	NBU 922-29N1BS PBHL



Scientific Drilling
Rocky Mountain Operations

Kerr McGee Oil and Gas Onshore LP

**Uintah County, UT NAD27
NBU 922-29O1 Pad
NBU 922-29N1BS
OH**

Plan: Plan #1

Standard Planning Report

14 July, 2010



Database:	EDM 2003.16 Single User Db	Local Co-ordinate Reference:	Well NBU 922-29N1BS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 4961' & RKB 14' @ 4975.00ft (ASSUMED)
Project:	Uintah County, UT NAD27	MD Reference:	GL 4961' & RKB 14' @ 4975.00ft (ASSUMED)
Site:	NBU 922-29O1 Pad	North Reference:	True
Well:	NBU 922-29N1BS	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 922-29O1 Pad, SEC 29 T9S R22E				
Site Position:		Northing:	614,549.41 ft	Latitude:	40° 0' 9.720 N
From:	Lat/Long	Easting:	2,571,597.40 ft	Longitude:	109° 27' 33.721 W
Position Uncertainty:	0.00 ft	Slot Radius:	in	Grid Convergence:	1.31 °

Well	NBU 922-29N1BS, 1050' FSL 1596' FEL					
Well Position	+N/-S	0.00 ft	Northing:	614,550.03 ft	Latitude:	40° 0' 9.731 N
	+E/-W	0.00 ft	Easting:	2,571,577.21 ft	Longitude:	109° 27' 33.980 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	4,961.00 ft

Wellbore	OH
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	07/14/10	11.16	65.91	52,460

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 0.00 271.15

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	271.15	1,279.82	3.46	-172.73	2.00	2.00	0.00	271.15	
4,493.12	20.00	271.15	4,280.37	25.37	-1,264.63	0.00	0.00	0.00	0.00	
5,493.12	0.00	0.00	5,260.19	28.83	-1,437.36	2.00	-2.00	0.00	180.00	
9,593.94	0.00	0.00	9,361.00	28.83	-1,437.36	0.00	0.00	0.00	0.00	NBU 922-29N1BS f



Database:	EDM 2003.16 Single User Db	Local Co-ordinate Reference:	Well NBU 922-29N1BS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 4961' & RKB 14' @ 4975.00ft (ASSUMED)
Project:	Uintah County, UT NAD27	MD Reference:	GL 4961' & RKB 14' @ 4975.00ft (ASSUMED)
Site:	NBU 922-29O1 Pad	North Reference:	True
Well:	NBU 922-29N1BS	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	271.15	399.98	0.03	-1.74	1.75	2.00	2.00	0.00
500.00	4.00	271.15	499.84	0.14	-6.98	6.98	2.00	2.00	0.00
600.00	6.00	271.15	599.45	0.31	-15.69	15.69	2.00	2.00	0.00
700.00	8.00	271.15	698.70	0.56	-27.87	27.88	2.00	2.00	0.00
800.00	10.00	271.15	797.47	0.87	-43.51	43.52	2.00	2.00	0.00
900.00	12.00	271.15	895.62	1.26	-62.59	62.60	2.00	2.00	0.00
1,000.00	14.00	271.15	993.06	1.71	-85.08	85.10	2.00	2.00	0.00
1,100.00	16.00	271.15	1,089.64	2.23	-110.95	110.98	2.00	2.00	0.00
1,200.00	18.00	271.15	1,185.27	2.81	-140.18	140.21	2.00	2.00	0.00
1,300.00	20.00	271.15	1,279.82	3.46	-172.73	172.77	2.00	2.00	0.00
Start 3193.12 hold at 1300.00 MD									
1,364.05	20.00	271.15	1,340.00	3.90	-194.63	194.67	0.00	0.00	0.00
GREEN RIVER									
1,400.00	20.00	271.15	1,373.78	4.15	-206.93	206.97	0.00	0.00	0.00
1,500.00	20.00	271.15	1,467.75	4.84	-241.12	241.17	0.00	0.00	0.00
1,600.00	20.00	271.15	1,561.72	5.52	-275.32	275.37	0.00	0.00	0.00
1,700.00	20.00	271.15	1,655.69	6.21	-309.51	309.58	0.00	0.00	0.00
1,800.00	20.00	271.15	1,749.66	6.89	-343.71	343.78	0.00	0.00	0.00
1,900.00	20.00	271.15	1,843.63	7.58	-377.90	377.98	0.00	0.00	0.00
2,000.00	20.00	271.15	1,937.60	8.27	-412.10	412.18	0.00	0.00	0.00
2,100.00	20.00	271.15	2,031.57	8.95	-446.29	446.38	0.00	0.00	0.00
2,200.00	20.00	271.15	2,125.54	9.64	-480.49	480.59	0.00	0.00	0.00
2,279.24	20.00	271.15	2,200.00	10.18	-507.59	507.69	0.00	0.00	0.00
8 5/8"									
2,300.00	20.00	271.15	2,219.51	10.32	-514.68	514.79	0.00	0.00	0.00
2,400.00	20.00	271.15	2,313.48	11.01	-548.88	548.99	0.00	0.00	0.00
2,500.00	20.00	271.15	2,407.45	11.70	-583.07	583.19	0.00	0.00	0.00
2,600.00	20.00	271.15	2,501.42	12.38	-617.27	617.39	0.00	0.00	0.00
2,700.00	20.00	271.15	2,595.39	13.07	-651.47	651.60	0.00	0.00	0.00
2,800.00	20.00	271.15	2,689.35	13.75	-685.66	685.80	0.00	0.00	0.00
2,900.00	20.00	271.15	2,783.32	14.44	-719.86	720.00	0.00	0.00	0.00
3,000.00	20.00	271.15	2,877.29	15.12	-754.05	754.20	0.00	0.00	0.00
3,100.00	20.00	271.15	2,971.26	15.81	-788.25	788.40	0.00	0.00	0.00
3,200.00	20.00	271.15	3,065.23	16.50	-822.44	822.61	0.00	0.00	0.00
3,300.00	20.00	271.15	3,159.20	17.18	-856.64	856.81	0.00	0.00	0.00
3,400.00	20.00	271.15	3,253.17	17.87	-890.83	891.01	0.00	0.00	0.00
3,500.00	20.00	271.15	3,347.14	18.55	-925.03	925.21	0.00	0.00	0.00
3,600.00	20.00	271.15	3,441.11	19.24	-959.22	959.41	0.00	0.00	0.00
3,700.00	20.00	271.15	3,535.08	19.93	-993.42	993.62	0.00	0.00	0.00
3,800.00	20.00	271.15	3,629.05	20.61	-1,027.61	1,027.82	0.00	0.00	0.00
3,900.00	20.00	271.15	3,723.02	21.30	-1,061.81	1,062.02	0.00	0.00	0.00
4,000.00	20.00	271.15	3,816.99	21.98	-1,096.00	1,096.22	0.00	0.00	0.00
4,100.00	20.00	271.15	3,910.95	22.67	-1,130.20	1,130.42	0.00	0.00	0.00
4,200.00	20.00	271.15	4,004.92	23.35	-1,164.39	1,164.63	0.00	0.00	0.00
4,300.00	20.00	271.15	4,098.89	24.04	-1,198.59	1,198.83	0.00	0.00	0.00
4,400.00	20.00	271.15	4,192.86	24.73	-1,232.78	1,233.03	0.00	0.00	0.00
4,493.12	20.00	271.15	4,280.37	25.37	-1,264.63	1,264.88	0.00	0.00	0.00
Start Drop -2.00									



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Project:	Uintah County, UT NAD27	MD Reference:	GL 4961' & RKB 14' @ 4975.00ft (ASSUMED)
Site:	NBU 922-29O1 Pad	North Reference:	True
Well:	NBU 922-29N1BS	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)
4,500.00	19.86	271.15	4,286.83	25.41	-1,266.97	1,267.22	2.00	-2.00	0.00
4,600.00	17.86	271.15	4,381.46	26.06	-1,299.29	1,299.55	2.00	-2.00	0.00
4,700.00	15.86	271.15	4,477.16	26.64	-1,328.29	1,328.56	2.00	-2.00	0.00
4,800.00	13.86	271.15	4,573.80	27.16	-1,353.94	1,354.21	2.00	-2.00	0.00
4,814.61	13.57	271.15	4,588.00	27.23	-1,357.40	1,357.67	2.00	-2.00	0.00
WASATCH									
4,900.00	11.86	271.15	4,671.29	27.60	-1,376.19	1,376.47	2.00	-2.00	0.00
5,000.00	9.86	271.15	4,769.49	27.98	-1,395.03	1,395.31	2.00	-2.00	0.00
5,100.00	7.86	271.15	4,868.29	28.29	-1,410.43	1,410.72	2.00	-2.00	0.00
5,200.00	5.86	271.15	4,967.57	28.53	-1,422.38	1,422.67	2.00	-2.00	0.00
5,300.00	3.86	271.15	5,067.21	28.70	-1,430.85	1,431.14	2.00	-2.00	0.00
5,400.00	1.86	271.15	5,167.08	28.80	-1,435.85	1,436.14	2.00	-2.00	0.00
5,493.12	0.00	0.00	5,260.19	28.83	-1,437.36	1,437.65	2.00	-2.00	0.00
Start 4100.81 hold at 5493.12 MD									
5,500.00	0.00	0.00	5,267.06	28.83	-1,437.36	1,437.65	0.00	0.00	0.00
5,600.00	0.00	0.00	5,367.06	28.83	-1,437.36	1,437.65	0.00	0.00	0.00
5,700.00	0.00	0.00	5,467.06	28.83	-1,437.36	1,437.65	0.00	0.00	0.00
5,800.00	0.00	0.00	5,567.06	28.83	-1,437.36	1,437.65	0.00	0.00	0.00
5,900.00	0.00	0.00	5,667.06	28.83	-1,437.36	1,437.65	0.00	0.00	0.00
6,000.00	0.00	0.00	5,767.06	28.83	-1,437.36	1,437.65	0.00	0.00	0.00
6,100.00	0.00	0.00	5,867.06	28.83	-1,437.36	1,437.65	0.00	0.00	0.00
6,200.00	0.00	0.00	5,967.06	28.83	-1,437.36	1,437.65	0.00	0.00	0.00
6,300.00	0.00	0.00	6,067.06	28.83	-1,437.36	1,437.65	0.00	0.00	0.00
6,400.00	0.00	0.00	6,167.06	28.83	-1,437.36	1,437.65	0.00	0.00	0.00
6,500.00	0.00	0.00	6,267.06	28.83	-1,437.36	1,437.65	0.00	0.00	0.00
6,600.00	0.00	0.00	6,367.06	28.83	-1,437.36	1,437.65	0.00	0.00	0.00
6,700.00	0.00	0.00	6,467.06	28.83	-1,437.36	1,437.65	0.00	0.00	0.00
6,800.00	0.00	0.00	6,567.06	28.83	-1,437.36	1,437.65	0.00	0.00	0.00
6,900.00	0.00	0.00	6,667.06	28.83	-1,437.36	1,437.65	0.00	0.00	0.00
7,000.00	0.00	0.00	6,767.06	28.83	-1,437.36	1,437.65	0.00	0.00	0.00
7,100.00	0.00	0.00	6,867.06	28.83	-1,437.36	1,437.65	0.00	0.00	0.00
7,200.00	0.00	0.00	6,967.06	28.83	-1,437.36	1,437.65	0.00	0.00	0.00
7,300.00	0.00	0.00	7,067.06	28.83	-1,437.36	1,437.65	0.00	0.00	0.00
7,400.00	0.00	0.00	7,167.06	28.83	-1,437.36	1,437.65	0.00	0.00	0.00
7,500.00	0.00	0.00	7,267.06	28.83	-1,437.36	1,437.65	0.00	0.00	0.00
7,600.00	0.00	0.00	7,367.06	28.83	-1,437.36	1,437.65	0.00	0.00	0.00
7,700.00	0.00	0.00	7,467.06	28.83	-1,437.36	1,437.65	0.00	0.00	0.00
7,800.00	0.00	0.00	7,567.06	28.83	-1,437.36	1,437.65	0.00	0.00	0.00
7,900.00	0.00	0.00	7,667.06	28.83	-1,437.36	1,437.65	0.00	0.00	0.00
8,000.00	0.00	0.00	7,767.06	28.83	-1,437.36	1,437.65	0.00	0.00	0.00
8,100.00	0.00	0.00	7,867.06	28.83	-1,437.36	1,437.65	0.00	0.00	0.00
8,200.00	0.00	0.00	7,967.06	28.83	-1,437.36	1,437.65	0.00	0.00	0.00
8,300.00	0.00	0.00	8,067.06	28.83	-1,437.36	1,437.65	0.00	0.00	0.00
8,325.94	0.00	0.00	8,093.00	28.83	-1,437.36	1,437.65	0.00	0.00	0.00
MESAVERDE									
8,400.00	0.00	0.00	8,167.06	28.83	-1,437.36	1,437.65	0.00	0.00	0.00
8,500.00	0.00	0.00	8,267.06	28.83	-1,437.36	1,437.65	0.00	0.00	0.00
8,600.00	0.00	0.00	8,367.06	28.83	-1,437.36	1,437.65	0.00	0.00	0.00
8,700.00	0.00	0.00	8,467.06	28.83	-1,437.36	1,437.65	0.00	0.00	0.00
8,800.00	0.00	0.00	8,567.06	28.83	-1,437.36	1,437.65	0.00	0.00	0.00
8,900.00	0.00	0.00	8,667.06	28.83	-1,437.36	1,437.65	0.00	0.00	0.00
9,000.00	0.00	0.00	8,767.06	28.83	-1,437.36	1,437.65	0.00	0.00	0.00
9,100.00	0.00	0.00	8,867.06	28.83	-1,437.36	1,437.65	0.00	0.00	0.00



Database:	EDM 2003.16 Single User Db	Local Co-ordinate Reference:	Well NBU 922-29N1BS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 4961' & RKB 14' @ 4975.00ft (ASSUMED)
Project:	Uintah County, UT NAD27	MD Reference:	GL 4961' & RKB 14' @ 4975.00ft (ASSUMED)
Site:	NBU 922-29O1 Pad	North Reference:	True
Well:	NBU 922-29N1BS	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	8,967.06	28.83	-1,437.36	1,437.65	0.00	0.00	0.00
9,300.00	0.00	0.00	9,067.06	28.83	-1,437.36	1,437.65	0.00	0.00	0.00
9,400.00	0.00	0.00	9,167.06	28.83	-1,437.36	1,437.65	0.00	0.00	0.00
9,500.00	0.00	0.00	9,267.06	28.83	-1,437.36	1,437.65	0.00	0.00	0.00
9,593.94	0.00	0.00	9,361.00	28.83	-1,437.36	1,437.65	0.00	0.00	0.00

TD at 9593.94 - NBU 922-29N1BS PBHL

Targets

Target Name	- hit/miss target	- Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
NBU 922-29N1BS PB	- hit/miss target	- Shape	0.00	0.00	9,361.00	28.83	-1,437.36	614,546.06	2,570,139.57	40° 0' 10.015 N	109° 27' 52.452 W
	- plan hits target center	- Circle (radius 25.00)									

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)
2,279.24	2,200.00	8 5/8"	8.625	11.000

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
4,814.61	4,588.00	WASATCH			
8,325.94	8,093.00	MESAVERDE			
1,364.05	1,340.00	GREEN RIVER			

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +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	3.46	-172.73	Start 3193.12 hold at 1300.00 MD
4,493.12	4,280.37	25.37	-1,264.63	Start Drop -2.00
5,493.12	5,260.19	28.83	-1,437.36	Start 4100.81 hold at 5493.12 MD
9,593.94	9,361.00	28.83	-1,437.36	TD at 9593.94



Scientific Drilling
Rocky Mountain Operations

Kerr McGee Oil and Gas Onshore LP

Uintah County, UT NAD27

NBU 922-29O1 Pad

NBU 922-29N1BS

OH

Plan: Plan #1

Standard Planning Report - Geographic

14 July, 2010



SDI
Planning Report - Geographic



Database:	EDM 2003.16 Single User Db	Local Co-ordinate Reference:	Well NBU 922-29N1BS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 4961' & RKB 14' @ 4975.00ft (ASSUMED)
Project:	Uintah County, UT NAD27	MD Reference:	GL 4961' & RKB 14' @ 4975.00ft (ASSUMED)
Site:	NBU 922-29O1 Pad	North Reference:	True
Well:	NBU 922-29N1BS	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 922-29O1 Pad, SEC 29 T9S R22E				
Site Position:		Northing:	614,549.41 ft	Latitude:	40° 0' 9.720 N
From:	Lat/Long	Easting:	2,571,597.40 ft	Longitude:	109° 27' 33.721 W
Position Uncertainty:	0.00 ft	Slot Radius:	in	Grid Convergence:	1.31 °

Well	NBU 922-29N1BS, 1050' FSL 1596' FEL					
Well Position	+N/-S	0.00 ft	Northing:	614,550.03 ft	Latitude:	40° 0' 9.731 N
	+E/-W	0.00 ft	Easting:	2,571,577.21 ft	Longitude:	109° 27' 33.980 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	4,961.00 ft

Wellbore	OH
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	07/14/10	11.16	65.91	52,460

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 0.00 271.15

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	271.15	1,279.82	3.46	-172.73	2.00	2.00	0.00	271.15	
4,493.12	20.00	271.15	4,280.37	25.37	-1,264.63	0.00	0.00	0.00	0.00	
5,493.12	0.00	0.00	5,260.19	28.83	-1,437.36	2.00	-2.00	0.00	180.00	
9,593.94	0.00	0.00	9,361.00	28.83	-1,437.36	0.00	0.00	0.00	0.00	NBU 922-29N1BS F



Database:	EDM 2003.16 Single User Db	Local Co-ordinate Reference:	Well NBU 922-29N1BS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 4961' & RKB 14' @ 4975.00ft (ASSUMED)
Project:	Uintah County, UT NAD27	MD Reference:	GL 4961' & RKB 14' @ 4975.00ft (ASSUMED)
Site:	NBU 922-29O1 Pad	North Reference:	True
Well:	NBU 922-29N1BS	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	614,550.03	2,571,577.21	40° 0' 9.731 N	109° 27' 33.980 W
100.00	0.00	0.00	100.00	0.00	0.00	614,550.03	2,571,577.21	40° 0' 9.731 N	109° 27' 33.980 W
200.00	0.00	0.00	200.00	0.00	0.00	614,550.03	2,571,577.21	40° 0' 9.731 N	109° 27' 33.980 W
300.00	0.00	0.00	300.00	0.00	0.00	614,550.03	2,571,577.21	40° 0' 9.731 N	109° 27' 33.980 W
Start Build 2.00									
400.00	2.00	271.15	399.98	0.03	-1.74	614,550.03	2,571,575.46	40° 0' 9.731 N	109° 27' 34.003 W
500.00	4.00	271.15	499.84	0.14	-6.98	614,550.01	2,571,570.23	40° 0' 9.732 N	109° 27' 34.070 W
600.00	6.00	271.15	599.45	0.31	-15.69	614,549.99	2,571,561.52	40° 0' 9.734 N	109° 27' 34.182 W
700.00	8.00	271.15	698.70	0.56	-27.87	614,549.95	2,571,549.33	40° 0' 9.736 N	109° 27' 34.339 W
800.00	10.00	271.15	797.47	0.87	-43.51	614,549.91	2,571,533.69	40° 0' 9.739 N	109° 27' 34.540 W
900.00	12.00	271.15	895.62	1.26	-62.59	614,549.86	2,571,514.61	40° 0' 9.743 N	109° 27' 34.785 W
1,000.00	14.00	271.15	993.06	1.71	-85.08	614,549.80	2,571,492.11	40° 0' 9.747 N	109° 27' 35.074 W
1,100.00	16.00	271.15	1,089.64	2.23	-110.95	614,549.73	2,571,466.23	40° 0' 9.753 N	109° 27' 35.406 W
1,200.00	18.00	271.15	1,185.27	2.81	-140.18	614,549.64	2,571,437.00	40° 0' 9.758 N	109° 27' 35.782 W
1,300.00	20.00	271.15	1,279.82	3.46	-172.73	614,549.55	2,571,404.44	40° 0' 9.765 N	109° 27' 36.200 W
Start 3193.12 hold at 1300.00 MD									
1,364.05	20.00	271.15	1,340.00	3.90	-194.63	614,549.49	2,571,382.54	40° 0' 9.769 N	109° 27' 36.482 W
GREEN RIVER									
1,400.00	20.00	271.15	1,373.78	4.15	-206.93	614,549.46	2,571,370.24	40° 0' 9.772 N	109° 27' 36.640 W
1,500.00	20.00	271.15	1,467.75	4.84	-241.12	614,549.37	2,571,336.04	40° 0' 9.778 N	109° 27' 37.079 W
1,600.00	20.00	271.15	1,561.72	5.52	-275.32	614,549.27	2,571,301.84	40° 0' 9.785 N	109° 27' 37.519 W
1,700.00	20.00	271.15	1,655.69	6.21	-309.51	614,549.18	2,571,267.64	40° 0' 9.792 N	109° 27' 37.958 W
1,800.00	20.00	271.15	1,749.66	6.89	-343.71	614,549.08	2,571,233.43	40° 0' 9.799 N	109° 27' 38.397 W
1,900.00	20.00	271.15	1,843.63	7.58	-377.90	614,548.99	2,571,199.23	40° 0' 9.806 N	109° 27' 38.837 W
2,000.00	20.00	271.15	1,937.60	8.27	-412.10	614,548.89	2,571,165.03	40° 0' 9.812 N	109° 27' 39.276 W
2,100.00	20.00	271.15	2,031.57	8.95	-446.29	614,548.80	2,571,130.83	40° 0' 9.819 N	109° 27' 39.716 W
2,200.00	20.00	271.15	2,125.54	9.64	-480.49	614,548.71	2,571,096.63	40° 0' 9.826 N	109° 27' 40.155 W
2,279.24	20.00	271.15	2,200.00	10.18	-507.59	614,548.63	2,571,069.53	40° 0' 9.831 N	109° 27' 40.503 W
8 5/8"									
2,300.00	20.00	271.15	2,219.51	10.32	-514.68	614,548.61	2,571,062.42	40° 0' 9.833 N	109° 27' 40.595 W
2,400.00	20.00	271.15	2,313.48	11.01	-548.88	614,548.52	2,571,028.22	40° 0' 9.839 N	109° 27' 41.034 W
2,500.00	20.00	271.15	2,407.45	11.70	-583.07	614,548.42	2,570,994.02	40° 0' 9.846 N	109° 27' 41.474 W
2,600.00	20.00	271.15	2,501.42	12.38	-617.27	614,548.33	2,570,959.82	40° 0' 9.853 N	109° 27' 41.913 W
2,700.00	20.00	271.15	2,595.39	13.07	-651.47	614,548.23	2,570,925.62	40° 0' 9.860 N	109° 27' 42.352 W
2,800.00	20.00	271.15	2,689.35	13.75	-685.66	614,548.14	2,570,891.42	40° 0' 9.866 N	109° 27' 42.792 W
2,900.00	20.00	271.15	2,783.32	14.44	-719.86	614,548.04	2,570,857.21	40° 0' 9.873 N	109° 27' 43.231 W
3,000.00	20.00	271.15	2,877.29	15.12	-754.05	614,547.95	2,570,823.01	40° 0' 9.880 N	109° 27' 43.671 W
3,100.00	20.00	271.15	2,971.26	15.81	-788.25	614,547.86	2,570,788.81	40° 0' 9.887 N	109° 27' 44.110 W
3,200.00	20.00	271.15	3,065.23	16.50	-822.44	614,547.76	2,570,754.61	40° 0' 9.894 N	109° 27' 44.550 W
3,300.00	20.00	271.15	3,159.20	17.18	-856.64	614,547.67	2,570,720.41	40° 0' 9.900 N	109° 27' 44.989 W
3,400.00	20.00	271.15	3,253.17	17.87	-890.83	614,547.57	2,570,686.20	40° 0' 9.907 N	109° 27' 45.429 W
3,500.00	20.00	271.15	3,347.14	18.55	-925.03	614,547.48	2,570,652.00	40° 0' 9.914 N	109° 27' 45.868 W
3,600.00	20.00	271.15	3,441.11	19.24	-959.22	614,547.38	2,570,617.80	40° 0' 9.921 N	109° 27' 46.307 W
3,700.00	20.00	271.15	3,535.08	19.93	-993.42	614,547.29	2,570,583.60	40° 0' 9.927 N	109° 27' 46.747 W
3,800.00	20.00	271.15	3,629.05	20.61	-1,027.61	614,547.20	2,570,549.40	40° 0' 9.934 N	109° 27' 47.186 W
3,900.00	20.00	271.15	3,723.02	21.30	-1,061.81	614,547.10	2,570,515.20	40° 0' 9.941 N	109° 27' 47.626 W
4,000.00	20.00	271.15	3,816.99	21.98	-1,096.00	614,547.01	2,570,480.99	40° 0' 9.948 N	109° 27' 48.065 W
4,100.00	20.00	271.15	3,910.95	22.67	-1,130.20	614,546.91	2,570,446.79	40° 0' 9.954 N	109° 27' 48.505 W
4,200.00	20.00	271.15	4,004.92	23.35	-1,164.39	614,546.82	2,570,412.59	40° 0' 9.961 N	109° 27' 48.944 W
4,300.00	20.00	271.15	4,098.89	24.04	-1,198.59	614,546.72	2,570,378.39	40° 0' 9.968 N	109° 27' 49.384 W
4,400.00	20.00	271.15	4,192.86	24.73	-1,232.78	614,546.63	2,570,344.19	40° 0' 9.975 N	109° 27' 49.823 W
4,493.12	20.00	271.15	4,280.37	25.37	-1,264.63	614,546.54	2,570,312.34	40° 0' 9.981 N	109° 27' 50.232 W
Start Drop -2.00									



Database:	EDM 2003.16 Single User Db	Local Co-ordinate Reference:	Well NBU 922-29N1BS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 4961' & RKB 14' @ 4975.00ft (ASSUMED)
Project:	Uintah County, UT NAD27	MD Reference:	GL 4961' & RKB 14' @ 4975.00ft (ASSUMED)
Site:	NBU 922-29O1 Pad	North Reference:	True
Well:	NBU 922-29N1BS	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
4,500.00	19.86	271.15	4,286.83	25.41	-1,266.97	614,546.54	2,570,309.99	40° 0' 9.981 N	109° 27' 50.262 W
4,600.00	17.86	271.15	4,381.46	26.06	-1,299.29	614,546.45	2,570,277.66	40° 0' 9.988 N	109° 27' 50.678 W
4,700.00	15.86	271.15	4,477.16	26.64	-1,328.29	614,546.37	2,570,248.66	40° 0' 9.994 N	109° 27' 51.050 W
4,800.00	13.86	271.15	4,573.80	27.16	-1,353.94	614,546.30	2,570,223.01	40° 0' 9.999 N	109° 27' 51.380 W
4,814.61	13.57	271.15	4,588.00	27.23	-1,357.40	614,546.29	2,570,219.55	40° 0' 9.999 N	109° 27' 51.424 W
WASATCH									
4,900.00	11.86	271.15	4,671.29	27.60	-1,376.19	614,546.23	2,570,200.75	40° 0' 10.003 N	109° 27' 51.666 W
5,000.00	9.86	271.15	4,769.49	27.98	-1,395.03	614,546.18	2,570,181.91	40° 0' 10.007 N	109° 27' 51.908 W
5,100.00	7.86	271.15	4,868.29	28.29	-1,410.43	614,546.14	2,570,166.50	40° 0' 10.010 N	109° 27' 52.106 W
5,200.00	5.86	271.15	4,967.57	28.53	-1,422.38	614,546.11	2,570,154.55	40° 0' 10.012 N	109° 27' 52.259 W
5,300.00	3.86	271.15	5,067.21	28.70	-1,430.85	614,546.08	2,570,146.08	40° 0' 10.014 N	109° 27' 52.368 W
5,400.00	1.86	271.15	5,167.08	28.80	-1,435.85	614,546.07	2,570,141.08	40° 0' 10.015 N	109° 27' 52.433 W
5,493.12	0.00	0.00	5,260.19	28.83	-1,437.36	614,546.06	2,570,139.57	40° 0' 10.015 N	109° 27' 52.452 W
Start 4100.81 hold at 5493.12 MD									
5,500.00	0.00	0.00	5,267.06	28.83	-1,437.36	614,546.06	2,570,139.57	40° 0' 10.015 N	109° 27' 52.452 W
5,600.00	0.00	0.00	5,367.06	28.83	-1,437.36	614,546.06	2,570,139.57	40° 0' 10.015 N	109° 27' 52.452 W
5,700.00	0.00	0.00	5,467.06	28.83	-1,437.36	614,546.06	2,570,139.57	40° 0' 10.015 N	109° 27' 52.452 W
5,800.00	0.00	0.00	5,567.06	28.83	-1,437.36	614,546.06	2,570,139.57	40° 0' 10.015 N	109° 27' 52.452 W
5,900.00	0.00	0.00	5,667.06	28.83	-1,437.36	614,546.06	2,570,139.57	40° 0' 10.015 N	109° 27' 52.452 W
6,000.00	0.00	0.00	5,767.06	28.83	-1,437.36	614,546.06	2,570,139.57	40° 0' 10.015 N	109° 27' 52.452 W
6,100.00	0.00	0.00	5,867.06	28.83	-1,437.36	614,546.06	2,570,139.57	40° 0' 10.015 N	109° 27' 52.452 W
6,200.00	0.00	0.00	5,967.06	28.83	-1,437.36	614,546.06	2,570,139.57	40° 0' 10.015 N	109° 27' 52.452 W
6,300.00	0.00	0.00	6,067.06	28.83	-1,437.36	614,546.06	2,570,139.57	40° 0' 10.015 N	109° 27' 52.452 W
6,400.00	0.00	0.00	6,167.06	28.83	-1,437.36	614,546.06	2,570,139.57	40° 0' 10.015 N	109° 27' 52.452 W
6,500.00	0.00	0.00	6,267.06	28.83	-1,437.36	614,546.06	2,570,139.57	40° 0' 10.015 N	109° 27' 52.452 W
6,600.00	0.00	0.00	6,367.06	28.83	-1,437.36	614,546.06	2,570,139.57	40° 0' 10.015 N	109° 27' 52.452 W
6,700.00	0.00	0.00	6,467.06	28.83	-1,437.36	614,546.06	2,570,139.57	40° 0' 10.015 N	109° 27' 52.452 W
6,800.00	0.00	0.00	6,567.06	28.83	-1,437.36	614,546.06	2,570,139.57	40° 0' 10.015 N	109° 27' 52.452 W
6,900.00	0.00	0.00	6,667.06	28.83	-1,437.36	614,546.06	2,570,139.57	40° 0' 10.015 N	109° 27' 52.452 W
7,000.00	0.00	0.00	6,767.06	28.83	-1,437.36	614,546.06	2,570,139.57	40° 0' 10.015 N	109° 27' 52.452 W
7,100.00	0.00	0.00	6,867.06	28.83	-1,437.36	614,546.06	2,570,139.57	40° 0' 10.015 N	109° 27' 52.452 W
7,200.00	0.00	0.00	6,967.06	28.83	-1,437.36	614,546.06	2,570,139.57	40° 0' 10.015 N	109° 27' 52.452 W
7,300.00	0.00	0.00	7,067.06	28.83	-1,437.36	614,546.06	2,570,139.57	40° 0' 10.015 N	109° 27' 52.452 W
7,400.00	0.00	0.00	7,167.06	28.83	-1,437.36	614,546.06	2,570,139.57	40° 0' 10.015 N	109° 27' 52.452 W
7,500.00	0.00	0.00	7,267.06	28.83	-1,437.36	614,546.06	2,570,139.57	40° 0' 10.015 N	109° 27' 52.452 W
7,600.00	0.00	0.00	7,367.06	28.83	-1,437.36	614,546.06	2,570,139.57	40° 0' 10.015 N	109° 27' 52.452 W
7,700.00	0.00	0.00	7,467.06	28.83	-1,437.36	614,546.06	2,570,139.57	40° 0' 10.015 N	109° 27' 52.452 W
7,800.00	0.00	0.00	7,567.06	28.83	-1,437.36	614,546.06	2,570,139.57	40° 0' 10.015 N	109° 27' 52.452 W
7,900.00	0.00	0.00	7,667.06	28.83	-1,437.36	614,546.06	2,570,139.57	40° 0' 10.015 N	109° 27' 52.452 W
8,000.00	0.00	0.00	7,767.06	28.83	-1,437.36	614,546.06	2,570,139.57	40° 0' 10.015 N	109° 27' 52.452 W
8,100.00	0.00	0.00	7,867.06	28.83	-1,437.36	614,546.06	2,570,139.57	40° 0' 10.015 N	109° 27' 52.452 W
8,200.00	0.00	0.00	7,967.06	28.83	-1,437.36	614,546.06	2,570,139.57	40° 0' 10.015 N	109° 27' 52.452 W
8,300.00	0.00	0.00	8,067.06	28.83	-1,437.36	614,546.06	2,570,139.57	40° 0' 10.015 N	109° 27' 52.452 W
8,325.94	0.00	0.00	8,093.00	28.83	-1,437.36	614,546.06	2,570,139.57	40° 0' 10.015 N	109° 27' 52.452 W
MESAVERDE									
8,400.00	0.00	0.00	8,167.06	28.83	-1,437.36	614,546.06	2,570,139.57	40° 0' 10.015 N	109° 27' 52.452 W
8,500.00	0.00	0.00	8,267.06	28.83	-1,437.36	614,546.06	2,570,139.57	40° 0' 10.015 N	109° 27' 52.452 W
8,600.00	0.00	0.00	8,367.06	28.83	-1,437.36	614,546.06	2,570,139.57	40° 0' 10.015 N	109° 27' 52.452 W
8,700.00	0.00	0.00	8,467.06	28.83	-1,437.36	614,546.06	2,570,139.57	40° 0' 10.015 N	109° 27' 52.452 W
8,800.00	0.00	0.00	8,567.06	28.83	-1,437.36	614,546.06	2,570,139.57	40° 0' 10.015 N	109° 27' 52.452 W
8,900.00	0.00	0.00	8,667.06	28.83	-1,437.36	614,546.06	2,570,139.57	40° 0' 10.015 N	109° 27' 52.452 W
9,000.00	0.00	0.00	8,767.06	28.83	-1,437.36	614,546.06	2,570,139.57	40° 0' 10.015 N	109° 27' 52.452 W
9,100.00	0.00	0.00	8,867.06	28.83	-1,437.36	614,546.06	2,570,139.57	40° 0' 10.015 N	109° 27' 52.452 W
9,200.00	0.00	0.00	8,967.06	28.83	-1,437.36	614,546.06	2,570,139.57	40° 0' 10.015 N	109° 27' 52.452 W



Database:	EDM 2003.16 Single User Db	Local Co-ordinate Reference:	Well NBU 922-29N1BS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 4961' & RKB 14' @ 4975.00ft (ASSUMED)
Project:	Uintah County, UT NAD27	MD Reference:	GL 4961' & RKB 14' @ 4975.00ft (ASSUMED)
Site:	NBU 922-29O1 Pad	North Reference:	True
Well:	NBU 922-29N1BS	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
9,300.00	0.00	0.00	9,067.06	28.83	-1,437.36	614,546.06	2,570,139.57	40° 0' 10.015 N	109° 27' 52.452 W
9,400.00	0.00	0.00	9,167.06	28.83	-1,437.36	614,546.06	2,570,139.57	40° 0' 10.015 N	109° 27' 52.452 W
9,500.00	0.00	0.00	9,267.06	28.83	-1,437.36	614,546.06	2,570,139.57	40° 0' 10.015 N	109° 27' 52.452 W
9,593.94	0.00	0.00	9,361.00	28.83	-1,437.36	614,546.06	2,570,139.57	40° 0' 10.015 N	109° 27' 52.452 W
TD at 9593.94 - NBU 922-29N1BS 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 922-29N1BS PB		0.00	0.00	9,361.00	28.83	-1,437.36	614,546.06	2,570,139.57	40° 0' 10.015 N	109° 27' 52.452 W
- plan hits target center										
- Circle (radius 25.00)										

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)	
2,279.24	2,200.00	8 5/8"	8.625	11.000	

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
4,814.61	4,588.00	WASATCH			
8,325.94	8,093.00	MESAVERDE			
1,364.05	1,340.00	GREEN RIVER			

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	3.46	-172.73	Start 3193.12 hold at 1300.00 MD	
4,493.12	4,280.37	25.37	-1,264.63	Start Drop -2.00	
5,493.12	5,260.19	28.83	-1,437.36	Start 4100.81 hold at 5493.12 MD	
9,593.94	9,361.00	28.83	-1,437.36	TD at 9593.94	

NBU 922-29N1BS

Pad: NBU 922-29O1

Surface: 1,050' FSL 1,596' FEL (SW/4SE/4)

BHL: 1,080' FSL 2,251' FWL (SE/4SW/4)

Section 29 T9S R22E

Uintah County, Utah

Mineral Lease: UO 1207 ST

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	1,340'	
Birds Nest	1,660'	Water
Mahogany	2,045'	Water
Wasatch	4,588'	Gas
Mesaverde	7,124'	Gas
MVU2	8,093'	Gas
MVL1	8,638'	Gas
TVD	9,361'	
TD	9,594'	

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 9,361' TVD, approximately equals 5,735 psi (calculated at 0.61 psi/foot).

Maximum anticipated surface pressure equals approximately 3,675 psi (bottomhole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

8. Anticipated Starting Dates:

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

9. Variances:

Please refer to the attached Drilling Program.

Onshore Order #2 – Air Drilling Variance

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

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

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

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

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

Background

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

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

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

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

Variance for BOPE Requirements

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

Variance for Mud Material Requirements

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

Variance for Special Drilling Operation (surface equipment placement) Requirements

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

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

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

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

Conclusion

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

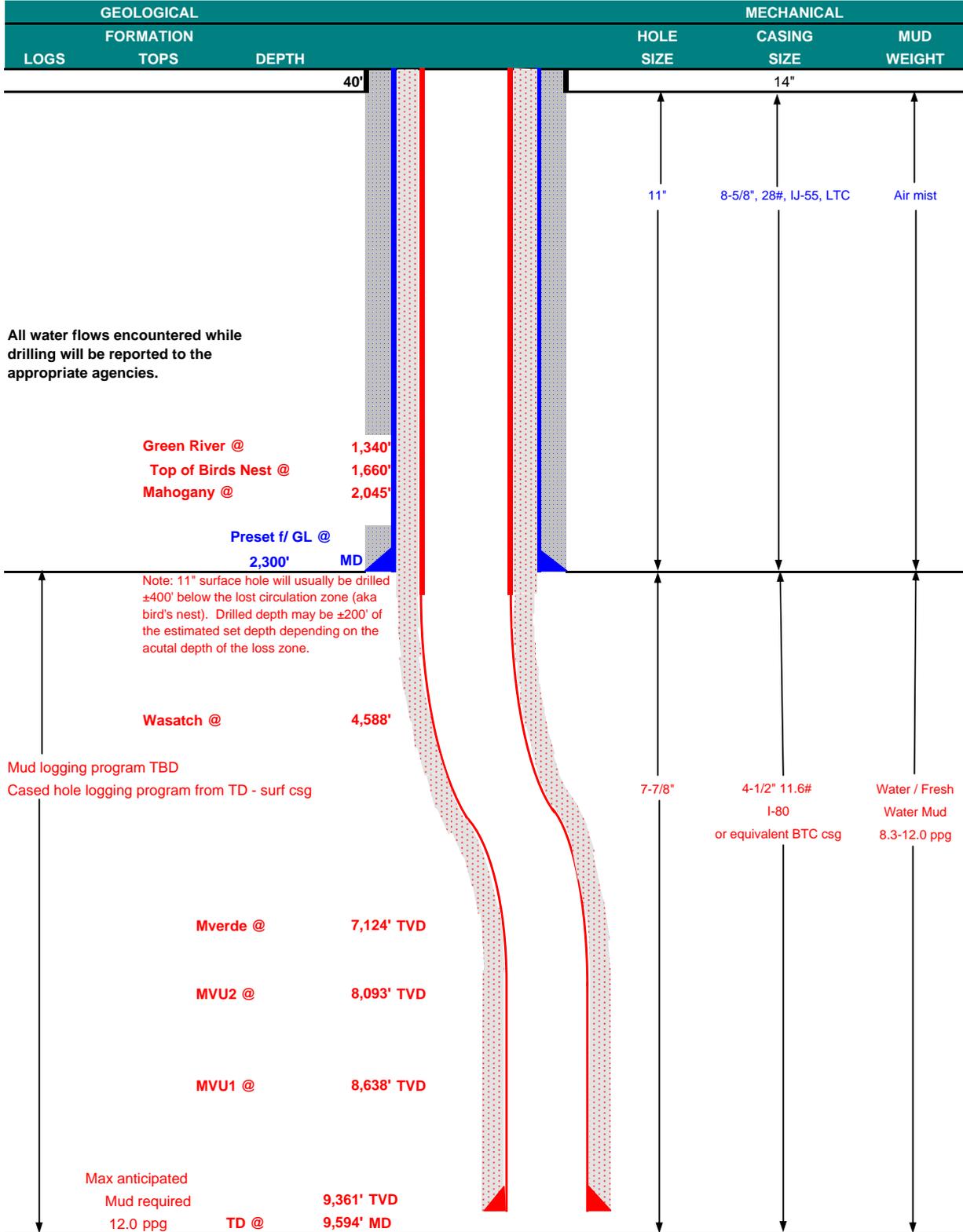
10. Other Information:

Please refer to the attached Drilling Program.



KERR-McGEE OIL & GAS ONSHORE LP DRILLING PROGRAM

COMPANY NAME	KERR-McGEE OIL & GAS ONSHORE LP		DATE	July 28, 2010	
WELL NAME	NBU 922-29N1BS		TD	9,361'	9,594' MD
FIELD	Natural Buttes	COUNTY	Uintah	STATE	Utah
				FINISHED ELEVATION	4,926'
SURFACE LOCATION	SW/4 SE/4	1,050' FSL	1,596' FEL	Sec 29 T 9S R 22E	
	Latitude:	40.002703	Longitude:	-109.459439	NAD 27
BTM HOLE LOCATION	SE/4 SW/4	1,080' FSL	2,251' FWL	Sec 29 T 9S R 22E	
	Latitude:	40.002782	Longitude:	-109.464570	NAD 27
OBJECTIVE ZONE(S)	Wasatch/Mesaverde				
ADDITIONAL INFO	Regulatory Agencies: BLM (Minerals), UDOGM (Surface), UDOGM Tri-County Health Dept.				





KERR-McGEE OIL & GAS ONSHORE LP
DRILLING PROGRAM

CASING PROGRAM

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS		
						BURST	COLLAPSE	TENSION
CONDUCTOR	14"	0-40'						
						3,390	1,880	348,000
SURFACE	8-5/8"	0 to 2,300	28.00	IJ-55	LTC	0.87	1.75	5.35
						7,780	6,350	278,000
PRODUCTION	4-1/2"	0 to 9,594	11.60	I-80	BTC	2.06	1.09	2.86

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

D.F. = 2.34

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 3,675 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 5,735 psi

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD	
SURFACE	LEAD	500'	Premium cmt + 2% CaCl	180	60%	15.80	1.15	
	Option 1		+ 0.25 pps flocele					
	TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt	270	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	1,800'	65/35 Poz + 6% Gel + 10 pps gilsonite	170	35%	11.00	3.82	
			+ 0.25 pps Flocele + 3% salt BWOW					
	TAIL	500'	Premium cmt + 2% CaCl	150	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	4,084'	Premium Lite II +0.25 pps	300	10%	11.00	3.38	
			celloflake + 5 pps gilsonite + 10% gel					
			+ 0.5% extender					
	TAIL	5,510'	50/50 Poz/G + 10% salt + 2% gel	1,060	10%	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.

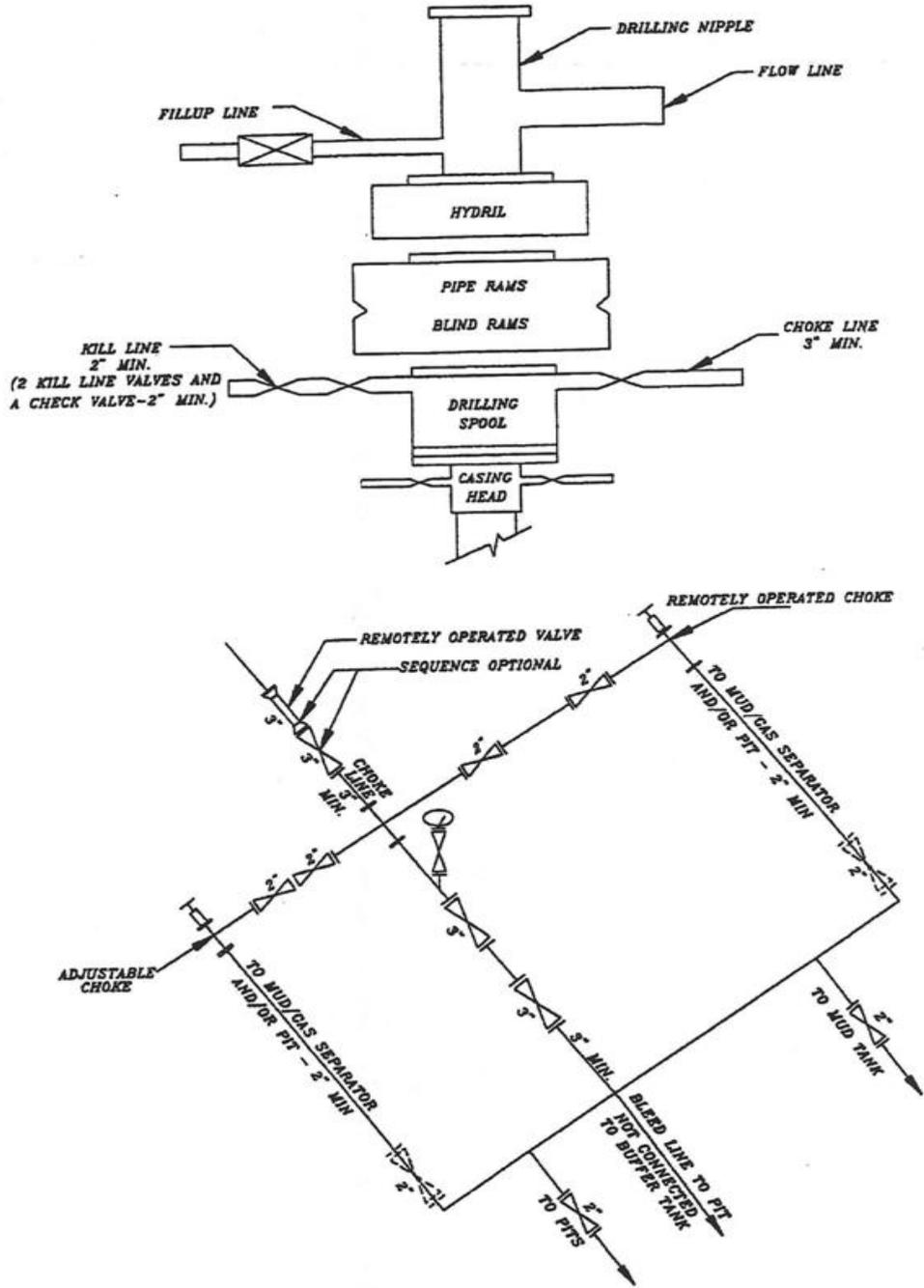
DRILLING ENGINEER: _____
John Huycke / Emile Goodwin

DATE: _____

DRILLING SUPERINTENDENT: _____
John Merkel / Lovel Young

DATE: _____

EXHIBIT A NBU 922-29N1BS

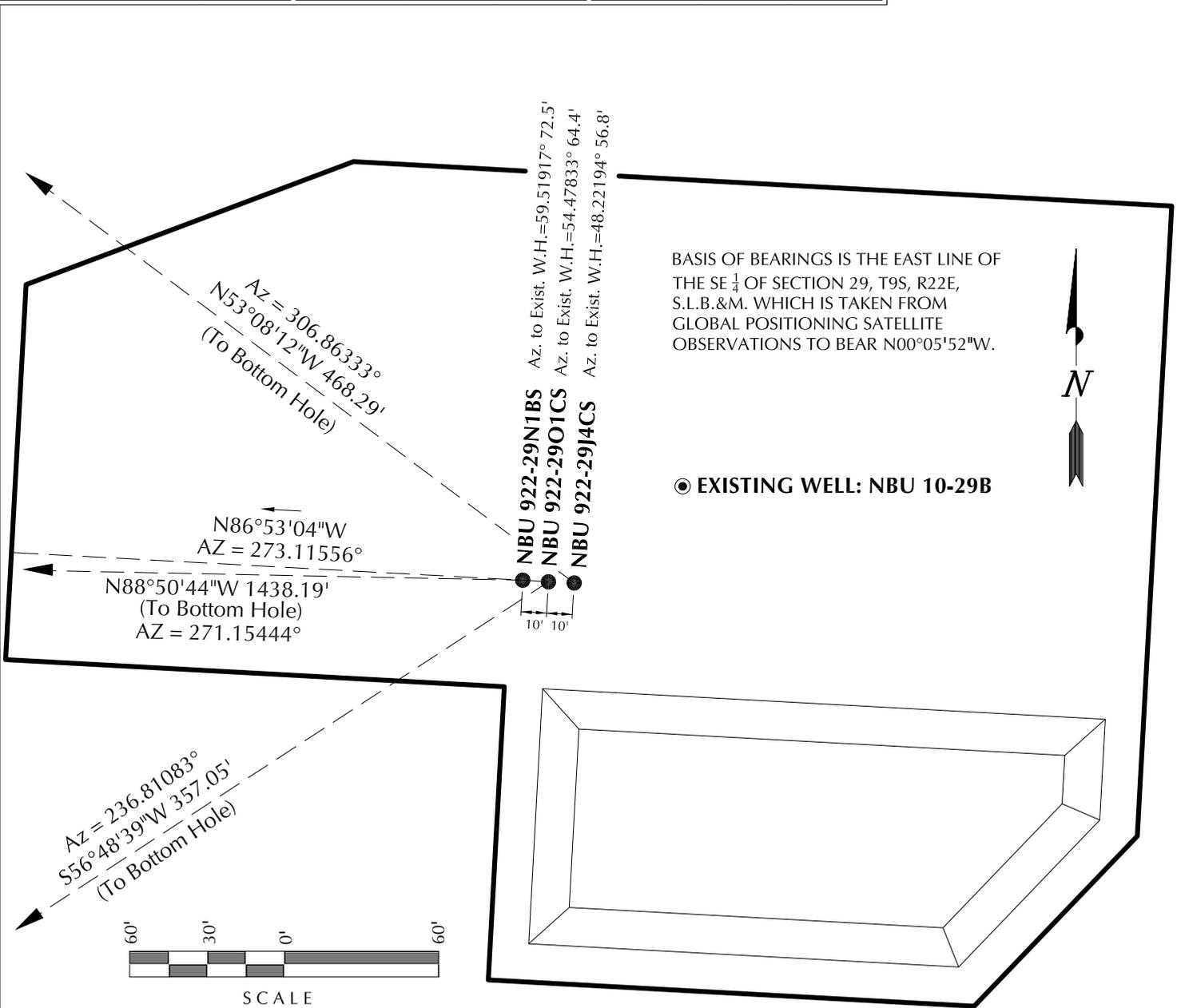


SCHEMATIC DIAGRAM OF 5,000 PSI BOP STACK

WELL NAME	SURFACE POSITION					BOTTOM HOLE				
	NAD83		NAD27		FOOTAGES	NAD83		NAD27		FOOTAGES
	LATITUDE	LONGITUDE	LATITUDE	LONGITUDE		LATITUDE	LONGITUDE	LATITUDE	LONGITUDE	
NBU 922-29N1BS	40°00'09.604" 40.002668°	109°27'36.445" 109.460123°	40°00'09.729" 40.002703°	109°27'33.980" 109.459439°	1050' FSL 1596' FEL	40°00'09.890" 40.002747°	109°27'54.917" 109.465255°	40°00'10.016" 40.002782°	109°27'52.452" 109.464570°	1080' FSL 2251' FWL
NBU 922-29O1CS	40°00'09.597" 40.002666°	109°27'36.316" 109.460088°	40°00'09.723" 40.002701°	109°27'33.851" 109.459403°	1049' FSL 1586' FEL	40°00'07.666" 40.002130°	109°27'40.154" 109.461154°	40°00'07.792" 40.002164°	109°27'37.690" 109.460469°	854' FSL 1885' FEL
NBU 922-29J4CS	40°00'09.593" 40.002665°	109°27'36.187" 109.460052°	40°00'09.718" 40.002700°	109°27'33.722" 109.459367°	1049' FSL 1576' FEL	40°00'12.368" 40.003436°	109°27'41.000" 109.461389°	40°00'12.494" 40.003471°	109°27'38.535" 109.460704°	1330' FSL 1950' FEL
NBU 10-29B	40°00'09.967" 40.002769°	109°27'35.642" 109.459901°	40°00'10.092" 40.002803°	109°27'33.178" 109.459216°	1087' FSL 1533' FEL					

RELATIVE COORDINATES - From Surface Position to Bottom Hole

WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST
NBU 922-29N1BS	29.0'	-1437.9'	NBU 922-29O1CS	-195.4'	-298.8'	NBU 922-29J4CS	280.9'	-374.7'



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

WELL PAD - NBU 922-29O1

WELL PAD INTERFERENCE PLAT
WELLS - NBU 922-29N1BS,
NBU 922-29O1CS & NBU 922-29J4CS
LOCATED IN SECTION 29, T9S, R22E,
S.L.B.&M., UTAH COUNTY, UTAH.



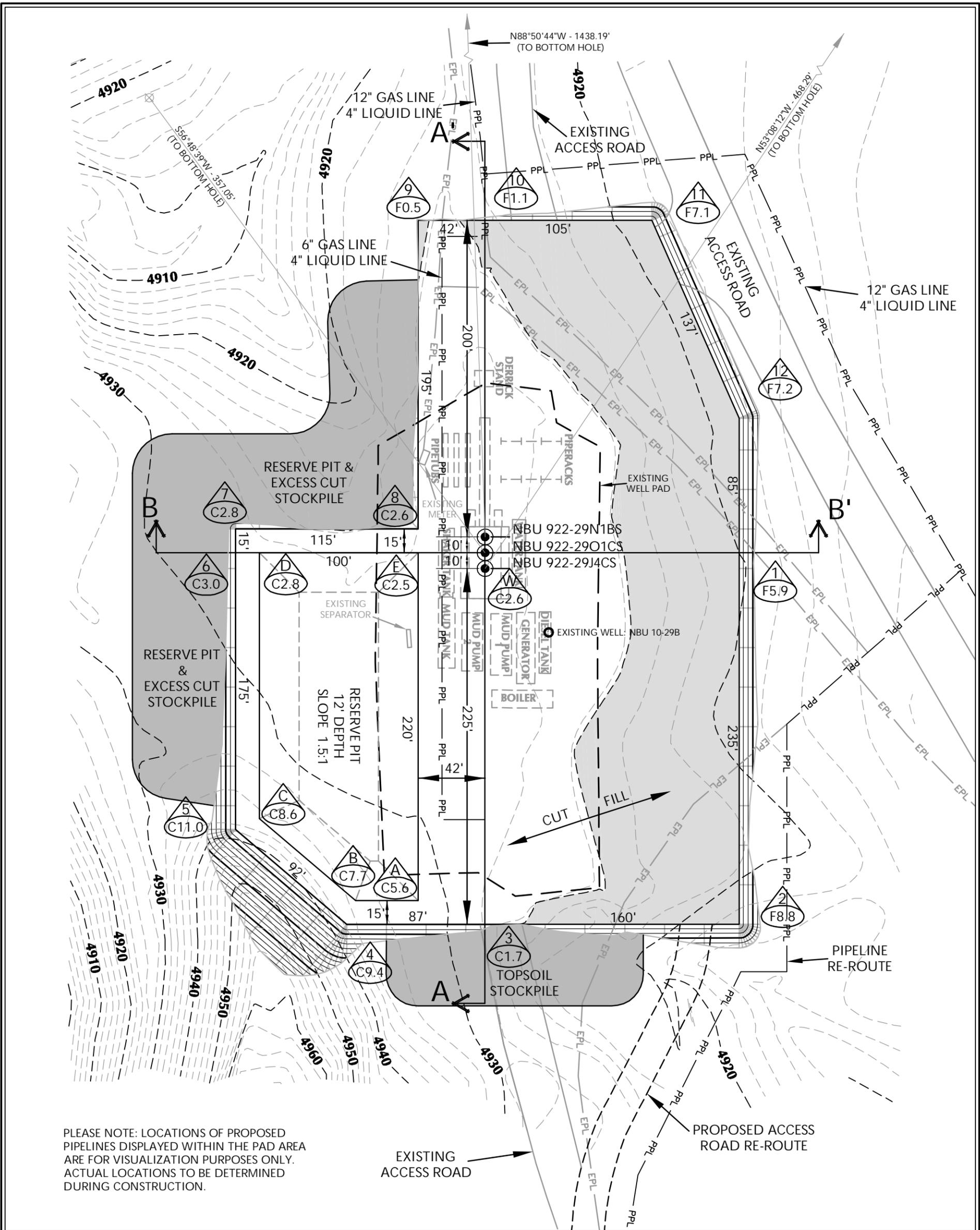
CONSULTING, LLC
 371 Coffeen Avenue
 Sheridan WY 82801
 Phone 307-674-0609
 Fax 307-674-0182

TIMBERLINE

(435) 789-1365

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

DATE SURVEYED: 03-16-10	SURVEYED BY: D.J.S.	SHEET NO: 4
DATE DRAWN: 03-18-10	DRAWN BY: K.H.G.	
SCALE: 1" = 60'		4 OF 15



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

WELL PAD - NBU 922-2901 DESIGN SUMMARY

EXISTING GRADE @ CENTER OF WELL PAD = 4928.4'
 FINISHED GRADE ELEVATION = 4925.8'
 CUT SLOPES = 1.5:1
 FILL SLOPES = 1.5:1
 TOTAL WELL PAD AREA = 2.92 ACRES
 TOTAL DAMAGE AREA = 5.70 ACRES
 SHRINKAGE FACTOR = 1.10
 SWELL FACTOR = 1.00

WELL PAD QUANTITIES
 TOTAL CUT FOR WELL PAD = 8,250 C.Y.
 TOTAL FILL FOR WELL PAD = 7,070 C.Y.
 TOPSOIL @ 6" DEPTH = 1,607 C.Y.
 EXCESS MATERIAL = 1,180 C.Y.

RESERVE PIT QUANTITIES
 TOTAL CUT FOR RESERVE PIT +/- 6,840 CY
 RESERVE PIT CAPACITY (2' OF FREEBOARD) +/- 25,920 BARRELS

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



WELL PAD - NBU 922-2901
 WELL PAD - LOCATION LAYOUT
 NBU 922-29N1BS,
 NBU 922-29O1CS & NBU 922-29J4CS
 LOCATED IN SECTION 29, T9S, R22E,
 S.L.B.&M., Uintah County, Utah

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
 (435) 789-1365

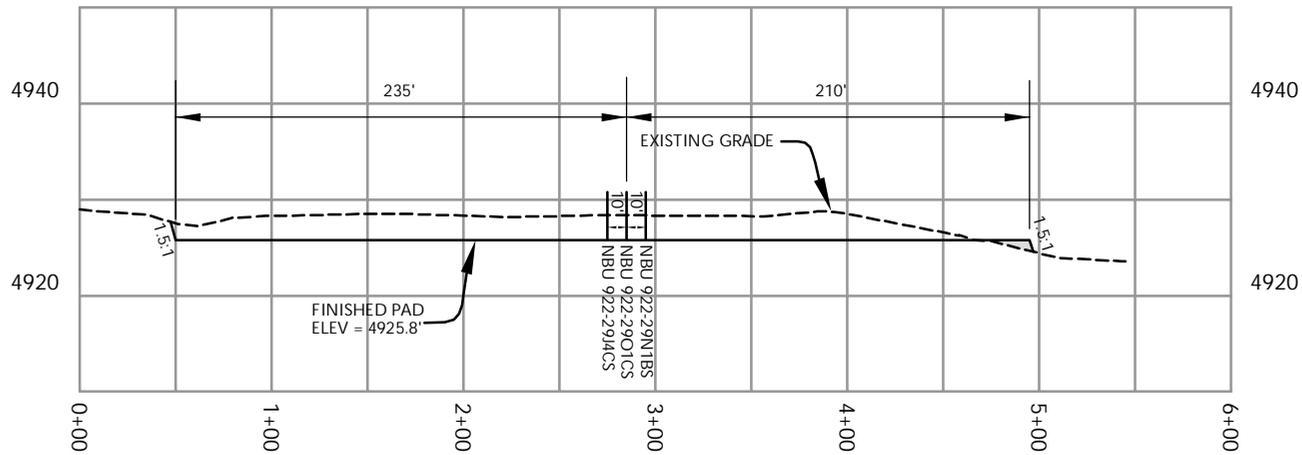
- WELL PAD LEGEND**
- EXISTING WELL LOCATION
 - PROPOSED WELL LOCATION
 - PROPOSED BOTTOM HOLE LOCATION
 - EXISTING CONTOURS (2' INTERVAL)
 - PROPOSED CONTOURS (2' INTERVAL)
 - PROPOSED PIPELINE
 - EXISTING PIPELINE



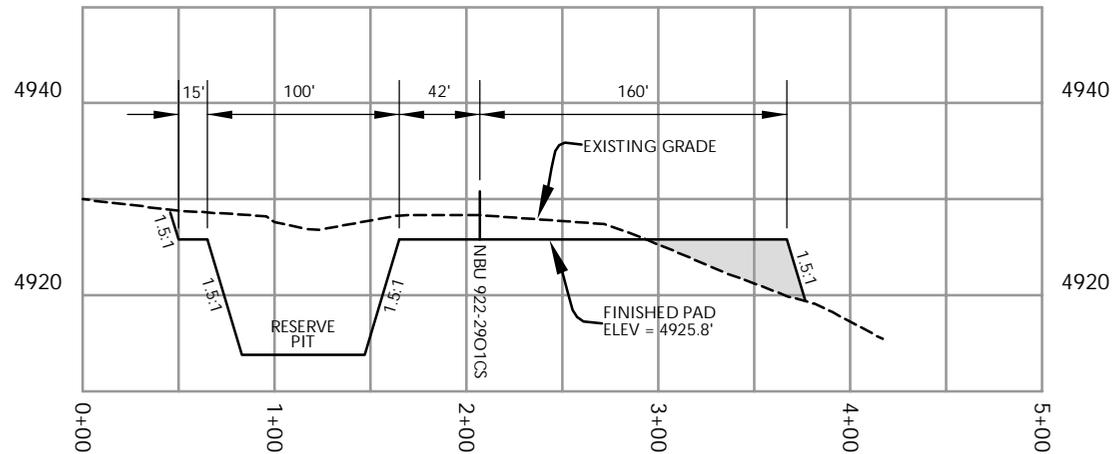
HORIZONTAL 0 30 60 1" = 60'
 2' CONTOURS

Scale: 1"=60' Date: 4/30/10 SHEET NO: 5 OF 15
 REVISED: TAR 9/3/10

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CROSS SECTION A-A'



CROSS SECTION B-B'

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

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WELL PAD - NBU 922-29O1

WELL PAD - CROSS SECTIONS
NBU 922-29N1BS,

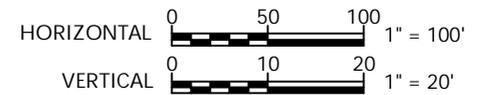
NBU 922-29O1CS & NBU 922-29J4CS
LOCATED IN SECTION 29, T9S, R22E,
S.L.B.&M., Uintah County, Utah



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Scale: 1"=100' Date: 4/30/10
REVISED: JFE 8/30/10

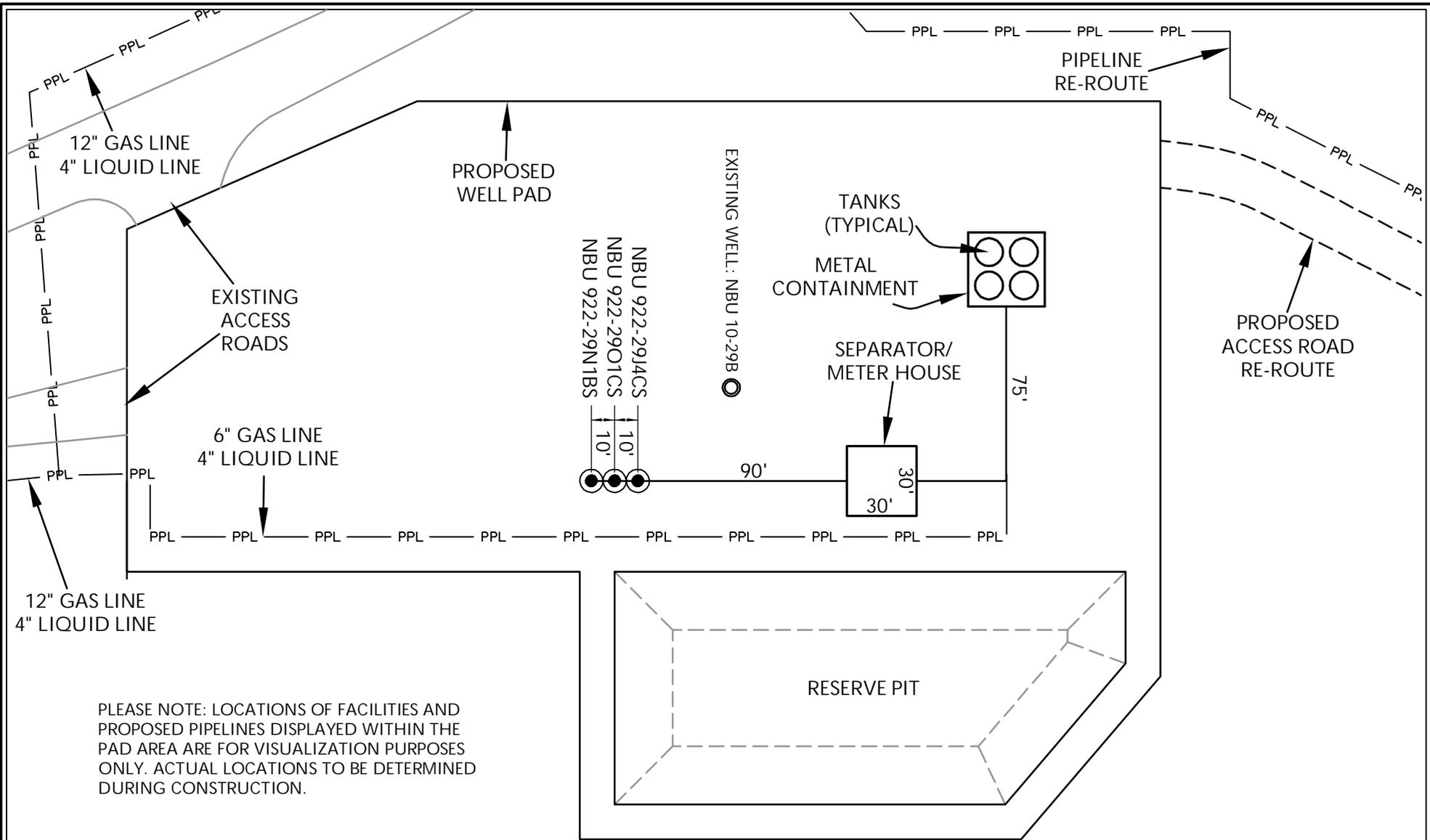
SHEET NO:

6

6 OF 15

API Well No: 43047512230000
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Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD - NBU 922-29O1

WELL PAD - FACILITIES DIAGRAM
NBU 922-29N1BS,
NBU 922-29O1CS & NBU 922-29J4CS
LOCATED IN SECTION 29, T9S, R22E,
S.L.B.&M., UINTAH COUNTY, UTAH



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WELL PAD LEGEND

-  EXISTING WELL LOCATION
-  PROPOSED WELL LOCATION
-  PPL — PROPOSED PIPELINE
-  EPL — EXISTING PIPELINE



HORIZONTAL 0 30' 60' 1" = 60'

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209 NORTH 300 WEST - VERNAL, UTAH 84078

Scale: 1"=60' Date: 4/30/10
REVISED: TAR 9/3/10

SHEET NO:
7
7 OF 15

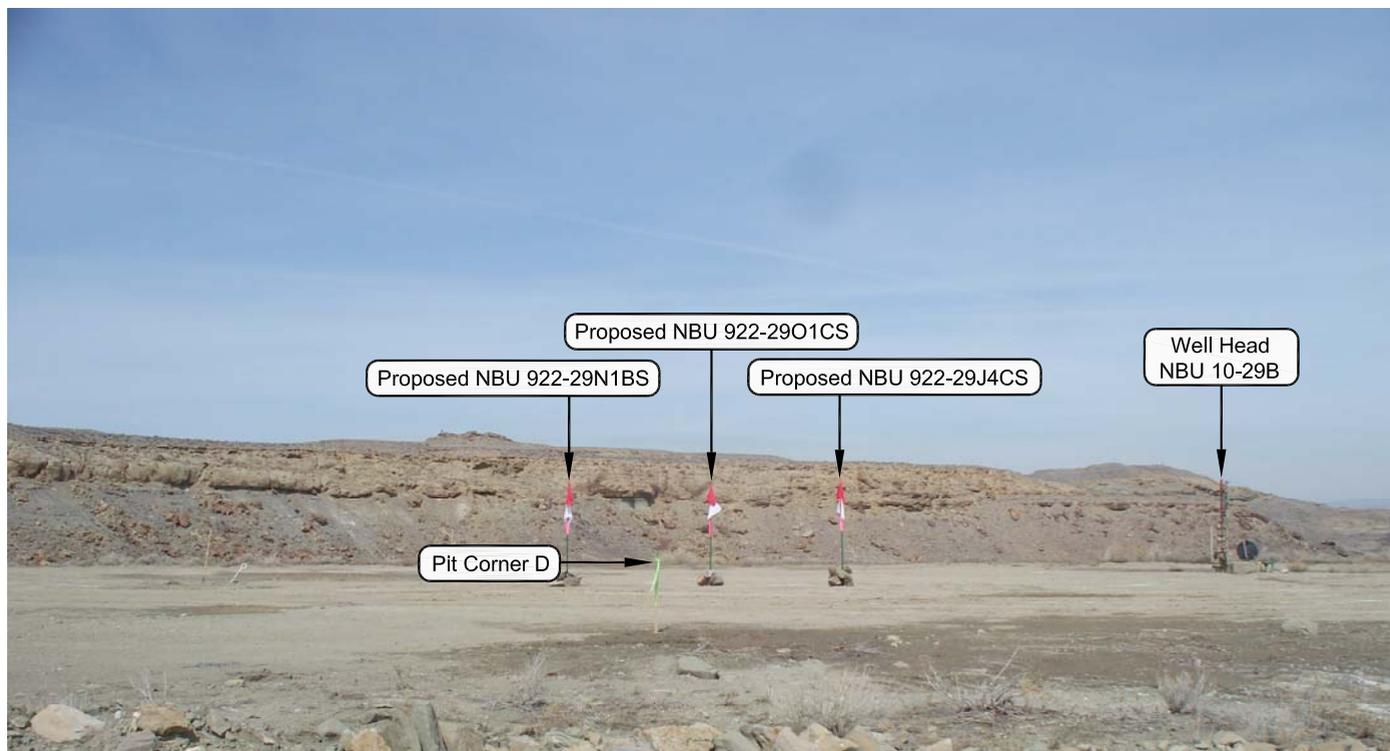


PHOTO VIEW: FROM PIT CORNER D TO LOCATION STAKE

CAMERA ANGLE: NORTHERLY



PHOTO VIEW: FROM EXISTING ACCESS ROAD

CAMERA ANGLE: EASTERLY

Kerr-McGee Oil & Gas Onshore, LP
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Well Pad - NBU 922-29O1

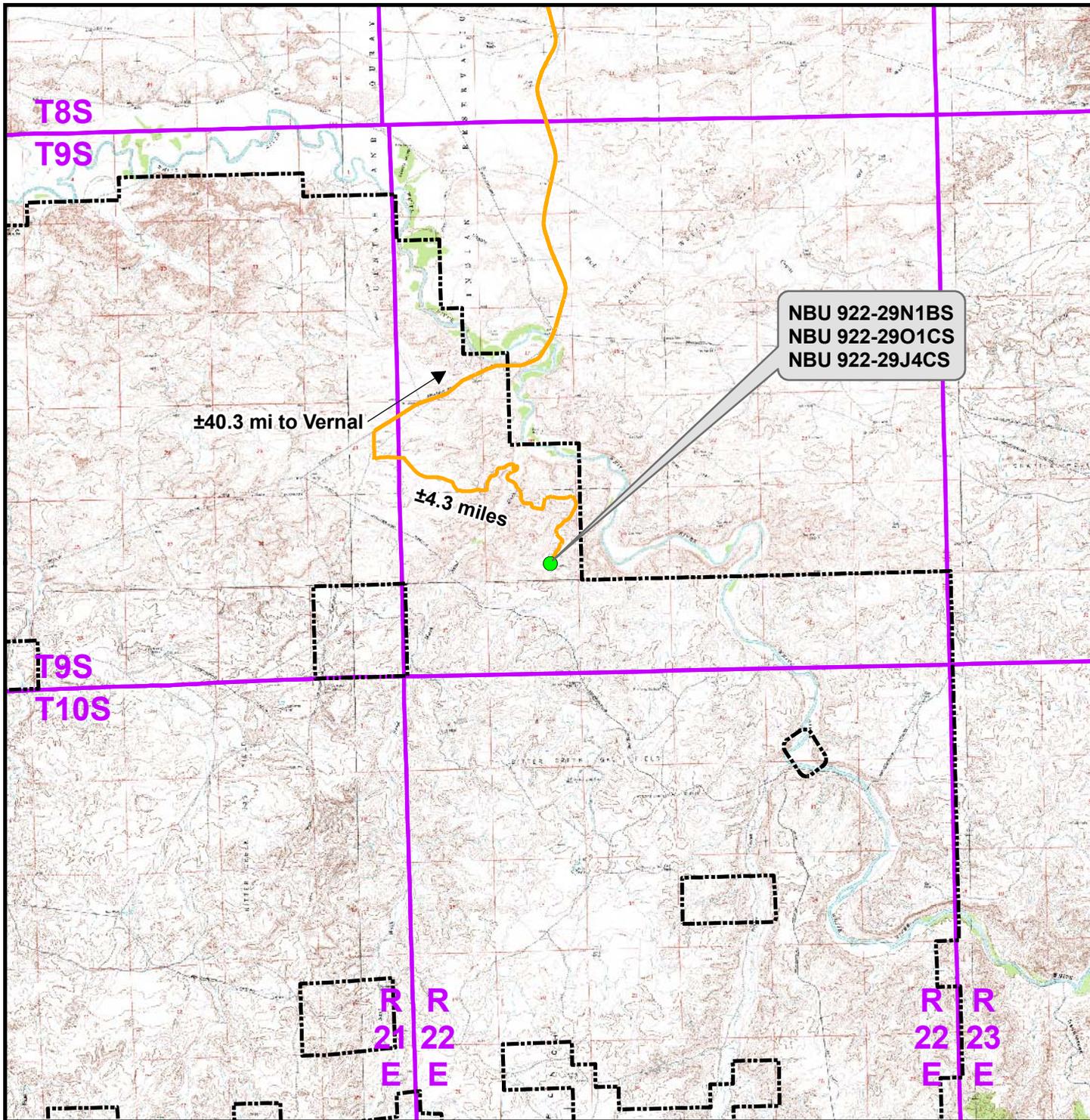
**NBU 922-29N1BS,
 NBU 922-29O1CS & NBU 922-29J4CS
 LOCATION PHOTOS
 LOCATED IN SECTION 29, T9S, R22E,
 S.L.B.&M., UINTAH COUNTY, UTAH.**



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

DATE PHOTOS TAKEN: 03-16-10	PHOTOS TAKEN BY: D.J.S.	SHEET NO: 8 8 OF 15
DATE DRAWN: 03-18-10	DRAWN BY: K.H.G.	
Date Last Revised: 06-04-10 K.O.B.		



Legend

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

Distance From Well Pad - NBU 922-29O1 To Unit Boundary: ±1,576ft

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

WELL PAD - NBU 922-29O1

TOPO A
NBU 922-29N1BS,
NBU 922-29O1CS & NBU 922-29J4CS
LOCATED IN SECTION 29, T9S, R22E
S.L.B.&M., UINTAH COUNTY, UTAH

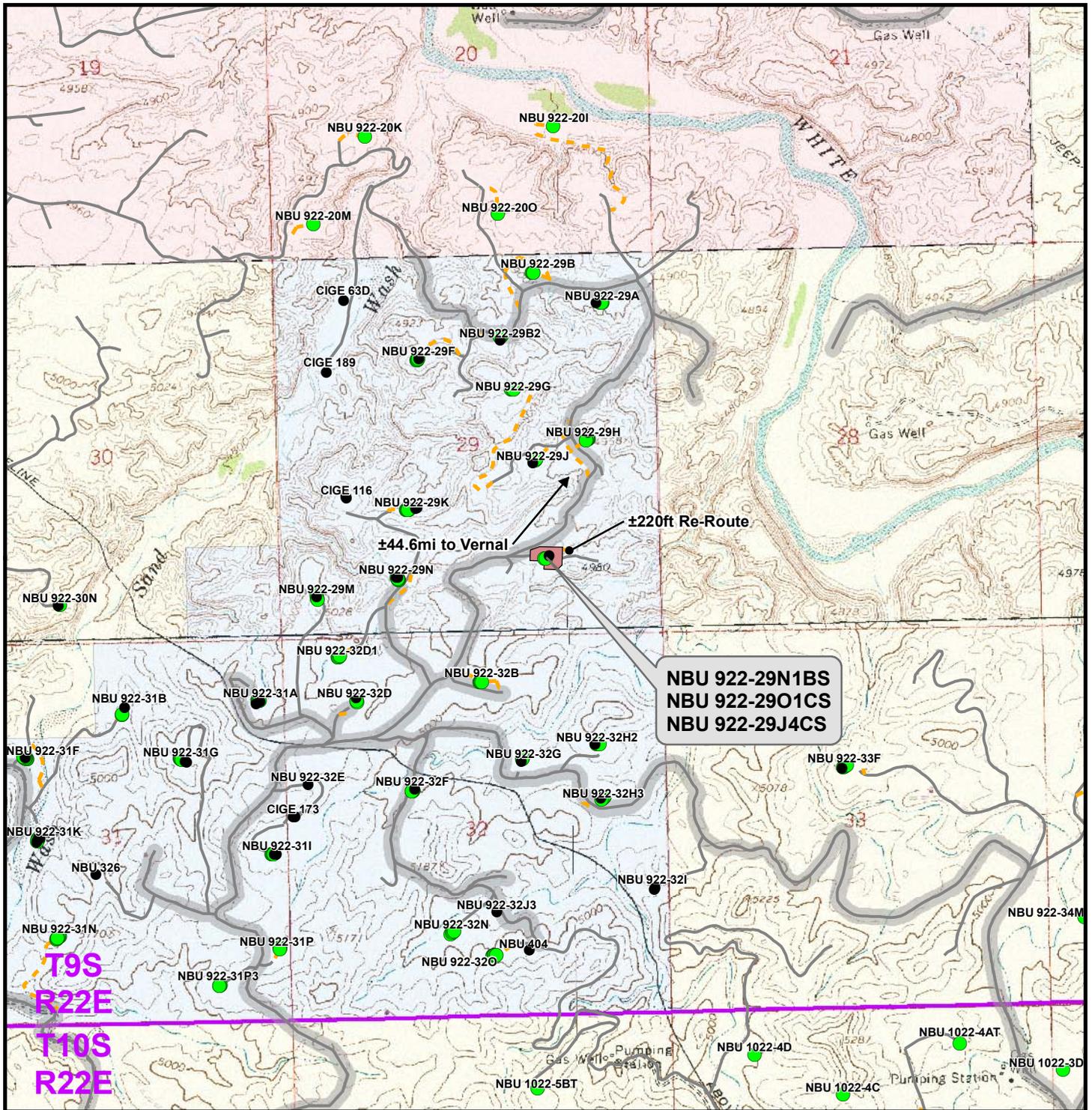


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 Fax (307) 674-0182



Scale: 1:100,000	NAD83 USP Central
Drawn: JELO	Date: 3 May 2010
Revised: CPS	Date: 9 July 2010

Sheet No:
9
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Legend

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

Total Proposed Road Re-Route Length: ±220ft

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

WELL PAD - NBU 922-29O1

TOPO B
NBU 922-29N1BS,
NBU 922-29O1CS & NBU 922-29J4CS
LOCATED IN SECTION 29, T9S, R22E
S.L.B.&M., UINTAH COUNTY, UTAH

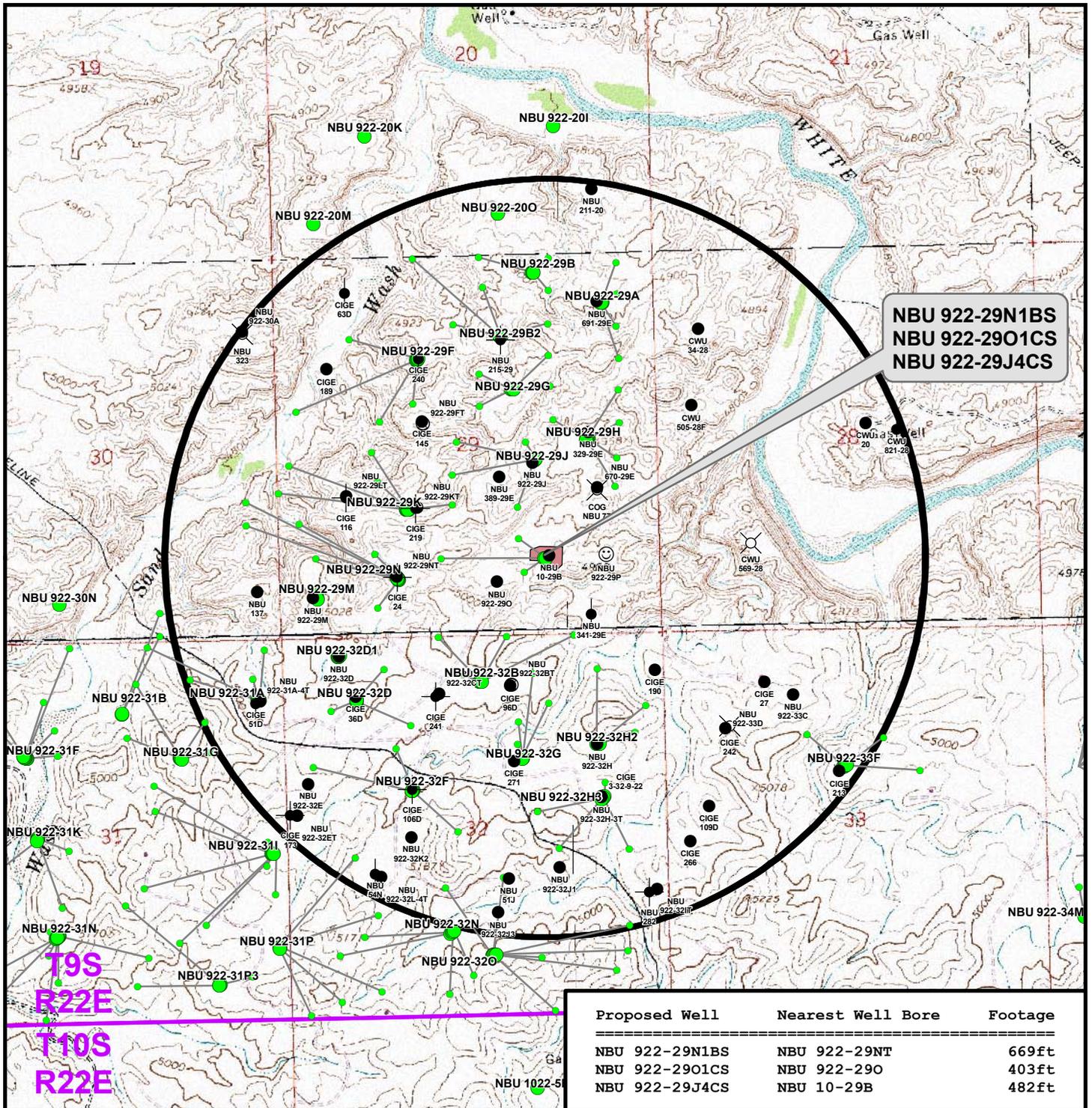


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Fax (307) 674-0182



Scale: 1" = 2,000ft | NAD83 USP Central
Drawn: JELo | Date: 3 May 2010
Revised: CPS | Date: 31 Aug 2010

Sheet No:
10 10 of 15



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

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WELL PAD - NBU 922-29O1

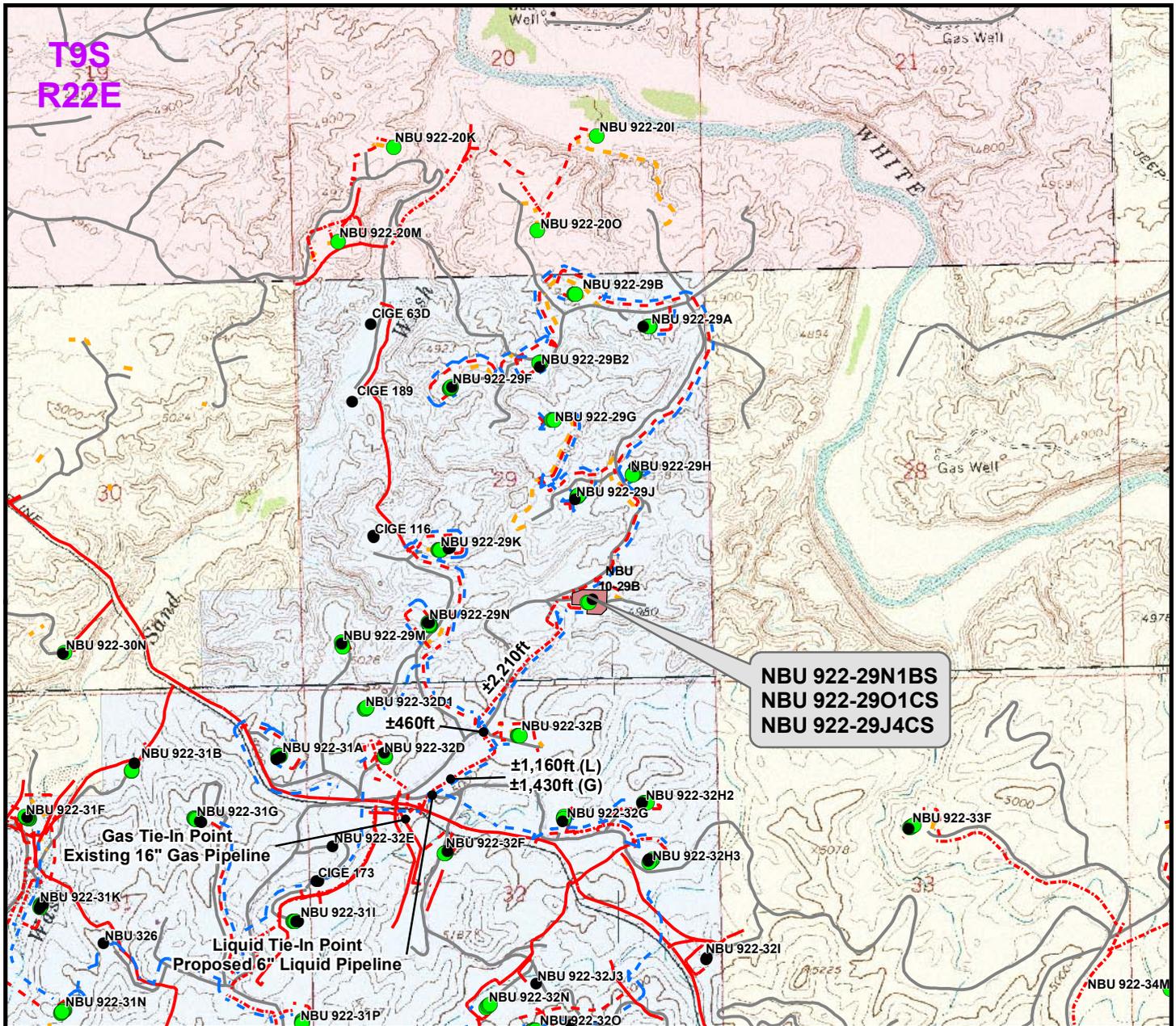
TOPO C
NBU 922-29N1BS,
NBU 922-29O1CS & NBU 922-29J4CS
LOCATED IN SECTION 29, T9S, R22E
S.L.B.&M., UINTAH COUNTY, UTAH

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Drawn: JELo | Date: 3 May 2010
Revised: CPS | Date: 31 Aug 2010

Sheet No:
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**NBU 922-29N1BS
NBU 922-29O1CS
NBU 922-29J4CS**

Proposed Liquid Pipeline	Length
Proposed 4" (Meter House to Edge of Pad)	±490ft
Proposed 4" (Edge of Pad to 29N Intersection)	±2,210ft
Proposed 6" (29N Intersection to Tie-In Point)	±1,620ft
TOTAL PROPOSED LIQUID PIPELINE =	±4,320ft

Proposed Gas Pipeline	Length
Proposed 6" (Meter House to Edge of Pad)	±490ft
Proposed 6" (Edge of Pad to 29H Intersection)	±30ft
Proposed 12" (29H Intersection to 29N Intersection)	±2,180ft
Proposed 16" (29N Intersection to Existing 16" Pipeline)	±1,890ft
TOTAL PROPOSED GAS PIPELINE =	±4,590ft

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

Kerr-McGee Oil & Gas Onshore, LP
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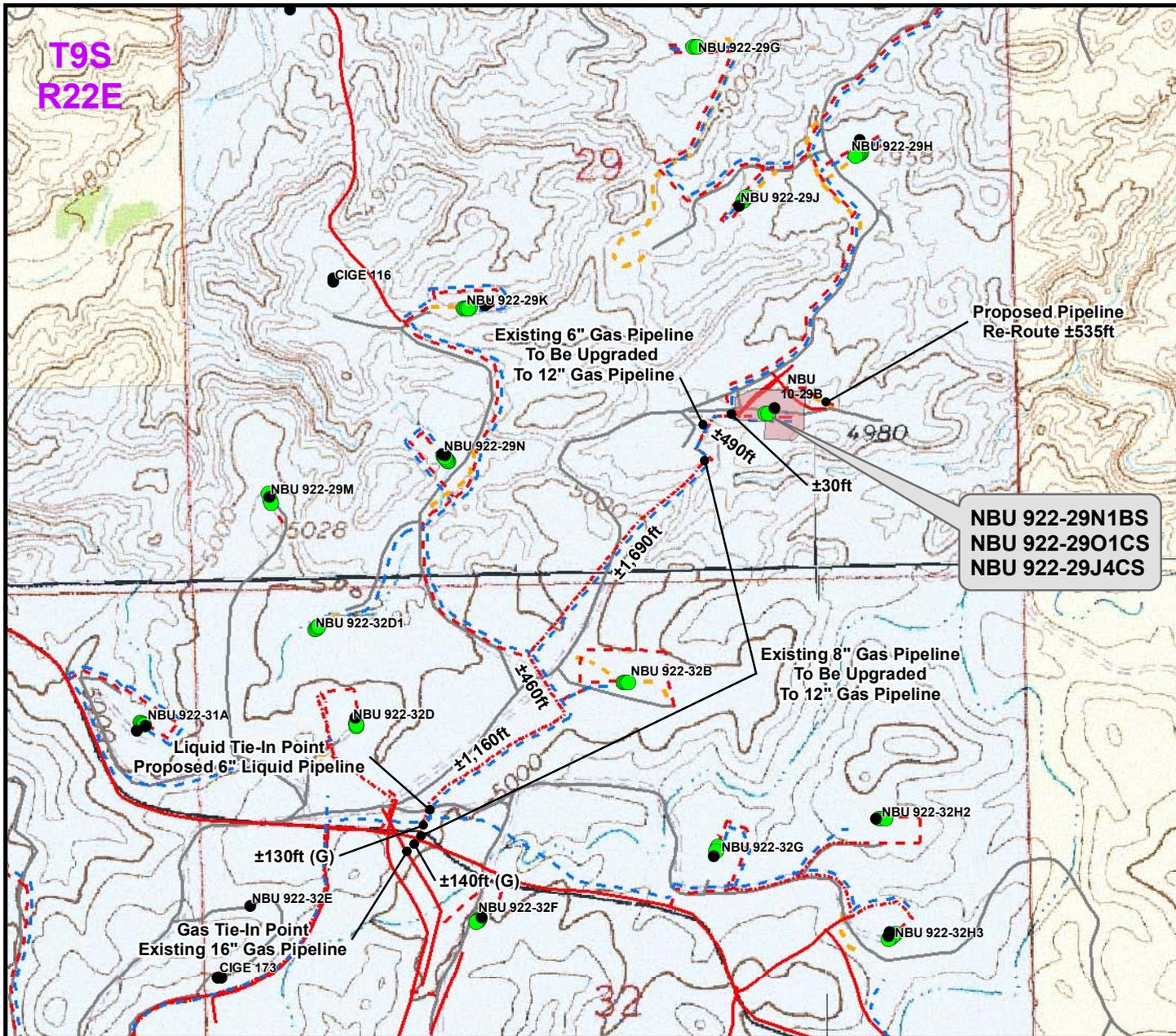
WELL PAD - NBU 922-29O1

TOPO D
NBU 922-29N1BS,
NBU 922-29O1CS & NBU 922-29J4CS
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: JELo	Date: 3 May 2010	12 12 of 15
Revised: CPS	Date: 31 Aug 2010	



Proposed Liquid Pipeline	Length
Proposed 4" (Meter House to Edge of Pad)	±490ft
Proposed 4" (Edge of Pad to 29N Intersection)	±2,210ft
Proposed 6" (29N Intersection to Tie-In Point)	±1,620ft
TOTAL PROPOSED LIQUID PIPELINE =	±4,320ft

Proposed Gas Pipeline	Length
Proposed 6" (Meter House to Edge of Pad)	±490ft
Proposed 6" (Edge of Pad to 29H Intersection)	±30ft
Proposed 12" (29H Intersection to 29N Intersection)	±2,180ft
Proposed 16" (29N Intersection to Existing 16" Pipeline)	±1,890ft
TOTAL PROPOSED GAS PIPELINE =	±4,590ft

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 922-29O1

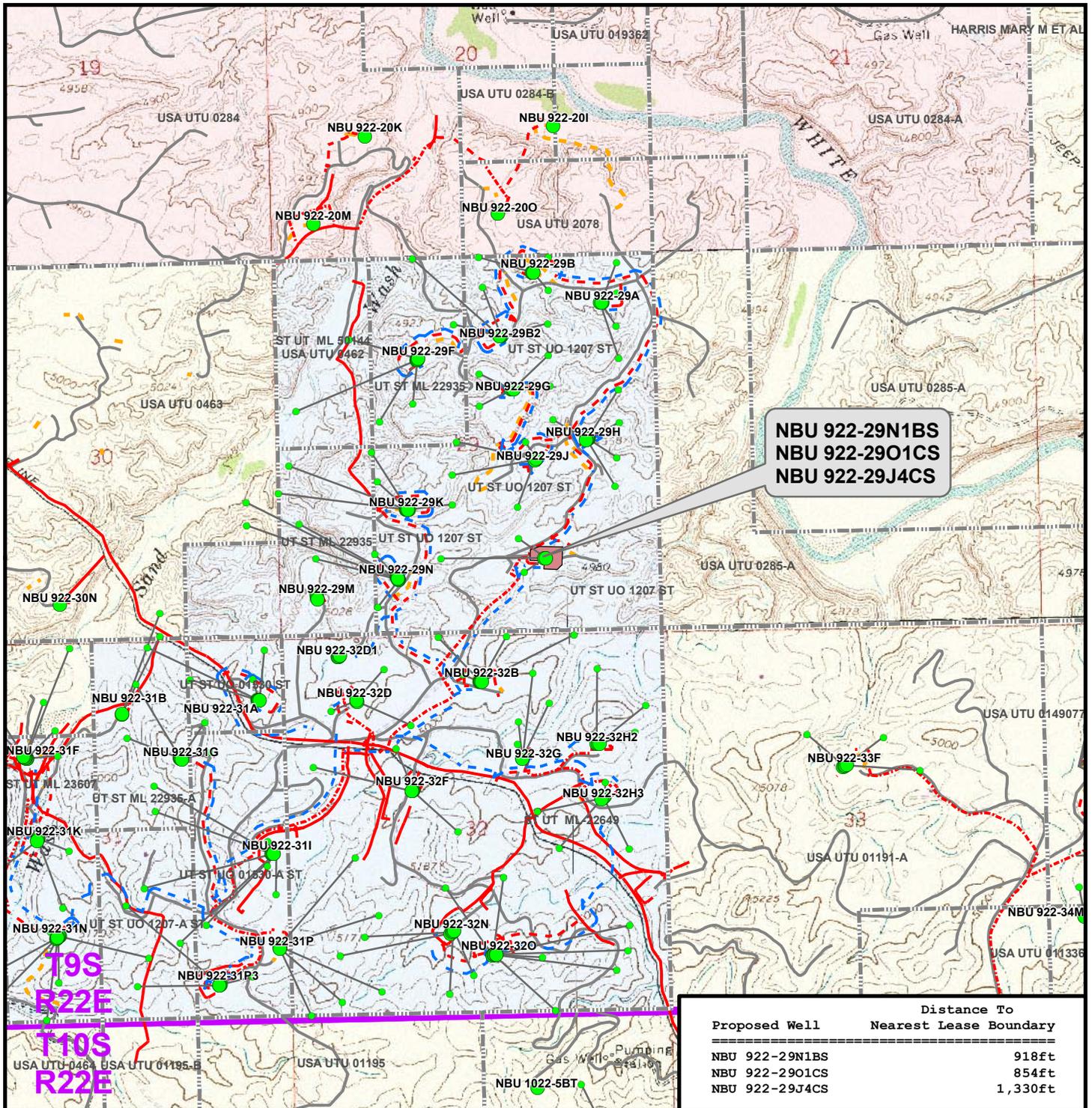
TOPO D2 (PAD & PIPELINE DETAIL)
 NBU 922-29N1BS,
 NBU 922-29O1CS & NBU 922-29J4CS
 LOCATED IN SECTION 29, T9S, R22E
 S.L.B.&M., UINTAH COUNTY, UTAH

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Scale: 1" = 1,000ft	NAD83 USP Central	Sheet No:
Drawn: JELo	Date: 3 May 2010	13
Revised: CPS	Date: 31 May 2010	

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**NBU 922-29N1BS
NBU 922-29O1CS
NBU 922-29J4CS**

Proposed Well	Distance To Nearest Lease Boundary
NBU 922-29N1BS	918ft
NBU 922-29O1CS	854ft
NBU 922-29J4CS	1,330ft

Legend

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

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

WELL PAD - NBU 922-2901

TOPO E
NBU 922-29N1BS,
NBU 922-29O1CS & NBU 922-29J4CS
LOCATED IN SECTION 29, T9S, R22E
S.L.B.&M., UINTAH COUNTY, UTAH

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Sheridan, WY 82801
Phone (307) 674-0609
Fax (307) 674-0182



Scale: 1" = 2,000ft	NAD83 USP Central	Sheet No:
Drawn: JELo	Date: 3 May 2010	14 14 of 15
Revised: CPS	Date: 31 Aug 2010	

Kerr-McGee Oil & Gas Onshore, LP
WELL PAD – NBU 922-2901
WELLS – NBU 922-29N1BS, NBU 922-29O1CS &
NBU 922-29J4CS
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 16.8 miles to a service road to the south. Exit left and proceed in a southerly then easterly then southerly direction along service road approximately 4.3 miles to the proposed well pad.

Total distance from Vernal, Utah to the proposed well location is approximately 44.6 miles in a southerly direction.

NBU 922-29J4CS

Surface: 1,049' FSL 1,576' FEL (SW/4SE/4)
BHL: 1,330' FSL 1,950' FEL (NW/4SE/4)

NBU 922-29N1BS

Surface: 1,050' FSL 1,596' FEL (SW/4SE/4)
BHL: 1,080' FSL 2,251' FWL (SE/4SW/4)

NBU 922-29O1CS

Surface: 1,049' FSL 1,586' FEL (SW/4SE/4)
BHL: 854' FSL 1,885' FEL (SW/4SE/4)

Mineral Lease: UO 1207 ST
Pad: NBU 922-29O1
Section 29 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 $\pm 220'$ (0.04 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 NBU 10-29B, which is a producing vertical well according to Utah Division of Oil, Gas and Mining (UDOGM) records as of July 30, 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 $\pm 4,890'$ and the individual segments are broken up as follows:

$\pm 570'$ (0.1 miles) –New 6" buried gas pipeline from the meter to the NBU 922-29H pad intersection..

$\pm 230'$ (0.04 miles) –New 12" buried gas pipeline from the NBU 922-29H pad intersection to the edge of the pad.

$\pm 2,210'$ (0.4 miles) –New 12" buried gas pipeline from edge of the pad to the NBU 922-29N pad intersection.

±1,880' (0.4 miles) –New 16" buried gas pipeline from the NBU 922-29N pad intersection to the existing 16" pipeline.

The total liquid gathering pipeline (Flexsteel) distance from the meter to the tie in point is ±4,630' and the individual segments are broken up as follows:

±570' (0.1 miles) –New 4" buried liquid pipeline from the meter to the NBU 922-29H intersection. .

±230' (0.04 miles) –New 4" buried liquid pipeline from the NBU 922-29H pad intersection to the edge of the pad. .

±2,210' (0.4 miles) –New 4" buried liquid pipeline from the edge of the pad to the NBU 922-29N pad intersection.

±1,620' (0.3 miles) –New 6" buried liquid pipeline from the NBU 922-29N pad intersection to the 6" liquid line tie in point.

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/Mineral Ownership:

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-260:

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

Danielle Piernot
Regulatory Analyst I
Kerr-McGee Oil & Gas Onshore LP
PO Box 173779
Dener, 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

'APIWellNo:43047512230000'

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 #260

Report Date: July 26, 2010

Operator: Kerr-McGee Oil & Gas Onshore LP

Well: NBU 922-29O1 well pad (Bores: NBU 922-29J4CS, NBU 922-29N1BS, NBU 922-29O1CS)

Pipeline: Associated pipeline leading to proposed well pad

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 19 and July 13, 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 922-29N1BS
T9S R22E
Section 29: SWSE (Surface) / SESW (Bottom Hole)
Surface Footages: 1050' FSL, 1596' FEL
Bottom Hole Footages: 1080' FSL, 2251' 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 922-29N1BS 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

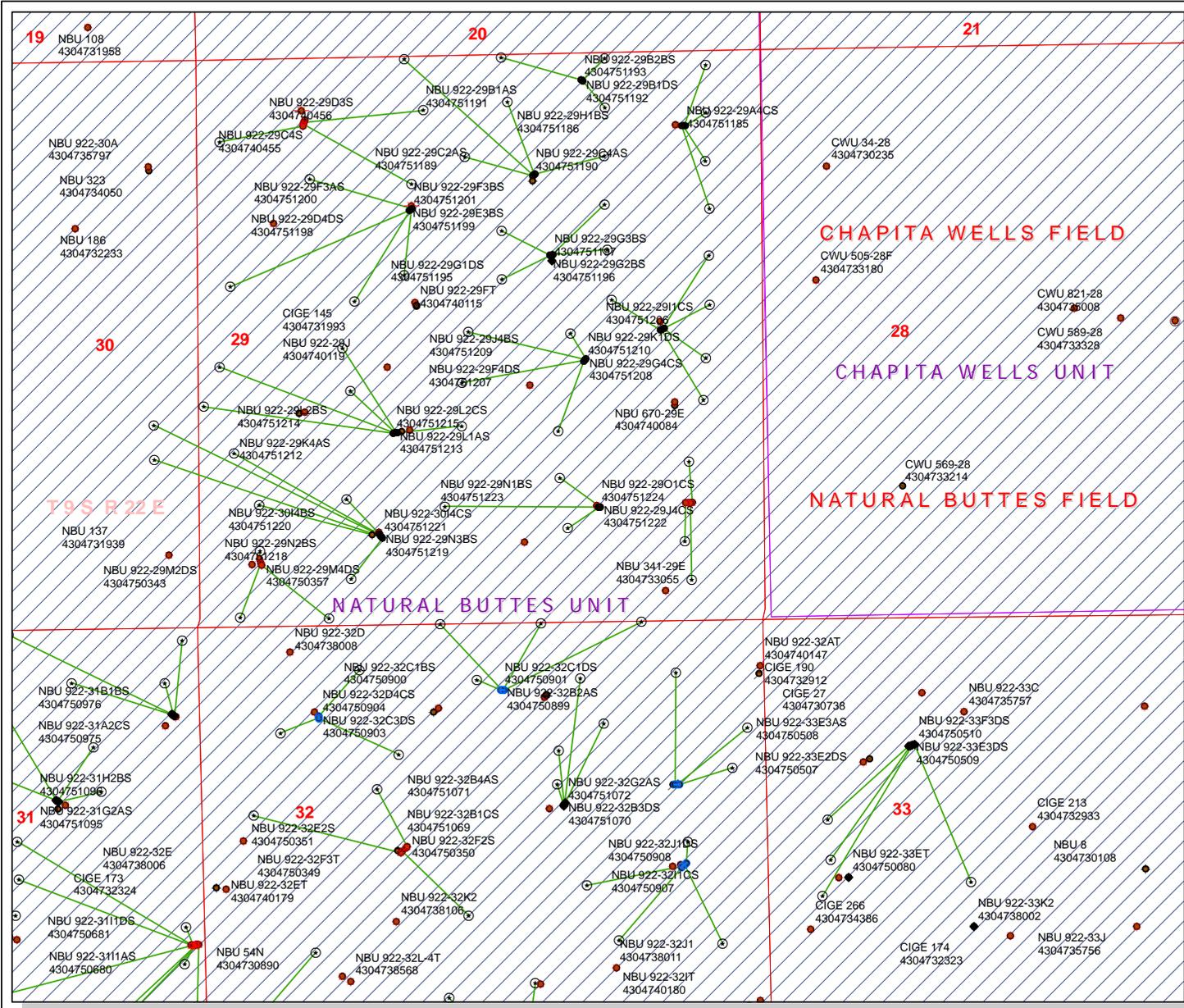
Therefore, based on the above stated information Kerr-McGee Oil & Gas Onshore LP requests the permit be granted pursuant to R649-3-11.

Sincerely,

KERR-MCGEE OIL & GAS ONSHORE LP

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

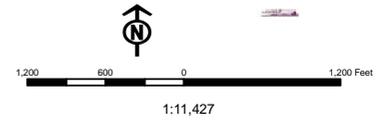
Anna C. Cavaleri
Landman



API Number: 4304751223
Well Name: NBU 922-29N1BS
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	Status
ACTIVE	APD - Approved Permit
EXPLORATORY	DRL - Spudded (Drilling Commenced)
GAS STORAGE	GIW - Gas Injection
NF PP OIL	GS - Gas Storage
NF SECONDARY	LA - Location Abandoned
PI OIL	LOC - New Location
PP GAS	OPS - Operation Suspended
PP GEOTHERMAL	PA - Plugged Abandoned
PP OIL	PGW - Producing Gas Well
SECONDARY	POW - Producing Oil Well
TERMINATED	RET - Returned APD
Fields	SGW - Shut-in Gas Well
Sections	SOW - Shut-in Oil Well
Township	TA - Temp. Abandoned
Bottom Hole Location - AGRC	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

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

Well Name	KERR-MCGEE OIL & GAS ONSHORE, L.P. NBU 922-29N1BS 4304751223			
String	Surf	Prod		
Casing Size(")	8.625	4.500		
Setting Depth (TVD)	2300	9361		
Previous Shoe Setting Depth (TVD)	40	2300		
Max Mud Weight (ppg)	8.3	12.0		
BOPE Proposed (psi)	500	5000		
Casing Internal Yield (psi)	3390	7780		
Operators Max Anticipated Pressure (psi)	5735	11.8		

Calculations	Surf String	8.625	"
Max BHP (psi)	.052*Setting Depth*MW=	996	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	720	NO <input type="text" value="air drill"/>
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	490	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)=	499	NO <input type="text" value="Reasonable depth in area"/>
Required Casing/BOPE Test Pressure=		2300	psi
*Max Pressure Allowed @ Previous Casing Shoe=		40	psi *Assumes 1psi/ft frac gradient

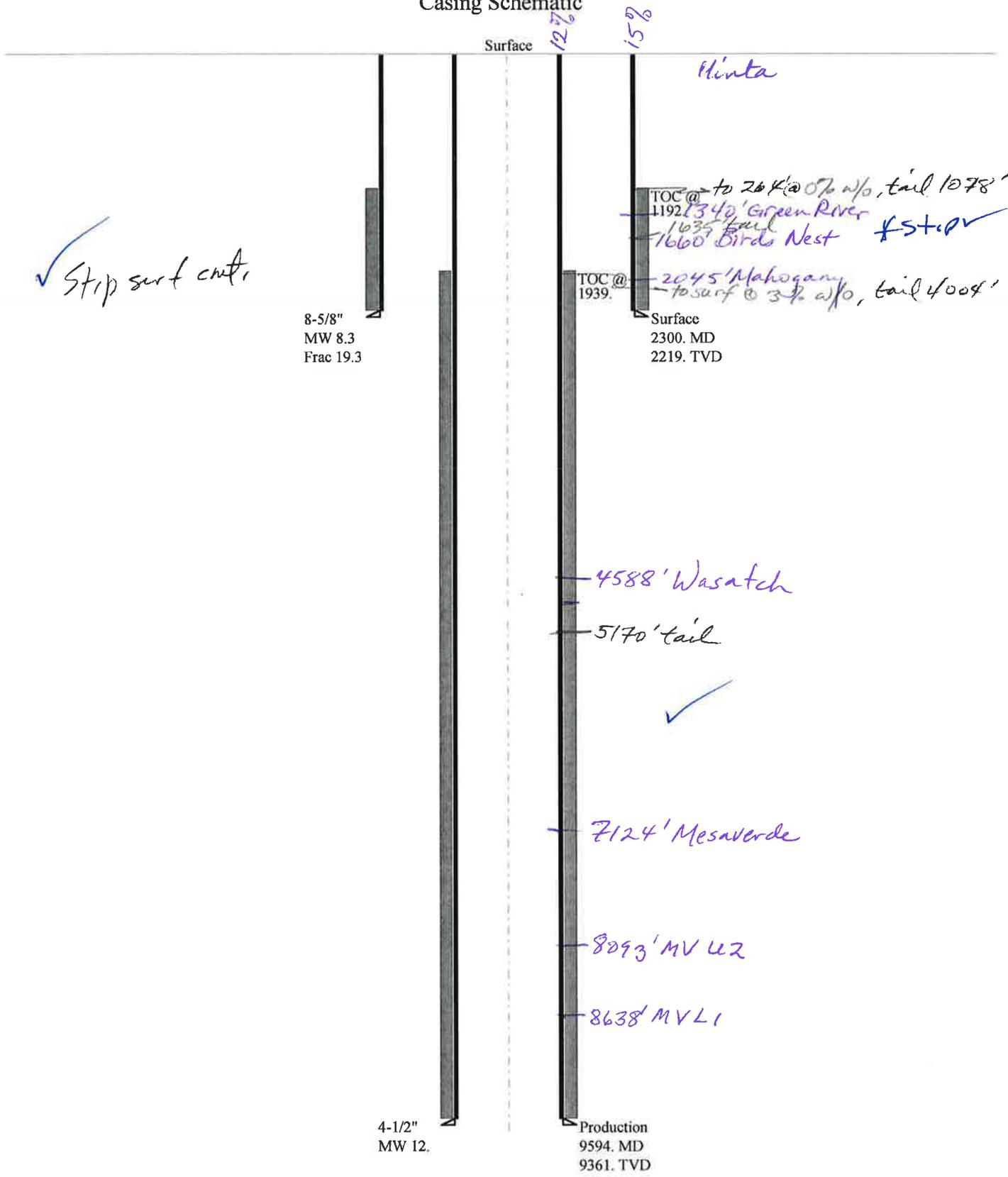
Calculations	Prod String	4.500	"
Max BHP (psi)	.052*Setting Depth*MW=	5841	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	4718	YES <input type="text"/>
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	3782	YES <input type="text" value="OK"/>
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	4288	NO <input type="text" value="Reasonable"/>
Required Casing/BOPE Test Pressure=		5000	psi
*Max Pressure Allowed @ Previous Casing Shoe=		2300	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

43047512230000 NBU 922-29N1BS

Casing Schematic



Well name:	43047512230000 NBU 922-29N1BS		
Operator:	KERR-MCGEE OIL & GAS ONSHORE, L.P.		
String type:	Surface	Project ID:	43-047-51223
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: 1,192 ft

Burst

Max anticipated surface pressure: 2,024 psi
Internal gradient: 0.120 psi/ft
Calculated BHP 2,290 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: 2,010 ft

Directional Info - Build & Drop

Kick-off point 300 ft
Departure at shoe: 515 ft
Maximum dogleg: 2 °/100ft
Inclination at shoe: 20 °

Re subsequent strings:

Next setting depth: 9,361 ft
Next mud weight: 12,000 ppg
Next setting BHP: 5,835 psi
Fracture mud wt: 19,250 ppg
Fracture depth: 2,300 ft
Injection pressure: 2,300 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	2300	8.625	28.00	I-55	LT&C	2219	2300	7.892	91076
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	960	1880	1.958	2290	3390	1.48	62.1	348	5.60 J

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

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

Date: September 15, 2010
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 2219 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:	43047512230000 NBU 922-29N1BS		
Operator:	KERR-MCGEE OIL & GAS ONSHORE, L.P.		
String type:	Production	Project ID:	43-047-51223
Location:	UINTAH	COUNTY	

Design parameters:

Collapse

Mud weight: 12.000 ppg
 Internal fluid density: 1.000 ppg

Burst

Max anticipated surface pressure: 3,776 psi
 Internal gradient: 0.220 psi/ft
 Calculated BHP: 5,835 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: 7,915 ft

Environment:

H2S considered? No
 Surface temperature: 74 °F
 Bottom hole temperature: 205 °F
 Temperature gradient: 1.40 °F/100ft
 Minimum section length: 100 ft

Cement top: 1,939 ft

Directional Info - Build & Drop

Kick-off point: 300 ft
 Departure at shoe: 1438 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	9594	4.5	11.60	I-80	LT&C	9361	9594	3.875	126641
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	5349	6360	1.189	5835	7780	1.33	108.6	212	1.95 J

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

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

Date: September 15, 2010
 Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 9361 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 922-29N1BS
API Number 43047512230000 **APD No** 2888 **Field/Unit** NATURAL BUTTES
Location: 1/4,1/4 SWSE **Sec** 29 **Tw** 9.0S **Rng** 22.0E 1050 FSL 1596 FEL
GPS Coord (UTM) 631512 4428982 **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 36 air miles and 44.6 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 922-29O1 pad will be created by significantly enlarging the existing pad of the NBU 16-298 gas well. It will be enlarged primarily to the north and west. Three gas wells, to be directionally drilled, will be added. They are the NBU 922-29N1BS, 922-29O1CS & 922-29J4CS. The pad is located in a small flat area which continues to the south in rolling topography except for a draw which will be missed between Corners 7 and 8. The constructed pad will be tapered between Corners 10 and 11 to miss the existing road. To the north the topography is rolling to gentle. No drainage diversions are required. The reserve pit will be angled between Corners B and A to avoid a steep knob or rise. The White River is approximately 1 mile down drainage. The selected site 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 are owned by SITLA.

Surface Use Plan

Current Surface Use
 Grazing
 Wildlife Habitat
 Existing Well Pad

New Road Miles	Well Pad	Src Const Material	Surface Formation
0	Width 317 Length 425	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, rabbit brush 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 N

Site Stability Issues N

Drainage Diverson Required? N

Berm Required? N

Erosion Sedimentation Control Required? N

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

Reserve Pit

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

Characteristics / Requirements

The proposed reserve pit is 100' x 220' x 12' deep located in a cut on the southeast corner of the location. The length on the south at Corner B will be shortened 40 feet and angled to Corner A to reduce the sideslope cut in that area. 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

8/25/2010

Evaluator

Date / Time

Application for Permit to Drill Statement of Basis

9/27/2010

Utah Division of Oil, Gas and Mining

Page 1

APD No	API WellNo	Status	Well Type	Surf Owner	CBM
2888	43047512230000	LOCKED	GW	S	No
Operator	KERR-MCGEE OIL & GAS ONSHORE, L.P.		Surface Owner-APD		
Well Name	NBU 922-29N1BS		Unit	NATURAL BUTTES	
Field	NATURAL BUTTES		Type of Work	DRILL	
Location	SWSE 29 9S 22E S 1050 FSL 1596 FEL		GPS Coord (UTM)	631509E	4428983N

Geologic Statement of Basis

Kerr McGee proposes to set 2,300' 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 2,900'. 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 36 air miles and 44.6 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 922-29O1 pad will be created by significantly enlarging the existing pad of the NBU 16-298 gas well. It will be enlarged primarily to the north and west. Three gas wells, to be directionally drilled, will be added. They are the NBU 922-29N1BS, 922-29O1CS & 922-29J4CS. The pad is located in a small flat area which continues to the south in rolling topography except for a draw which will be missed between Corners 7 and 8. The constructed pad will be tapered between Corners 10 and 11 to miss the existing road. To the north the topography is rolling to gentle. No drainage diversions are required. The reserve pit will be angled between Corners B and A to avoid a steep knob or rise. The White River is approximately 1 mile down drainage. The selected site 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 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.

Ben Williams and Alex Hansen represented the Utah Division of Wildlife Resources. Mr. Williams stated the area is classified as crucial yearlong antelope habitat but recommended no restrictions for this species. No other wildlife will be significantly affected.

Application for Permit to Drill Statement of Basis

9/27/2010

Utah Division of Oil, Gas and Mining

Page 2

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	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: 43047512230000

WELL NAME: NBU 922-29N1BS

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

PHONE NUMBER: 720 929-6156

CONTACT: Danielle Piernot

PROPOSED LOCATION: SWSE 29 090S 220E

Permit Tech Review:

SURFACE: 1050 FSL 1596 FEL

Engineering Review:

BOTTOM: 1080 FSL 2251 FWL

Geology Review:

COUNTY: UINTAH

LATITUDE: 40.00270

LONGITUDE: -109.45937

UTM SURF EASTINGS: 631509.00

NORTHINGS: 4428983.00

FIELD NAME: NATURAL BUTTES

LEASE TYPE: 3 - State

LEASE NUMBER: UO 1207 ST

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

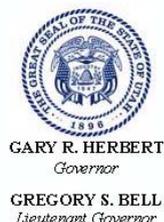
Commingling Approved

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 - hmacdonald



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 922-29N1BS
API Well Number: 43047512230000
Lease Number: UO 1207 ST
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

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 922-29N1BS
Qtr/Qtr SWSE Section 29 Township 9S Range 22E
Lease Serial Number UO-1207 ST
API Number 4304751223

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

Date/Time 11/08/2010 14:00 HRS AM PM

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

- Surface Casing
- Intermediate Casing
- Production Casing
- Liner
- Other

RECEIVED
NOV 08 2010

DEPT OF OIL, GAS & MINING

Date/Time 11/17/2010 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

435.781.7048 OR LOVEL YOUNG AT 435.828.0986

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: UO 1207 ST
---	---

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 922-29N1BS
------------------------------------	---

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047512230000
---	---

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: 1050 FSL 1596 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSE 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 type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input checked="" type="checkbox"/> SPUD REPORT Date of Spud: 11/8/2010	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <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 NOVEMBER 8, 2010 AT 14:00 HRS.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
 November 09, 2010

NAME (PLEASE PRINT) Gina Becker	PHONE NUMBER 720 929-6086	TITLE Regulatory Analyst II
SIGNATURE N/A	DATE 11/9/2010	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: UO 1207 ST
---	---

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 922-29N1BS
------------------------------------	---

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047512230000
---	---

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

4. LOCATION OF WELL FOOTAGES AT SURFACE: 1050 FSL 1596 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSE Section: 29 Township: 09.0S Range: 22.0E Meridian: S	COUNTY: Uintah STATE: UTAH
---	---

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input checked="" type="checkbox"/> SPUD REPORT Date of Spud: 11/8/2010	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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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 NOVEMBER 8, 2010 AT 14:00 HRS.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
 November 09, 2010

NAME (PLEASE PRINT) Gina Becker	PHONE NUMBER 720 929-6086	TITLE Regulatory Analyst II
SIGNATURE N/A	DATE 11/9/2010	

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
4304751224	NBU 922-29O1CS		SWSE	29	9S	22E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
<i>B</i>	99999	<i>2900</i>	11/8/2010		<i>11/10/10</i>		
Comments: MIRU PETE MARTIN BUCKET RIG. <i>WSMVD</i> SPUD WELL LOCATION ON 11/8/2010 AT 09:30 HRS. <i>BHL = SWSE</i>							

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304751222	NBU 922-29J4CS		SWSE	29	9S	22E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
<i>B</i>	99999	<i>2900</i>	11/8/2010		<i>11/10/10</i>		
Comments: MIRU PETE MARTIN BUCKET RIG. <i>WSMVD</i> SPUD WELL LOCATION ON 11/8/2010 AT 11:00 HRS. <i>BHL = NWSE</i>							

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304751223	NBU 922-29N1BS		SWSE	29	9S	22E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
<i>B</i>	99999	<i>2900</i>	11/8/2010		<i>11/10/10</i>		
Comments: MIRU PETE MARTIN BUCKET RIG. <i>WSMVD</i> SPUD WELL LOCATION ON 11/8/2010 AT 14:00 HRS. <i>BHL = SESW</i>							

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)

[Signature]

Signature

REGULATORY ANALYST

11/9/2010

Title

Date

RECEIVED
NOV 10 2010

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
5. LEASE DESIGNATION AND SERIAL NUMBER: UO 1207 ST	

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

1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: NBU 922-29N1BS
------------------------------------	---

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047512230000
---	---

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

4. LOCATION OF WELL FOOTAGES AT SURFACE: 1050 FSL 1596 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSE Section: 29 Township: 09.0S Range: 22.0E Meridian: S	COUNTY: UINTAH
STATE: UTAH	

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 50px;" type="text"/>
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:			
<input type="checkbox"/> SPUD REPORT Date of Spud:			
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 11/21/2010			

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

MIRU CAPSTAR AIR RIG ON NOVEMBER 18, 2010. DRILLED 11" SURFACE HOLE TO 2650'. RAN 8 5/8" 28# IJ-55 SURFACE CSG. PUMP 120 BBLS FRESH WATER. PUMP 20 BBLS GEL WATER. PUMP 225 SX CLASS G PREM @ 15.8 PPG, 1.15 YD. DISPLACED W/ 136 BBLS WATER W/ 70 PSI LIFT @ 2.5 BBLS/MINUTE. BUMP PLUG 500 PSI. FLOAT HELD. NO CIRC THROUGH OUT JOB. TOP OUT W/ 100 SX CLASS G PREM @ 15.8 PPG, 1.15 YD. WOC. TOP OUT #2 W/ 100 SX SAME CEMENT. WORT.

NAME (PLEASE PRINT) Gina Becker	PHONE NUMBER 720 929-6086	TITLE Regulatory Analyst II
SIGNATURE N/A	DATE 11/22/2010	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: UO 1207 ST
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 922-29N1BS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047512230000
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: 1050 FSL 1596 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSE 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 type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 12/21/2010	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input checked="" type="checkbox"/> OTHER	OTHER: <input type="text" value="ACTS PIT"/>

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

FINISHED DRILLING FROM 2650' TO 9542' ON DECEMBER 19, 2010. RAN 4 1/2" 11.6# I-80 PRODUCTION CSG. PUMP 40 BBLs SPACER, LEAD CEMENT W/ 510 SX CLASS G ECONOCEM @ 12.6 PPG, 1.93 YD. TAILED CEMENT W/ 1120 SX CLASS G 50/50 POZ MIX @ 14.3 PPG, 1.25 YD. DISPLACED W/ 147 BBLs WATER W/ CLAYFIX & ALDACIDE, BUMPED PLUG TO 3400, FINAL LIFT 2600 PSI OVER, 2 BBL BACK TO TRUCK, FULL RETURNS, EST TOP OF CEMENT @ 800'. RD CEMENTERS AND CLEANED PITS. RELEASED ENSIGN RIG #145 ON DECEMBER 21, 2010. THE PIT ON THIS LOCATION WILL BE REFURBISHED AND UTILIZED AS PART OF THE ACTS SYSTEM.

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 12/22/2010

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: UO 1207 ST
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 922-29N1BS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047512230000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6515 Ext
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1050 FSL 1596 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSE 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 type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 2/11/2011	<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 checked="" type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

THE SUBJECT WELL WAS PLACED ON PRODUCTION ON FEBUARY 11, 2011 AT 4:30 P.M. 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) Gina Becker	PHONE NUMBER 720 929-6086	TITLE Regulatory Analyst II
SIGNATURE N/A	DATE 2/14/2011	

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:
UO 1207 ST

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT or CA AGREEMENT NAME
UTU63047A

8. WELL NAME and NUMBER:
NBU 922-29N1BS

9. API NUMBER:
4304751223

10. FIELD AND POOL, OR WILDCAT
NATURAL BUTTES

11. QTR/QTR, SECTION, TOWNSHIP, RANGE,
MERIDIAN:
SWSE 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: **SWSE 1050 FSL 1596 FEL S29, T9S, R22E**
AT TOP PRODUCING INTERVAL REPORTED BELOW: **SESW 1086 FSL 2261 FWL S29, T9S, R22E**
AT TOTAL DEPTH: **SESW 1079 FSL 2270 FWL S29, T9S, R22E**

BHL reviewed by HSM

14. DATE SPUDDED: 11/8/2010 15. DATE T.D. REACHED: 12/19/2011 16. DATE COMPLETED: 2/11/2011 ABANDONED READY TO PRODUCE 17. ELEVATIONS (DF, RKB, RT, GL): 4926 GL

18. TOTAL DEPTH: MD 9,542 TVD 9,344 19. PLUG BACK T.D.: MD 9,490 TVD 9,292 20. IF MULTIPLE COMPLETIONS, HOW MANY? * 21. DEPTH BRIDGE MD PLUG SET: TVD

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)
CBL-RMTE-CHI TRIPLE COMB-GR/CCL

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#		2,626		425			
7 7/8"	4 1/2" I-80	11.6#		9,533		1,630			

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"	8,973							

26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)
(A) MESAVERDE	7,323	9,312		
(B) WSMVP				
(C)				
(D)				

27. PERFORATION RECORD

INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
7,323 9,312	0.36	216	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"/>
			Open <input type="checkbox"/> Squeezed <input type="checkbox"/>

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

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
7323 - 9312	PUMP 11,158 BBLs SLICK H2O & 432,269 LBS 30/50 SAND

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

RECEIVED

MAR 22 2011

DIV. OF OIL, GAS & MINING

31. INITIAL PRODUCTION

INTERVAL A (As shown in item #26)

DATE FIRST PRODUCED: 2/11/2011		TEST DATE: 2/17/2011		HOURS TESTED: 24		TEST PRODUCTION RATES: →	OIL – BBL: 0	GAS – MCF: 2,501	WATER – BBL: 600	PROD. METHOD: FLOWING
CHOKE SIZE: 20/64	TBG. PRESS. 1,785	CSG. PRESS. 2,509	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL: 0	GAS – MCF: 2,501	WATER – BBL: 600	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.

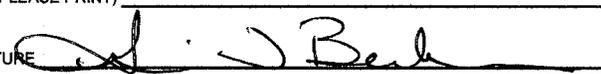
34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
GREEN RIVER	1,406				
BIRD'S NEST	1,726				
MAHOGANY	2,198				
WASATCH	4,731	7,299			
MESAVERDE	7,299	9,542	TD		

35. ADDITIONAL REMARKS (Include plugging procedure)

Attached is the chronological well history 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) GINA BECKER TITLE REGULATORY ANALYST
 SIGNATURE  DATE 3/17/2011

This report must be submitted within 30 days of

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

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

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

Send to: Utah Division of Oil, Gas and Mining Phone: 801-538-5340
 1594 West North Temple, Suite 1210
 Box 145801 Fax: 801-359-3940
 Salt Lake City, Utah 84114-5801

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 922-29N1BS [YELLOW]		Spud Conductor: 11/7/2010	Spud Date: 11/19/2010
Project: UTAH-UINTAH		Site: NBU 922-29O1 PAD	Rig Name No: ENSIGN 145/145, CAPSTAR 310/310
Event: DRILLING		Start Date: 10/19/2010	End Date: 12/21/2010
Active Datum: RKB @4,939.00ft (above Mean Sea Level)		UWI: SW/SE/0/9/S/22/E/29/0/0/26/PM/S/1050/W/0/1596/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
11/18/2010	19:00 - 0:00	5.00	DRLSUR	21	C	P		WAIT ON DAYLIGHT
11/19/2010	0:00 - 7:00	7.00	DRLPRO	21	C	P		WAIT ON DAYLIGHT TO SKID RIG
	7:00 - 11:00	4.00	DRLPRO	01	C	P		SKID RIG TO NBU 922-29N1BS
	11:00 - 13:00	2.00	DRLPRO	14	A	P		WELD ON CONDUCTOR AND RIG UP FLOW LINE
	13:00 - 15:00	2.00	DRLPRO	06	A	P		PICK UP BIT AND MUD MOTOR TIH
	15:00 - 17:00	2.00	DRLPRO	02	C	P		SPUD 11" HOLE DRILL F/ 40' - 196' WOB 4-6 ROT 45-55 DHR 96 GPM 600
	17:00 - 19:30	2.50	DRLPRO	06	A	P		TOOH INSTALL DIRECTIONAL TOOLS AND MWD TOOL ORIENT MWD TOOL TO MUD MOTOR AND TIH INSTALL NEW ROT RUBBER
	19:30 - 0:00	4.50	DRLPRO	02	C	P		DRILL F/ 196' - 699' AVE ROP 112 WOB 10-12 ROT 50-60 DHR 96 GPM 600 NO LOSSES OBP 1125 OFBP 975 LAST SURVEY 7.63 DEG 275.3 AZI
11/20/2010	0:00 - 15:00	15.00	DRLSUR	02	C	P		DRILL F/ 699' - 1743' AVE ROP 70 FT HR WOB 10-13 ROT 50-60 DHR 96 GPM 550 OBP 1350 OFBP 1175 PUT AIR ON AT 1400' AT 700-800 CFM LAST SURVEY 21.19 DEG 267.42 AZI
	15:00 - 15:30	0.50	DRLSUR	07	A	P		DAILY RIG SERVICE
	15:30 - 23:00	7.50	DRLSUR	02	C	P		DRILL F/ 1743' - 2060' AVE ROP 43 FT HR WOB 10-13 ROT 50-60 DHR 96 GPM 550 OBP 1350 OFBP 1175 PUT AIR ON AT 1400' AT 700-800 CFM LAST SURVEY 19.5 DEG 271.8 AZI
	23:00 - 0:00	1.00	DRLSUR	05	F	P		AIR PACKAGE LEFT ON WITH NO MUD PUMPS UNLOADED HOLE BLEAD OFF PUMPS AND RE CIRCULATED
11/21/2010	0:00 - 0:00	24.00	DRLSUR					CONDUCTOR CASING: Cond. Depth set: 40 Cement sx used: 28
								SPUD DATE/TIME: 11/19/2010 14:30
								SURFACE HOLE: Surface From depth: 40 Surface To depth: 2,650 Total SURFACE hours: 41.00 Surface Casing size: 8 5/8 # of casing joints ran: 59 Casing set MD: 2,622.0 # sx of cement: 225/175 Cement blend (ppg.): 15.8/15.8 Cement yield (ft3/sk): 1.15/1.15 # of bbls to surface: 0 Describe cement issues: NONE Describe hole issues:
	0:00 - 12:00	12.00	DRLSUR	02	C	P		DRILL F/ 2060' - 2650' T.D. AVE ROP 50 FT HR WOB 10-13 ROT 50-60 DHR 96 GPM 550 OBP 1350 OFBP 1175 PUT AIR ON AT 1400' AT 700-800 CFM LAST SURVEY
	12:00 - 12:30	0.50	DRLSUR	05	C	P		CIRCULATE AND CONDITION MUD PRIOR TO LDDS
	12:30 - 16:30	4.00	DRLSUR	06	A	P		TOOH LAYING DOWN BREAK DOWN DIRECTIOAL TOOLS AND L/D MWD TOOLS BREAK BIT AND MUD MOTOR
	16:30 - 21:00	4.50	DRLSUR	12	C	P		CONDUCT SAFETY MEETING RIG UP AND RUN 59 JOINTS 8.625 28# J-55 CASING SHOE AT 2625' BAFFLE AT 2581'

US ROCKIES REGION
Operation Summary Report

Well: NBU 922-29N1BS [YELLOW]	Spud Conductor: 11/7/2010	Spud Date: 11/19/2010
Project: UTAH-UINTAH	Site: NBU 922-29O1 PAD	Rig Name No: ENSIGN 145/145, CAPSTAR 310/310
Event: DRILLING	Start Date: 10/19/2010	End Date: 12/21/2010
Active Datum: RKB @4,939.00ft (above Mean Sea Level)	UWI: SW/SE/0/9/S/22/E/29/0/0/26/PM/S/1050/W/0/1596/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	21:00 - 23:00	2.00	DRLSUR	12	E	P		PUMP 120 BBLs AHEAD, PUMP 20 BBLs OF GEL WATER FOR SPACER, PUMP 225 SX (46 BBLs) OF 15.8#, 1.15 YD 5 GAL/SK CLASS G 2% CALC + .25 LB/SKS SUPER FLAKES CEMENT. DISPLACE W/ 136 BBLs OF H2O W/ 70 PSI LIFT @ 2.5 BBLs A MINUTE. BUMP PLUG 500 PSI. FLOAT HELD. NO CIRC THROUGH OUT JOB. TOP OUT W/ 100 SX (20.2 BBLs) 15.8#, 1.15 YD, 5 GAL/ SK 2% CALC CEMENT. RIG DOWN HEAD.CUT OFF AND HANG RISER AND AND ROT HEAD. INSTALL HANG OFF BAR. LAND CSG AND BREAK OFF LANDING JT. CUT OFF CSG COLLAR AND TACK CAP ON TOP OF CSG. BREAK DOWN BOWIE LINE.TOP OUT 100 SX (20.4BBLs)OF 15.8#, 1.15 YD. 5 GAL SK 4% CALC.
	23:00 - 0:00	1.00	DRLSUR	14	A	P		CUT CONDUCTOR AND RIG DOWN FLOW LINE RELEASE RIG 11-21/2010 @ 11:59
12/12/2010	0:00 - 2:30	2.50	MIRU	01	C	P		PREP TO SKID,SKID
	2:30 - 4:30	2.00	MIRU	14	A	P		NIPPLE UP BOP
	4:30 - 8:30	4.00	MIRU	01	B	P		PREPARE RIG FOR SPUD
	8:30 - 12:30	4.00	DRLPRO	15	A	P		HELD SAFTEY MEETING, RIG UP SINGLE JACK TESTER, TEST BOP, I-BOP, MANUEL I-BOP, PIPE RAMS, TIW, HCR, MANUEL HCR, BLIND RAMS, INSIDE/OUTSIDE KILL, CHOKE MANIFOLD TO 250 LOW 5000 HIGH, TEST ANNULAR TO 2500 AND CASING TO 1500, RIG DOWN TESTER, INSTALL WEAR BUSHING, HOOK UP KILL LINE
	12:30 - 13:30	1.00	DRLPRO	23		P		PRE SPUD INSPECTION
	13:30 - 16:30	3.00	DRLPRO	06	A	P		PICK UP DIRECTIONAL TOOLS, TRIP IN TO DRILL CEMENT,TAG CEMENT @ 2535
	16:30 - 17:30	1.00	DRLPRO	02	F	P		DRILL FLOAT EQUI & CLEAN OUT SURFACE RAT HOLE F/ 2535 TO 2654
	17:30 - 0:00	6.50	DRLPRO	02	C	P		DRILL F/ 2654' TO 3300' = 646 99.3 FPH STKS #1 & #2 PUMPS 00/105, 473 GPM PSI OFF BOTTOM / ON BOTTOM 1050/1450 MOTOR RPM / ROTARY RPM, 99/40 TQ ON / OFF BOTTOM 6K/5K FT/LBS PU / SO / ROT WT 127 / 110/ 117 WT ON BIT 20K TO 22K ROTATING = 30% FOOTAGE DRILLED SLIDING = 70% FOOTAGE DRILLED SLIDING 60' FO EVERY 90' NO LOSS
12/13/2010	0:00 - 6:00	6.00	DRLPRO	02	D	P		DRILL F/ 3300' TO 3849' = 549 91.5 FPH STKS #1 & #2 PUMPS 00/105, 473 GPM PSI OFF BOTTOM / ON BOTTOM 1050/1450 MOTOR RPM / ROTARY RPM, 99/40 TQ ON / OFF BOTTOM 6K/5K FT/LBS PU / SO / ROT WT 127 / 110/ 119 WT ON BIT 20K TO 22K ROTATING = 30% FOOTAGE DRILLED SLIDING = 70% FOOTAGE DRILLED SLIDING 60' TO 70' OF EVERY 90' NO LOSS
	6:00 - 8:00	2.00	DRLPRO	06	A	P		TRIPPING OUT TO ADJUST MOTOR. WELL FLOWING. GAINED 20 BBLs.
	8:00 - 8:30	0.50	DRLPRO	02	D	P		TRANSFER 40 BBLs OF 12.5# MUD OVER AND SPOT MUD @ 1700' TO CONTROL OIL AND WATER FLOW.
	8:30 - 10:30	2.00	DRLPRO	06	A	P		TRIP OUT TO ADJUST MOTOR. ADJUSTED MOTOR TO 1.83 AND CHECKED ORIENTATION OF DIRECTIONAL TOOLS. FUNCTION PIPES AND BLIND RAMS.
	10:30 - 12:30	2.00	DRLPRO	06	A	P		TRIP IN HOLE TO 3669'. FILL PIPE AND WASH DOWN LAST 2 STD.

US ROCKIES REGION
Operation Summary Report

Well: NBU 922-29N1BS [YELLOW]		Spud Conductor: 11/7/2010	Spud Date: 11/19/2010
Project: UTAH-UINTAH		Site: NBU 922-29O1 PAD	Rig Name No: ENSIGN 145/145, CAPSTAR 310/310
Event: DRILLING		Start Date: 10/19/2010	End Date: 12/21/2010
Active Datum: RKB @4,939.00ft (above Mean Sea Level)		UWI: SW/SE/0/9/S/22/E/29/0/0/26/PM/S/1050/W/0/1596/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	12:30 - 15:00	2.50	DRLPRO	02	A	P		DRILL SLIDE 3849'-4030' (181', 72'/HR) WOB 18-23K SPM 107, GPM 482 , PSI ON/OFF 1600/1200, DIFF 400, MOT RPM 77, ROT 45-50, TOR ON/OFF 9/4, PU/SO/ROT 143/110/126, DRAG 17K. CIRC RESERVE PIT W/ 8.5# WATER. SLIDE 81' @ 70'/HR, SLIDE 44% ROT 56%.
	15:00 - 15:30	0.50	DRLPRO	07	A	P		RIG SERVICE, FUNCTION BOP'S, SERVICE TOP DRIVE.
	15:30 - 18:00	2.50	DRLPRO	02	D	P		DRILL SLIDE 4030'-4256' (226', 90'/HR) WOB 18-23K SPM 105, GPM 473 , PSI ON/OFF 1600/1200, DIFF 400, MOT RPM 76, ROT 45-50, TOR ON/OFF 8/5, PU/SO/ROT 150/115/131, DRAG 19K. CIRC RESERVE PIT W/ 8.5# WATER. SLIDE 83' @ 70'/HR, SLIDE 36% ROT 64%.
	18:00 - 0:00	6.00	DRLPRO	02	D	P		DRILL SLIDE 4256'-4733' (477', 80'/HR) WOB 18-23K SPM 105, GPM 473 , PSI ON/OFF 1700/1300, DIFF 400, MOT RPM 76, ROT 45-50, TOR ON/OFF 8/5, PU/SO/ROT 171/125/142, DRAG 29K. CIRC RESERVE PIT W/ 8.5# WATER. SLIDE 175' @ 50'/HR, SLIDE 37% ROT 63%. NO GAINS OR LOSSES.
12/14/2010	0:00 - 6:00	6.00	DRLPRO	02	D	P		DRILL SLIDE 4733'- 5117' (384', 64'/HR) WOB 18-23K SPM 105, GPM 473 , PSI ON/OFF 1700/1300, DIFF 400, MOT RPM 76, ROT 45-50, TOR ON/OFF 8/5, PU/SO/ROT 171/130/141, DRAG 30K. CIRC RESERVE PIT W/ 8.5# WATER. SLIDE 156' @ 50'/HR, SLIDE 40% ROT 60%. NO GAINS OR LOSSES. TRACE OIL COMING TO SURFACE
	6:00 - 11:30	5.50	DRLPRO	02	D	P		DRILL SLIDE 5117'- 5660' (543', 99'/HR) WOB 18-23K SPM 108, GPM 486 , PSI ON/OFF 1850/1400, DIFF 450, MOT RPM 78, ROT 45-50, TOR ON/OFF 8/5, PU/SO/ROT 175/133/145, DRAG 30K. CIRC RESERVE PIT W/ 8.5# WATER. SLIDE 77' @ 50'/HR, SLIDE 14% ROT 86%. NO GAINS OR LOSSES. TRACE OIL COMING TO SURFACE.
	11:30 - 12:00	0.50	DRLPRO	07	A	P		RIG SERVICE, FUNCTION PIPE RAMS AND ANNULAR. SERVICE TOP DRIVE.
	12:00 - 19:00	7.00	DRLPRO	02	D	P		DRILL SLIDE 5660'-6385' (725', 103'/HR) WOB 18-23K SPM 108, GPM 486 , PSI ON/OFF 1850/1400, DIFF 450, MOT RPM 78, ROT 45-50, TOR ON/OFF 8/5, PU/SO/ROT 192/140/162, DRAG 30K. SLIDE 39' @ 50'/HR SLIDE 5% ROT 95%. PREPPING PITS FOR MUD UP.
	19:00 - 21:00	2.00	DRLPRO	22	G	X		FIGHT LOSS CIRC. REDUCE PUMP RATE. MUD UP WHILE SWEEPING HOLE W/ LCM. BYPASS SHAKERS AND INCREASE LCM TO 5%. REGAIN CIRCULATION. MUD WT 9 VIS 30 LCM 5%. LOSS 100 BBLs.
	21:00 - 0:00	3.00	DRLPRO	02	D	P		DRILL SLIDE 6385'-6543' (158', 53'/HR) WOB 18-23K SPM 108, GPM 486 , PSI ON/OFF 1850/1400, DIFF 450, MOT RPM 78, ROT 45-50, TOR ON/OFF 9/6, PU/SO/ROT 191/143/165, DRAG 26K.MUD IN WT 9.0 VIS 35 MUD OUT WT 9.0+ VIS 34 LCM 4%. SLIDE 40' @ 45'/HR SLIDE 25% ROT 75%.
12/15/2010	0:00 - 11:30	11.50	DRLPRO	02	D	P		DRILL SLIDE 6543'-7291' (748', 65'/HR) WOB 18-23K SPM 108, GPM 486 , PSI ON/OFF 1900/1500, DIFF 400, MOT RPM 78, ROT 45-50, TOR ON/OFF 11/8, PU/SO/ROT 210/145/169, DRAG 41K.MUD IN WT 9.4 VIS 37 MUD OUT WT 9.3 VIS 36 LCM 3%. SLIDE 92' @ 40'/HR SLIDE 12% ROT 88%. (BOP DRILL 65 SEC)

US ROCKIES REGION
Operation Summary Report

Well: NBU 922-29N1BS [YELLOW]	Spud Conductor: 11/7/2010	Spud Date: 11/19/2010
Project: UTAH-UINTAH	Site: NBU 922-29O1 PAD	Rig Name No: ENSIGN 145/145, CAPSTAR 310/310
Event: DRILLING	Start Date: 10/19/2010	End Date: 12/21/2010
Active Datum: RKB @4,939.00ft (above Mean Sea Level)		UWI: SW/SE/0/9/S/22/E/29/0/0/26/PM/S/1050/W/0/1596/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	11:30 - 12:00	0.50	DRLPRO	07	A	P		RIG SERVICE, FUNCTION PIPE RAMS AND ANNULAR. SERVICE TOP DRIVE.
	12:00 - 20:00	8.00	DRLPRO	02	D	P		DRILL SLIDE 7291'-7811' (520, 65'/HR) WOB 18-23K SPM 108, GPM 486 , PSI ON/OFF 2000/1600, DIFF 400, MOT RPM 78, ROT 45-50, TOR ON/OFF 12/10, PU/SO/ROT 219/150/181, DRAG 37K.MUD IN WT 9.9 VIS 40 MUD OUT WT 9.9 VIS 39 LCM 3%. SLIDE 33' @ 35'/HR SLIDE 6% ROT 94%. HIGH TORQUE AND DRAG ON CONNECTIONS.
	20:00 - 20:30	0.50	MAINT	08	B	Z		CHANGE SWAB #1 PUMP, #2 PUMP POP OFF NOT HOLDING. WORK ON POP OFF AND CHANGE SWAB.
	20:30 - 0:00	3.50	DRLPRO	02	D	P		DRILL SLIDE 7811'- 7995' (184', 52'/HR) WOB 18-23K SPM 108, GPM 486 , PSI ON/OFF 2200/1800, DIFF 400, MOT RPM 78, ROT 45-50, TOR ON/OFF 13/11, PU/SO/ROT 240/150/186, DRAG 54 K.MUD IN WT 10.2 VIS 43 MUD OUT WT 10.1 VIS 42 LCM 4%. SLIDE 20' @ 20'/HR SLIDE 10% ROT 90%. HIGH TORQUE AND DRAG ON CONNECTIONS.
12/16/2010	0:00 - 14:00	14.00	DRLPRO	02	D	P		DRILL 7995'-8559' (564', 40'/HR) WOB 18-23K SPM 105, GPM 473 , PSI ON/OFF 2450/2050, DIFF 400, MOT RPM 77, ROT 45-50, TOR ON/OFF 13/13, PU/SO/ROT 264/170/194, DRAG 70 K.MUD IN WT 10.6 VIS 42 MUD OUT WT 10.6 VIS 44 LCM 4%. SLIDE 101' @ 30'/HR SLIDE 17% ROT 83%. HIGH TORQUE AND DRAG ON CONNECTIONS. PIPE WANTING TO STICK AFTER SLIDES. 90K OVER PULL IN ROT.
	14:00 - 18:30	4.50	DRLPRO	05	B	P		WHILE PREPARING TO WIPER TRIP OUT OF HOLE. 15' FLARE FROM 8549'. MUD GAS CUT 10.6 TO 10.1. WEIGHT UP MUD TO 11.1.
	18:30 - 22:30	4.00	DRLPRO	06	E	P		PUMP AND ROT OUT OF HOLE 33 STD TO 5780'. 70 K OVER PULL OFF BOTTOM WHILE PUMPING AND ROT. 17K TORQUE. PUMP DRY JOB.
12/17/2010	22:30 - 0:00	1.50	DRLPRO	06	E	P		TRIP OUT OF HOLE. @ 3600' RT.
	0:00 - 2:30	2.50	DRLSUR	06	E	P		TRIP OUT OF HOLE, CHANGE OUT BIT AND MOTOR. HC Q506F W/ 6-14'S SN 7020602. NEW HUNTING 6-1/2" 1.5 BH .16 MOTOR SN 6406. FUNCTION PIPE RAMS AND BLIND RAMS.
	2:30 - 9:00	6.50	DRLSUR	06	E	P		TRIP IN HOLE, ORIENT DIRECTINAL TOOLS, FILL PIPE 2600', 4600'. HOLE STOP DISPLACING @ 6800'.
	9:00 - 11:00	2.00	DRLSUR	22	G	X		LOST TOTAL CIRC. RAISE LCM TO 12% TO REGAIN CIRC. BUILD VOLUME. LOSS 250 BBLs MUD.
	11:00 - 13:00	2.00	DRLSUR	06	E	P		TRIP IN HOLE TO BOTTOM, WASH 90' TO BOTTOM, NO FILL. FULL CIRC. 30 K DRAG IN HOLE.
	13:00 - 14:00	1.00	DRLSUR	02	D	P		DRILL 8559'-8611' (52', 52'/HR) WOB 18-23K SPM 105, GPM 473 , PSI ON/OFF 2450/2050, DIFF 400, MOT RPM 77, ROT 45-50, TOR ON/OFF 12/11, PU/SO/ROT 256/170/194, DRAG 62K.MUD IN WT 11 VIS 40 MUD OUT WT 10.9 VIS 40 LCM 12%. SLIDE 20' @ 45'/HR 38% SLIDE. 15-20' FLARE BOTTOM UP GAS. MOTOR LOCKED UP.
	14:00 - 15:00	1.00	MAINT	08	B	Z		REPAIR POP OFFS, PROBLEMS WITH STEMS BENDING WHEN POP OFF RELEASES. POP OFFS RELEASING @ 3300 PSI. UNABLE TO PUMP THROUGH BIT. HOLDING 1000 PSI WITH PUMP DOWN.

US ROCKIES REGION
Operation Summary Report

Well: NBU 922-29N1BS [YELLOW]		Spud Conductor: 11/7/2010		Spud Date: 11/19/2010	
Project: UTAH-UINTAH		Site: NBU 922-29O1 PAD		Rig Name No: ENSIGN 145/145, CAPSTAR 310/310	
Event: DRILLING		Start Date: 10/19/2010		End Date: 12/21/2010	
Active Datum: RKB @4,939.00ft (above Mean Sea Level)		UWI: SW/SE/0/9/S/22/E/29/0/0/26/PM/S/1050/W/0/1596/0/0			

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	15:00 - 18:00	3.00	DRLPRO	06	A	P		ROT OUT OF HOLE WITH OUT PUMP FOR 16 STD. 50-70K OVER. WET TRIP OUT OF HOLE. PUMP MUD FROM CELLAR BACK INTO MUD TANKS.
	18:00 - 0:00	6.00	DRLPRO	06	A	P		WET TRIP OUT OF HOLE FOR LOCKED UP MOTOR. PULLING DIRECTIONAL TOOLS AT REPORT TIME.
12/18/2010	0:00 - 2:00	2.00	DRLPRO	06	A	P		TRIP OUT OF HOLE, LD MOTOR, CLEAN OUT METAL OUT OF BIT FROM MOTOR. P/U NEW HUNTING .16 RPG 1.5 BH MOTOR. MAKE UP SAME BIT.
	2:00 - 9:00	7.00	DRLPRO	06	A	P		TRIP IN HOLE, BREAK CIRC. 2800. 4800, 6800. TRIP IN HOLE TO 8535'. NO GAINS. HOLE SEEPING ON TRIP. WASH DOWN TO 8611'. 20' FLARE BOTTOMS UP. MUD WT 10.8 VIS 40 15% LCM.
	9:00 - 9:30	0.50	DRLPRO	02	D	P		DRILL 8611'- 8634' WHILE DRILLING HOLE CAVED IN AND PACKED OFF.
	9:30 - 11:00	1.50	DRLPRO	22	A	X		WORK TIGHT HOLE, WORK FREE SPOT, WORK PAST PACK OFF ROTATING. 35-50K OVER. CLEAN UP HOLE. LOSS 50 BBLS OF MUD WHILE HOLE WAS PACKED OFF.
	11:00 - 0:00	13.00	DRLPRO	02	D	P		DRILL 8634'-9024' (390', 30'/HR) WOB 18-23K SPM 105, GPM 473 , PSI ON/OFF 2800/2400, DIFF 400, MOT RPM 77, ROT 45-50, TOR ON/OFF 12/13, PU/SO/ROT 252/175/202, DRAG 52K. MUD IN WT 11.8 VIS 44 MUD OUT WT 11.7+ VIS 45 LCM 14%. SLIDE 69' @ 13'/HR 10% SLIDE 90% ROT. SLIDE 32% OF TIME. NO MUD LOSS.
12/19/2010	0:00 - 12:00	12.00	DRLPRO	02	D	P		DRILL 9024'-9512' (488', 40'/HR) WOB 18-26K SPM 105, GPM 473 , PSI ON/OFF 2900/2500, DIFF 400, MOT RPM 77, ROT 45-50, TOR ON/OFF 13/13, PU/SO/ROT 256/175/202, DRAG 54K. MUD IN WT 12.3 VIS 44 MUD OUT WT 12.2+ VIS 45 LCM 14%. RIG SERVICE FUNCTION BOP'S.
	12:00 - 12:30	0.50	DRLPRO	07	A	P		
	12:30 - 15:00	2.50	DRLPRO	02	D	P		DRILL 9512'-9542' (30', 12'/HR) TD 12/19/2010 15:00 WOB 18-28K SPM 105, GPM 473 , PSI ON/OFF 2900/2500, DIFF 400, MOT RPM 77, ROT 45-50, TOR ON/OFF 13/13, PU/SO/ROT 256/175/202, DRAG 54K. MUD IN WT 12.4 VIS 44 MUD OUT WT 12.4 VIS 45 LCM 14%.
	15:00 - 17:00	2.00	DRLPRO	05	A	P		CIRC AND CONDITION HOLE. CIRC TO LDDP.
	17:00 - 0:00	7.00	DRLPRO	06	A	P		PUMP & REAM OUT OF HOLE 44 STANDS, LAY DOWN PIPE
12/20/2010	0:00 - 10:30	10.50	DRLPRO	06	A	P		LAY DOWN DRILL PIPE
	10:30 - 20:00	9.50	CSG	12	C	P		HELD SAFTEY MEETING, RIG UP CASING CREW, RUN DCT SHOE,FLOAT, 15 CENTRALIZERS, 226 JOINTS 4.5,11.6, I-80, BTC CASING. CASING LANDED AT MD 9534,' FLOAT TOP AT 9490' MD, FILLED PIPE & CIRC THRU TIGHT SPOT @ 5717 TO 5748, CONTINUE IN HOLE TO 7502, FILL PIPE AND WASH TIGHT SPOT TO 7743, CONTINUE IN HOLE TO 9534
	20:00 - 22:00	2.00	CSG	05	D	P		HELD SAFTEY MEETING, INSTALL HALLIBURTON HEAD, CIRCULATE CASING, HELD SAFTEY MEETING RIG DOWN CASERS, SPOT AND RIG UP HALLIBURTON, 5' FLARE BOTTOMS UP

US ROCKIES REGION
Operation Summary Report

Well: NBU 922-29N1BS [YELLOW]	Spud Conductor: 11/7/2010	Spud Date: 11/19/2010
Project: UTAH-UJINTAH	Site: NBU 922-29O1 PAD	Rig Name No: ENSIGN 145/145, CAPSTAR 310/310
Event: DRILLING	Start Date: 10/19/2010	End Date: 12/21/2010
Active Datum: RKB @4,939.00ft (above Mean Sea Level)		UWI: SW/SE/0/9/S/22/E/29/0/0/26/PM/S/1050/W/0/1596/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	22:00 - 0:00	2.00	CSG	12	C	P		HELD SAFTEY MEETING, HOOK UP IRON TO HEAD, TEST LINES TO 5000 PSI, PUMP 40 BBL FRESH WATER AHEAD LEAD 175 BBL 510 SKS ECONCEM 12.6 PPG, 1.93 YEILD, 10.36 GPS WATER TAIL 249 BBL 1120 SKS POZ PREMIUM 50/50 14.3 PPG 1.25 YEILD, 5.41 GPS WATER DROP PLUG DISPLACE WITH 147 BBL FRESH WATER WITH CLAY FIX & ALDACIDE, BUMP PLUG TO 3400, FINAL LIFT 2600, 800 PSI OVER, 2 BBL BACK TO TRUCK, FULL RETURNS, EST TOP OF CEMENT 800'
12/21/2010	0:00 - 1:00	1.00	CSG	12	B	P		HELD SAFTEY MEETING RIG DOWN CEMENTERS
	1:00 - 2:30	1.50	CSG	12	C	P		SET SLIPS @ 110K WITH WEATHERFORD HAND, LIFT STACK CUT OFF CASING
	2:30 - 8:00	5.50	CSG	14	A	P		NIPPLE DOWN, CLEAN PITS, RELEASE RIG

US ROCKIES REGION
Operation Summary Report

Well: NBU 922-29N1BS [YELLOW]		Spud Conductor: 11/7/2010	Spud Date: 11/19/2010
Project: UTAH-UINTAH		Site: NBU 922-29O1 PAD	Rig Name No: ENSIGN 145/145, CAPSTAR 310/310
Event: DRILLING		Start Date: 10/19/2010	End Date: 12/21/2010
Active Datum: RKB @4,939.00ft (above Mean Sea Level)		UWI: SW/SE/0/9/S/22/E/29/0/0/26/PM/S/1050/W/0/1596/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	8:00 - 8:00	0.00	CSG					PRODUCTION: Rig Move/Skid start date/time: 12/12/2010 0:00 Rig Move/Skid finish date/time: 12/12/2010 2:30 Total MOVE hours: 2.5 Prod Rig Spud date/time: 12/12/2010 16:30 Rig Release date/time: 12/19/2010 15:00 Total SPUD to RR hours: 166.5 Planned depth MD 9,561 Planned depth TVD 9,346 Actual MD: 9,542 Actual TVD: 9,344 Open Wells \$: \$863,278 AFE \$: \$718,952 Open wells \$/ft: \$90.47 PRODUCTION HOLE: Prod. From depth: 2,654 Prod. To depth: 9,542 Total PROD hours: 168.8 Log Depth: NO LOGS Float Collar Top Depth: 9489 Production Casing size: 4 1/2 # of casing joints ran: 226 Casing set MD: 9,534.0 Stage 1 # sx of cement: 1,630 Cement density (ppg:) LEAD 12.6#/ TAIL 14.3# Cement yield (ft3/sk): LEAD 1.93 YD/ TAIL 1.25 YD Stage 2 # sx of cement: Cement density (ppg:) Cement yield (ft3/sk): Top Out Cmt # sx of cement: Cement density (ppg:) Cement yield (ft3/sk): Est. TOC (Lead & Tail) or 2 Stage : LEAD 800', TAIL 4200' Describe cement issues: N/A Describe hole issues: 14% LCM TO CONTROL LOSSES DIRECTIONAL INFO: KOP: 203 Max angle: 18.00 Departure: 495.53 Max dogleg MD: 2,478.00 (2.78 DLEG)

US ROCKIES REGION
Operation Summary Report

Well: NBU 922-29N1BS [YELLOW]	Spud Conductor: 11/7/2010	Spud Date: 11/19/2010
Project: UTAH-UINTAH	Site: NBU 922-29O1 PAD	Rig Name No: MILES 3/3
Event: COMPLETION	Start Date: 1/28/2011	End Date: 2/11/2011
Active Datum: RKB @4,939.00ft (above Mean Sea Level)		UWI: SW/SE/0/9/S/22/E/29/0/0/26/PM/S/1050/W/0/1596/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
1/31/2011	6:30 - 6:45	0.25	COMP	48		P		HSM, SLIPS, TRIPS & FALLS / MIRU
	6:45 - 6:45	0.00	COMP	36	E	P		<p>MIRU CUTTERS WIRE LINE & FRAC TECH EQUIP. STG #1] P/U RIH W/ 3-3/8 EXPEND, 23 GRM, 0.36" PERF MESAVERDE.</p> <p>9,310'-9,312' 3 SPF, 120* PH, 6 HOLES. 9,297'-9,298' 3 SPF, 120* PH, 3 HOLES. 9,190'-9,192' 3 SPF, 120* PH, 6 HOLES. 9,175'-9,176' 3 SPF, 120* PH, 3 HOLES. 9,163'-9,164' 3 SPF, 120* PH, 3 HOLES. 9,149'-9,150' 3 SPF, 120* PH, 3 HOLES. [24 HOLES]</p> <p>WHP=369#, BRK DN PERFS=3,688#, @=5 BPM, INJ RT=39.2, INJT PSI=6,560#, ISIP=2,557#, FG=.71, PUMP'D 1,502 BBLS SLK WTR W/ 53,172# 30/50 MESH W/ 5000# RESIN COAT IN TAIL, ISIP=2,920#, FG=.75, AR=47, AP=4,900#, MR=53.8, MP=6,578#, NPI=363#, 15/24 CALC PERFS OPEN.</p> <p>STG #2] P/U RIH W/ HALIBURTON 8K CBP, SET CBP @=, PERF MESAVERDE USING 3-3/8 EXPEND, 23 GRM, 0.36" HOLE. 9,062'-9,064' 4 SPF, 90* PH, 8 HOLES. 9,041'-9,043' 4 SPF, 90* PH, 8 HOLES. 9,020'-9,021' 4 SPF, 90* PH, 4 HOLES. 8,992'-8,993' 4 SPF, 90* PH, 4 HOLES. [24 HOLES]</p> <p>WHP=1,552#, BRK DN PERFS=3,349#, @=4.9 BPM, INJ RT=50.5, INJT PSI=5,508#, ISIP=2,825#, FG=.75, PUMP'D 665 BBLS SLK WTR W/ 20,920# 30/50 MESH W/ 5000# RESIN COAT IN TAIL, ISIP=2,766#, FG=.74, AR=50.7, AP=5,500#, MR=51.1, MP=6,614#, NPI=-59#, 24/24 CALC PERFS OPEN.</p> <p>STG #3] P/U RIH W/ HALIBURTON 8K CBP, SET CBP @=, PERF MESAVERDE USING 3-3/8 EXPEND, 23 GRM, 0.36" HOLE. 8,912'-8,914' 3 SPF, 120* PH, 6 HOLES. 8,885'-8,886' 3 SPF, 120* PH, 3 HOLES. 8,845'-8,847' 3 SPF, 120* PH, 6 HOLES. 8,788'-8,790' 3 SPF, 120* PH, 6 HOLES. 8,764'-8,765' 3 SPF, 120* PH, 3 HOLES. [24 HOLES]</p> <p>WHP=2,067#, BRK DN PERFS=3,194#, @=4.2 BPM, INJ RT=49.7, INJT PSI=5,484#, ISIP=2,361#, FG=.70, PUMP'D 2,244 BBLS SLK WTR W/ 88,218# 30/50 MESH W/ 5000# RESIN COAT IN TAIL, ISIP=2,873#, FG=.76, AR=49.8, AP=5,400#, MR=50.3, MP=6,257#, NPI=512#, 24/24 CALC PERFS OPEN.</p> <p>STG #4] P/U RIH W/ HALIBURTON 8K CBP, SET CBP @=, PERF MESAVERDE USING 3-3/8 EXPEND, 23 GRM, 0.36" HOLE. 8,710'-8,711' 3 SPF, 120* PH, 3 HOLES. 8,666'-8,667' 3 SPF, 120* PH, 3 HOLES. 8,610'-8,612' 3 SPF, 120* PH, 6 HOLES. 8,560'-8,564' 3 SPF, 120* PH, 12 HOLES. [24 HOLES] SWIFN.</p>

US ROCKIES REGION
Operation Summary Report

Well: NBU 922-29N1BS [YELLOW]		Spud Conductor: 11/7/2010		Spud Date: 11/19/2010				
Project: UTAH-UINTAH		Site: NBU 922-29O1 PAD		Rig Name No: MILES 3/3				
Event: COMPLETION		Start Date: 1/28/2011		End Date: 2/11/2011				
Active Datum: RKB @4,939.00ft (above Mean Sea Level)		UWI: SW/SE/0/9/S/22/E/29/0/0/26/PM/S/1050/W/0/1596/0/0						
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
2/1/2011	6:45 - 7:00	0.25	COMP	48		P		HSM, PERF & FRAC / HIGH PRESSURE

US ROCKIES REGION
Operation Summary Report

Well: NBU 922-29N1BS [YELLOW]		Spud Conductor: 11/7/2010	Spud Date: 11/19/2010
Project: UTAH-UINTAH		Site: NBU 922-29O1 PAD	Rig Name No: MILES 3/3
Event: COMPLETION		Start Date: 1/28/2011	End Date: 2/11/2011
Active Datum: RKB @4,939.00ft (above Mean Sea Level)		UWI: SW/SE/0/9/S/22/E/29/0/0/26/PM/S/1050/W/0/1596/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	7:00 - 7:00	0.00	COMP	36	E	P		<p>FRAC STG #4] MESAVERDE 8,308'-8,460' [24 HOLES] WHP 1707 PSI, BRK 3253 PSI @ 4.7 BPM. ISIP 2082 PSI, FG .67. PUMP 100 BBLS @ 43.5 BPM @ 6435 PSI = 67% HOLES OPEN. ISIP 2260 PSI, FG .69, NPI 178 PSI. MP 6572 PSI, MR 52.4 BPM, AP 4550 PSI, AR 48.5 BPM, PMP 1460 BBLS SW & 54,044 LBS OF 30/50 SND & 5,000 LBS OF 20/40 SLC SND. TOTAL PROP 59,044 LBS. SWI, X-OVER FOR WL.</p> <p>STG #5] P/U RIH W/ HALIBURTON 8K CBP, SET CBP @ 8510', PERF MESAVERDE USING 3-3/8 EXPEND, 23 GRM, 0.36" HOLE. 8,479'-8,480' 4 SPF, 90* PH, 4 HOLES. 8,464'-8,465' 4 SPF, 90* PH, 4 HOLES. 8,435'-8,436' 4 SPF, 90* PH, 4 HOLES. 8,421'-8,422' 4 SPF, 90* PH, 4 HOLES. 8,341'-8,343' 4 SPF, 90* PH, 8 HOLES. [24 HOLES]</p> <p>FRAC STG 5)WHP 1998 PSI, BRK 2569 PSI @ 4.7 BPM. ISIP 2028 PSI, FG .67. PUMP 100 BBLS @ 33.6 BPM @ 5359 PSI = 54% HOLES OPEN. ISIP 2272 PSI, FG .70, NPI 244 PSI. MP 6727 PSI, MR 51.8 BPM, AP 5250 PSI, AR 43 BPM, PMP 731 BBLS SW & 20,550 LBS OF 30/50 SND & 5,000 LBS OF 20/40 SLC SND. TOTAL PROP 25,550 LBS. SWI, X-OVER FOR WL.</p> <p>STG #6] P/U RIH W/ HALIBURTON 8K CBP, SET CBP @ 7976', PERF MESAVERDE USING 3-3/8 EXPEND, 23 GRM, 0.36" HOLE. 8,195'-8,196' 3 SPF, 120* PH, 3 HOLES. 8,160'-8,162' 3 SPF, 120* PH, 6 HOLES. 8,082'-8,084' 3 SPF, 120* PH, 6 HOLES. 7,999'-8,002' 3 SPF, 120* PH, 9 HOLES. [24 HOLES]</p> <p>FRAC STG 6)WHP 690 PSI, BRK 2557 PSI @ 2.7 BPM. ISIP 2034 PSI, FG .68. PUMP 100 BBLS @ 47.5 BPM @ 6126 PSI = 75% HOLES OPEN. ISIP 2160 PSI, FG .70, NPI 126 PSI. MP 7060 PSI, MR 51 BPM, AP 5150 PSI, AR 48.5 BPM, PMP 1305 BBLS SW & 45,188 LBS OF 30/50 SND & 5,000 LBS OF 20/40 SLC SND. TOTAL PROP 50,188 LBS. SWI, X-OVER FOR WL.</p> <p>PERF STG #7] P/U RIH W/ HALIBURTON 8K CBP, SET CBP @ 7940', PERF MESAVERDE USING 3-3/8 EXPEND, 23 GRM, 0.36" HOLE. 90 DEG PHASING. PERF F/ 7908'-10', 4 SPF, 8 HOLES. 7864'-66', 4 SPF, 8 HOLES. 7823'-25', 4 SPF, 8 HOLES. 24 HOLES. POOH, X-OVER FOR FRAC CREW.</p> <p>FRAC STG 7)WHP 250 PSI, BRK 4782 PSI @ 4.4 BPM. ISIP 2183 PSI, FG .71. PUMP 100 BBLS @ 49.2 BPM @ 4375 PSI = 100% HOLES OPEN.</p>

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 922-29N1BS [YELLOW]	Spud Conductor: 11/7/2010	Spud Date: 11/19/2010
Project: UTAH-UINTAH	Site: NBU 922-29O1 PAD	Rig Name No: MILES 3/3
Event: COMPLETION	Start Date: 1/28/2011	End Date: 2/11/2011
Active Datum: RKB @4,939.00ft (above Mean Sea Level)	UWI: SW/SE/0/9/S/22/E/29/0/0/26/PM/S/1050/W/0/1596/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
								<p>ISIP 2326 PSI, FG .73, NPI 123 PSI. MP 6590 PSI, MR 50.3 BPM, AP 4150 PSI, AR 49.7 BPM, PMP 617 BBLS SW & 15,119 LBS OF 30/50 SND & 5,000 LBS OF 20/40 SLC SND. TOTAL PROP 20,119 LBS. SWI, X-OVER FOR WL.</p> <p>PERF STG 8)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 120 DEG PHASING. RIH SET CBP @ 7748' P/U PERF F/ 7717'-18', 3 SPF, 3 HOLES. 7692'-94', 3 SPF, 6 HOLES. 7648'-49', 3 SPF, 3 HOLES. 7635'-36', 3 SPF, 3 HOLES. 7616'-18', 3 SPF, 6 HOLES. 7538'-39', 3 SPF, 3 HOLES. 24 HOLES. POOH, X-OVER FOR FRAC CREW.</p> <p>FRAC STG 8)WHP 506 PSI, BRK 3925 PSI @ 4.2 BPM. ISIP 916 PSI, FG .55. PUMP 100 BBLS @ 50.6 BPM @ 4437 PSI = 96% HOLES OPEN. ISIP 1975 PSI, FG .69, NPI 1060 PSI. MP 5424 PSI, MR 51.6 BPM, AP 3700 PSI, AR 50.4 BPM, PMP 963 BBLS SW & 31,306 LBS OF 30/50 SND & 5,000 LBS OF 20/40 SLC SND. TOTAL PROP 36,306 LBS. SWI, X-OVER FOR WL. ((VERY LOW FG FOR THIS STG.))</p> <p>PERF STG 9)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 7431' P/U PERF F/ 7399'-7401', 4 SPF, 8 HOLES. 7323'-27', 4 SPF, 16 HOLES. 24 HOLES. POOH, SWIFN.</p>
2/2/2011	7:00 - 7:15	0.25	COMP	48		P		HSM. SIM OPS. WORKING IN COLD WEATHER. -26 BELOW ZERO.
	7:15 - 15:00	7.75	COMP	36	B	P		<p>FRAC STG 9)WHP 303 PSI, BRK 2635 PSI @ 4.4 BPM. ISIP 1130 PSI, FG .59. PUMP 100 BBLS @ 49.6 BPM @ 3586 PSI = 100% HOLES OPEN. ISIP 2004 PSI, FG .71, NPI 874 PSI. MP 6370 PSI, MR 49.7 BPM, AP 3300 PSI, AR 49.5 BPM, PMP 1680 BBLS SW & 64,752 LBS OF 30/50 SND & 5,000 LBS OF 20/40 SLC SND. TOTAL PROP 69,752 LBS. SWI, X-OVER FOR WL.</p> <p>PU 4 1/2 8K HAL CBP FOR KILL PLUG. RIH SET CBP @ 7273' POOH. FRAC COMPLETE.</p>
								<p>TOTAL SAND = 423,269# TOTAL CLFL = 11,158 BBLS TOTAL SCALE INHIB = 1097 GAL TOAL BIOCIDES = 247 GAL JSA- PU TBG.</p>
2/10/2011	7:00 - 7:15	0.25	COMP	48		P		PU LOCATION AS WAIT ON TBG. TBG AOL 8:00.
	7:15 - 15:00	7.75	COMP	31	I	P		<p>MU 3-7/8" BIT, POBS, AND 1.87" XN. RIH AS MEAS AND PU 2-3/8" L-80 TBG. TAG AT 7249' W/ 231-JTS IN. RU DRLG EQUIP. SDFN (R&M RIG- CHANGE AIR DRYER).</p>
2/11/2011	7:00 - 7:15	0.25	COMP	48		P		JSA- D/O PLUGS. LAND TBG.

US ROCKIES REGION
Operation Summary Report

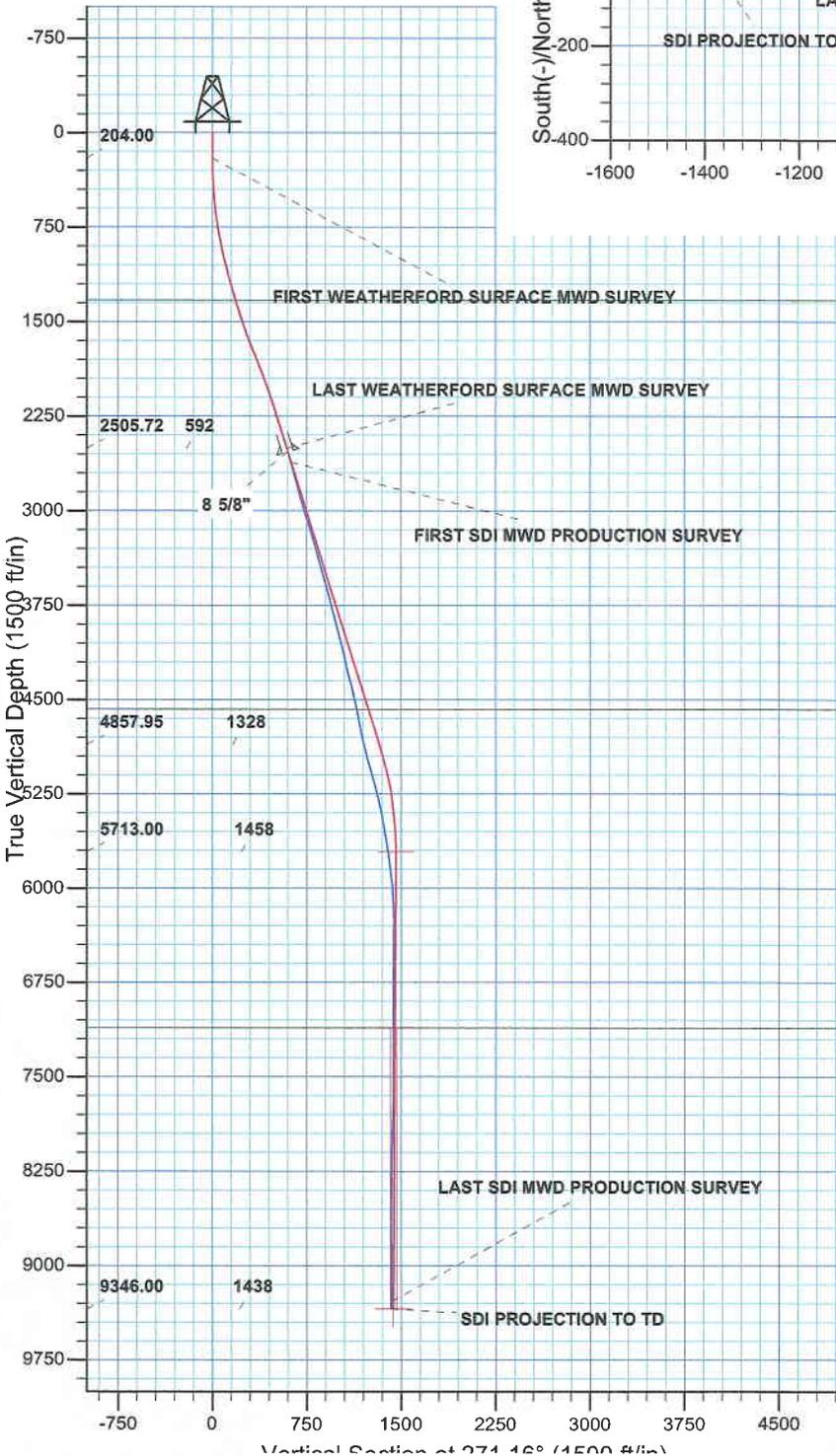
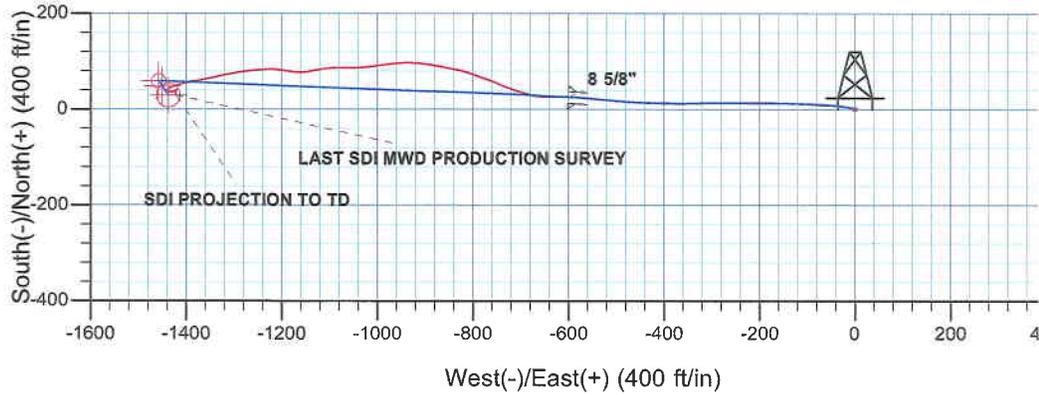
Well: NBU 922-29N1BS [YELLOW]		Spud Conductor: 11/7/2010	Spud Date: 11/19/2010
Project: UTAH-UINTAH		Site: NBU 922-29O1 PAD	Rig Name No: MILES 3/3
Event: COMPLETION		Start Date: 1/28/2011	End Date: 2/11/2011
Active Datum: RKB @4,939.00ft (above Mean Sea Level)		UWI: SW/SE/0/9/S/22/E/29/0/0/26/PM/S/1050/W/0/1596/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation															
	7:15 - 17:00	9.75	COMP	44	C	P		<p>FILL TBG AND PRES TEST TO 2500#. GOOD. EST CIRC AND D/O PLUGS.</p> <p>#1- C/O 30' SAND TO CBP AT 7273'. D/O IN 6 MIN. 200# INC. RIH. #2- C/O 30' SAND TO CBP AT 7431'. D/O IN 4 MIN. 300# INC. RIH. #3- C/O 30' SAND TO CBP AT 7748'. D/O IN 5 MIN. 400# INC. RIH. #4- C/O 30' SAND TO CBP AT 7940'. D/O IN 6 MIN. 200# INC. RIH. #5- C/O 30' SAND TO CBP AT 8226'. D/O IN 5 MIN. 300# INC. RIH. #6- C/O 30' SAND TO CBP AT 8510'. D/O IN 4 MIN. 300# INC. RIH. #7- C/O 45' SAND TO CBP AT 8741'. D/O IN 3 MIN. 400# INC. RIH. #8- C/O 30' SAND TO CBP AT 8944'. D/O IN 5 MIN. 600# INC. RIH. #9- C/O 30' SAND TO CBP AT 9094'. D/O IN MIN. # INC. RIH. PBSD- C/O ' SAND TO PBSD AT 9435' (123' RATHOLE) W/ 300-JTS IN. CIRC CLEAN.</p> <p>RD PWR SWIVEL. POOH AS LD 15-JTS TBG. PU 4" 10K HANGER. LUB IN AND LAND 285-JTS W/ EOT AT 8972.97'. RD FLOOR. ND BOP. NU WH. POBS AT 2500#. HOOK UP TO HAL 9000. TURN OVER TO FBC AND SALES. RDSU. DRAIN EQUIP. SDFN</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td>TBG DETAIL</td> <td>KB</td> <td>14.00</td> </tr> <tr> <td>4" 10K HANGER</td> <td></td> <td>.83</td> </tr> <tr> <td>285-JTS 2-3/8" L-80</td> <td></td> <td>8955.94</td> </tr> <tr> <td>POBS W/ 1.87" XN</td> <td></td> <td>2.20</td> </tr> <tr> <td>EOT</td> <td></td> <td>8972.97</td> </tr> </table> <p>DELIVER 316-JTS, RETURN 41-JTS.</p>	TBG DETAIL	KB	14.00	4" 10K HANGER		.83	285-JTS 2-3/8" L-80		8955.94	POBS W/ 1.87" XN		2.20	EOT		8972.97
TBG DETAIL	KB	14.00																					
4" 10K HANGER		.83																					
285-JTS 2-3/8" L-80		8955.94																					
POBS W/ 1.87" XN		2.20																					
EOT		8972.97																					
	16:30 - 16:30	0.00	PROD	50				<p>TWTR 11,158 / TWR 2650 / LTR 8508 WELL TURNED TO SALES @ 1630 HR ON 2/11/11 - 1880 MCFD, 2160 BWPD, CP 2400#, FTP 2000#, CK 20/64"</p>															
2/12/2011	7:00 -			33	A			<p>7 AM FLBK REPORT: CP 3025#, TP 2150#, 20/64" CK, 50 BWPH, HVY SAND, - GAS TTL BBLs RECOVERED: 3518 BBLs LEFT TO RECOVER: 7640</p>															
2/13/2011	7:00 -			33	A			<p>7 AM FLBK REPORT: CP 2950#, TP 2075#, 20/64" CK, 41 BWPH, HVY SAND, - GAS TTL BBLs RECOVERED: 4728 BBLs LEFT TO RECOVER: 7089</p>															
2/14/2011	7:00 -			33	A			<p>7 AM FLBK REPORT: CP 2800#, TP 2000#, 20/64" CK, 32 BWPH, LIGHT SAND, - GAS TTL BBLs RECOVERED: 5594 BBLs LEFT TO RECOVER: 6223</p>															
2/15/2011	7:00 -			33	A			<p>7 AM FLBK REPORT: CP 2600#, TP 1900#, 20/64" CK, 20 BWPH, TRACE SAND, - GAS TTL BBLs RECOVERED: 6164 BBLs LEFT TO RECOVER: 5653</p>															

WELL DETAILS: NBU 922-29N1BS					
GL 4926' & KB 14' @ 4940.00R (ENSIGN 145)					
+N-S	+E-W	Northing	Easting	Latitude	Longitude
0.00	0.00	14530757.47	2071855.70	40° 0' 9.729 N	109° 27' 33.980 W

Azimuths to True North
Magnetic North: 11.13°

Magnetic Field
Strength: 52388.6snT
Dip Angle: 65.89°
Date: 12/06/2010
Model: IGRF2010



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 922-29O1 Pad
NBU 922-29N1BS**

OH

Design: OH

Standard Survey Report

21 December, 2010

Anadarko 
Petroleum Corporation

Company: Kerr McGee Oil and Gas Onshore LP
Project: Uintah County, UT UTM12
Site: NBU 922-29O1 Pad
Well: NBU 922-29N1BS
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well NBU 922-29N1BS
TVD Reference: GL 4926' & KB 14' @ 4940.00ft (ENSIGN 145)
MD Reference: GL 4926' & KB 14' @ 4940.00ft (ENSIGN 145)
North Reference: True
Survey Calculation Method: Minimum Curvature
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 922-29O1 Pad, SEC 29 T9S R22E				
Site Position:	Northing:	14,530,756.71 usft	Latitude:	40° 0' 9.718 N	
From:	Lat/Long	Easting:	2,071,875.82 usft	Longitude:	109° 27' 33.722 W
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence:	0.99 °

Well	NBU 922-29N1BS, 1050' FSL 1596' FEL					
Well Position	+N/-S	0.00 ft	Northing:	14,530,757.47 usft	Latitude:	40° 0' 9.729 N
	+E/-W	0.00 ft	Easting:	2,071,855.69 usft	Longitude:	109° 27' 33.980 W
Position Uncertainty	0.00 ft	Wellhead Elevation:	ft	Ground Level:	4,926.00 ft	

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	12/06/2010	11.13	65.89	52,389

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	272.40	

Survey Program	Date	12/21/2010			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
5.00	2,595.00	Survey #1 Weatherford Surface MWD (OH)	MWD	MWD - Standard	
2,706.00	9,542.00	Survey #2 SDI MWD Production (OH)	MWD SDI	MWD - Standard ver 1.0.1	

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5.00	0.00	0.00	5.00	0.00	0.00	0.00	0.00	0.00	0.00	
204.00	0.25	41.05	204.00	0.33	0.29	-0.27	0.13	0.13	0.00	
FIRST WEATHERFORD SURFACE MWD SURVEY										
295.00	1.92	303.14	294.98	1.31	-0.86	0.92	2.16	1.84	-107.59	
389.00	2.94	278.30	388.90	2.52	-4.57	4.67	1.54	1.09	-26.43	
485.00	4.69	282.67	484.68	3.74	-10.83	10.98	1.85	1.82	4.55	
580.00	6.44	279.17	579.23	5.44	-19.88	20.09	1.88	1.84	-3.68	
676.00	7.63	275.30	674.51	6.88	-31.54	31.80	1.33	1.24	-4.03	
771.00	9.25	274.80	768.48	8.11	-45.43	45.73	1.71	1.71	-0.53	

Company: Kerr McGee Oil and Gas Onshore LP
Project: Uintah County, UT UTM12
Site: NBU 922-29O1 Pad
Well: NBU 922-29N1BS
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well NBU 922-29N1BS
TVD Reference: GL 4926' & KB 14' @ 4940.00ft (ENSIGN 145)
MD Reference: GL 4926' & KB 14' @ 4940.00ft (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)
866.00	11.00	272.55	861.99	9.15	-62.10	62.42	1.89	1.84	-2.37
961.00	12.75	273.80	954.96	10.25	-81.61	81.97	1.86	1.84	1.32
1,055.00	14.75	273.67	1,046.26	11.70	-103.91	104.30	2.13	2.13	-0.14
1,150.00	15.50	271.05	1,137.97	12.71	-128.67	129.09	1.07	0.79	-2.76
1,245.00	15.75	270.55	1,229.46	13.06	-154.25	154.66	0.30	0.26	-0.53
1,341.00	16.44	268.80	1,321.69	12.90	-180.86	181.24	0.88	0.72	-1.82
1,436.00	17.19	271.17	1,412.63	12.91	-208.34	208.70	1.07	0.79	2.49
1,530.00	18.56	270.42	1,502.09	13.30	-237.19	237.54	1.48	1.46	-0.80
1,624.00	20.56	271.80	1,590.66	13.93	-268.65	269.00	2.18	2.13	1.47
1,720.00	21.19	267.42	1,680.37	13.68	-302.83	303.14	1.75	0.66	-4.56
1,814.00	21.69	269.05	1,767.86	12.63	-337.17	337.40	0.83	0.53	1.73
1,909.00	22.19	270.17	1,855.98	12.39	-372.66	372.86	0.69	0.53	1.18
2,005.00	19.88	271.80	1,945.58	12.95	-407.11	407.30	2.48	-2.41	1.70
2,100.00	19.50	271.80	2,035.03	13.96	-439.10	439.30	0.40	-0.40	0.00
2,195.00	18.44	273.17	2,124.87	15.29	-469.96	470.18	1.21	-1.12	1.44
2,289.00	17.63	275.92	2,214.25	17.58	-498.96	499.26	1.25	-0.86	2.93
2,384.00	18.06	275.17	2,304.68	20.39	-527.93	528.33	0.51	0.45	-0.79
2,479.00	17.69	273.42	2,395.09	22.58	-557.01	557.47	0.69	-0.39	-1.84
2,575.00	17.38	273.92	2,486.63	24.43	-585.87	586.38	0.36	-0.32	0.52
2,595.00	17.37	274.01	2,505.72	24.84	-591.83	592.35	0.14	-0.05	0.45
LAST WEATHERFORD SURFACE MWD SURVEY									
2,706.00	15.83	270.04	2,612.09	26.01	-623.50	624.04	1.72	-1.39	-3.58
FIRST SDI MWD PRODUCTION SURVEY									
2,796.00	14.65	269.11	2,698.93	25.84	-647.16	647.67	1.34	-1.31	-1.03
2,887.00	15.15	281.51	2,786.89	28.04	-670.32	670.91	3.54	0.55	13.63
2,977.00	15.60	287.93	2,873.67	34.11	-693.36	694.18	1.96	0.50	7.13
3,068.00	17.79	288.68	2,960.83	42.33	-718.18	719.32	2.42	2.41	0.82
3,158.00	17.67	293.75	3,046.56	52.23	-743.70	745.24	1.72	-0.13	5.63
3,249.00	19.11	289.91	3,132.92	62.87	-770.35	772.31	2.07	1.58	-4.22
3,340.00	17.15	288.82	3,219.40	72.27	-797.06	799.39	2.19	-2.15	-1.20
3,430.00	16.64	285.05	3,305.51	79.90	-822.07	824.69	1.34	-0.57	-4.19
3,521.00	16.11	281.10	3,392.82	85.71	-847.04	849.89	1.35	-0.58	-4.34
3,611.00	15.03	279.11	3,479.52	89.97	-870.81	873.82	1.34	-1.20	-2.21
3,702.00	14.33	279.93	3,567.55	93.78	-893.56	896.70	0.80	-0.77	0.90
3,792.00	16.10	273.25	3,654.40	96.40	-916.99	920.23	2.77	1.97	-7.42
3,883.00	14.20	270.59	3,742.23	97.23	-940.75	944.00	2.22	-2.09	-2.92
3,974.00	15.07	261.72	3,830.29	95.65	-963.62	966.79	2.64	0.96	-9.75
4,064.00	14.38	260.83	3,917.33	92.18	-986.24	989.23	0.81	-0.77	-0.99
4,155.00	14.16	266.84	4,005.53	89.76	-1,008.51	1,011.38	1.65	-0.24	6.60
4,245.00	14.15	263.75	4,092.80	87.96	-1,030.43	1,033.22	0.84	-0.01	-3.43
4,336.00	12.34	269.25	4,181.38	86.62	-1,051.22	1,053.92	2.42	-1.99	6.04
4,427.00	14.10	271.86	4,269.97	86.85	-1,072.02	1,074.72	2.04	1.93	2.87
4,517.00	14.47	266.14	4,357.19	86.45	-1,094.20	1,096.86	1.62	0.41	-6.36

Company: Kerr McGee Oil and Gas Onshore LP
Project: Uintah County, UT UTM12
Site: NBU 922-29O1 Pad
Well: NBU 922-29N1BS
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well NBU 922-29N1BS
TVD Reference: GL 4926' & KB 14' @ 4940.00ft (ENSIGN 145)
MD Reference: GL 4926' & KB 14' @ 4940.00ft (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)
4,608.00	13.03	262.65	4,445.58	84.38	-1,115.72	1,118.27	1.83	-1.58	-3.84
4,698.00	13.59	258.40	4,533.16	80.95	-1,136.14	1,138.53	1.25	0.62	-4.72
4,789.00	10.75	261.21	4,622.11	77.50	-1,155.00	1,157.23	3.19	-3.12	3.09
4,880.00	11.99	278.65	4,711.35	77.63	-1,172.74	1,174.96	4.00	1.36	19.16
4,970.00	11.07	278.82	4,799.53	80.36	-1,190.52	1,192.84	1.02	-1.02	0.19
5,061.00	12.99	275.19	4,888.53	82.62	-1,209.34	1,211.74	2.27	2.11	-3.99
5,151.00	15.30	269.69	4,975.80	83.48	-1,231.29	1,233.71	2.97	2.57	-6.11
5,242.00	16.15	262.73	5,063.40	81.81	-1,255.85	1,258.18	2.27	0.93	-7.65
5,333.00	15.03	262.41	5,151.05	78.65	-1,280.10	1,282.28	1.23	-1.23	-0.35
5,423.00	14.65	258.64	5,238.05	74.87	-1,302.83	1,304.82	1.15	-0.42	-4.19
5,514.00	13.05	258.05	5,326.40	70.47	-1,324.17	1,325.96	1.77	-1.76	-0.65
5,604.00	11.86	255.92	5,414.28	66.12	-1,343.08	1,344.67	1.42	-1.32	-2.37
5,695.00	10.08	260.37	5,503.62	62.51	-1,360.00	1,361.43	2.16	-1.96	4.89
5,785.00	9.46	259.18	5,592.31	59.80	-1,375.03	1,376.33	0.72	-0.69	-1.32
5,876.00	8.85	260.40	5,682.15	57.23	-1,389.28	1,390.46	0.70	-0.67	1.34
5,967.00	8.60	259.01	5,772.10	54.77	-1,402.86	1,403.92	0.36	-0.27	-1.53
6,057.00	6.59	252.48	5,861.31	51.93	-1,414.39	1,415.33	2.43	-2.23	-7.26
6,148.00	6.12	250.00	5,951.75	48.70	-1,423.93	1,424.72	0.60	-0.52	-2.73
6,238.00	4.80	245.71	6,041.34	45.51	-1,431.87	1,432.52	1.53	-1.47	-4.77
6,329.00	3.46	234.62	6,132.10	42.35	-1,437.58	1,438.09	1.71	-1.47	-12.19
6,419.00	2.31	223.29	6,221.99	39.46	-1,441.04	1,441.43	1.42	-1.28	-12.59
6,510.00	0.68	149.38	6,312.96	37.66	-1,442.02	1,442.33	2.44	-1.79	-81.22
6,601.00	0.84	147.76	6,403.95	36.63	-1,441.39	1,441.66	0.18	0.18	-1.78
6,691.00	0.63	113.30	6,493.94	35.88	-1,440.58	1,440.82	0.53	-0.23	-38.29
6,782.00	0.85	131.69	6,584.93	35.23	-1,439.62	1,439.83	0.35	0.24	20.21
6,872.00	1.16	92.64	6,674.92	34.74	-1,438.21	1,438.40	0.81	0.34	-43.39
6,963.00	1.28	86.39	6,765.90	34.77	-1,436.28	1,436.47	0.20	0.13	-6.87
7,054.00	1.17	308.75	6,856.89	35.41	-1,435.99	1,436.21	2.51	-0.12	-151.25
7,144.00	0.93	291.57	6,946.88	36.26	-1,437.38	1,437.64	0.44	-0.27	-19.09
7,235.00	0.92	261.11	7,037.87	36.41	-1,438.79	1,439.05	0.53	-0.01	-33.47
7,325.00	0.80	250.71	7,127.86	36.09	-1,440.10	1,440.35	0.22	-0.13	-11.56
7,416.00	0.40	215.95	7,218.85	35.63	-1,440.88	1,441.11	0.58	-0.44	-38.20
7,506.00	0.27	37.63	7,308.85	35.54	-1,440.94	1,441.16	0.74	-0.14	-198.13
7,597.00	0.77	16.12	7,399.85	36.30	-1,440.64	1,440.89	0.58	0.55	-23.64
7,688.00	0.84	21.03	7,490.84	37.51	-1,440.23	1,440.54	0.11	0.08	5.40
7,778.00	0.57	45.76	7,580.83	38.44	-1,439.67	1,440.02	0.45	-0.30	27.48
7,869.00	0.65	93.14	7,671.83	38.72	-1,438.83	1,439.19	0.54	0.09	52.07
7,959.00	1.27	112.89	7,761.81	38.31	-1,437.40	1,437.75	0.77	0.69	21.94
8,050.00	1.50	122.51	7,852.79	37.28	-1,435.47	1,435.77	0.36	0.25	10.57
8,141.00	2.45	98.68	7,943.73	36.34	-1,432.54	1,432.81	1.36	1.04	-26.19
8,231.00	1.95	92.10	8,033.67	36.00	-1,429.11	1,429.36	0.62	-0.56	-7.31
8,322.00	1.75	62.58	8,124.62	36.58	-1,426.33	1,426.61	1.06	-0.22	-32.44
8,412.00	1.15	67.34	8,214.59	37.56	-1,424.28	1,424.60	0.68	-0.67	5.29
8,503.00	0.52	67.06	8,305.58	38.07	-1,423.05	1,423.40	0.69	-0.69	-0.31

Company: Kerr McGee Oil and Gas Onshore LP
Project: Uintah County, UT UTM12
Site: NBU 922-29O1 Pad
Well: NBU 922-29N1BS
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well NBU 922-29N1BS
TVD Reference: GL 4926' & KB 14' @ 4940.00ft (ENSGN 145)
MD Reference: GL 4926' & KB 14' @ 4940.00ft (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)	
8,594.00	0.82	44.99	8,396.58	38.69	-1,422.21	1,422.59	0.43	0.33	-24.25	
8,684.00	1.05	56.37	8,486.56	39.61	-1,421.07	1,421.48	0.33	0.26	12.64	
8,775.00	0.94	50.43	8,577.55	40.54	-1,419.80	1,420.25	0.17	-0.12	-6.53	
8,867.00	0.71	243.30	8,669.55	40.77	-1,419.73	1,420.19	1.78	-0.25	-181.66	
8,958.00	0.89	204.69	8,760.54	39.87	-1,420.53	1,420.95	0.61	0.20	-42.43	
9,049.00	1.21	182.10	8,851.52	38.27	-1,420.86	1,421.21	0.57	0.35	-24.82	
9,139.00	1.00	189.52	8,941.51	36.55	-1,421.02	1,421.31	0.28	-0.23	8.24	
9,230.00	1.33	189.86	9,032.49	34.72	-1,421.34	1,421.54	0.36	0.36	0.37	
9,320.00	1.29	207.46	9,122.46	32.79	-1,421.98	1,422.11	0.45	-0.04	19.56	
9,411.00	1.07	175.91	9,213.45	31.04	-1,422.39	1,422.44	0.74	-0.24	-34.67	
9,486.00	1.16	147.80	9,288.43	29.70	-1,421.94	1,421.93	0.73	0.12	-37.48	
LAST SDI MWD PRODUCTION SURVEY										
9,542.00	1.16	126.81	9,344.42	28.88	-1,421.18	1,421.14	0.75	0.00	-37.48	
SDI PROJECTION TO TD										

Design Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment	
		+N/-S (ft)	+E/-W (ft)		
204.00	204.00	0.33	0.29	FIRST WEATHERFORD SURFACE MWD SURVEY	
2,595.00	2,505.72	24.84	-591.83	LAST WEATHERFORD SURFACE MWD SURVEY	
2,706.00	2,612.09	26.01	-623.50	FIRST SDI MWD PRODUCTION SURVEY	
9,486.00	9,288.43	29.70	-1,421.94	LAST SDI MWD PRODUCTION SURVEY	
9,542.00	9,344.42	28.88	-1,421.18	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 922-29O1 Pad
NBU 922-29N1BS**

OH

Design: OH

Survey Report - Geographic

21 December, 2010

Company: Kerr McGee Oil and Gas Onshore LP
Project: Uintah County, UT UTM12
Site: NBU 922-29O1 Pad
Well: NBU 922-29N1BS
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well NBU 922-29N1BS
TVD Reference: GL 4926' & KB 14' @ 4940.00ft (ENSIGN 145)
MD Reference: GL 4926' & KB 14' @ 4940.00ft (ENSIGN 145)
North Reference: True
Survey Calculation Method: Minimum Curvature
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 922-29O1 Pad, SEC 29 T9S R22E				
Site Position:		Northing:	14,530,756.71 usft	Latitude:	40° 0' 9.718 N
From:	Lat/Long	Easting:	2,071,875.82 usft	Longitude:	109° 27' 33.722 W
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence:	0.99 °

Well	NBU 922-29N1BS, 1050' FSL 1596' FEL					
Well Position	+N/-S	0.00 ft	Northing:	14,530,757.47 usft	Latitude:	40° 0' 9.729 N
	+E/-W	0.00 ft	Easting:	2,071,855.69 usft	Longitude:	109° 27' 33.980 W
Position Uncertainty	0.00 ft		Wellhead Elevation:	ft	Ground Level:	4,926.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	12/06/2010	11.13	65.89	52,389

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	272.40	

Survey Program	Date	12/21/2010			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
5.00	2,595.00	Survey #1 Weatherford Surface MWD (OH)	MWD	MWD - Standard	
2,706.00	9,542.00	Survey #2 SDI MWD Production (OH)	MWD SDI	MWD - Standard ver 1.0.1	

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.00	0.00	0.00	0.00	0.00	0.00	14,530,757.47	2,071,855.69	40° 0' 9.729 N	109° 27' 33.980 W
5.00	0.00	0.00	5.00	0.00	0.00	14,530,757.47	2,071,855.69	40° 0' 9.729 N	109° 27' 33.980 W
204.00	0.25	41.05	204.00	0.33	0.29	14,530,757.81	2,071,855.97	40° 0' 9.732 N	109° 27' 33.977 W
FIRST WEATHERFORD SURFACE MWD SURVEY									
295.00	1.92	303.14	294.98	1.31	-0.86	14,530,758.77	2,071,854.81	40° 0' 9.742 N	109° 27' 33.991 W
389.00	2.94	278.30	388.90	2.52	-4.57	14,530,759.91	2,071,851.09	40° 0' 9.754 N	109° 27' 34.039 W
485.00	4.69	282.67	484.68	3.74	-10.83	14,530,761.02	2,071,844.80	40° 0' 9.766 N	109° 27' 34.120 W
580.00	6.44	279.17	579.23	5.44	-19.88	14,530,762.57	2,071,835.72	40° 0' 9.783 N	109° 27' 34.236 W
676.00	7.63	275.30	674.51	6.88	-31.54	14,530,763.81	2,071,824.04	40° 0' 9.797 N	109° 27' 34.386 W
771.00	9.25	274.80	768.48	8.11	-45.43	14,530,764.79	2,071,810.13	40° 0' 9.809 N	109° 27' 34.564 W
866.00	11.00	272.55	861.99	9.15	-62.10	14,530,765.55	2,071,793.45	40° 0' 9.819 N	109° 27' 34.778 W

Company: Kerr McGee Oil and Gas Onshore LP
Project: Uintah County, UT UTM12
Site: NBU 922-29O1 Pad
Well: NBU 922-29N1BS
Wellbore: OH
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Local Co-ordinate Reference: Well NBU 922-29N1BS
TVD Reference: GL 4926' & KB 14' @ 4940.00ft (ENSGN 145)
MD Reference: GL 4926' & KB 14' @ 4940.00ft (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	
961.00	12.75	273.80	954.96	10.25	-81.61	14,530,766.31	2,071,773.92	40° 0' 9.830 N	109° 27' 35.029 W	
1,055.00	14.75	273.67	1,046.26	11.70	-103.91	14,530,767.37	2,071,751.60	40° 0' 9.845 N	109° 27' 35.316 W	
1,150.00	15.50	271.05	1,137.97	12.71	-128.67	14,530,767.95	2,071,726.83	40° 0' 9.855 N	109° 27' 35.634 W	
1,245.00	15.75	270.55	1,229.46	13.06	-154.25	14,530,767.87	2,071,701.24	40° 0' 9.858 N	109° 27' 35.963 W	
1,341.00	16.44	268.80	1,321.69	12.90	-180.86	14,530,767.25	2,071,674.64	40° 0' 9.857 N	109° 27' 36.305 W	
1,436.00	17.19	271.17	1,412.63	12.91	-208.34	14,530,766.78	2,071,647.16	40° 0' 9.857 N	109° 27' 36.658 W	
1,530.00	18.56	270.42	1,502.09	13.30	-237.19	14,530,766.67	2,071,618.31	40° 0' 9.860 N	109° 27' 37.029 W	
1,624.00	20.56	271.80	1,590.66	13.93	-268.65	14,530,766.76	2,071,586.85	40° 0' 9.867 N	109° 27' 37.433 W	
1,720.00	21.19	267.42	1,680.37	13.68	-302.83	14,530,765.91	2,071,552.67	40° 0' 9.864 N	109° 27' 37.872 W	
1,814.00	21.69	269.05	1,767.86	12.63	-337.17	14,530,764.27	2,071,518.36	40° 0' 9.854 N	109° 27' 38.314 W	
1,909.00	22.19	270.17	1,855.98	12.39	-372.66	14,530,763.42	2,071,482.87	40° 0' 9.851 N	109° 27' 38.770 W	
2,005.00	19.88	271.80	1,945.58	12.95	-407.11	14,530,763.39	2,071,448.42	40° 0' 9.857 N	109° 27' 39.213 W	
2,100.00	19.50	271.80	2,035.03	13.96	-439.10	14,530,763.84	2,071,416.42	40° 0' 9.867 N	109° 27' 39.624 W	
2,195.00	18.44	273.17	2,124.87	15.29	-469.96	14,530,764.63	2,071,385.55	40° 0' 9.880 N	109° 27' 40.020 W	
2,289.00	17.63	275.92	2,214.25	17.58	-498.96	14,530,766.42	2,071,356.51	40° 0' 9.903 N	109° 27' 40.393 W	
2,384.00	18.06	275.17	2,304.68	20.39	-527.93	14,530,768.73	2,071,327.49	40° 0' 9.930 N	109° 27' 40.766 W	
2,479.00	17.69	273.42	2,395.09	22.58	-557.01	14,530,770.42	2,071,298.38	40° 0' 9.952 N	109° 27' 41.139 W	
2,575.00	17.38	273.92	2,486.63	24.43	-585.87	14,530,771.77	2,071,269.49	40° 0' 9.970 N	109° 27' 41.510 W	
2,595.00	17.37	274.01	2,505.72	24.84	-591.83	14,530,772.08	2,071,263.52	40° 0' 9.974 N	109° 27' 41.587 W	
LAST WEATHERFORD SURFACE MWD SURVEY										
2,706.00	15.83	270.04	2,612.09	26.01	-623.50	14,530,772.70	2,071,231.84	40° 0' 9.986 N	109° 27' 41.994 W	
FIRST SDI MWD PRODUCTION SURVEY										
2,796.00	14.65	269.11	2,698.93	25.84	-647.16	14,530,772.12	2,071,208.19	40° 0' 9.984 N	109° 27' 42.298 W	
2,887.00	15.15	281.51	2,786.89	28.04	-670.32	14,530,773.92	2,071,184.99	40° 0' 10.006 N	109° 27' 42.596 W	
2,977.00	15.60	287.93	2,873.67	34.11	-693.36	14,530,779.59	2,071,161.85	40° 0' 10.066 N	109° 27' 42.892 W	
3,068.00	17.79	288.68	2,960.83	42.33	-718.18	14,530,787.38	2,071,136.90	40° 0' 10.147 N	109° 27' 43.211 W	
3,158.00	17.67	293.75	3,046.56	52.23	-743.70	14,530,796.84	2,071,111.20	40° 0' 10.245 N	109° 27' 43.539 W	
3,249.00	19.11	289.91	3,132.92	62.87	-770.35	14,530,807.02	2,071,084.37	40° 0' 10.350 N	109° 27' 43.881 W	
3,340.00	17.15	288.82	3,219.40	72.27	-797.06	14,530,815.96	2,071,057.50	40° 0' 10.443 N	109° 27' 44.224 W	
3,430.00	16.64	285.05	3,305.51	79.90	-822.07	14,530,823.15	2,071,032.37	40° 0' 10.519 N	109° 27' 44.546 W	
3,521.00	16.11	281.10	3,392.82	85.71	-847.04	14,530,828.53	2,071,007.30	40° 0' 10.576 N	109° 27' 44.867 W	
3,611.00	15.03	279.11	3,479.52	89.97	-870.81	14,530,832.37	2,070,983.46	40° 0' 10.618 N	109° 27' 45.172 W	
3,702.00	14.33	279.93	3,567.55	93.78	-893.56	14,530,835.79	2,070,960.65	40° 0' 10.656 N	109° 27' 45.465 W	
3,792.00	16.10	273.25	3,654.40	96.40	-916.99	14,530,838.01	2,070,937.17	40° 0' 10.682 N	109° 27' 45.766 W	
3,883.00	14.20	270.59	3,742.23	97.23	-940.75	14,530,838.43	2,070,913.40	40° 0' 10.690 N	109° 27' 46.071 W	
3,974.00	15.07	261.72	3,830.29	95.65	-963.62	14,530,836.45	2,070,890.56	40° 0' 10.674 N	109° 27' 46.365 W	
4,064.00	14.38	260.83	3,917.33	92.18	-986.24	14,530,832.59	2,070,868.02	40° 0' 10.640 N	109° 27' 46.656 W	
4,155.00	14.16	266.84	4,005.53	89.76	-1,008.51	14,530,829.79	2,070,845.79	40° 0' 10.616 N	109° 27' 46.942 W	
4,245.00	14.15	263.75	4,092.80	87.96	-1,030.43	14,530,827.61	2,070,823.90	40° 0' 10.598 N	109° 27' 47.224 W	
4,336.00	12.34	269.25	4,181.38	86.62	-1,051.22	14,530,825.91	2,070,803.14	40° 0' 10.585 N	109° 27' 47.491 W	
4,427.00	14.10	271.86	4,269.97	86.85	-1,072.02	14,530,825.78	2,070,782.34	40° 0' 10.587 N	109° 27' 47.758 W	
4,517.00	14.47	266.14	4,357.19	86.45	-1,094.20	14,530,825.00	2,070,760.17	40° 0' 10.583 N	109° 27' 48.043 W	
4,608.00	13.03	262.65	4,445.58	84.38	-1,115.72	14,530,822.55	2,070,738.69	40° 0' 10.563 N	109° 27' 48.320 W	
4,698.00	13.59	258.40	4,533.16	80.95	-1,136.14	14,530,818.77	2,070,718.33	40° 0' 10.529 N	109° 27' 48.582 W	
4,789.00	10.75	261.21	4,622.11	77.50	-1,155.00	14,530,815.00	2,070,699.53	40° 0' 10.495 N	109° 27' 48.825 W	
4,880.00	11.99	278.65	4,711.35	77.63	-1,172.74	14,530,814.82	2,070,681.79	40° 0' 10.496 N	109° 27' 49.053 W	
4,970.00	11.07	278.82	4,799.53	80.36	-1,190.52	14,530,817.24	2,070,663.97	40° 0' 10.523 N	109° 27' 49.281 W	
5,061.00	12.99	275.19	4,888.53	82.62	-1,209.34	14,530,819.18	2,070,645.11	40° 0' 10.545 N	109° 27' 49.523 W	
5,151.00	15.30	269.69	4,975.80	83.48	-1,231.29	14,530,819.65	2,070,623.15	40° 0' 10.554 N	109° 27' 49.805 W	
5,242.00	16.15	262.73	5,063.40	81.81	-1,255.85	14,530,817.56	2,070,598.62	40° 0' 10.537 N	109° 27' 50.121 W	
5,333.00	15.03	262.41	5,151.05	78.65	-1,280.10	14,530,813.98	2,070,574.42	40° 0' 10.506 N	109° 27' 50.433 W	
5,423.00	14.65	258.64	5,238.05	74.87	-1,302.83	14,530,809.81	2,070,551.77	40° 0' 10.469 N	109° 27' 50.725 W	
5,514.00	13.05	258.05	5,326.40	70.47	-1,324.17	14,530,805.04	2,070,530.51	40° 0' 10.425 N	109° 27' 50.999 W	
5,604.00	11.86	255.92	5,414.28	66.12	-1,343.08	14,530,800.36	2,070,511.68	40° 0' 10.382 N	109° 27' 51.242 W	
5,695.00	10.08	260.37	5,503.62	62.51	-1,360.00	14,530,796.46	2,070,494.82	40° 0' 10.346 N	109° 27' 51.459 W	

Company: Kerr McGee Oil and Gas Onshore LP
Project: Uintah County, UT UTM12
Site: NBU 922-29O1 Pad
Well: NBU 922-29N1BS
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well NBU 922-29N1BS
TVD Reference: GL 4926' & KB 14' @ 4940.00ft (ENSIGN 145)
MD Reference: GL 4926' & KB 14' @ 4940.00ft (ENSIGN 145)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM5000-RobertS-Local

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
5,785.00	9.46	259.18	5,592.31	59.80	-1,375.03	14,530,793.50	2,070,479.84	40° 0' 10.320 N	109° 27' 51.653 W
5,876.00	8.85	260.40	5,682.15	57.23	-1,389.28	14,530,790.68	2,070,465.64	40° 0' 10.294 N	109° 27' 51.836 W
5,967.00	8.60	259.01	5,772.10	54.77	-1,402.86	14,530,787.98	2,070,452.10	40° 0' 10.270 N	109° 27' 52.010 W
6,057.00	6.59	252.48	5,861.31	51.93	-1,414.39	14,530,784.94	2,070,440.62	40° 0' 10.242 N	109° 27' 52.159 W
6,148.00	6.12	250.00	5,951.75	48.70	-1,423.93	14,530,781.55	2,070,431.14	40° 0' 10.210 N	109° 27' 52.281 W
6,238.00	4.80	245.71	6,041.34	45.51	-1,431.87	14,530,778.22	2,070,423.25	40° 0' 10.178 N	109° 27' 52.383 W
6,329.00	3.46	234.62	6,132.10	42.35	-1,437.58	14,530,774.97	2,070,417.60	40° 0' 10.147 N	109° 27' 52.457 W
6,419.00	2.31	223.29	6,221.99	39.46	-1,441.04	14,530,772.02	2,070,414.19	40° 0' 10.119 N	109° 27' 52.501 W
6,510.00	0.68	149.38	6,312.96	37.66	-1,442.02	14,530,770.20	2,070,413.24	40° 0' 10.101 N	109° 27' 52.514 W
6,601.00	0.84	147.76	6,403.95	36.63	-1,441.39	14,530,769.18	2,070,413.89	40° 0' 10.091 N	109° 27' 52.505 W
6,691.00	0.63	113.30	6,493.94	35.88	-1,440.58	14,530,768.44	2,070,414.71	40° 0' 10.083 N	109° 27' 52.495 W
6,782.00	0.85	131.69	6,584.93	35.23	-1,439.62	14,530,767.81	2,070,415.68	40° 0' 10.077 N	109° 27' 52.483 W
6,872.00	1.16	92.64	6,674.92	34.74	-1,438.21	14,530,767.35	2,070,417.10	40° 0' 10.072 N	109° 27' 52.465 W
6,963.00	1.28	86.39	6,765.90	34.77	-1,436.28	14,530,767.41	2,070,419.03	40° 0' 10.072 N	109° 27' 52.440 W
7,054.00	1.17	308.75	6,856.89	35.41	-1,435.99	14,530,768.06	2,070,419.31	40° 0' 10.079 N	109° 27' 52.436 W
7,144.00	0.93	291.57	6,946.88	36.26	-1,437.38	14,530,768.88	2,070,417.90	40° 0' 10.087 N	109° 27' 52.454 W
7,235.00	0.92	261.11	7,037.87	36.41	-1,438.79	14,530,769.01	2,070,416.49	40° 0' 10.089 N	109° 27' 52.472 W
7,325.00	0.80	250.71	7,127.86	36.09	-1,440.10	14,530,768.67	2,070,415.19	40° 0' 10.085 N	109° 27' 52.489 W
7,416.00	0.40	215.95	7,218.85	35.63	-1,440.88	14,530,768.19	2,070,414.41	40° 0' 10.081 N	109° 27' 52.499 W
7,506.00	0.27	37.63	7,308.85	35.54	-1,440.94	14,530,768.10	2,070,414.36	40° 0' 10.080 N	109° 27' 52.500 W
7,597.00	0.77	16.12	7,399.85	36.30	-1,440.64	14,530,768.86	2,070,414.65	40° 0' 10.087 N	109° 27' 52.496 W
7,688.00	0.84	21.03	7,490.84	37.51	-1,440.23	14,530,770.08	2,070,415.03	40° 0' 10.099 N	109° 27' 52.491 W
7,778.00	0.57	45.76	7,580.83	38.44	-1,439.67	14,530,771.02	2,070,415.58	40° 0' 10.108 N	109° 27' 52.483 W
7,869.00	0.65	93.14	7,671.83	38.72	-1,438.83	14,530,771.32	2,070,416.41	40° 0' 10.111 N	109° 27' 52.473 W
7,959.00	1.27	112.89	7,761.81	38.31	-1,437.40	14,530,770.93	2,070,417.85	40° 0' 10.107 N	109° 27' 52.454 W
8,050.00	1.50	122.51	7,852.79	37.28	-1,435.47	14,530,769.93	2,070,419.80	40° 0' 10.097 N	109° 27' 52.429 W
8,141.00	2.45	98.68	7,943.73	36.34	-1,432.54	14,530,769.05	2,070,422.74	40° 0' 10.088 N	109° 27' 52.392 W
8,231.00	1.95	92.10	8,033.67	36.00	-1,429.11	14,530,768.76	2,070,426.18	40° 0' 10.084 N	109° 27' 52.348 W
8,322.00	1.75	62.58	8,124.62	36.58	-1,426.33	14,530,769.39	2,070,428.95	40° 0' 10.090 N	109° 27' 52.312 W
8,412.00	1.15	67.34	8,214.59	37.56	-1,424.28	14,530,770.41	2,070,430.98	40° 0' 10.100 N	109° 27' 52.286 W
8,503.00	0.52	67.06	8,305.58	38.07	-1,423.05	14,530,770.94	2,070,432.20	40° 0' 10.105 N	109° 27' 52.270 W
8,594.00	0.82	44.99	8,396.58	38.69	-1,422.21	14,530,771.58	2,070,433.03	40° 0' 10.111 N	109° 27' 52.259 W
8,684.00	1.05	56.37	8,486.56	39.61	-1,421.07	14,530,772.51	2,070,434.15	40° 0' 10.120 N	109° 27' 52.244 W
8,775.00	0.94	50.43	8,577.55	40.54	-1,419.80	14,530,773.47	2,070,435.41	40° 0' 10.129 N	109° 27' 52.228 W
8,867.00	0.71	243.30	8,669.55	40.77	-1,419.73	14,530,773.69	2,070,435.48	40° 0' 10.132 N	109° 27' 52.227 W
8,958.00	0.89	204.69	8,760.54	39.87	-1,420.53	14,530,772.78	2,070,434.69	40° 0' 10.123 N	109° 27' 52.237 W
9,049.00	1.21	182.10	8,851.52	38.27	-1,420.86	14,530,771.18	2,070,434.39	40° 0' 10.107 N	109° 27' 52.242 W
9,139.00	1.00	189.52	8,941.51	36.55	-1,421.02	14,530,769.45	2,070,434.25	40° 0' 10.090 N	109° 27' 52.244 W
9,230.00	1.33	189.86	9,032.49	34.72	-1,421.34	14,530,767.62	2,070,433.97	40° 0' 10.072 N	109° 27' 52.248 W
9,320.00	1.29	207.46	9,122.46	32.79	-1,421.98	14,530,765.68	2,070,433.36	40° 0' 10.053 N	109° 27' 52.256 W
9,411.00	1.07	175.91	9,213.45	31.04	-1,422.39	14,530,763.92	2,070,432.98	40° 0' 10.035 N	109° 27' 52.261 W
9,486.00	1.16	147.80	9,288.43	29.70	-1,421.94	14,530,762.58	2,070,433.46	40° 0' 10.022 N	109° 27' 52.255 W
LAST SDI MWD PRODUCTION SURVEY									
9,542.00	1.16	126.81	9,344.42	28.88	-1,421.18	14,530,761.78	2,070,434.23	40° 0' 10.014 N	109° 27' 52.246 W
SDI PROJECTION TO TD									

Company: Kerr McGee Oil and Gas Onshore LP
Project: Uintah County, UT UTM12
Site: NBU 922-29O1 Pad
Well: NBU 922-29N1BS
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well NBU 922-29N1BS
TVD Reference: GL 4926' & KB 14' @ 4940.00ft (ENSIGN 145)
MD Reference: GL 4926' & KB 14' @ 4940.00ft (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)	
204.00	204.00	0.33	0.29	FIRST WEATHERFORD SURFACE MWD SURVEY
2,595.00	2,505.72	24.84	-591.83	LAST WEATHERFORD SURFACE MWD SURVEY
2,706.00	2,612.09	26.01	-623.50	FIRST SDI MWD PRODUCTION SURVEY
9,486.00	9,288.43	29.70	-1,421.94	LAST SDI MWD PRODUCTION SURVEY
9,542.00	9,344.42	28.88	-1,421.18	SDI PROJECTION TO TD

Checked By: _____ Approved By: _____ Date: _____