

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 922-36L3DS
2. TYPE OF WORK DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>		3. FIELD OR WILDCAT NATURAL BUTTES
4. TYPE OF WELL Gas Well Coalbed Methane Well: NO		5. UNIT or COMMUNITIZATION AGREEMENT NAME NATURAL BUTTES
6. NAME OF OPERATOR KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. OPERATOR PHONE 720 929-6587
8. ADDRESS OF OPERATOR P.O. Box 173779, Denver, CO, 80217		9. OPERATOR E-MAIL mary.mondragon@anadarko.com
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) ML 22650	11. MINERAL 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')		12. SURFACE OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')		14. SURFACE OWNER PHONE (if box 12 = 'fee')
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')		16. SURFACE OWNER E-MAIL (if box 12 = 'fee')
18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input checked="" type="checkbox"/> (Submit Commingling Application) NO <input type="checkbox"/>		19. SLANT VERTICAL <input type="checkbox"/> DIRECTIONAL <input checked="" type="checkbox"/> HORIZONTAL <input type="checkbox"/>

20. LOCATION OF WELL	FOOTAGES	QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN
LOCATION AT SURFACE	539 FSL 393 FWL	SWSW	36	9.0 S	22.0 E	S
Top of Uppermost Producing Zone	1380 FSL 385 FWL	NWSW	36	9.0 S	22.0 E	S
At Total Depth	1380 FSL 385 FWL	NWSW	36	9.0 S	22.0 E	S

21. COUNTY UINTAH	22. DISTANCE TO NEAREST LEASE LINE (Feet) 385	23. NUMBER OF ACRES IN DRILLING UNIT 203
	25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 775	26. PROPOSED DEPTH MD: 8768 TVD: 8600
27. ELEVATION - GROUND LEVEL 4968	28. BOND NUMBER 22013542	29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE Permit #43-8496

ATTACHMENTS

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

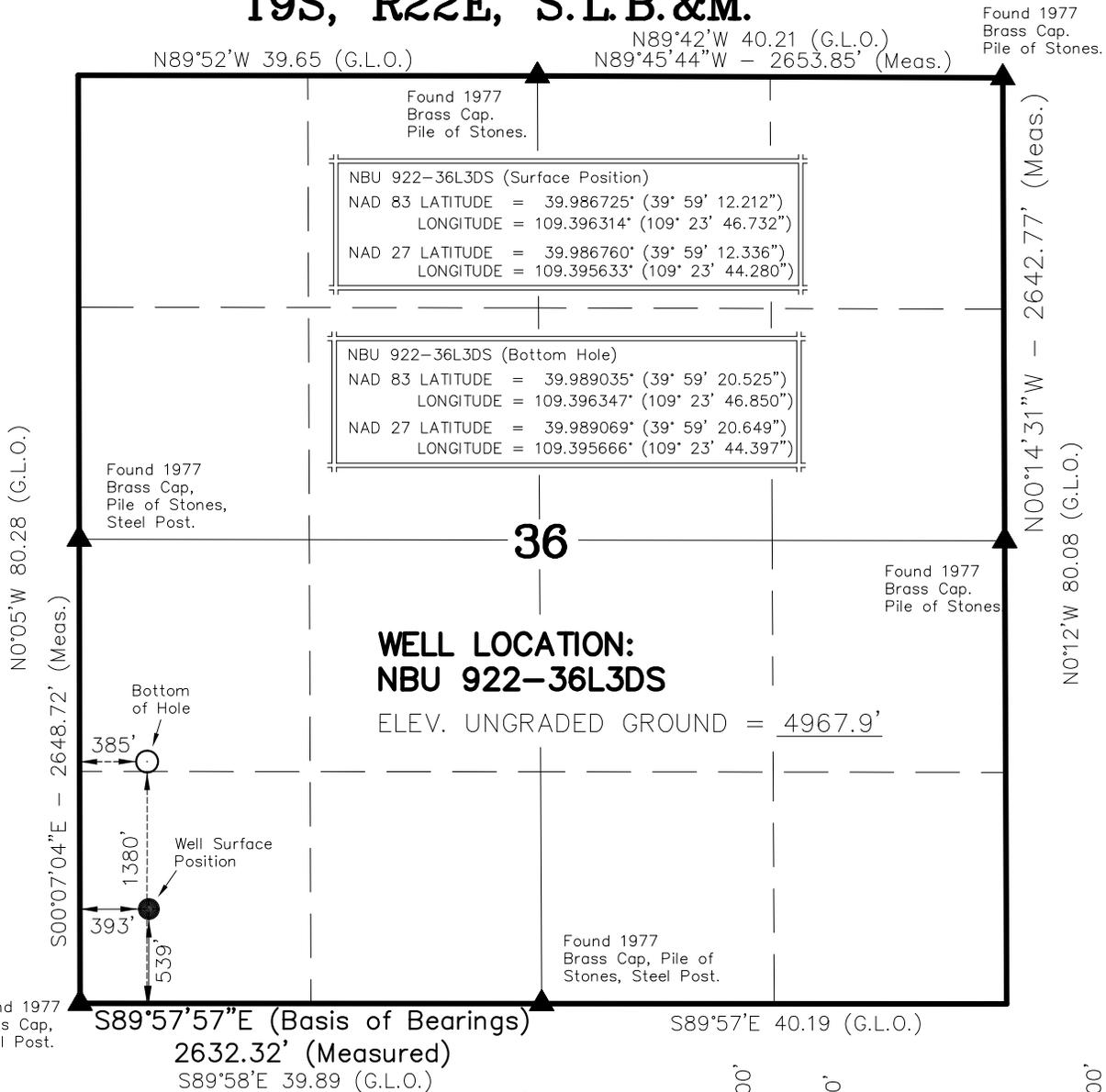
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER	<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN
<input type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)	<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN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

NAME Kathy Schneebeck-Dulnoan	TITLE Staff Regulatory Analyst	PHONE 720 929-6007
SIGNATURE	DATE 04/23/2009	EMAIL Kathy.SchneebeckDulnoan@anadarko.com
API NUMBER ASSIGNED 43047503690000	APPROVAL  Permit Manager	

Proposed Hole, Casing, and Cement						
String	Hole Size	Casing Size	Top (MD)	Bottom (MD)		
Prod	7.875	4.5	0	8768		
Pipe	Grade	Length	Weight			
	Grade N-80 LT&C	8768	11.6			

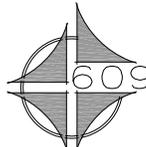
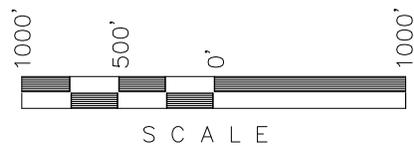
Proposed Hole, Casing, and Cement						
String	Hole Size	Casing Size	Top (MD)	Bottom (MD)		
Surf	12.25	9.625	0	2150		
Pipe	Grade	Length	Weight			
	Grade J-55 LT&C	2150	36.0			

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 N00°40'04"W 841.53' 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.

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

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

NBU 922-36L3DS
WELL PLAT
1380' FSL, 385' FWL (Bottom Hole)
NW ¼ SW ¼ OF SECTION 36, 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 (435) 789-1365
ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

DATE SURVEYED: 9-16-08	SURVEYED BY: M.S.B.	SHEET
DATE DRAWN: 10-3-08	DRAWN BY: E.M.S.	2
SCALE: 1" = 1000'	Date Last Revised: 1-28-09	OF 13



ANADARKO PETROLEUM CORP.

UINTAH COUNTY, UTAH (nad 27)

NBU 922-36M PAD

NBU 922-36L3DS

NBU 922-36L3DS

Plan: Design #1

Standard Planning Report

23 April, 2009



Weatherford®



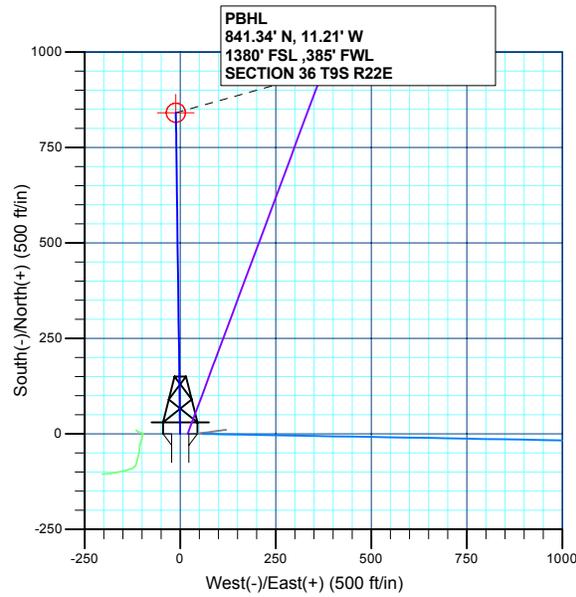
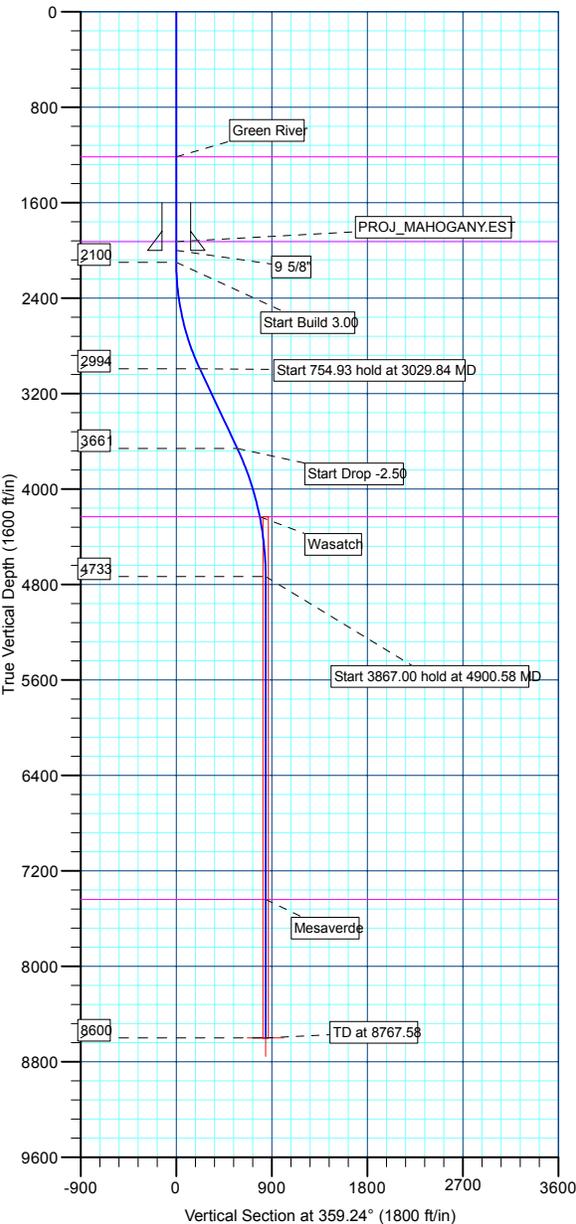
WELL DETAILS: NBU 922-36L3DS						
+N/-S	+E/-W	Northing	Ground Level:	4966.00		
0.00	0.00	14525267.22	Easting	2089830.93	Latitude	Longitude
					39° 59' 12.336 N	109° 23' 44.268 W

WELLBORE TARGET DETAILS (LAT/LONG)						
Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
PBHL	8600.00	841.35	-11.21	39° 59' 20.652 N	109° 23' 44.412 W	Circle (Radius: 25.00)

SECTION DETAILS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2100.00	0.00	0.00	2100.00	0.00	0.00	0.00	0.00	0.00	
3029.84	27.90	359.24	2993.54	221.90	-2.96	3.00	359.24	221.92	
3784.77	27.90	359.24	3660.75	575.07	-7.66	0.00	0.00	575.12	
4900.58	0.00	0.00	4733.00	841.34	-11.21	2.50	180.00	841.42	
8767.58	0.00	0.00	8600.00	841.34	-11.21	0.00	0.00	841.42	PBHL_NBU 922-36L3DS



KB ELEV: WELL @ 4984.00ft (Original Well Elev)
 GRD ELEV: 4966.00



FORMATION TOP DETAILS		
TVDPATH	MDPATH	Formation
1216.00	1216.00	Green River
1927.00	1927.00	PROJ_MAHOGANY.EST
4233.00	4396.53	Wasatch
7441.00	7608.58	Mesaverde

CASING DETAILS			
TVD	MD	Name	Size
2000.00	2000.00	9 5/8"	9.62



Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Well NBU 922-36L3DS
Company:	ANADARKO PETROLEUM CORP.	TVD Reference:	WELL @ 4984.00ft (Original Well Elev)
Project:	UINTAH COUNTY, UTAH (nad 27)	MD Reference:	WELL @ 4984.00ft (Original Well Elev)
Site:	NBU 922-36M PAD	North Reference:	True
Well:	NBU 922-36L3DS	Survey Calculation Method:	Minimum Curvature
Wellbore:	NBU 922-36L3DS		
Design:	Design #1		

Project	UINTAH COUNTY, UTAH (nad 27),		
Map System:	Universal Transverse Mercator (US Survey Fee	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 - Western US		
Map Zone:	Zone 12N (114 W to 108 W)		

Site	NBU 922-36M PAD, SECTION 36 T9SS R22 E				
Site Position:		Northing:	14,525,268.28 ft	Latitude:	39° 59' 12.336 N
From:	Lat/Long	Easting:	2,089,889.76 ft	Longitude:	109° 23' 43.512 W
Position Uncertainty:	0.00 ft	Slot Radius:	in	Grid Convergence:	1.03 °

Well	NBU 922-36L3DS					
Well Position	+N/-S	0.00 ft	Northing:	14,525,267.22 ft	Latitude:	39° 59' 12.336 N
	+E/-W	-58.83 ft	Easting:	2,089,830.93 ft	Longitude:	109° 23' 44.268 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	4,966.00 ft

Wellbore	NBU 922-36L3DS				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2008	1/20/2009	11.36	65.97	52,590

Design	Design #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	359.24

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,029.84	27.90	359.24	2,993.54	221.90	-2.96	3.00	3.00	0.00	359.24	
3,784.77	27.90	359.24	3,660.75	575.07	-7.66	0.00	0.00	0.00	0.00	
4,900.58	0.00	0.00	4,733.00	841.34	-11.21	2.50	-2.50	0.00	180.00	
8,767.58	0.00	0.00	8,600.00	841.34	-11.21	0.00	0.00	0.00	0.00	PBHL_NBU 922-36



Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Well NBU 922-36L3DS
Company:	ANADARKO PETROLEUM CORP.	TVD Reference:	WELL @ 4984.00ft (Original Well Elev)
Project:	UINTAH COUNTY, UTAH (nad 27)	MD Reference:	WELL @ 4984.00ft (Original Well Elev)
Site:	NBU 922-36M PAD	North Reference:	True
Well:	NBU 922-36L3DS	Survey Calculation Method:	Minimum Curvature
Wellbore:	NBU 922-36L3DS		
Design:	Design #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)	
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 3.00										
2,200.00	3.00	359.24	2,199.95	2.62	-0.03	2.62	3.00	3.00	0.00	
2,300.00	6.00	359.24	2,299.63	10.46	-0.14	10.46	3.00	3.00	0.00	
2,400.00	9.00	359.24	2,398.77	23.51	-0.31	23.51	3.00	3.00	0.00	
2,500.00	12.00	359.24	2,497.08	41.73	-0.56	41.74	3.00	3.00	0.00	
2,600.00	15.00	359.24	2,594.31	65.07	-0.87	65.08	3.00	3.00	0.00	
2,700.00	18.00	359.24	2,690.18	93.47	-1.24	93.48	3.00	3.00	0.00	
2,800.00	21.00	359.24	2,784.43	126.84	-1.69	126.85	3.00	3.00	0.00	
2,900.00	24.00	359.24	2,876.81	165.10	-2.20	165.12	3.00	3.00	0.00	
3,000.00	27.00	359.24	2,967.06	208.14	-2.77	208.16	3.00	3.00	0.00	
3,029.84	27.90	359.24	2,993.54	221.90	-2.96	221.92	3.00	3.00	0.00	
Start 754.93 hold at 3029.84 MD										
3,100.00	27.90	359.24	3,055.55	254.72	-3.39	254.74	0.00	0.00	0.00	
3,200.00	27.90	359.24	3,143.93	301.50	-4.02	301.53	0.00	0.00	0.00	
3,300.00	27.90	359.24	3,232.31	348.28	-4.64	348.31	0.00	0.00	0.00	
3,400.00	27.90	359.24	3,320.69	395.06	-5.26	395.10	0.00	0.00	0.00	
3,500.00	27.90	359.24	3,409.07	441.85	-5.89	441.88	0.00	0.00	0.00	
3,600.00	27.90	359.24	3,497.45	488.63	-6.51	488.67	0.00	0.00	0.00	
3,700.00	27.90	359.24	3,585.83	535.41	-7.13	535.46	0.00	0.00	0.00	
3,784.77	27.90	359.24	3,660.75	575.07	-7.66	575.12	0.00	0.00	0.00	
Start Drop -2.50										
3,800.00	27.51	359.24	3,674.23	582.15	-7.75	582.20	2.50	-2.50	0.00	
3,900.00	25.01	359.24	3,763.90	626.39	-8.34	626.44	2.50	-2.50	0.00	
4,000.00	22.51	359.24	3,855.42	666.68	-8.88	666.74	2.50	-2.50	0.00	
4,100.00	20.01	359.24	3,948.60	702.94	-9.36	703.00	2.50	-2.50	0.00	
4,200.00	17.51	359.24	4,043.28	735.10	-9.79	735.17	2.50	-2.50	0.00	
4,300.00	15.01	359.24	4,139.27	763.11	-10.16	763.18	2.50	-2.50	0.00	
4,396.53	12.60	359.24	4,233.00	786.14	-10.47	786.21	2.50	-2.50	0.00	
Wasatch										
4,400.00	12.51	359.24	4,236.39	786.90	-10.48	786.97	2.50	-2.50	0.00	
4,500.00	10.01	359.24	4,334.45	806.43	-10.74	806.50	2.50	-2.50	0.00	
4,600.00	7.51	359.24	4,433.28	821.66	-10.94	821.74	2.50	-2.50	0.00	
4,700.00	5.01	359.24	4,532.67	832.57	-11.09	832.65	2.50	-2.50	0.00	
4,800.00	2.51	359.24	4,632.45	839.14	-11.18	839.21	2.50	-2.50	0.00	
4,900.00	0.01	359.24	4,732.42	841.34	-11.21	841.42	2.50	-2.50	0.00	
4,900.58	0.00	0.00	4,733.00	841.34	-11.21	841.42	2.50	-2.50	0.00	
Start 3867.00 hold at 4900.58 MD										
5,000.00	0.00	0.00	4,832.42	841.34	-11.21	841.42	0.00	0.00	0.00	
5,100.00	0.00	0.00	4,932.42	841.34	-11.21	841.42	0.00	0.00	0.00	
5,200.00	0.00	0.00	5,032.42	841.34	-11.21	841.42	0.00	0.00	0.00	
5,300.00	0.00	0.00	5,132.42	841.34	-11.21	841.42	0.00	0.00	0.00	
5,400.00	0.00	0.00	5,232.42	841.34	-11.21	841.42	0.00	0.00	0.00	
5,500.00	0.00	0.00	5,332.42	841.34	-11.21	841.42	0.00	0.00	0.00	
5,600.00	0.00	0.00	5,432.42	841.34	-11.21	841.42	0.00	0.00	0.00	
5,700.00	0.00	0.00	5,532.42	841.34	-11.21	841.42	0.00	0.00	0.00	
5,800.00	0.00	0.00	5,632.42	841.34	-11.21	841.42	0.00	0.00	0.00	
5,900.00	0.00	0.00	5,732.42	841.34	-11.21	841.42	0.00	0.00	0.00	
6,000.00	0.00	0.00	5,832.42	841.34	-11.21	841.42	0.00	0.00	0.00	
6,100.00	0.00	0.00	5,932.42	841.34	-11.21	841.42	0.00	0.00	0.00	
6,200.00	0.00	0.00	6,032.42	841.34	-11.21	841.42	0.00	0.00	0.00	
6,300.00	0.00	0.00	6,132.42	841.34	-11.21	841.42	0.00	0.00	0.00	
6,400.00	0.00	0.00	6,232.42	841.34	-11.21	841.42	0.00	0.00	0.00	



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Project:	UINTAH COUNTY, UTAH (nad 27)	MD Reference:	WELL @ 4984.00ft (Original Well Elev)
Site:	NBU 922-36M PAD	North Reference:	True
Well:	NBU 922-36L3DS	Survey Calculation Method:	Minimum Curvature
Wellbore:	NBU 922-36L3DS		
Design:	Design #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)	
6,500.00	0.00	0.00	6,332.42	841.34	-11.21	841.42	0.00	0.00	0.00	
6,600.00	0.00	0.00	6,432.42	841.34	-11.21	841.42	0.00	0.00	0.00	
6,700.00	0.00	0.00	6,532.42	841.34	-11.21	841.42	0.00	0.00	0.00	
6,800.00	0.00	0.00	6,632.42	841.34	-11.21	841.42	0.00	0.00	0.00	
6,900.00	0.00	0.00	6,732.42	841.34	-11.21	841.42	0.00	0.00	0.00	
7,000.00	0.00	0.00	6,832.42	841.34	-11.21	841.42	0.00	0.00	0.00	
7,100.00	0.00	0.00	6,932.42	841.34	-11.21	841.42	0.00	0.00	0.00	
7,200.00	0.00	0.00	7,032.42	841.34	-11.21	841.42	0.00	0.00	0.00	
7,300.00	0.00	0.00	7,132.42	841.34	-11.21	841.42	0.00	0.00	0.00	
7,400.00	0.00	0.00	7,232.42	841.34	-11.21	841.42	0.00	0.00	0.00	
7,500.00	0.00	0.00	7,332.42	841.34	-11.21	841.42	0.00	0.00	0.00	
7,600.00	0.00	0.00	7,432.42	841.34	-11.21	841.42	0.00	0.00	0.00	
7,608.58	0.00	0.00	7,441.00	841.34	-11.21	841.42	0.00	0.00	0.00	
Mesaverde										
7,700.00	0.00	0.00	7,532.42	841.34	-11.21	841.42	0.00	0.00	0.00	
7,800.00	0.00	0.00	7,632.42	841.34	-11.21	841.42	0.00	0.00	0.00	
7,900.00	0.00	0.00	7,732.42	841.34	-11.21	841.42	0.00	0.00	0.00	
8,000.00	0.00	0.00	7,832.42	841.34	-11.21	841.42	0.00	0.00	0.00	
8,100.00	0.00	0.00	7,932.42	841.34	-11.21	841.42	0.00	0.00	0.00	
8,200.00	0.00	0.00	8,032.42	841.34	-11.21	841.42	0.00	0.00	0.00	
8,300.00	0.00	0.00	8,132.42	841.34	-11.21	841.42	0.00	0.00	0.00	
8,400.00	0.00	0.00	8,232.42	841.34	-11.21	841.42	0.00	0.00	0.00	
8,500.00	0.00	0.00	8,332.42	841.34	-11.21	841.42	0.00	0.00	0.00	
8,600.00	0.00	0.00	8,432.42	841.34	-11.21	841.42	0.00	0.00	0.00	
8,700.00	0.00	0.00	8,532.42	841.34	-11.21	841.42	0.00	0.00	0.00	
8,767.58	0.00	0.00	8,600.00	841.34	-11.21	841.42	0.00	0.00	0.00	
PBHL_NBU 922-36L3DS										

Casing Points						
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)		
2,000.00	2,000.00	9 5/8"	9.62	12.25		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,216.00	1,216.00	Green River				
1,927.00	1,927.00	PROJ_MAHOGANY.EST				
4,396.53	4,233.00	Wasatch				
7,608.58	7,441.00	Mesaverde				



Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Well NBU 922-36L3DS
Company:	ANADARKO PETROLEUM CORP.	TVD Reference:	WELL @ 4984.00ft (Original Well Elev)
Project:	UINTAH COUNTY, UTAH (nad 27)	MD Reference:	WELL @ 4984.00ft (Original Well Elev)
Site:	NBU 922-36M PAD	North Reference:	True
Well:	NBU 922-36L3DS	Survey Calculation Method:	Minimum Curvature
Wellbore:	NBU 922-36L3DS		
Design:	Design #1		

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
2,100.00	2,100.00	0.00	0.00	Start Build 3.00
3,029.84	2,993.54	221.90	-2.96	Start 754.93 hold at 3029.84 MD
3,784.77	3,660.75	575.07	-7.66	Start Drop -2.50
4,900.58	4,733.00	841.34	-11.21	Start 3867.00 hold at 4900.58 MD
8,767.58	8,600.00	841.34	-11.21	TD at 8767.58



ANADARKO PETROLEUM CORP.

**UINTAH COUNTY, UTAH (nad 27)
NBU 922-36M PAD
NBU 922-36L3DS**

**NBU 922-36L3DS
Design #1**

Anticollision Report

23 April, 2009





Company:	ANADARKO PETROLEUM CORP.	Local Co-ordinate Reference:	Well NBU 922-36L3DS
Project:	UINTAH COUNTY, UTAH (nad 27)	TVD Reference:	WELL @ 4984.00ft (Original Well Elev)
Reference Site:	NBU 922-36M PAD	MD Reference:	WELL @ 4984.00ft (Original Well Elev)
Site Error:	0.00ft	North Reference:	True
Reference Well:	NBU 922-36L3DS	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	NBU 922-36L3DS	Database:	EDM 2003.21 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Reference	Design #1		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	Stations	Error Model:	ISCWSA
Depth Range:	0.00 to 20,000.00ft	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 10,000.00ft	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma		

Survey Tool Program	Date	1/20/2009		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.00	8,767.58	Design #1 (NBU 922-36L3DS)	MWD	MWD - Standard

Summary						
Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
NBU 922-36M PAD						
CIGE 221 EXISTING WELL - CIGE 221 EXISTING - CIG	1,396.33	1,396.66	97.54	91.82	17.055	CC
CIGE 221 EXISTING WELL - CIGE 221 EXISTING - CIG	1,400.00	1,400.00	97.55	91.81	17.011	ES
CIGE 221 EXISTING WELL - CIGE 221 EXISTING - CIG	2,300.00	2,298.32	116.11	106.57	12.171	SF
NBU 922-36L4BS - NBU 922-36L4BS - Design #1	2,100.00	2,100.00	19.61	10.44	2.138	CC, ES, SF
NBU 922-36M3T - NBU 922-36M3T - Design #1	2,000.00	2,000.00	39.22	30.49	4.495	CC, ES
NBU 922-36M3T - NBU 922-36M3T - Design #1	2,100.00	2,098.62	40.93	31.77	4.468	SF
NBU 922-36N4BS - NBU 922-36N4BS - Design #1	2,000.00	2,000.00	58.83	50.11	6.743	CC, ES, SF

Offset Design												Offset Site Error:	0.00 ft
Survey Program: 100-NS-GYRO-MS												Offset Well Error:	0.00 ft
Reference: NBU 922-36M PAD - CIGE 221 EXISTING WELL - CIGE 221 EXISTING - CIGE 221 EXISTING													
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Semi Major Axis Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-85.25	9.51	-114.57	114.96				
100.00	100.00	100.00	100.00	0.09	0.11	-85.25	9.51	-114.57	114.96	114.76	0.20	571.984	
200.00	200.00	200.00	200.00	0.32	0.37	-85.25	9.51	-114.57	114.96	114.27	0.69	166.322	
300.00	300.00	300.01	300.00	0.54	0.51	-85.36	9.30	-114.58	114.96	113.91	1.05	109.663	
400.00	400.00	400.00	400.00	0.77	0.66	-85.47	9.08	-114.60	114.96	113.53	1.43	80.648	
500.00	500.00	500.00	500.00	0.99	0.91	-85.47	9.08	-114.60	114.96	113.06	1.90	60.511	
600.00	600.00	600.38	600.37	1.22	1.08	-85.54	8.92	-114.45	114.79	112.50	2.29	50.101	
700.00	700.00	700.43	700.43	1.44	1.20	-85.67	8.64	-114.12	114.44	111.80	2.64	43.329	
800.00	800.00	800.87	800.87	1.67	1.37	-85.84	8.26	-113.57	113.87	110.84	3.04	37.470	
900.00	900.00	901.74	901.73	1.89	1.58	-86.17	7.53	-112.46	112.72	109.26	3.47	32.530	
1,000.00	1,000.00	1,002.55	1,002.51	2.12	1.79	-86.75	6.28	-110.63	110.83	106.92	3.91	28.357	
1,100.00	1,100.00	1,104.09	1,103.99	2.34	2.03	-87.48	4.74	-107.66	107.83	103.47	4.37	24.683	
1,200.00	1,200.00	1,204.65	1,204.47	2.56	2.28	-88.03	3.57	-103.66	103.82	98.98	4.84	21.453	
1,300.00	1,300.00	1,304.34	1,304.07	2.79	2.52	-88.47	2.65	-99.41	99.53	94.22	5.31	18.740	
1,396.33	1,396.33	1,396.66	1,396.33	3.01	2.72	-89.90	0.17	-97.54	97.54	91.82	5.72	17.055	CC
1,400.00	1,400.00	1,400.00	1,399.66	3.01	2.72	-89.98	0.03	-97.54	97.55	91.81	5.73	17.011	ES
1,500.00	1,500.00	1,499.28	1,498.85	3.24	2.89	-92.35	-4.02	-98.12	98.21	92.09	6.12	16.042	
1,600.00	1,600.00	1,599.07	1,598.57	3.46	3.05	-94.49	-7.79	-99.21	99.52	93.01	6.51	15.278	
1,700.00	1,700.00	1,698.82	1,698.23	3.69	3.23	-96.67	-11.73	-100.42	101.11	94.20	6.92	14.618	
1,800.00	1,800.00	1,798.93	1,798.25	3.91	3.42	-98.92	-15.94	-101.59	102.84	95.51	7.33	14.021	
1,900.00	1,900.00	1,898.70	1,897.92	4.14	3.62	-101.10	-20.14	-102.71	104.69	96.93	7.76	13.488	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Weatherford International Ltd.
Anticollision Report



Company:	ANADARKO PETROLEUM CORP.	Local Co-ordinate Reference:	Well NBU 922-36L3DS
Project:	UINTAH COUNTY, UTAH (nad 27)	TVD Reference:	WELL @ 4984.00ft (Original Well Elev)
Reference Site:	NBU 922-36M PAD	MD Reference:	WELL @ 4984.00ft (Original Well Elev)
Site Error:	0.00ft	North Reference:	True
Reference Well:	NBU 922-36L3DS	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	NBU 922-36L3DS	Database:	EDM 2003.21 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 100-NS-GYRO-MS													Offset Well Error:	0.00 ft
Reference				Offset			Semi Major Axis			Distance			Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Tooface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
2,000.00	2,000.00	1,998.33	1,997.45	4.36	3.83	-103.13	-24.27	-104.05	106.88	98.68	8.19	13.045		
2,100.00	2,100.00	2,099.07	2,098.11	4.59	4.05	-105.05	-28.28	-105.19	108.95	100.31	8.64	12.616		
2,200.00	2,199.95	2,199.00	2,197.95	4.81	4.28	-107.47	-32.37	-105.80	111.42	102.33	9.09	12.260		
2,300.00	2,299.63	2,298.32	2,297.18	5.04	4.51	-112.97	-36.68	-106.22	116.11	106.57	9.54	12.171 SF		
2,400.00	2,398.77	2,397.38	2,396.15	5.27	4.75	-119.97	-40.79	-106.45	124.12	114.13	9.99	12.429		
2,500.00	2,497.08	2,494.72	2,493.43	5.51	4.99	-127.40	-44.38	-106.78	136.80	126.38	10.41	13.139		
2,600.00	2,594.31	2,592.21	2,590.87	5.79	5.22	-134.57	-47.37	-107.32	154.88	144.07	10.81	14.330		
2,700.00	2,690.18	2,686.81	2,685.43	6.11	5.45	-140.95	-49.98	-107.74	178.72	167.55	11.17	16.004		
2,800.00	2,784.43	2,779.78	2,778.36	6.50	5.68	-146.43	-52.76	-108.26	208.93	197.44	11.49	18.189		
2,900.00	2,876.81	2,870.94	2,869.48	6.96	5.90	-150.92	-55.46	-108.93	245.14	233.37	11.77	20.829		
3,000.00	2,967.06	2,958.39	2,956.88	7.50	6.12	-154.49	-58.19	-109.65	287.16	275.14	12.02	23.895		
3,029.84	2,993.54	2,983.72	2,982.19	7.68	6.18	-155.40	-59.08	-109.91	300.86	288.78	12.09	24.894		
3,100.00	3,055.55	3,043.70	3,042.12	8.13	6.33	-157.71	-61.35	-110.59	334.02	321.63	12.39	26.962		
3,200.00	3,143.93	3,129.49	3,127.85	8.81	6.54	-160.35	-64.73	-111.60	382.04	369.20	12.84	29.757		
3,300.00	3,232.31	3,215.11	3,213.39	9.52	6.75	-162.41	-68.27	-112.62	430.73	417.43	13.31	32.371		
3,400.00	3,320.69	3,300.53	3,298.72	10.26	6.97	-164.07	-71.98	-113.57	479.94	466.15	13.79	34.806		
3,500.00	3,409.07	3,385.73	3,383.83	11.03	7.18	-165.44	-75.87	-114.42	529.57	515.29	14.28	37.080		
3,600.00	3,497.45	3,473.32	3,471.32	11.81	7.40	-166.60	-79.84	-115.43	579.40	564.61	14.78	39.192		
3,700.00	3,585.83	3,561.86	3,559.77	12.61	7.61	-167.51	-83.44	-117.03	629.07	613.78	15.30	41.124		
3,784.77	3,660.75	3,638.42	3,636.26	13.30	7.79	-168.14	-86.17	-118.92	670.98	655.25	15.73	42.657		
3,800.00	3,674.23	3,652.47	3,650.30	13.41	7.82	-168.28	-86.62	-119.33	678.43	662.59	15.84	42.839		
3,900.00	3,763.90	3,746.50	3,744.24	14.05	8.01	-169.03	-89.06	-122.61	724.78	708.27	16.51	43.903		
4,000.00	3,855.42	3,839.82	3,837.45	14.65	8.19	-169.51	-90.67	-126.74	766.68	749.52	17.16	44.688		
4,100.00	3,948.60	3,930.45	3,927.95	15.22	8.36	-169.82	-92.21	-131.34	804.72	786.95	17.76	45.303		
4,200.00	4,043.28	4,023.22	4,020.56	15.74	8.53	-170.01	-93.91	-136.58	838.96	820.62	18.34	45.736		
4,300.00	4,139.27	4,119.75	4,116.90	16.22	8.71	-170.10	-95.62	-142.22	869.11	850.21	18.90	45.988		
4,400.00	4,236.39	4,218.00	4,214.98	16.65	8.90	-170.11	-97.21	-147.99	895.00	875.58	19.42	46.090		
4,500.00	4,334.45	4,319.44	4,316.24	17.02	9.09	-170.07	-98.53	-153.88	916.39	896.49	19.90	46.045		
4,600.00	4,433.28	4,421.43	4,418.06	17.33	9.28	-169.96	-99.46	-159.64	933.17	912.83	20.34	45.870		
4,700.00	4,532.67	4,522.45	4,518.94	17.58	9.47	-169.83	-100.19	-164.84	945.45	924.71	20.74	45.586		
4,800.00	4,632.45	4,623.43	4,619.82	17.78	9.66	-169.67	-100.83	-169.38	953.27	932.18	21.09	45.197		
4,900.58	4,733.00	4,723.52	4,719.82	17.91	9.86	-170.24	-101.52	-173.36	956.80	935.40	21.40	44.704		
5,000.00	4,832.42	4,822.96	4,819.20	18.03	10.06	-170.04	-102.33	-176.86	958.19	936.40	21.79	43.984		
5,100.00	4,932.42	4,924.51	4,920.69	18.15	10.27	-169.86	-103.08	-180.16	959.49	937.30	22.19	43.234		
5,200.00	5,032.42	5,025.90	5,022.04	18.28	10.48	-169.68	-103.70	-183.26	960.63	938.03	22.60	42.504		
5,300.00	5,132.42	5,126.79	5,122.87	18.41	10.69	-169.50	-104.17	-186.47	961.67	938.66	23.01	41.798		
5,400.00	5,232.42	5,228.19	5,224.22	18.54	10.90	-169.30	-104.50	-189.91	962.61	939.20	23.42	41.109		
5,500.00	5,332.42	5,331.01	5,326.99	18.67	11.10	-169.12	-104.66	-192.95	963.32	939.50	23.82	40.436		
5,600.00	5,432.42	5,432.51	5,428.46	18.80	11.31	-168.99	-104.66	-195.32	963.76	939.53	24.23	39.778		
5,700.00	5,532.42	5,531.27	5,527.20	18.94	11.51	-168.86	-104.72	-197.47	964.24	939.60	24.63	39.145		
5,800.00	5,632.42	5,630.62	5,626.53	19.07	11.72	-168.74	-104.89	-199.63	964.83	939.79	25.04	38.531		
5,900.00	5,732.42	5,731.33	5,727.21	19.21	11.93	-168.61	-105.05	-201.82	965.41	939.95	25.46	37.923		
6,000.00	5,832.42	5,800.00	5,795.86	19.35	12.08	-168.53	-105.10	-203.31	966.44	940.63	25.80	37.453		
6,100.00	5,932.42	5,800.00	5,795.86	19.49	12.08	-168.53	-105.10	-203.31	975.35	949.35	26.00	37.513		
6,200.00	6,032.42	5,800.00	5,795.86	19.64	12.08	-168.53	-105.10	-203.31	994.30	968.10	26.20	37.953		
6,300.00	6,132.42	5,800.00	5,795.86	19.78	12.08	-168.53	-105.10	-203.31	1,022.71	996.31	26.40	38.745		
6,400.00	6,232.42	5,800.00	5,795.86	19.93	12.08	-168.53	-105.10	-203.31	1,059.83	1,033.24	26.60	39.851		
6,500.00	6,332.42	5,800.00	5,795.86	20.07	12.08	-168.53	-105.10	-203.31	1,104.79	1,077.99	26.79	41.231		
6,600.00	6,432.42	5,800.00	5,795.86	20.22	12.08	-168.53	-105.10	-203.31	1,156.66	1,129.67	27.00	42.847		
6,700.00	6,532.42	5,800.00	5,795.86	20.37	12.08	-168.53	-105.10	-203.31	1,214.57	1,187.37	27.20	44.659		
6,800.00	6,632.42	5,800.00	5,795.86	20.52	12.08	-168.53	-105.10	-203.31	1,277.69	1,250.29	27.40	46.634		
6,900.00	6,732.42	5,800.00	5,795.86	20.68	12.08	-168.53	-105.10	-203.31	1,345.29	1,317.69	27.60	48.741		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Weatherford International Ltd.
Anticollision Report



Company:	ANADARKO PETROLEUM CORP.	Local Co-ordinate Reference:	Well NBU 922-36L3DS
Project:	UINTAH COUNTY, UTAH (nad 27)	TVD Reference:	WELL @ 4984.00ft (Original Well Elev)
Reference Site:	NBU 922-36M PAD	MD Reference:	WELL @ 4984.00ft (Original Well Elev)
Site Error:	0.00ft	North Reference:	True
Reference Well:	NBU 922-36L3DS	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	NBU 922-36L3DS	Database:	EDM 2003.21 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft	
Survey Program: 100-NS-GYRO-MS													Offset Well Error:		0.00 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
7,000.00	6,832.42	5,800.00	5,795.86	20.83	12.08	-168.53	-105.10	-203.31	1,416.72	1,388.92	27.80	50.955			
7,100.00	6,932.42	5,800.00	5,795.86	20.99	12.08	-168.53	-105.10	-203.31	1,491.45	1,463.44	28.01	53.253			
7,200.00	7,032.42	5,800.00	5,795.86	21.14	12.08	-168.53	-105.10	-203.31	1,568.99	1,540.78	28.21	55.616			
7,300.00	7,132.42	5,800.00	5,795.86	21.30	12.08	-168.53	-105.10	-203.31	1,648.95	1,620.54	28.42	58.029			
7,400.00	7,232.42	5,800.00	5,795.86	21.46	12.08	-168.53	-105.10	-203.31	1,731.00	1,702.38	28.62	60.480			
7,500.00	7,332.42	5,800.00	5,795.86	21.62	12.08	-168.53	-105.10	-203.31	1,814.85	1,786.02	28.83	62.957			
7,600.00	7,432.42	5,800.00	5,795.86	21.78	12.08	-168.53	-105.10	-203.31	1,900.26	1,871.22	29.03	65.452			
7,700.00	7,532.42	5,800.00	5,795.86	21.95	12.08	-168.53	-105.10	-203.31	1,987.03	1,957.79	29.24	67.957			
7,800.00	7,632.42	5,800.00	5,795.86	22.11	12.08	-168.53	-105.10	-203.31	2,074.99	2,045.55	29.45	70.466			
7,900.00	7,732.42	5,800.00	5,795.86	22.27	12.08	-168.53	-105.10	-203.31	2,164.00	2,134.35	29.65	72.975			
8,000.00	7,832.42	5,800.00	5,795.86	22.44	12.08	-168.53	-105.10	-203.31	2,253.93	2,224.07	29.86	75.478			
8,100.00	7,932.42	5,800.00	5,795.86	22.61	12.08	-168.53	-105.10	-203.31	2,344.68	2,314.61	30.07	77.973			
8,200.00	8,032.42	5,800.00	5,795.86	22.77	12.08	-168.53	-105.10	-203.31	2,436.15	2,405.87	30.28	80.457			
8,300.00	8,132.42	5,800.00	5,795.86	22.94	12.08	-168.53	-105.10	-203.31	2,528.27	2,497.78	30.49	82.926			
8,400.00	8,232.42	5,800.00	5,795.86	23.11	12.08	-168.53	-105.10	-203.31	2,620.97	2,590.27	30.70	85.380			
8,500.00	8,332.42	5,800.00	5,795.86	23.28	12.08	-168.53	-105.10	-203.31	2,714.18	2,683.27	30.91	87.816			
8,600.00	8,432.42	5,800.00	5,795.86	23.46	12.08	-168.53	-105.10	-203.31	2,807.86	2,776.74	31.12	90.234			
8,700.00	8,532.42	5,800.00	5,795.86	23.63	12.08	-168.53	-105.10	-203.31	2,901.96	2,870.63	31.33	92.631			
8,767.58	8,600.00	5,800.00	5,795.86	23.74	12.08	-168.53	-105.10	-203.31	2,965.78	2,934.31	31.47	94.240			



Company:	ANADARKO PETROLEUM CORP.	Local Co-ordinate Reference:	Well NBU 922-36L3DS
Project:	UINTAH COUNTY, UTAH (nad 27)	TVD Reference:	WELL @ 4984.00ft (Original Well Elev)
Reference Site:	NBU 922-36M PAD	MD Reference:	WELL @ 4984.00ft (Original Well Elev)
Site Error:	0.00ft	North Reference:	True
Reference Well:	NBU 922-36L3DS	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	NBU 922-36L3DS	Database:	EDM 2003.21 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft	
Survey Program: 0-MWD													Offset Well Error:		0.00 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
0.00	0.00	0.00	0.00	0.00	0.00	90.00	0.00	19.61	19.61						
100.00	100.00	100.00	100.00	0.09	0.09	90.00	0.00	19.61	19.61	19.43	0.18	106.411			
200.00	200.00	200.00	200.00	0.32	0.32	90.00	0.00	19.61	19.61	18.98	0.63	30.942			
300.00	300.00	300.00	300.00	0.54	0.54	90.00	0.00	19.61	19.61	18.53	1.08	18.103			
400.00	400.00	400.00	400.00	0.77	0.77	90.00	0.00	19.61	19.61	18.08	1.53	12.794			
500.00	500.00	500.00	500.00	0.99	0.99	90.00	0.00	19.61	19.61	17.63	1.98	9.893			
600.00	600.00	600.00	600.00	1.22	1.22	90.00	0.00	19.61	19.61	17.18	2.43	8.064			
700.00	700.00	700.00	700.00	1.44	1.44	90.00	0.00	19.61	19.61	16.73	2.88	6.806			
800.00	800.00	800.00	800.00	1.67	1.67	90.00	0.00	19.61	19.61	16.28	3.33	5.888			
900.00	900.00	900.00	900.00	1.89	1.89	90.00	0.00	19.61	19.61	15.83	3.78	5.188			
1,000.00	1,000.00	1,000.00	1,000.00	2.12	2.12	90.00	0.00	19.61	19.61	15.38	4.23	4.636			
1,100.00	1,100.00	1,100.00	1,100.00	2.34	2.34	90.00	0.00	19.61	19.61	14.93	4.68	4.191			
1,200.00	1,200.00	1,200.00	1,200.00	2.56	2.56	90.00	0.00	19.61	19.61	14.48	5.13	3.824			
1,300.00	1,300.00	1,300.00	1,300.00	2.79	2.79	90.00	0.00	19.61	19.61	14.03	5.58	3.516			
1,400.00	1,400.00	1,400.00	1,400.00	3.01	3.01	90.00	0.00	19.61	19.61	13.58	6.03	3.253			
1,500.00	1,500.00	1,500.00	1,500.00	3.24	3.24	90.00	0.00	19.61	19.61	13.13	6.48	3.028			
1,600.00	1,600.00	1,600.00	1,600.00	3.46	3.46	90.00	0.00	19.61	19.61	12.69	6.93	2.831			
1,700.00	1,700.00	1,700.00	1,700.00	3.69	3.69	90.00	0.00	19.61	19.61	12.24	7.38	2.659			
1,800.00	1,800.00	1,800.00	1,800.00	3.91	3.91	90.00	0.00	19.61	19.61	11.79	7.83	2.506			
1,900.00	1,900.00	1,900.00	1,900.00	4.14	4.14	90.00	0.00	19.61	19.61	11.34	8.28	2.370			
2,000.00	2,000.00	2,000.00	2,000.00	4.36	4.36	90.00	0.00	19.61	19.61	10.89	8.73	2.248			
2,100.00	2,100.00	2,100.00	2,100.00	4.59	4.59	90.00	0.00	19.61	19.61	10.44	9.17	2.138	CC, ES, SF		
2,200.00	2,199.95	2,199.56	2,199.50	4.81	4.81	90.09	2.84	20.67	20.71	11.09	9.62	2.153			
2,300.00	2,299.63	2,299.00	2,298.51	5.04	5.04	88.44	11.32	23.83	24.01	13.95	10.06	2.386			
2,400.00	2,398.77	2,398.20	2,396.56	5.27	5.27	86.48	25.38	29.07	29.52	19.00	10.52	2.807			
2,500.00	2,497.08	2,497.04	2,493.16	5.51	5.51	84.69	44.90	36.34	37.23	26.23	11.01	3.382			
2,600.00	2,594.31	2,595.42	2,587.89	5.79	5.81	83.19	69.72	45.58	47.12	35.56	11.56	4.076			
2,700.00	2,690.18	2,693.22	2,680.32	6.11	6.16	81.99	99.63	56.72	59.12	46.92	12.20	4.847			
2,800.00	2,784.43	2,790.36	2,770.08	6.50	6.58	81.00	134.40	69.67	73.18	60.24	12.95	5.652			
2,900.00	2,876.81	2,886.76	2,856.82	6.96	7.09	80.17	173.79	84.34	89.24	75.41	13.83	6.452			
3,000.00	2,967.06	2,983.97	2,942.06	7.50	7.69	79.85	217.58	100.65	106.82	91.94	14.88	7.179			
3,029.84	2,993.54	3,013.35	2,967.73	7.68	7.88	80.18	230.96	105.64	111.99	96.75	15.23	7.352			
3,100.00	3,055.55	3,082.41	3,028.08	8.13	8.36	81.42	262.43	117.36	124.07	107.95	16.12	7.698			
3,200.00	3,143.93	3,180.85	3,114.11	8.81	9.07	82.81	307.27	134.06	141.38	123.92	17.45	8.100			
3,300.00	3,232.31	3,279.29	3,200.13	9.52	9.82	83.90	352.12	150.76	158.75	139.88	18.86	8.416			
3,400.00	3,320.69	3,377.73	3,286.15	10.26	10.59	84.77	396.97	167.47	176.16	155.83	20.33	8.667			
3,500.00	3,409.07	3,476.17	3,372.18	11.03	11.38	85.49	441.82	184.17	193.60	171.77	21.84	8.866			
3,600.00	3,497.45	3,574.61	3,458.20	11.81	12.19	86.09	486.66	200.88	211.07	187.69	23.38	9.027			
3,700.00	3,585.83	3,673.05	3,544.23	12.61	13.02	86.59	531.51	217.58	228.56	203.60	24.96	9.158			
3,784.77	3,660.75	3,756.50	3,617.15	13.30	13.72	86.97	569.53	231.74	243.40	217.09	26.31	9.250			
3,800.00	3,674.23	3,771.49	3,630.25	13.41	13.85	87.08	576.36	234.28	246.07	219.52	26.55	9.269			
3,900.00	3,763.90	3,869.91	3,716.26	14.05	14.70	87.28	621.19	250.98	263.72	235.75	27.96	9.431			
4,000.00	3,855.42	3,968.15	3,802.10	14.65	15.55	86.62	665.95	267.65	281.63	252.32	29.30	9.611			
4,100.00	3,948.60	4,066.01	3,887.63	15.22	16.40	85.26	710.53	284.26	299.98	269.44	30.54	9.822			
4,200.00	4,043.28	4,163.33	3,972.67	15.74	17.26	83.37	754.87	300.77	319.10	287.45	31.65	10.081			
4,300.00	4,139.27	4,259.91	4,057.07	16.22	18.11	81.05	798.87	317.16	339.38	306.76	32.62	10.405			
4,400.00	4,236.39	4,355.56	4,140.66	16.65	18.96	78.44	842.45	333.39	361.25	327.83	33.41	10.811			
4,500.00	4,334.45	4,450.11	4,223.28	17.02	19.80	75.64	885.52	349.43	385.15	351.11	34.04	11.315			
4,600.00	4,433.28	4,543.38	4,304.78	17.33	20.64	72.75	928.01	365.26	411.52	377.04	34.49	11.933			
4,700.00	4,532.67	4,635.18	4,385.01	17.58	21.46	69.85	969.84	380.84	440.74	405.97	34.77	12.676			
4,800.00	4,632.45	4,725.35	4,463.81	17.78	22.27	67.03	1,010.91	396.14	473.13	438.23	34.91	13.554			
4,900.58	4,733.00	4,814.22	4,541.47	17.91	23.07	63.56	1,051.40	411.22	509.17	474.25	34.91	14.583			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Weatherford International Ltd.
Anticollision Report



Company:	ANADARKO PETROLEUM CORP.	Local Co-ordinate Reference:	Well NBU 922-36L3DS
Project:	UINTAH COUNTY, UTAH (nad 27)	TVD Reference:	WELL @ 4984.00ft (Original Well Elev)
Reference Site:	NBU 922-36M PAD	MD Reference:	WELL @ 4984.00ft (Original Well Elev)
Site Error:	0.00ft	North Reference:	True
Reference Well:	NBU 922-36L3DS	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	NBU 922-36L3DS	Database:	EDM 2003.21 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 0-MWD													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,000.00	4,832.42	4,901.10	4,617.39	18.03	23.86	60.27	1,090.98	425.96	547.42	512.73	34.69	15.778		
5,100.00	4,932.42	4,988.49	4,693.75	18.15	24.65	57.37	1,130.79	440.79	587.40	552.88	34.52	17.017		
5,200.00	5,032.42	5,086.50	4,779.58	18.28	25.50	54.53	1,175.14	457.31	628.37	594.03	34.34	18.298		
5,300.00	5,132.42	5,213.76	4,893.89	18.41	26.34	51.65	1,227.50	476.81	666.46	632.34	34.12	19.532		
5,400.00	5,232.42	5,349.08	5,019.23	18.54	27.12	49.38	1,275.22	494.58	699.66	665.62	34.04	20.553		
5,500.00	5,332.42	5,491.78	5,154.96	18.67	27.84	47.65	1,316.41	509.92	727.15	693.06	34.10	21.326		
5,600.00	5,432.42	5,640.77	5,299.76	18.80	28.43	46.40	1,349.15	522.12	748.26	714.02	34.25	21.848		
5,700.00	5,532.42	5,794.56	5,451.61	18.94	28.89	45.61	1,371.75	530.54	762.46	727.97	34.49	22.107		
5,800.00	5,632.42	5,951.32	5,607.86	19.07	29.17	45.23	1,382.93	534.70	769.37	734.59	34.78	22.119		
5,900.00	5,732.42	6,075.88	5,732.42	19.21	29.30	45.19	1,384.03	535.11	770.05	734.95	35.10	21.941		
6,000.00	5,832.42	6,175.88	5,832.42	19.35	29.39	45.19	1,384.03	535.11	770.05	734.66	35.39	21.756		
6,100.00	5,932.42	6,275.88	5,932.42	19.49	29.48	45.19	1,384.03	535.11	770.05	734.35	35.70	21.571		
6,200.00	6,032.42	6,375.88	6,032.42	19.64	29.57	45.19	1,384.03	535.11	770.05	734.04	36.00	21.387		
6,300.00	6,132.42	6,475.88	6,132.42	19.78	29.67	45.19	1,384.03	535.11	770.05	733.74	36.31	21.205		
6,400.00	6,232.42	6,575.88	6,232.42	19.93	29.76	45.19	1,384.03	535.11	770.05	733.42	36.63	21.024		
6,500.00	6,332.42	6,675.88	6,332.42	20.07	29.86	45.19	1,384.03	535.11	770.05	733.11	36.94	20.845		
6,600.00	6,432.42	6,775.88	6,432.42	20.22	29.96	45.19	1,384.03	535.11	770.05	732.79	37.26	20.667		
6,700.00	6,532.42	6,875.88	6,532.42	20.37	30.06	45.19	1,384.03	535.11	770.05	732.47	37.58	20.490		
6,800.00	6,632.42	6,975.88	6,632.42	20.52	30.16	45.19	1,384.03	535.11	770.05	732.15	37.90	20.316		
6,900.00	6,732.42	7,075.88	6,732.42	20.68	30.26	45.19	1,384.03	535.11	770.05	731.82	38.23	20.142		
7,000.00	6,832.42	7,175.88	6,832.42	20.83	30.36	45.19	1,384.03	535.11	770.05	731.49	38.56	19.971		
7,100.00	6,932.42	7,275.88	6,932.42	20.99	30.47	45.19	1,384.03	535.11	770.05	731.16	38.89	19.801		
7,200.00	7,032.42	7,375.88	7,032.42	21.14	30.57	45.19	1,384.03	535.11	770.05	730.83	39.22	19.633		
7,300.00	7,132.42	7,475.88	7,132.42	21.30	30.68	45.19	1,384.03	535.11	770.05	730.49	39.56	19.467		
7,400.00	7,232.42	7,575.88	7,232.42	21.46	30.79	45.19	1,384.03	535.11	770.05	730.15	39.90	19.302		
7,500.00	7,332.42	7,675.88	7,332.42	21.62	30.90	45.19	1,384.03	535.11	770.05	729.81	40.23	19.139		
7,600.00	7,432.42	7,775.88	7,432.42	21.78	31.01	45.19	1,384.03	535.11	770.05	729.47	40.58	18.978		
7,700.00	7,532.42	7,875.88	7,532.42	21.95	31.12	45.19	1,384.03	535.11	770.05	729.13	40.92	18.818		
7,800.00	7,632.42	7,975.88	7,632.42	22.11	31.23	45.19	1,384.03	535.11	770.05	728.78	41.27	18.660		
7,900.00	7,732.42	8,075.88	7,732.42	22.27	31.35	45.19	1,384.03	535.11	770.05	728.43	41.61	18.504		
8,000.00	7,832.42	8,175.88	7,832.42	22.44	31.47	45.19	1,384.03	535.11	770.05	728.08	41.96	18.350		
8,100.00	7,932.42	8,275.88	7,932.42	22.61	31.58	45.19	1,384.03	535.11	770.05	727.73	42.32	18.198		
8,200.00	8,032.42	8,375.88	8,032.42	22.77	31.70	45.19	1,384.03	535.11	770.05	727.38	42.67	18.047		
8,300.00	8,132.42	8,475.88	8,132.42	22.94	31.82	45.19	1,384.03	535.11	770.05	727.02	43.02	17.898		
8,400.00	8,232.42	8,575.88	8,232.42	23.11	31.94	45.19	1,384.03	535.11	770.05	726.67	43.38	17.750		
8,500.00	8,332.42	8,675.88	8,332.42	23.28	32.06	45.19	1,384.03	535.11	770.05	726.31	43.74	17.605		
8,600.00	8,432.42	8,775.88	8,432.42	23.46	32.18	45.19	1,384.03	535.11	770.05	725.95	44.10	17.461		
8,700.00	8,532.42	8,875.88	8,532.42	23.63	32.31	45.19	1,384.03	535.11	770.05	725.59	44.46	17.319		
8,767.58	8,600.00	8,943.47	8,600.00	23.74	32.39	45.19	1,384.03	535.11	770.05	725.34	44.71	17.224		



Weatherford International Ltd.
Anticollision Report



Company:	ANADARKO PETROLEUM CORP.	Local Co-ordinate Reference:	Well NBU 922-36L3DS
Project:	UINTAH COUNTY, UTAH (nad 27)	TVD Reference:	WELL @ 4984.00ft (Original Well Elev)
Reference Site:	NBU 922-36M PAD	MD Reference:	WELL @ 4984.00ft (Original Well Elev)
Site Error:	0.00ft	North Reference:	True
Reference Well:	NBU 922-36L3DS	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	NBU 922-36L3DS	Database:	EDM 2003.21 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft	
Survey Program: 0-MWD													Offset Well Error:		0.00 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
0.00	0.00	0.00	0.00	0.00	0.00	90.00	0.00	39.22	39.22						
100.00	100.00	100.00	100.00	0.09	0.09	90.00	0.00	39.22	39.22	39.03	0.18	212.791			
200.00	200.00	200.00	200.00	0.32	0.32	90.00	0.00	39.22	39.22	38.59	0.63	61.875			
300.00	300.00	300.00	300.00	0.54	0.54	90.00	0.00	39.22	39.22	38.14	1.08	36.201			
400.00	400.00	400.00	400.00	0.77	0.77	90.00	0.00	39.22	39.22	37.69	1.53	25.585			
500.00	500.00	500.00	500.00	0.99	0.99	90.00	0.00	39.22	39.22	37.24	1.98	19.783			
600.00	600.00	600.00	600.00	1.22	1.22	90.00	0.00	39.22	39.22	36.79	2.43	16.126			
700.00	700.00	700.00	700.00	1.44	1.44	90.00	0.00	39.22	39.22	36.34	2.88	13.611			
800.00	800.00	800.00	800.00	1.67	1.67	90.00	0.00	39.22	39.22	35.89	3.33	11.774			
900.00	900.00	900.00	900.00	1.89	1.89	90.00	0.00	39.22	39.22	35.44	3.78	10.374			
1,000.00	1,000.00	1,000.00	1,000.00	2.12	2.12	90.00	0.00	39.22	39.22	34.99	4.23	9.271			
1,100.00	1,100.00	1,100.00	1,100.00	2.34	2.34	90.00	0.00	39.22	39.22	34.54	4.68	8.381			
1,200.00	1,200.00	1,200.00	1,200.00	2.56	2.56	90.00	0.00	39.22	39.22	34.09	5.13	7.646			
1,300.00	1,300.00	1,300.00	1,300.00	2.79	2.79	90.00	0.00	39.22	39.22	33.64	5.58	7.030			
1,400.00	1,400.00	1,400.00	1,400.00	3.01	3.01	90.00	0.00	39.22	39.22	33.19	6.03	6.506			
1,500.00	1,500.00	1,500.00	1,500.00	3.24	3.24	90.00	0.00	39.22	39.22	32.74	6.48	6.054			
1,600.00	1,600.00	1,600.00	1,600.00	3.46	3.46	90.00	0.00	39.22	39.22	32.29	6.93	5.662			
1,700.00	1,700.00	1,700.00	1,700.00	3.69	3.69	90.00	0.00	39.22	39.22	31.84	7.38	5.317			
1,800.00	1,800.00	1,800.00	1,800.00	3.91	3.91	90.00	0.00	39.22	39.22	31.39	7.83	5.011			
1,900.00	1,900.00	1,900.00	1,900.00	4.14	4.14	90.00	0.00	39.22	39.22	30.94	8.28	4.739			
2,000.00	2,000.00	2,000.00	2,000.00	4.36	4.36	90.00	0.00	39.22	39.22	30.49	8.73	4.495 CC, ES			
2,100.00	2,100.00	2,098.62	2,098.60	4.59	4.57	89.68	0.23	40.90	40.93	31.77	9.16	4.468 SF			
2,200.00	2,199.95	2,196.99	2,196.83	4.81	4.78	92.69	0.91	45.93	46.10	36.52	9.58	4.811			
2,300.00	2,299.63	2,295.63	2,295.15	5.04	4.99	99.16	1.97	53.87	54.86	44.85	10.01	5.482			
2,400.00	2,398.77	2,394.54	2,393.70	5.27	5.20	107.96	3.10	62.23	65.99	55.56	10.43	6.325			
2,500.00	2,497.08	2,492.68	2,491.48	5.51	5.42	117.32	4.21	70.53	80.57	69.72	10.85	7.423			
2,600.00	2,594.31	2,589.79	2,588.24	5.79	5.64	125.96	5.32	78.74	99.72	88.46	11.26	8.854			
2,700.00	2,690.18	2,685.60	2,683.70	6.11	5.87	133.30	6.41	86.83	124.01	112.36	11.65	10.646			
2,800.00	2,784.43	2,779.86	2,777.61	6.50	6.09	139.26	7.48	94.80	153.64	141.63	12.01	12.792			
2,900.00	2,876.81	2,872.78	2,870.20	6.96	6.30	144.06	8.52	102.55	188.51	176.16	12.34	15.272			
3,000.00	2,967.06	2,964.51	2,961.70	7.50	6.49	148.19	9.39	109.04	228.11	215.48	12.63	18.063			
3,029.84	2,993.54	2,991.44	2,988.58	7.68	6.55	149.30	9.61	110.67	240.84	228.13	12.71	18.954			
3,100.00	3,055.55	3,054.50	3,051.55	8.13	6.67	152.12	10.06	114.00	271.39	258.40	13.00	20.877			
3,200.00	3,143.93	3,144.33	3,141.31	8.81	6.85	155.43	10.54	117.55	315.35	301.92	13.43	23.480			
3,300.00	3,232.31	3,234.08	3,231.02	9.52	7.03	158.16	10.83	119.71	359.64	345.77	13.87	25.929			
3,400.00	3,320.69	3,323.69	3,320.63	10.26	7.20	160.52	10.93	120.47	404.19	389.87	14.31	28.240			
3,500.00	3,409.07	3,412.12	3,409.07	11.03	7.38	162.49	10.93	120.47	449.06	434.29	14.77	30.405			
3,600.00	3,497.45	3,500.50	3,497.45	11.81	7.57	164.11	10.93	120.47	494.29	479.03	15.25	32.410			
3,700.00	3,585.83	3,588.88	3,585.83	12.61	7.77	165.46	10.93	120.47	539.78	524.04	15.74	34.290			
3,784.77	3,660.75	3,663.81	3,660.75	13.30	7.93	166.44	10.93	120.47	578.50	562.34	16.16	35.791			
3,800.00	3,674.23	3,677.29	3,674.23	13.41	7.96	166.65	10.93	120.47	585.43	569.16	16.27	35.992			
3,900.00	3,763.90	3,766.96	3,763.90	14.05	8.16	167.83	10.93	120.47	628.80	611.89	16.91	37.192			
4,000.00	3,855.42	3,858.47	3,855.42	14.65	8.36	168.77	10.93	120.47	668.39	650.85	17.54	38.116			
4,100.00	3,948.60	3,951.66	3,948.60	15.22	8.56	169.52	10.93	120.47	704.09	685.94	18.14	38.805			
4,200.00	4,043.28	4,046.33	4,043.28	15.74	8.77	170.12	10.93	120.47	735.80	717.07	18.73	39.292			
4,300.00	4,139.27	4,142.32	4,139.27	16.22	8.98	170.59	10.93	120.47	763.44	744.16	19.28	39.602			
4,400.00	4,236.39	4,239.44	4,236.39	16.65	9.20	170.97	10.93	120.47	786.94	767.14	19.79	39.755			
4,500.00	4,334.45	4,337.51	4,334.45	17.02	9.41	171.27	10.93	120.47	806.25	785.97	20.27	39.769			
4,600.00	4,433.28	4,436.33	4,433.28	17.33	9.63	171.48	10.93	120.47	821.31	800.60	20.71	39.656			
4,700.00	4,532.67	4,535.73	4,532.67	17.58	9.85	171.63	10.93	120.47	832.11	811.00	21.11	39.425			
4,800.00	4,632.45	4,635.50	4,632.45	17.78	10.07	171.72	10.93	120.47	838.61	817.15	21.46	39.083			
4,900.58	4,733.00	4,736.06	4,733.00	17.91	10.30	170.99	10.93	120.47	840.79	819.03	21.76	38.632			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Weatherford International Ltd.
Anticollision Report



Company:	ANADARKO PETROLEUM CORP.	Local Co-ordinate Reference:	Well NBU 922-36L3DS
Project:	UINTAH COUNTY, UTAH (nad 27)	TVD Reference:	WELL @ 4984.00ft (Original Well Elev)
Reference Site:	NBU 922-36M PAD	MD Reference:	WELL @ 4984.00ft (Original Well Elev)
Site Error:	0.00ft	North Reference:	True
Reference Well:	NBU 922-36L3DS	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	NBU 922-36L3DS	Database:	EDM 2003.21 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft	
Survey Program: 0-MWD													Offset Well Error:		0.00 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre		Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
							+N/-S (ft)	+E/-W (ft)							
5,000.00	4,832.42	4,835.47	4,832.42	18.03	10.52	170.99	10.93	120.47	840.79	818.63	22.16	37.947			
5,100.00	4,932.42	4,935.47	4,932.42	18.15	10.74	170.99	10.93	120.47	840.79	818.22	22.57	37.257			
5,200.00	5,032.42	5,035.47	5,032.42	18.28	10.96	170.99	10.93	120.47	840.79	817.81	22.98	36.589			
5,300.00	5,132.42	5,135.47	5,132.42	18.41	11.18	170.99	10.93	120.47	840.79	817.40	23.39	35.943			
5,400.00	5,232.42	5,235.47	5,232.42	18.54	11.40	170.99	10.93	120.47	840.79	816.98	23.81	35.317			
5,500.00	5,332.42	5,335.47	5,332.42	18.67	11.63	170.99	10.93	120.47	840.79	816.57	24.22	34.711			
5,600.00	5,432.42	5,435.47	5,432.42	18.80	11.85	170.99	10.93	120.47	840.79	816.15	24.64	34.124			
5,700.00	5,532.42	5,535.47	5,532.42	18.94	12.07	170.99	10.93	120.47	840.79	815.73	25.06	33.555			
5,800.00	5,632.42	5,635.47	5,632.42	19.07	12.29	170.99	10.93	120.47	840.79	815.31	25.48	33.004			
5,900.00	5,732.42	5,735.47	5,732.42	19.21	12.52	170.99	10.93	120.47	840.79	814.89	25.90	32.469			
6,000.00	5,832.42	5,835.47	5,832.42	19.35	12.74	170.99	10.93	120.47	840.79	814.47	26.32	31.950			
6,100.00	5,932.42	5,935.47	5,932.42	19.49	12.96	170.99	10.93	120.47	840.79	814.05	26.74	31.446			
6,200.00	6,032.42	6,035.47	6,032.42	19.64	13.18	170.99	10.93	120.47	840.79	813.63	27.16	30.957			
6,300.00	6,132.42	6,135.47	6,132.42	19.78	13.41	170.99	10.93	120.47	840.79	813.21	27.58	30.482			
6,400.00	6,232.42	6,235.47	6,232.42	19.93	13.63	170.99	10.93	120.47	840.79	812.78	28.01	30.020			
6,500.00	6,332.42	6,335.47	6,332.42	20.07	13.85	170.99	10.93	120.47	840.79	812.36	28.43	29.572			
6,600.00	6,432.42	6,435.47	6,432.42	20.22	14.07	170.99	10.93	120.47	840.79	811.93	28.86	29.136			
6,700.00	6,532.42	6,535.47	6,532.42	20.37	14.30	170.99	10.93	120.47	840.79	811.51	29.28	28.712			
6,800.00	6,632.42	6,635.47	6,632.42	20.52	14.52	170.99	10.93	120.47	840.79	811.08	29.71	28.299			
6,900.00	6,732.42	6,735.47	6,732.42	20.68	14.74	170.99	10.93	120.47	840.79	810.65	30.14	27.898			
7,000.00	6,832.42	6,835.47	6,832.42	20.83	14.97	170.99	10.93	120.47	840.79	810.22	30.57	27.507			
7,100.00	6,932.42	6,935.47	6,932.42	20.99	15.19	170.99	10.93	120.47	840.79	809.79	30.99	27.127			
7,200.00	7,032.42	7,035.47	7,032.42	21.14	15.41	170.99	10.93	120.47	840.79	809.37	31.42	26.756			
7,300.00	7,132.42	7,135.47	7,132.42	21.30	15.64	170.99	10.93	120.47	840.79	808.94	31.85	26.395			
7,400.00	7,232.42	7,235.47	7,232.42	21.46	15.86	170.99	10.93	120.47	840.79	808.50	32.28	26.043			
7,500.00	7,332.42	7,335.47	7,332.42	21.62	16.08	170.99	10.93	120.47	840.79	808.07	32.72	25.700			
7,600.00	7,432.42	7,435.47	7,432.42	21.78	16.31	170.99	10.93	120.47	840.79	807.64	33.15	25.366			
7,700.00	7,532.42	7,535.47	7,532.42	21.95	16.53	170.99	10.93	120.47	840.79	807.21	33.58	25.040			
7,800.00	7,632.42	7,635.47	7,632.42	22.11	16.75	170.99	10.93	120.47	840.79	806.78	34.01	24.722			
7,900.00	7,732.42	7,735.47	7,732.42	22.27	16.98	170.99	10.93	120.47	840.79	806.35	34.44	24.411			
8,000.00	7,832.42	7,835.47	7,832.42	22.44	17.20	170.99	10.93	120.47	840.79	805.91	34.88	24.108			
8,100.00	7,932.42	7,935.47	7,932.42	22.61	17.42	170.99	10.93	120.47	840.79	805.48	35.31	23.812			
8,200.00	8,032.42	8,035.47	8,032.42	22.77	17.65	170.99	10.93	120.47	840.79	805.05	35.74	23.523			
8,300.00	8,132.42	8,135.47	8,132.42	22.94	17.87	170.99	10.93	120.47	840.79	804.61	36.18	23.241			
8,400.00	8,232.42	8,235.47	8,232.42	23.11	18.10	170.99	10.93	120.47	840.79	804.18	36.61	22.965			
8,500.00	8,332.42	8,335.47	8,332.42	23.28	18.32	170.99	10.93	120.47	840.79	803.74	37.05	22.695			
8,600.00	8,432.42	8,435.47	8,432.42	23.46	18.54	170.99	10.93	120.47	840.79	803.31	37.48	22.432			
8,700.00	8,532.42	8,535.47	8,532.42	23.63	18.77	170.99	10.93	120.47	840.79	802.87	37.92	22.174			
8,767.58	8,600.00	8,603.06	8,600.00	23.74	18.92	170.99	10.93	120.47	840.79	802.58	38.21	22.003			



Company:	ANADARKO PETROLEUM CORP.	Local Co-ordinate Reference:	Well NBU 922-36L3DS
Project:	UINTAH COUNTY, UTAH (nad 27)	TVD Reference:	WELL @ 4984.00ft (Original Well Elev)
Reference Site:	NBU 922-36M PAD	MD Reference:	WELL @ 4984.00ft (Original Well Elev)
Site Error:	0.00ft	North Reference:	True
Reference Well:	NBU 922-36L3DS	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	NBU 922-36L3DS	Database:	EDM 2003.21 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft	
Survey Program: 0-MWD													Offset Well Error:		0.00 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
0.00	0.00	0.00	0.00	0.00	0.00	90.00	0.00	58.83	58.83						
100.00	100.00	100.00	100.00	0.09	0.09	90.00	0.00	58.83	58.83	58.65	0.18	319.201			
200.00	200.00	200.00	200.00	0.32	0.32	90.00	0.00	58.83	58.83	58.20	0.63	92.817			
300.00	300.00	300.00	300.00	0.54	0.54	90.00	0.00	58.83	58.83	57.75	1.08	54.304			
400.00	400.00	400.00	400.00	0.77	0.77	90.00	0.00	58.83	58.83	57.30	1.53	38.379			
500.00	500.00	500.00	500.00	0.99	0.99	90.00	0.00	58.83	58.83	56.85	1.98	29.676			
600.00	600.00	600.00	600.00	1.22	1.22	90.00	0.00	58.83	58.83	56.40	2.43	24.191			
700.00	700.00	700.00	700.00	1.44	1.44	90.00	0.00	58.83	58.83	55.95	2.88	20.417			
800.00	800.00	800.00	800.00	1.67	1.67	90.00	0.00	58.83	58.83	55.50	3.33	17.662			
900.00	900.00	900.00	900.00	1.89	1.89	90.00	0.00	58.83	58.83	55.05	3.78	15.562			
1,000.00	1,000.00	1,000.00	1,000.00	2.12	2.12	90.00	0.00	58.83	58.83	54.60	4.23	13.908			
1,100.00	1,100.00	1,100.00	1,100.00	2.34	2.34	90.00	0.00	58.83	58.83	54.15	4.68	12.572			
1,200.00	1,200.00	1,200.00	1,200.00	2.56	2.56	90.00	0.00	58.83	58.83	53.70	5.13	11.470			
1,300.00	1,300.00	1,300.00	1,300.00	2.79	2.79	90.00	0.00	58.83	58.83	53.25	5.58	10.546			
1,400.00	1,400.00	1,400.00	1,400.00	3.01	3.01	90.00	0.00	58.83	58.83	52.80	6.03	9.759			
1,500.00	1,500.00	1,500.00	1,500.00	3.24	3.24	90.00	0.00	58.83	58.83	52.35	6.48	9.082			
1,600.00	1,600.00	1,600.00	1,600.00	3.46	3.46	90.00	0.00	58.83	58.83	51.90	6.93	8.493			
1,700.00	1,700.00	1,700.00	1,700.00	3.69	3.69	90.00	0.00	58.83	58.83	51.45	7.38	7.975			
1,800.00	1,800.00	1,800.00	1,800.00	3.91	3.91	90.00	0.00	58.83	58.83	51.01	7.83	7.517			
1,900.00	1,900.00	1,900.00	1,900.00	4.14	4.14	90.00	0.00	58.83	58.83	50.56	8.28	7.109			
2,000.00	2,000.00	2,000.00	2,000.00	4.36	4.36	90.00	0.00	58.83	58.83	50.11	8.73	6.743	CC, ES, SF		
2,100.00	2,100.00	2,096.42	2,096.36	4.59	4.57	90.04	-0.05	61.67	61.78	52.62	9.15	6.749			
2,200.00	2,199.95	2,192.12	2,191.68	4.81	4.77	92.70	-0.20	70.09	70.67	61.10	9.57	7.384			
2,300.00	2,299.63	2,286.23	2,284.78	5.04	4.98	97.08	-0.44	83.79	85.93	75.94	9.99	8.603			
2,400.00	2,398.77	2,377.91	2,374.56	5.27	5.21	101.90	-0.77	102.25	108.14	97.73	10.41	10.387			
2,500.00	2,497.08	2,466.43	2,460.14	5.51	5.48	106.05	-1.17	124.82	137.56	126.72	10.85	12.684			
2,600.00	2,594.31	2,551.19	2,540.84	5.79	5.80	109.22	-1.63	150.74	174.04	162.74	11.30	15.401			
2,700.00	2,690.18	2,631.75	2,616.19	6.11	6.15	111.43	-2.13	179.21	217.20	205.41	11.79	18.426			
2,800.00	2,784.43	2,707.80	2,685.95	6.50	6.55	112.85	-2.67	209.45	266.56	254.24	12.32	21.638			
2,900.00	2,876.81	2,779.14	2,750.06	6.96	7.00	113.60	-3.22	240.75	321.59	308.68	12.91	24.913			
3,000.00	2,967.06	2,845.73	2,808.60	7.50	7.47	113.80	-3.78	272.44	381.79	368.23	13.56	28.156			
3,029.84	2,993.54	2,867.31	2,827.33	7.68	7.64	113.86	-3.97	283.16	400.63	386.86	13.77	29.086			
3,100.00	3,055.55	2,920.60	2,873.57	8.13	8.08	115.49	-4.44	309.65	445.28	430.96	14.32	31.100			
3,200.00	3,143.93	2,996.56	2,939.48	8.81	8.72	117.32	-5.11	347.41	509.22	494.09	15.14	33.644			
3,300.00	3,232.31	3,072.52	3,005.39	9.52	9.41	118.76	-5.78	385.17	573.41	557.40	16.01	35.819			
3,400.00	3,320.69	3,148.48	3,071.30	10.26	10.11	119.91	-6.45	422.93	637.77	620.85	16.92	37.686			
3,500.00	3,409.07	3,224.45	3,137.21	11.03	10.83	120.85	-7.12	460.69	702.26	684.38	17.87	39.289			
3,600.00	3,497.45	3,300.41	3,203.12	11.81	11.56	121.63	-7.78	498.45	766.84	747.98	18.85	40.671			
3,700.00	3,585.83	3,376.37	3,269.03	12.61	12.31	122.29	-8.45	536.21	831.48	811.62	19.86	41.858			
3,784.77	3,660.75	3,440.77	3,324.90	13.30	12.96	122.78	-9.02	568.22	886.33	865.60	20.74	42.742			
3,800.00	3,674.23	3,452.35	3,334.96	13.41	13.07	123.13	-9.12	573.98	896.17	875.27	20.90	42.874			
3,900.00	3,763.90	3,529.47	3,401.87	14.05	13.85	125.14	-9.80	612.31	959.70	937.75	21.95	43.725			
4,000.00	3,855.42	3,608.26	3,470.22	14.65	14.65	126.74	-10.50	651.47	1,021.28	998.25	23.03	44.355			
4,100.00	3,948.60	3,688.55	3,539.89	15.22	15.48	127.99	-11.20	691.39	1,080.78	1,056.67	24.12	44.817			
4,200.00	4,043.28	3,770.20	3,610.74	15.74	16.33	128.95	-11.92	731.97	1,138.14	1,112.93	25.20	45.159			
4,300.00	4,139.27	3,853.05	3,682.63	16.22	17.19	129.67	-12.65	773.16	1,193.28	1,167.01	26.27	45.420			
4,400.00	4,236.39	3,936.95	3,755.42	16.65	18.07	130.17	-13.39	814.87	1,246.19	1,218.87	27.31	45.628			
4,500.00	4,334.45	4,021.74	3,828.99	17.02	18.97	130.49	-14.14	857.01	1,296.85	1,268.54	28.31	45.807			
4,600.00	4,433.28	4,107.25	3,903.18	17.33	19.87	130.65	-14.89	899.52	1,345.27	1,316.01	29.26	45.977			
4,700.00	4,532.67	4,193.32	3,977.86	17.58	20.79	130.66	-15.65	942.30	1,391.49	1,361.34	30.15	46.155			
4,800.00	4,632.45	4,279.79	4,052.89	17.78	21.71	130.54	-16.41	985.29	1,435.54	1,404.57	30.97	46.354			
4,900.58	4,733.00	4,367.00	4,128.56	17.91	22.64	129.54	-17.18	1,028.64	1,477.73	1,446.01	31.72	46.587			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Weatherford International Ltd.
Anticollision Report



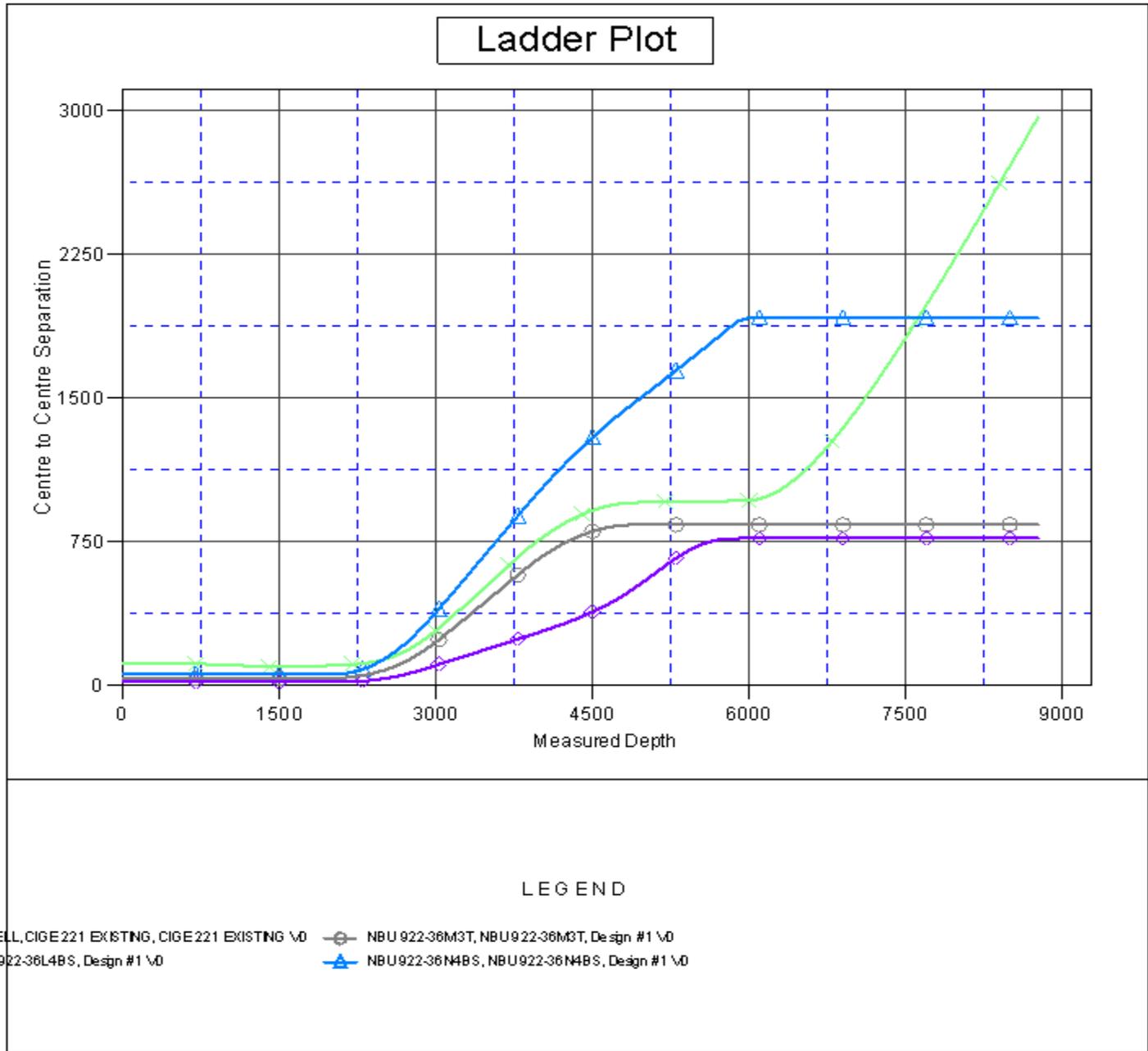
Company:	ANADARKO PETROLEUM CORP.	Local Co-ordinate Reference:	Well NBU 922-36L3DS
Project:	UINTAH COUNTY, UTAH (nad 27)	TVD Reference:	WELL @ 4984.00ft (Original Well Elev)
Reference Site:	NBU 922-36M PAD	MD Reference:	WELL @ 4984.00ft (Original Well Elev)
Site Error:	0.00ft	North Reference:	True
Reference Well:	NBU 922-36L3DS	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	NBU 922-36L3DS	Database:	EDM 2003.21 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft	
Survey Program: 0-MWD													Offset Well Error:		0.00 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
5,000.00	4,832.42	4,453.26	4,203.40	18.03	23.56	128.44	-17.94	1,071.51	1,518.65	1,486.33	32.33	46.978			
5,100.00	4,932.42	4,540.03	4,278.69	18.15	24.49	127.38	-18.70	1,114.64	1,560.31	1,527.39	32.93	47.386			
5,200.00	5,032.42	4,626.80	4,353.97	18.28	25.43	126.37	-19.46	1,157.77	1,602.43	1,568.92	33.51	47.816			
5,300.00	5,132.42	4,713.56	4,429.25	18.41	26.36	125.41	-20.23	1,200.90	1,644.98	1,610.90	34.08	48.265			
5,400.00	5,232.42	4,800.33	4,504.54	18.54	27.30	124.49	-20.99	1,244.03	1,687.92	1,653.28	34.64	48.729			
5,500.00	5,332.42	4,887.09	4,579.82	18.67	28.23	123.61	-21.76	1,287.16	1,731.22	1,696.03	35.18	49.206			
5,600.00	5,432.42	4,973.86	4,655.10	18.80	29.17	122.78	-22.52	1,330.29	1,774.85	1,739.14	35.72	49.693			
5,700.00	5,532.42	5,060.62	4,730.38	18.94	30.11	121.98	-23.29	1,373.42	1,818.80	1,782.56	36.24	50.187			
5,800.00	5,632.42	5,147.39	4,805.67	19.07	31.05	121.22	-24.05	1,416.55	1,863.04	1,826.28	36.75	50.688			
5,900.00	5,732.42	5,234.16	4,880.96	19.21	31.99	120.48	-24.81	1,458.70	1,906.29	1,868.40	37.26	51.199			
6,000.00	5,832.42	5,320.93	4,956.25	19.35	32.93	119.75	-25.57	1,500.85	1,949.54	1,913.65	37.76	51.720			
6,100.00	5,932.42	5,407.70	5,031.54	19.49	33.87	119.03	-26.33	1,542.99	1,992.79	1,960.90	38.26	52.249			
6,200.00	6,032.42	5,493.47	5,106.83	19.64	34.81	118.31	-27.09	1,585.14	2,036.04	2,008.15	38.76	52.787			
6,300.00	6,132.42	5,579.24	5,181.92	19.78	35.75	117.60	-27.85	1,627.28	2,079.29	2,055.40	39.26	53.332			
6,400.00	6,232.42	5,665.01	5,257.01	19.93	36.69	116.90	-28.61	1,669.43	2,122.54	2,102.65	39.76	53.883			
6,500.00	6,332.42	5,750.78	5,332.10	20.07	37.63	116.21	-29.37	1,711.57	2,165.79	2,149.90	40.26	54.440			
6,600.00	6,432.42	5,836.55	5,407.19	20.22	38.57	115.53	-30.13	1,753.71	2,209.04	2,197.15	40.76	55.002			
6,700.00	6,532.42	5,922.32	5,482.28	20.37	39.51	114.85	-30.89	1,795.85	2,252.29	2,244.40	41.26	55.569			
6,800.00	6,632.42	6,008.09	5,557.37	20.52	40.45	114.17	-31.65	1,838.00	2,295.54	2,291.65	41.76	56.141			
6,900.00	6,732.42	6,093.86	5,632.46	20.68	41.39	113.50	-32.41	1,880.14	2,338.79	2,338.90	42.26	56.718			
7,000.00	6,832.42	6,179.63	5,707.55	20.83	42.33	112.82	-33.17	1,922.28	2,382.04	2,386.15	42.76	57.300			
7,100.00	6,932.42	6,265.40	5,782.64	20.99	43.27	112.15	-33.93	1,964.43	2,425.29	2,433.40	43.26	57.887			
7,200.00	7,032.42	6,351.17	5,857.73	21.14	44.21	111.47	-34.69	2,006.57	2,468.54	2,480.65	43.76	58.479			
7,300.00	7,132.42	6,436.94	5,932.82	21.30	45.15	110.80	-35.45	2,048.71	2,511.79	2,527.90	44.26	59.076			
7,400.00	7,232.42	6,522.71	6,007.91	21.46	46.09	110.13	-36.21	2,090.85	2,555.04	2,575.15	44.76	59.678			
7,500.00	7,332.42	6,608.48	6,083.00	21.62	47.03	109.45	-36.97	2,133.00	2,598.29	2,622.40	45.26	60.285			
7,600.00	7,432.42	6,694.25	6,158.09	21.78	47.97	108.77	-37.73	2,175.14	2,641.54	2,669.65	45.76	60.897			
7,700.00	7,532.42	6,779.92	6,233.18	21.95	48.91	108.10	-38.49	2,217.28	2,684.79	2,716.90	46.26	61.514			
7,800.00	7,632.42	6,865.69	6,308.27	22.11	49.85	107.43	-39.25	2,259.43	2,728.04	2,764.15	46.76	62.136			
7,900.00	7,732.42	6,951.46	6,383.36	22.27	50.79	106.75	-40.01	2,301.57	2,771.29	2,811.40	47.26	62.763			
8,000.00	7,832.42	7,037.23	6,458.45	22.44	51.73	106.07	-40.77	2,343.71	2,814.54	2,858.65	47.76	63.395			
8,100.00	7,932.42	7,123.00	6,533.54	22.61	52.67	105.40	-41.53	2,385.85	2,857.79	2,905.90	48.26	64.032			
8,200.00	8,032.42	7,208.77	6,608.63	22.77	53.61	104.73	-42.29	2,428.00	2,901.04	2,953.15	48.76	64.674			
8,300.00	8,132.42	7,294.54	6,683.72	22.94	54.55	104.05	-43.05	2,470.14	2,944.29	3,000.40	49.26	65.321			
8,400.00	8,232.42	7,380.31	6,758.81	23.11	55.49	103.37	-43.81	2,512.28	2,987.54	3,047.65	49.76	65.973			
8,500.00	8,332.42	7,466.08	6,833.90	23.28	56.43	102.70	-44.57	2,554.43	3,030.79	3,094.90	50.26	66.630			
8,600.00	8,432.42	7,551.85	6,909.00	23.46	57.37	102.03	-45.33	2,596.57	3,074.04	3,142.15	50.76	67.292			
8,700.00	8,532.42	7,637.62	6,984.09	23.63	58.31	101.35	-46.09	2,638.71	3,117.29	3,189.40	51.26	67.959			
8,767.58	8,600.00	8,994.32	8,600.00	23.74	59.00	101.00	-46.40	2,680.85	3,160.54	3,236.65	51.76	68.631			



Company:	ANADARKO PETROLEUM CORP.	Local Co-ordinate Reference:	Well NBU 922-36L3DS
Project:	UINTAH COUNTY, UTAH (nad 27)	TVD Reference:	WELL @ 4984.00ft (Original Well Elev)
Reference Site:	NBU 922-36M PAD	MD Reference:	WELL @ 4984.00ft (Original Well Elev)
Site Error:	0.00ft	North Reference:	True
Reference Well:	NBU 922-36L3DS	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	NBU 922-36L3DS	Database:	EDM 2003.21 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

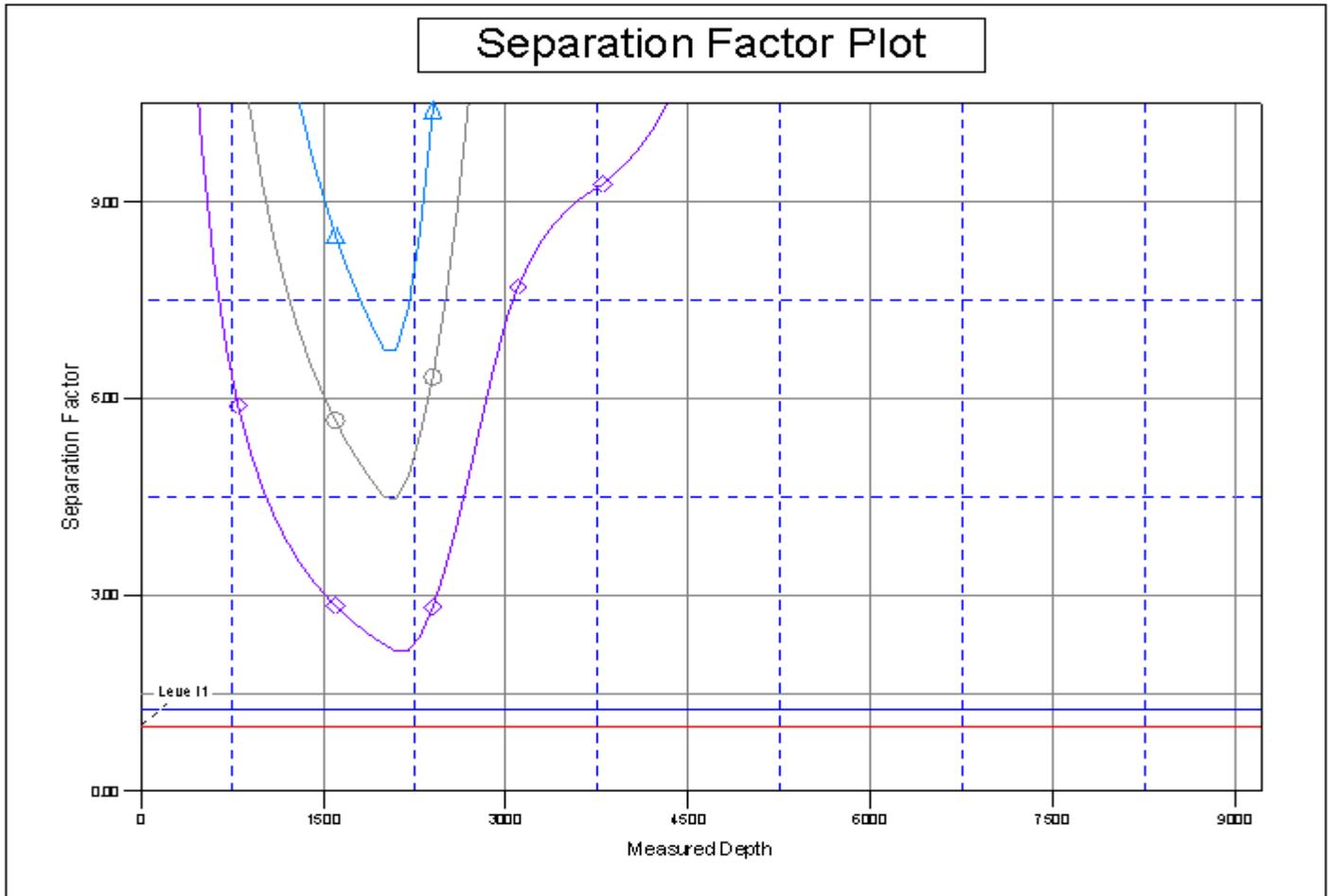
Reference Depths are relative to WELL @ 4984.00ft (Original Well Elev) Coordinates are relative to: NBU 922-36L3DS
 Offset Depths are relative to Offset Datum Coordinate System is Universal Transverse Mercator (US Survey Feet), Zone 12N
 Central Meridian is 111° 0' 0.000 W ° Grid Convergence at Surface is: 1.03°





Company:	ANADARKO PETROLEUM CORP.	Local Co-ordinate Reference:	Well NBU 922-36L3DS
Project:	UINTAH COUNTY, UTAH (nad 27)	TVD Reference:	WELL @ 4984.00ft (Original Well Elev)
Reference Site:	NBU 922-36M PAD	MD Reference:	WELL @ 4984.00ft (Original Well Elev)
Site Error:	0.00ft	North Reference:	True
Reference Well:	NBU 922-36L3DS	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00ft	Output errors are at	2.00 sigma
Reference Wellbore	NBU 922-36L3DS	Database:	EDM 2003.21 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 4984.00ft (Original Well Elev) Coordinates are relative to: NBU 922-36L3DS
 Offset Depths are relative to Offset Datum Coordinate System is Universal Transverse Mercator (US Survey Feet), Zone 12N
 Central Meridian is 111° 0' 0.000 W ° Grid Convergence at Surface is: 1.03°



LEGEND

- WELL, CIGE 221 EXISTING, CIGE 221 EXISTING \0
- J922-36L4BS, Design #1 \0
- NBU 922-36M3T, NBU 922-36M3T, Design #1 \0
- ▲ NBU 922-36N4BS, NBU 922-36N4BS, Design #1 \0



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Robert Scott

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NBU 922-36L3DS

Pad: NBU 922-36M (CIGE 221)
Surface: 539' FSL, 393' FWL (SW/4SW/4)
BHL: 1,380' FSL 385' FWL (SW/4SW/4)
Sec. 36 T9S R22E

Uintah, Utah
Mineral Lease: ML22650

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	1,216'	
Birds Nest	1,423'	Water
Mahogany	1,927'	Water
Wasatch	4,233'	Gas
Mesaverde	6,519'	Gas
MVU2	7,441'	Gas
MVL1	8,025'	Gas
TVD	8,600'	
TD	8,768'	

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 8,768' TD, approximately equals 5,190 psi (calculated at 0.57 psi/foot).

Maximum anticipated surface pressure equals approximately 3,198 psi (bottomhole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

8. Anticipated Starting Dates:

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

9. Variations:

Please refer to the attached Drilling Program.

Onshore Order #2 – Air Drilling Variance

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

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

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

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

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

Background

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

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

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

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

Variance for BOPE Requirements

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

Variance for Mud Material Requirements

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

Variance for Special Drilling Operation (surface equipment placement) Requirements

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

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

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

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

Conclusion

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

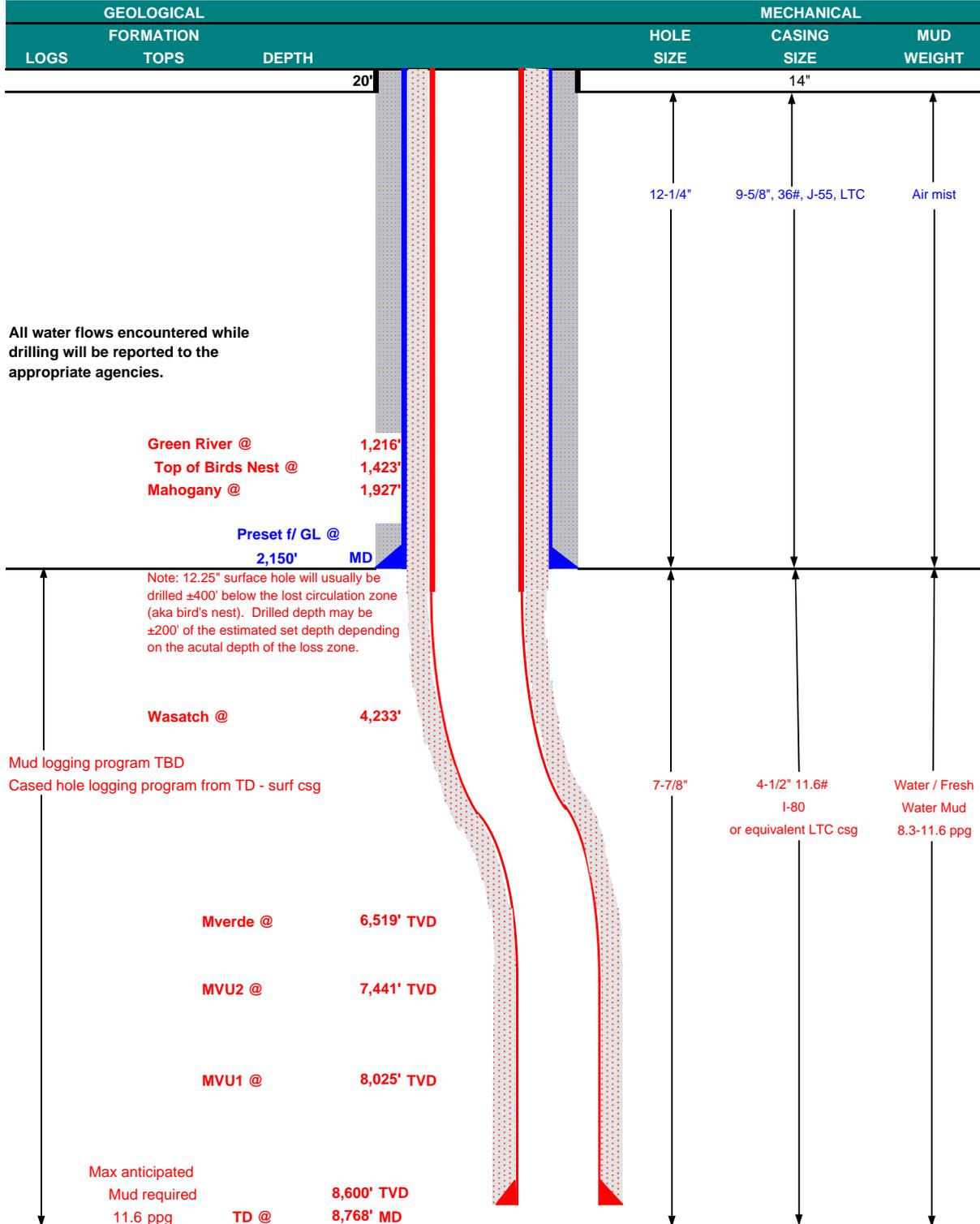
10. Other Information:

Please refer to the attached Drilling Program.



KERR-McGEE OIL & GAS ONSHORE LP DRILLING PROGRAM

COMPANY NAME	KERR-McGEE OIL & GAS ONSHORE LP		DATE	June 8, 2009			
WELL NAME	NBU 922-36L3DS		TD	8,600'	TVD	8,768' MD	
FIELD	Natural Buttes	COUNTY	Uintah	STATE	Utah	ELEVATION	4,968' GL KB 4,983'
SURFACE LOCATION	SW/4 SW/4	539' FSL	393' FWL	Sec 36	T 9S	R 22E	
	Latitude:	39.986760	Longitude:	-109.395633		NAD 27	
BTM HOLE LOCATION	NW/4 SW/4	1,380' FSL	385' FWL	Sec 36	T 9S	R 22E	
	Latitude:	39.989069	Longitude:	-109.395666		NAD 27	
OBJECTIVE ZONE(S)	Wasatch/Mesaverde						
ADDITIONAL INFO	Regulatory Agencies: SITLA (Minerals), UDOGM (Surface), Tri-County Health Dept.						





**KERR-McGEE OIL & GAS ONSHORE LP
DRILLING PROGRAM**

CASING PROGRAM

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS		
						BURST	COLLAPSE	TENSION
CONDUCTOR	14"	0-40'				3,520	2,020	453,000
SURFACE	9-5/8"	0 to 2,150	36.00	J-55	LTC	1.05	2.01	7.45
						7,780	6,350	201,000
PRODUCTION	4-1/2"	0 to 8,768	11.60	I-80	LTC	2.36	1.22	2.26

- 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 = 11.6 ppg) 0.22 psi/ft = gradient for partially evac wellbore
 (Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoys.Fact. of water)
MASP 3,198 psi
- 3) Maximum Anticipated Bottom Hole Pressure (MABHP) = Pore Pressure at TD
 (Burst Assumptions: TD = 11.6 ppg) 0.59 psi/ft = bottomhole gradient
 (Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoys.Fact. of water)
MABHP 5,190 psi

CEMENT PROGRAM

	FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE Option 1	LEAD 500'	Premium cmt + 2% CaCl + 0.25 pps flocele	215	60%	15.60	1.18
	TOP OUT CMT (6 jobs) 1,200'	20 gals sodium silicate + Premium cmt + 2% CaCl + 0.25 pps flocele Premium cmt + 2% CaCl	380	0%	15.60	1.18
SURFACE Option 2	NOTE: If well will circulate water to surface, option 2 will be utilized					
	LEAD 1,650'	65/35 Poz + 6% Gel + 10 pps gilsonite + 0.25 pps Flocele + 3% salt BWOW	390	35%	12.60	1.81
	TAIL 500'	Premium cmt + 2% CaCl + 0.25 pps flocele	180	35%	15.60	1.18
	TOP OUT CMT as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
PRODUCTION	LEAD 3,728'	Premium Lite II + 3% KCl + 0.25 pps celloflake + 5 pps gilsonite + 10% gel + 0.5% extender	350	40%	11.00	3.38
	TAIL 5,040'	50/50 Poz/G + 10% salt + 2% gel + 0.1% R-3	1,240	40%	14.30	1.31

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

FLOAT EQUIPMENT & CENTRALIZERS

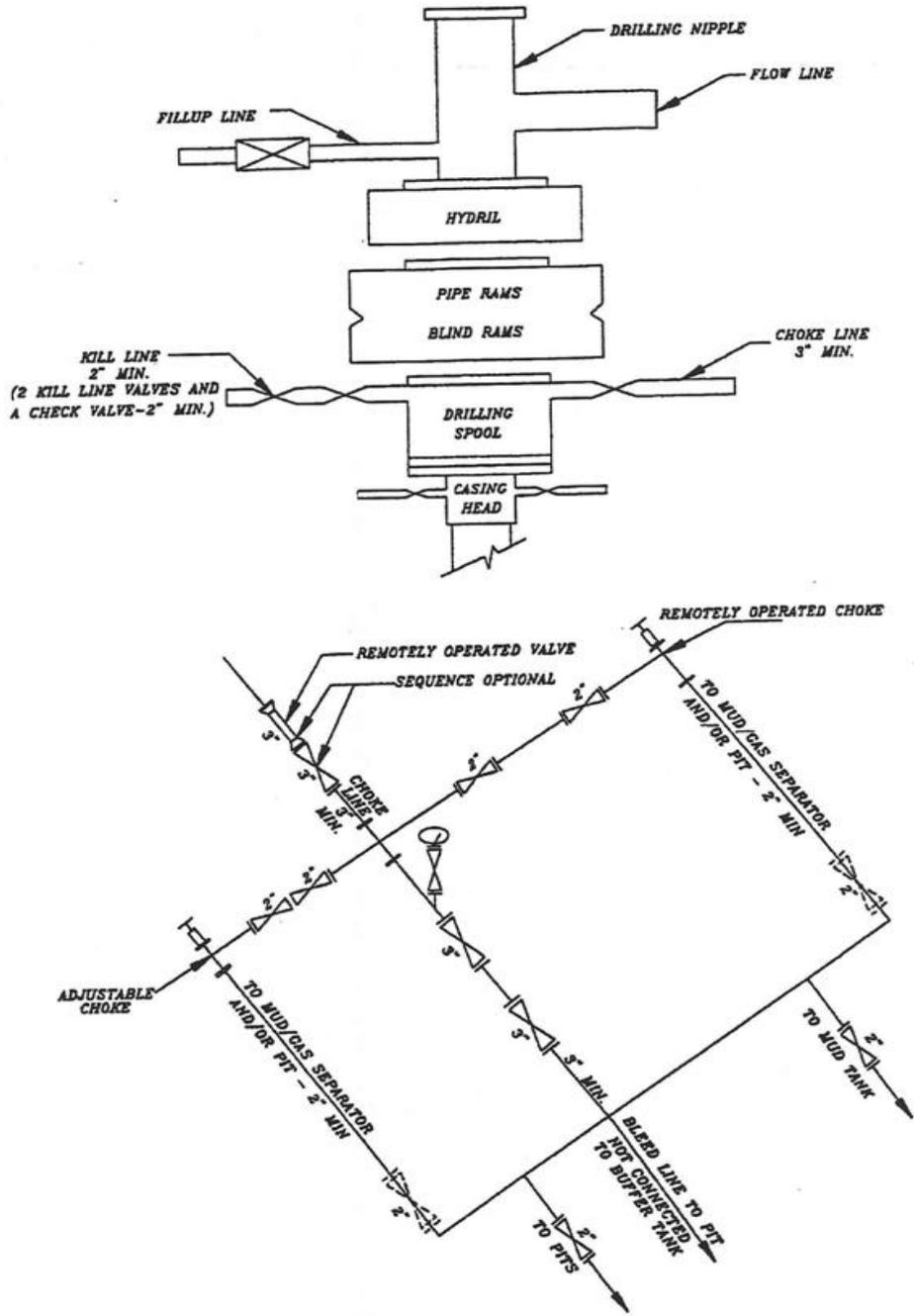
SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe
PRODUCTION	Float shoe, 1 jt, float collar. No centralizers will be used.

ADDITIONAL INFORMATION

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.
 BOPE: 11" 5M with one annular and 2 rams. The BOPE will be installed before the production hole is drilled and tested to 5,000 psi (annular to 2,500 psi) prior to drilling out the surface casing shoe. Record on chart recorder and tour sheet. Function test rams on each trip. Maintain safety valve and inside BOP on rig floor at all times. Most rigs have top drives; however, if used, the Kelly is to be equipped with upper and lower kelly valves.
 Surveys will be taken at 1,000' minimum intervals.
 Most rigs have PVT System for mud monitoring. If no PVT is available, visual monitoring will be utilized.

DRILLING ENGINEER: _____ **DATE:** _____
 John Huycke / Emile Goodwin
DRILLING SUPERINTENDENT: _____ **DATE:** _____
 John Merkel / Lovel Young

EXHIBIT A NBU 922-36L3DS



SCHEMATIC DIAGRAM OF 5,000 PSI BOP STACK

WELL PAD INTERFERENCE PLAT

DIRECTIONAL PAD - CIGE 221



SURFACE POSITION FOOTAGES:

NBU 922-36M3T
538' FSL & 433' FWL

NBU 922-36L3DS
539' FSL & 393' FWL

NBU 922-36L4BS
539' FSL & 413' FWL

NBU 922-36N4BS
538' FSL & 453' FWL

CIGE 221 (Existing Well Head)
548' FSL & 513' FWL

BASIS OF BEARINGS IS THE SOUTH LINE OF THE SW 1/4 OF SECTION 36, T9S, R22E, S.L.B.&M. WHICH IS TAKEN FROM GLOBAL POSITIONING SATELLITE OBSERVATIONS TO BEAR S89°57'57"E.

BOTTOM HOLE FOOTAGES:

NBU 922-36L3DS
1380' FSL & 385' FWL

NBU 922-36L4BS
1925' FSL & 930' FWL

NBU 922-36N4BS
510' FSL & 2095' FWL

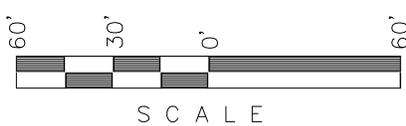
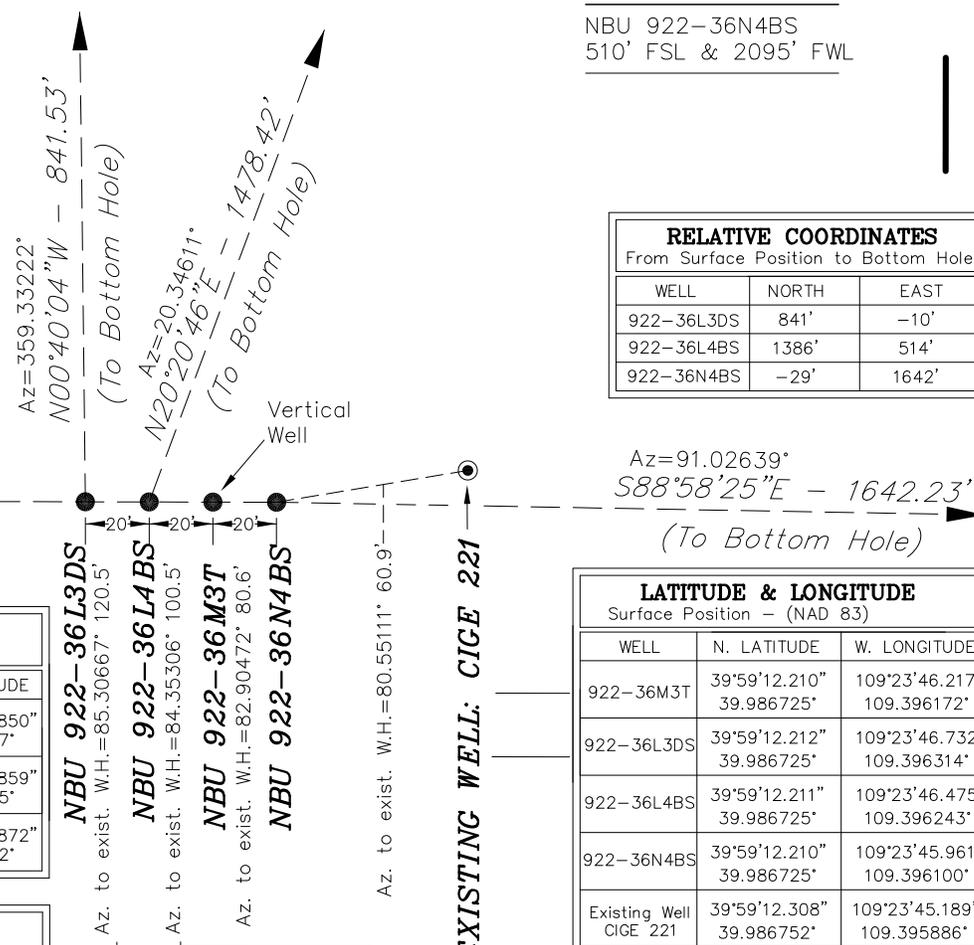
RELATIVE COORDINATES		
From Surface Position to Bottom Hole		
WELL	NORTH	EAST
922-36L3DS	841'	-10'
922-36L4BS	1386'	514'
922-36N4BS	-29'	1642'

LATITUDE & LONGITUDE		
Surface Position - (NAD 83)		
WELL	N. LATITUDE	W. LONGITUDE
922-36M3T	39°59'12.210" 39.986725°	109°23'46.217" 109.396172°
922-36L3DS	39°59'12.212" 39.986725°	109°23'46.732" 109.396314°
922-36L4BS	39°59'12.211" 39.986725°	109°23'46.475" 109.396243°
922-36N4BS	39°59'12.210" 39.986725°	109°23'45.961" 109.396100°
Existing Well CIGE 221	39°59'12.308" 39.986752°	109°23'45.189" 109.395886°

LATITUDE & LONGITUDE		
Surface Position - (NAD 27)		
WELL	N. LATITUDE	W. LONGITUDE
922-36M3T	39°59'12.334" 39.986760°	109°23'43.765" 109.395490°
922-36L3DS	39°59'12.336" 39.986760°	109°23'44.280" 109.395633°
922-36L4BS	39°59'12.335" 39.986760°	109°23'44.022" 109.395562°
922-36N4BS	39°59'12.334" 39.986759°	109°23'43.509" 109.395419°
Existing Well CIGE 221	39°59'12.432" 39.986787°	109°23'42.737" 109.395205°

LATITUDE & LONGITUDE		
Bottom Hole - (NAD 83)		
WELL	N. LATITUDE	W. LONGITUDE
922-36L3DS	39°59'20.525" 39.989035°	109°23'46.850" 109.396347°
922-36L4BS	39°59'25.902" 39.990528°	109°23'39.859" 109.394405°
922-36N4BS	39°59'11.906" 39.986641°	109°23'24.872" 109.390242°

LATITUDE & LONGITUDE		
Bottom Hole - (NAD 27)		
WELL	N. LATITUDE	W. LONGITUDE
922-36L3DS	39°59'20.649" 39.989069°	109°23'44.397" 109.395666°
922-36L4BS	39°59'26.027" 39.990563°	109°23'37.406" 109.393724°
922-36N4BS	39°59'12.030" 39.986675°	109°23'22.421" 109.389561°



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

NBU 922-36M3T, NBU 922-36L3DS,
 NBU 922-36L4BS & NBU 922-36N4BS
 LOCATED IN SECTION 36, T9S, R22E,
 S.L.B.&M. UINTAH COUNTY, UTAH.

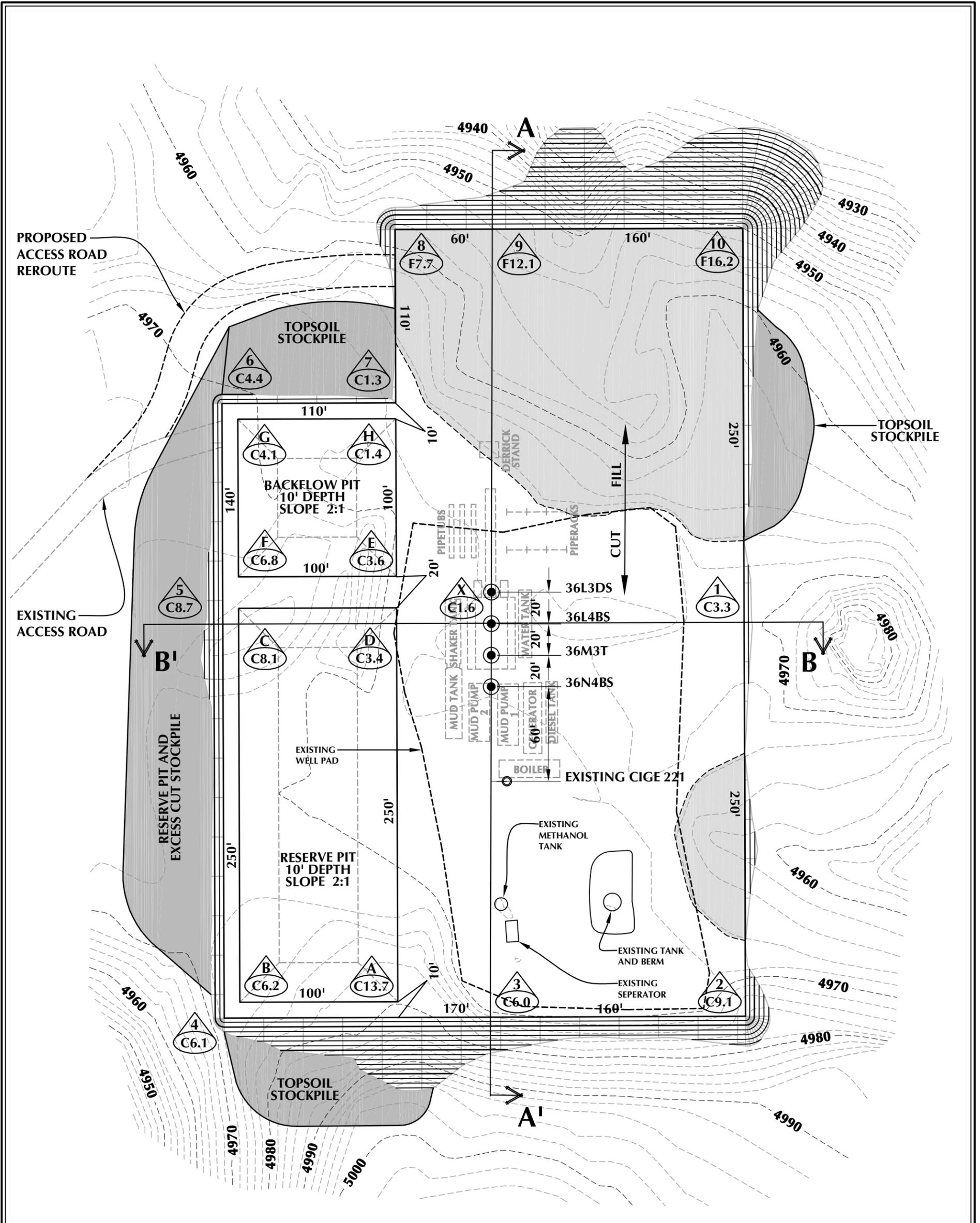


CONSULTING, LLC
 371 Coffeen Avenue
 Sheridan WY 82801
 Phone 307-674-0609
 Fax 307-674-0182

DATE SURVEYED: 09-16-08	SURVEYED BY: M.S.B.
DATE DRAWN: 10-03-08	DRAWN BY: E.M.S.
	REVISED: 1-28-09

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

SHEET
5
 OF 13



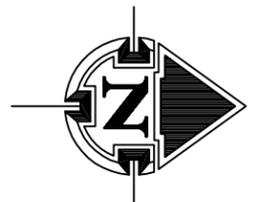
WELL PAD NBU CIGE 221 QUANTITIES

EXISTING GRADE @ CENTER OF PAD = 4,967.8'
 FINISHED GRADE ELEVATION = 4,966.2'
 CUT SLOPES = 1.5:1
 FILL SLOPES = 1.5:1

TOTAL CUT FOR WELL PAD = 15,149 C.Y.
 TOTAL FILL FOR WELL PAD = 14,648 C.Y.
 TOPSOIL @ 6" DEPTH = 2,345 C.Y.
 EXCESS MATERIAL = 501 C.Y.
 TOTAL DISTURBANCE = 4.07 ACRES
 SHRINKAGE FACTOR = 1.10
 SWELL FACTOR = 1.00
 RESERVE PIT CAPACITY (2' OF FREEBOARD)
 +/- 25,880 BARRELS
 RESERVE PIT VOLUME
 +/- 7,185 CY
 BACKFLOW PIT CAPACITY (2' OF FREEBOARD)
 +/- 8,780 BARRELS
 BACKFLOW PIT VOLUME
 +/- 2,520 CY

WELL PAD LEGEND

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



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

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

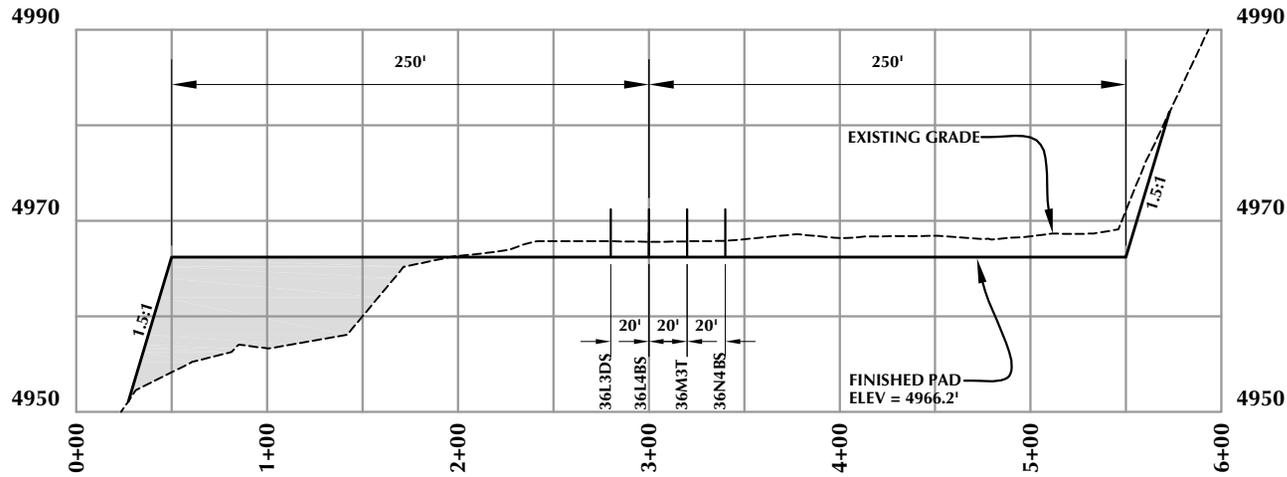


CONSULTING, LLC
 371 Coffeen Avenue
 Sheridan WY 82801
 Phone 307-674-0609
 Fax 307-674-0182

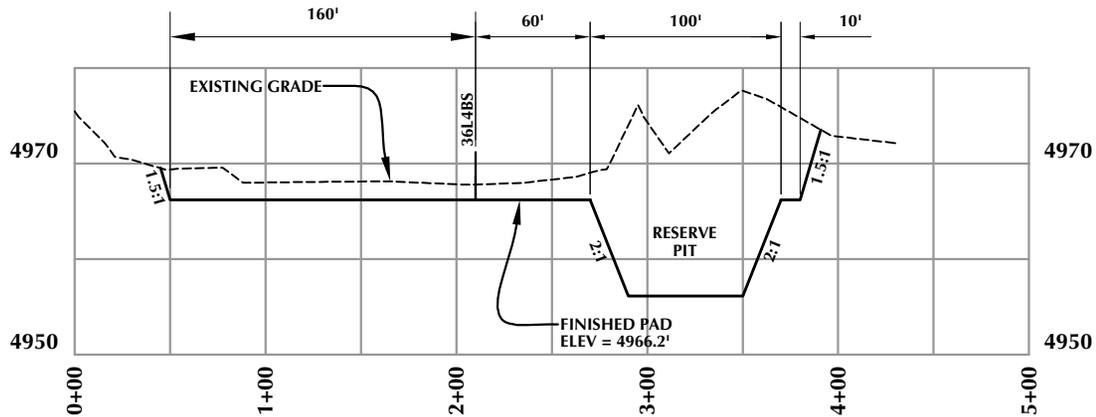
Scale: 1"=60'	Date: 1/29/09	SHEET NO:
REVISED:	BY DATE	6 6 OF 13

WELL PAD - LOCATION LAYOUT
 NBU 922-36M3T, NBU 922-36L3DS,
 NBU 922-36L4BS, NBU 922-36N4BS
 LOCATED IN SECTION 36, T.9S., R.22E.
 S.L.B.&M., UTAH COUNTY, UTAH

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 38 WEST 100 NORTH VERNAL, UTAH 84078



CROSS SECTION A-A'



CROSS SECTION B-B'

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

**KERR-MCGEE OIL & GAS
ONSHORE L.P.**

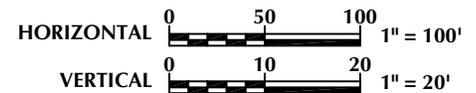
1099 18th Street - Denver, Colorado 80202

**WELL PAD - CROSS SECTIONS
NBU 922-36M3T, NBU 922-36L3DS,
NBU 922-36L4BS, NBU 922-36N4BS
LOCATED IN SECTION 36, T.9S., R.22E.
S.L.B.&M., UINTAH COUNTY, UTAH**



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

Scale: 1"=100'	Date: 1/29/09	SHEET NO:
REVISID:	BY DATE	7 7 OF 13



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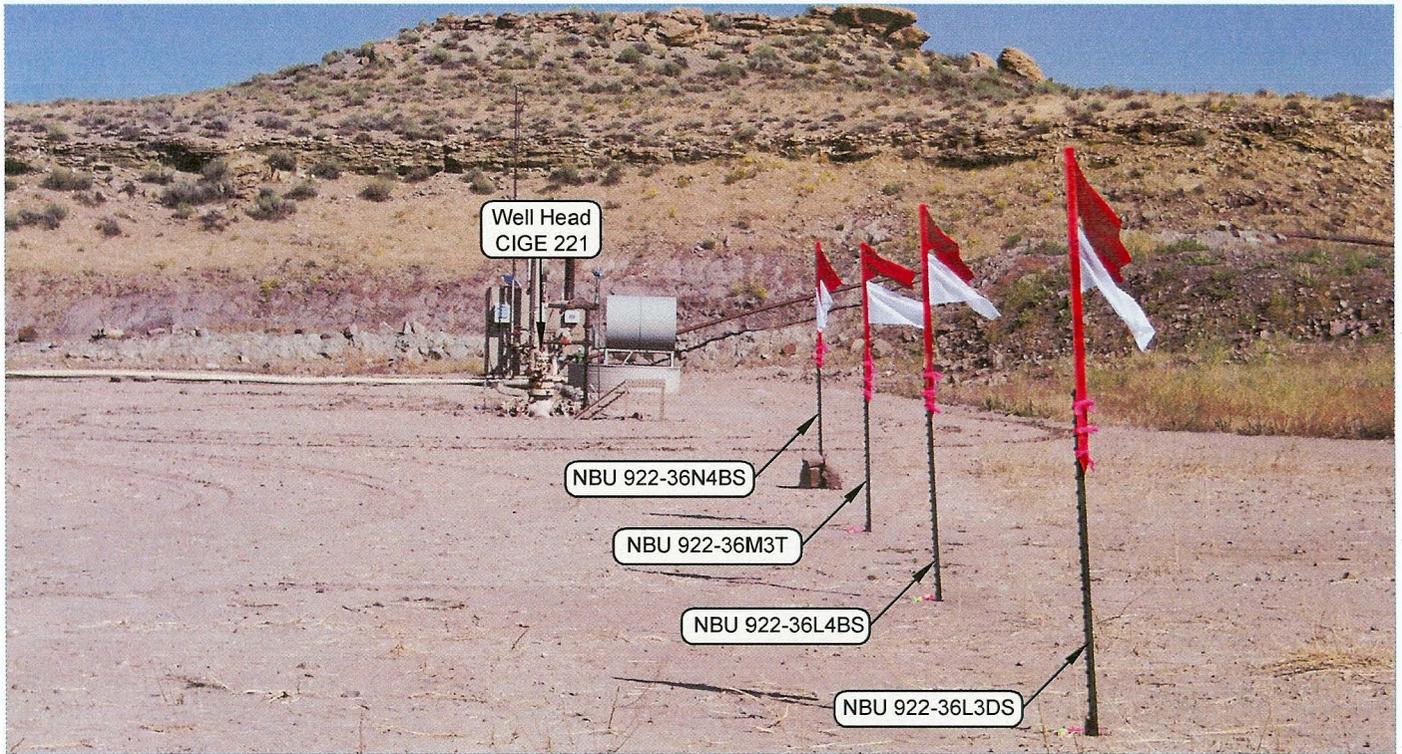


PHOTO VIEW: FROM LOCATION STAKES TO EXISTING WELL HEAD

CAMERA ANGLE: EASTERLY

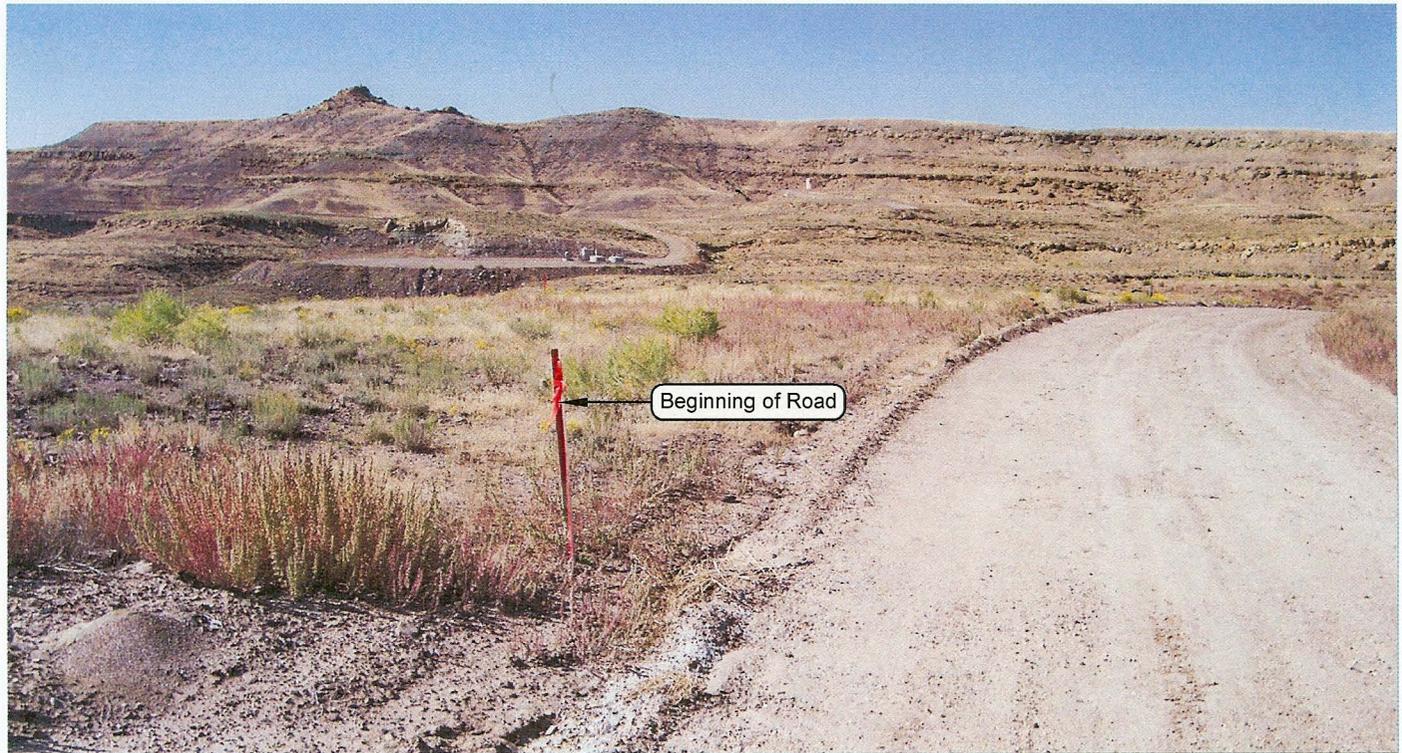
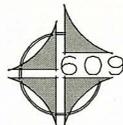


PHOTO VIEW: FROM BEGINNING OF PROPOSED ROAD

CAMERA ANGLE: NORTHWESTERLY

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 Fax 307-674-0182

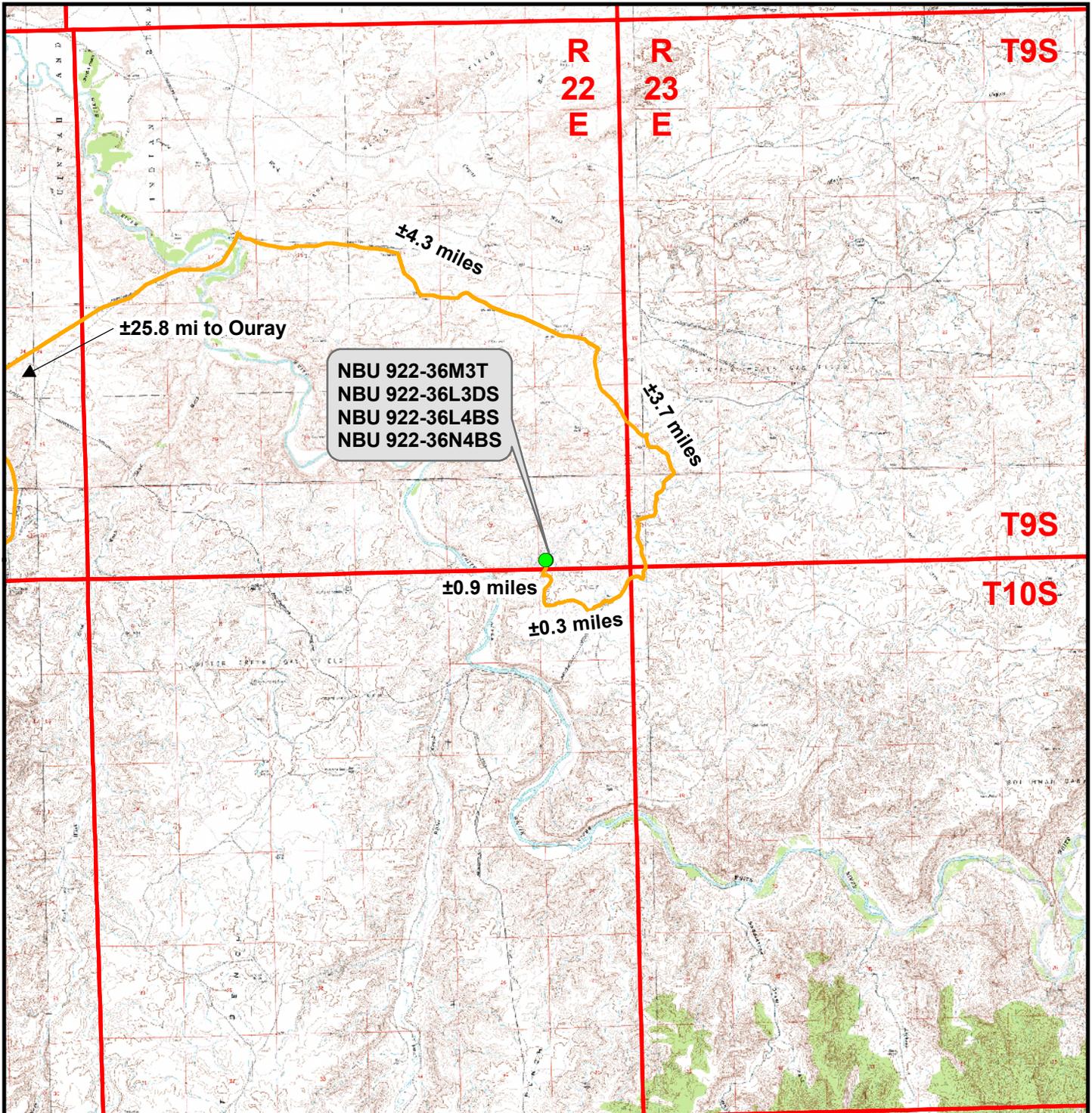
LOCATION PHOTOS

TAKEN BY: M.S.B.	DRAWN BY: E.M.S.	DATE TAKEN: 09-16-08
		DATE DRAWN: 10-03-08
		REVISED: 01-28-09

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

SHEET
8
OF 13

NBU 922-36M3T, NBU 922-36L3DS,
 NBU 922-36L4BS & NBU 922-36N4BS
 LOCATED IN SECTION 36, T9S, R22E,
 S.L.B.&M. UINTAH COUNTY, UTAH.



Legend

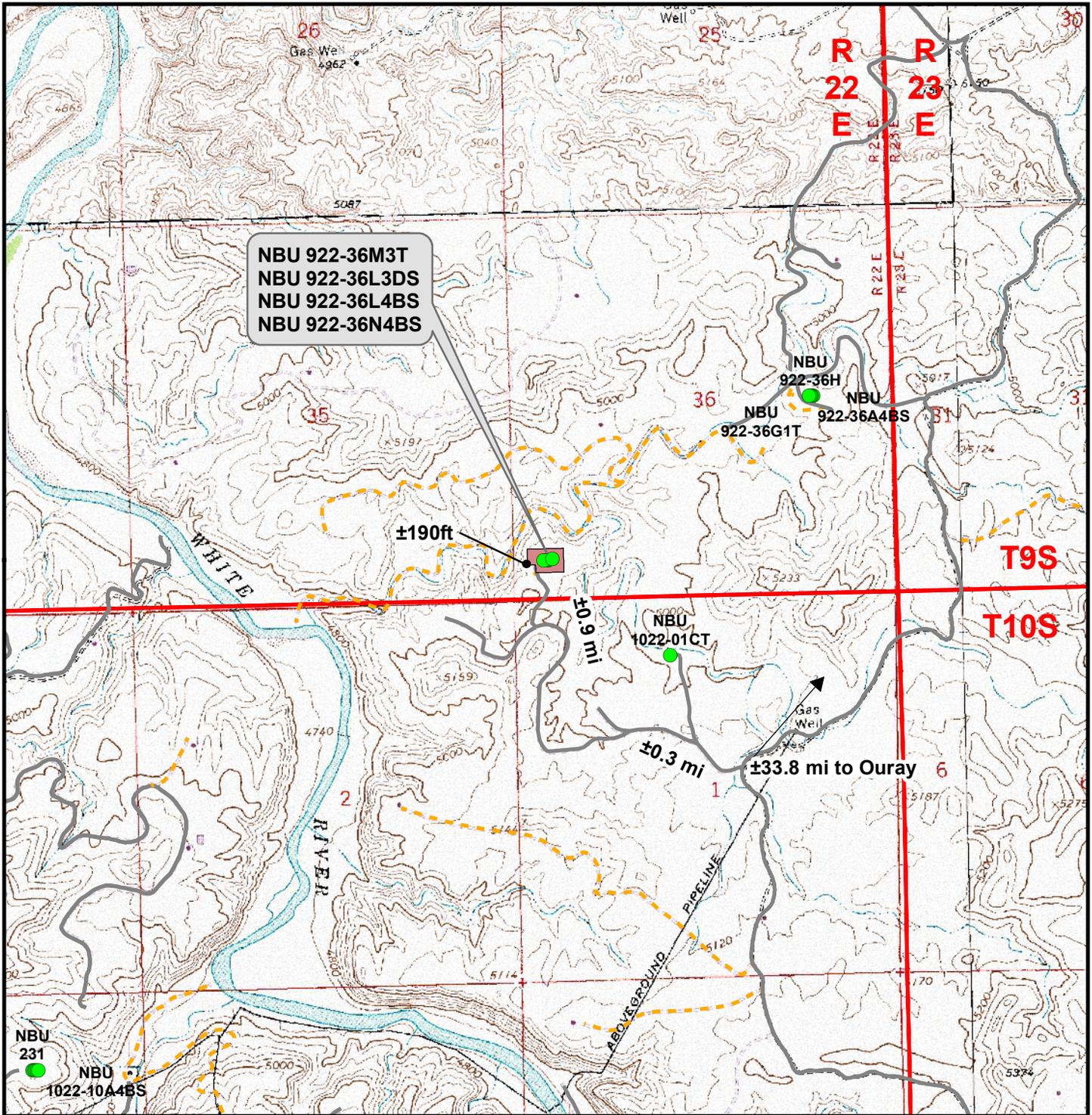
- Proposed Well Location
- Access Route - Proposed

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**NBU 922-36M3T, NBU 922-36L3DS,
 NBU 922-36L4BS & NBU 922-36N4BS**
Topo A
Located In Section 36, T9S, R22E
S.L.B.&M., Uintah County, Utah



Scale: 1:100,000	NAD83 USP Central	Sheet No:
Drawn: JELO	Date: 28 Jan 2009	9
Revised:	Date:	



Legend

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

Total Proposed Road Length: ±190ft

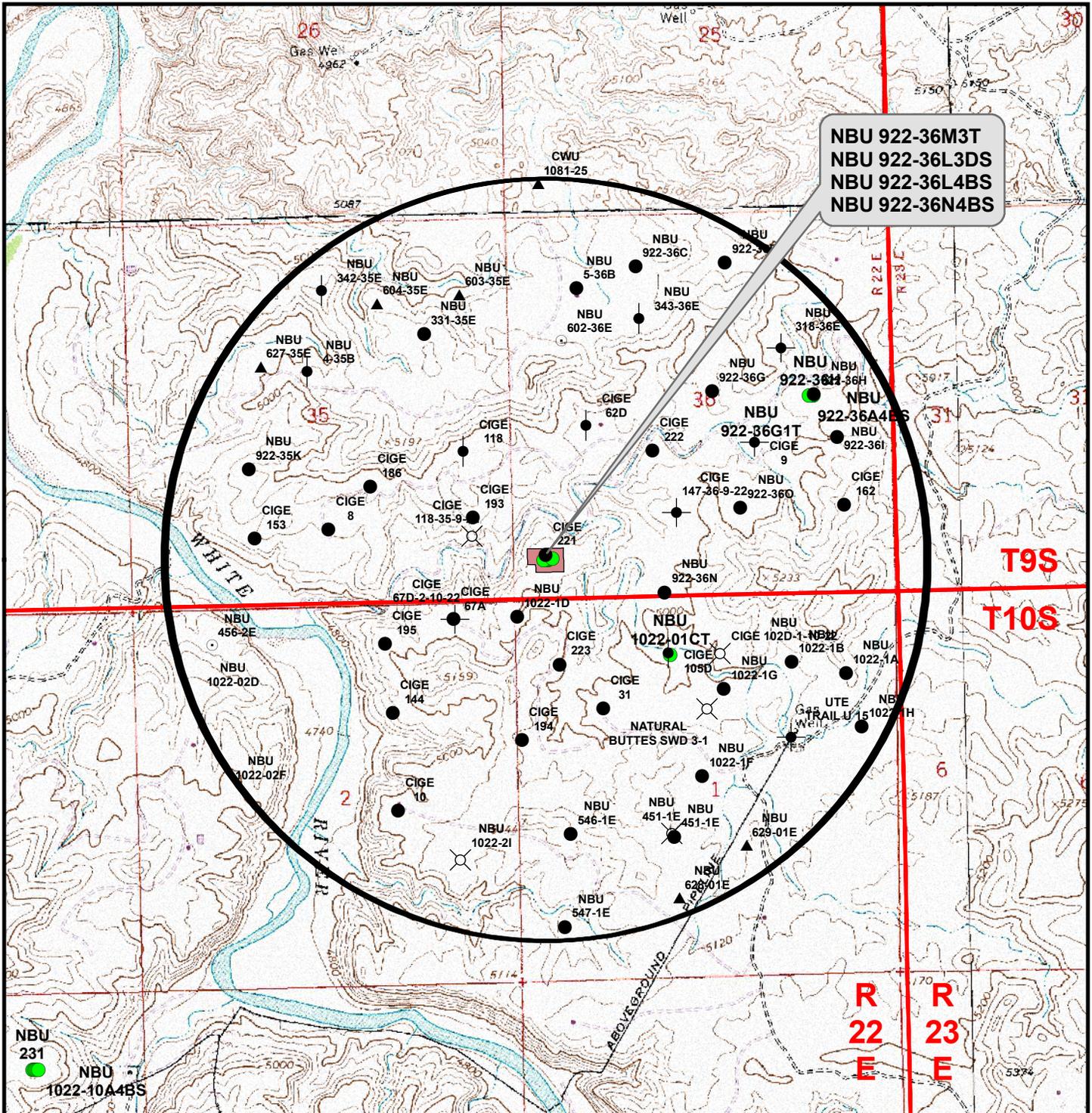
Kerr-McGee Oil & Gas Onshore, LP
 1099 18th Street, Denver, Colorado 80202

**NBU 922-36M3T, NBU 922-36L3DS,
 NBU 922-36L4BS & NBU 922-36N4BS**
 Topo B
 Located In Section 36, T9S, R22E
 S.L.B.&M., Uintah County, Utah

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



Scale: 1" = 2000ft	NAD83 USP Central	Sheet No:
Drawn: JELO	Date: 28 Jan 2009	10
Revised:	Date:	



**NBU 922-36M3T
NBU 922-36L3DS
NBU 922-36L4BS
NBU 922-36N4BS**

Legend

- Well - Proposed
- Well - 1 Mile Radius
- Producing
- ▲ Approved permit (APD); not yet spudded
- Spudded (Drilling commenced: Not yet complete)
- ⊗ Location Abandoned
- Shut-In
- Well Pad
- Temporarily-Abandoned
- Plugged and Abandoned

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

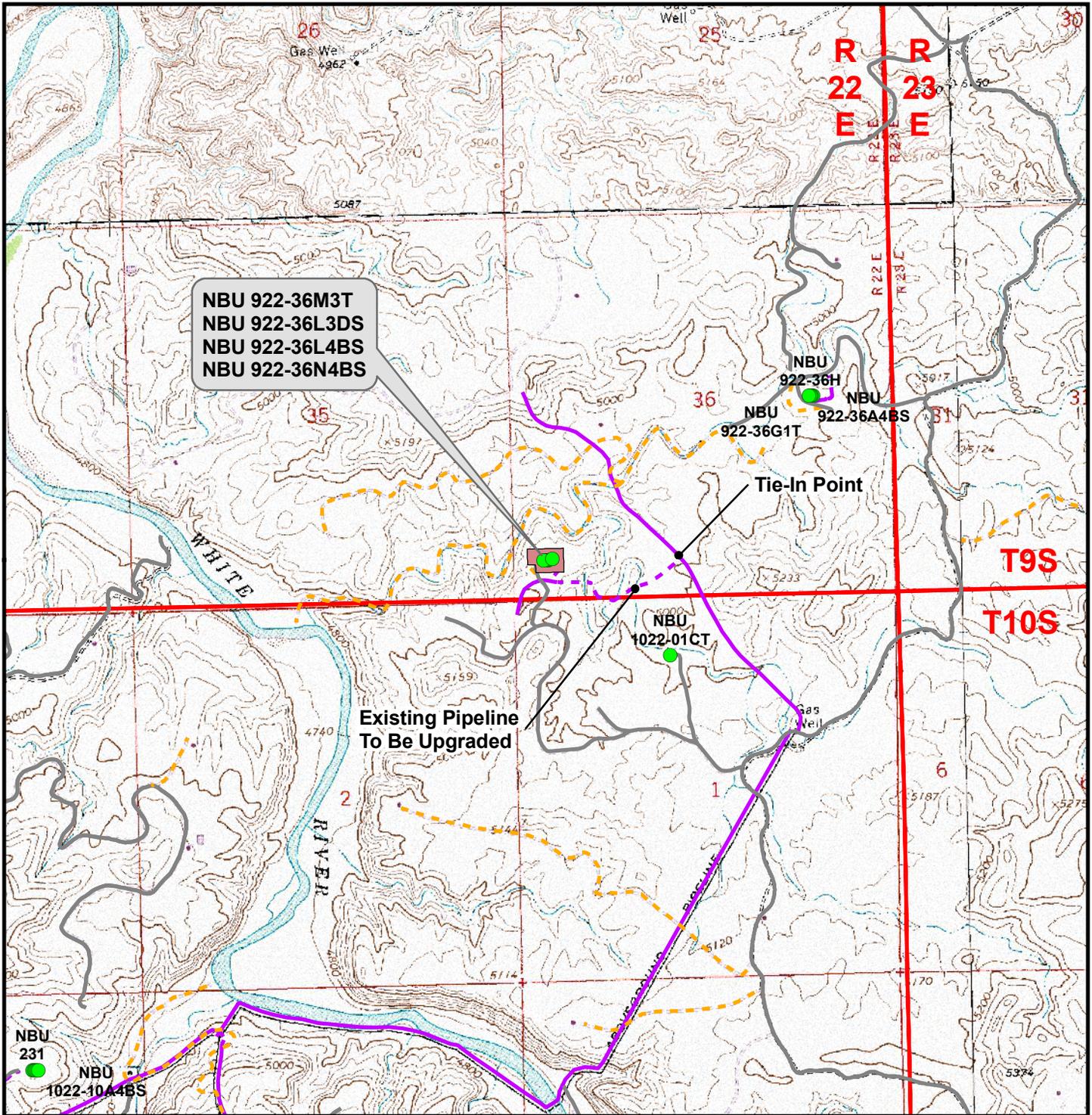
Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

**NBU 922-36M3T, NBU 922-36L3DS,
NBU 922-36L4BS & NBU 922-36N4BS**
Topo C
Located In Section 36, T9S, R22E
S.L.B.&M., Uintah County, Utah

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



Scale: 1" = 2000ft	NAD83 USP Central	Sheet No: 11 11 of 13
Drawn: JELO	Date: 28 Jan 2009	
Revised:	Date:	



Legend

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

Proposed Pipeline Length From Tie-In Point To Edge Of Pad: ±2,110ft
 Proposed Pipeline Length Around Pad: ±660ft

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

**NBU 922-36M3T, NBU 922-36L3DS,
 NBU 922-36L4BS & NBU 922-36N4BS**
 Topo D

**Located In Section 36, T9S, R22E
 S.L.B.&M., Uintah County, Utah**

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



Scale: 1" = 2000ft	NAD83 USP Central
Drawn: JELo	Date: 28 Jan 2009
Revised:	Date:

Sheet No: 12 12 of 13

Kerr-McGee Oil & Gas Onshore, LP
NBU 922-36M3T, NBU 922-36L3DS, NBU 922-36L4BS & NBU 922-36N4BS
Section 36, T9S, R22E, S.L.B.&M.

PROCEED IN A WESTERLY DIRECTION FROM VERNAL, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 13.9 MILES TO THE JUNCTION OF STATE HIGHWAY 88. EXIT LEFT AND PROCEED IN A SOUTHERLY DIRECTION ALONG STATE HIGHWAY 88 APPROXIMATELY 16.8 MILES TO OURAY, UTAH. FROM OURAY, PROCEED IN A SOUTHERLY DIRECTION ALONG THE SEEP RIDGE ROAD (COUNTY B ROAD 2810) APPROXIMATELY 11.2 MILES TO THE INTERSECTION OF THE GLEN BENCH ROAD (COUNTY B ROAD 3260). EXIT LEFT AND PROCEED IN AN EASTERLY, THEN SOUTHEASTERLY, THEN NORTHEASTERLY DIRECTION ALONG THE GLEN BENCH ROAD APPROXIMATELY 14.6 MILES TO THE INTERSECTION OF THE CHAPETA WELLS ROAD (COUNTY B ROAD 3410) WHICH ROAD INTERSECTION IS APPROXIMATELY 400 FEET NORTHEAST OF THE MOUNTAIN FUEL BRIDGE, AT THE WHITE RIVER. EXIT RIGHT AND PROCEED IN A SOUTHEASTERLY DIRECTION APPROXIMATELY 4.3 MILES ALONG THE CHAPETA WELLS ROAD TO THE INTERSECTION OF THE ATCHEE WASH ROAD (COUNTY B ROAD 4240). EXIT RIGHT AND PROCEED IN A SOUTHEASTERLY, THEN SOUTHERLY DIRECTION ALONG THE ATCHEE WASH ROAD APPROXIMATELY 3.7 MILES TO AN EXISTING SERVICE ROAD TO THE SOUTHWEST. EXIT RIGHT AND PROCEED IN A SOUTHWESTERLY, THEN NORTHWESTERLY, THEN WESTERLY DIRECTION ALONG THE SERVICE ROAD APPROXIMATELY 0.3 MILES TO A SECOND SERVICE ROAD TO THE WEST. EXIT LEFT AND PROCEED IN A WESTERLY THEN NORTHERLY DIRECTION ALONG THE SECOND SERVICE ROAD APPROXIMATELY 0.9 MILES TO THE EXISTING WELL PAD.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 65.7 MILES IN A SOUTHERLY DIRECTION.

Kerr-McGee Oil & Gas Onshore LP

NBU 922-36L3DS

Surface: 539' FSL, 393' FWL (SW/4SW/4)
BHL: 1,380' FSL 385' FWL (SW/4SW/4)

NBU 922-36L4BS

Surface: 539' FSL, 413' FWL (SW/4SW/4)
BHL: 1,925' FSL 930' FWL (NW/4SW/4)

NBU 922-36M3T

Surface: 538' FSL, 433' FWL (SW/4SW/4)

NBU 922-36N4BS

Surface: 538' FSL, 453' FWL (SW/4SW/4)
BHL: 510' FSL 2,095' FWL (SE/4SW/4)

Section 36 Township 9 South Range 22 East

Pad: NBU 922-36M (CIGE 221)

Uintah, Utah

Surface: State

Minerals: State – ML22650

ONSHORE ORDER NO. 1

MULTI-POINT SURFACE USE & OPERATIONS PLAN

Directional Drilling:

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

1. Existing Roads:

Refer to Topo Map A for directions to the location.

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

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

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

2. Planned Access Roads:

Approximately ± 0.04 mi. ($\pm 190'$) of new access road is proposed. Please refer to the attached Topo Map B.

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

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

The access road was centerline flagged during time of staking.

Surfacing material may be necessary, depending upon weather conditions.

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

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

Please refer to Topo Map C.

4. Location of Existing & Proposed Facilities:

The following guidelines will apply if the well is productive.

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

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

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

All facilities will be painted within six months of installation. Facilities required to comply with the Occupational Safety and Health Act (OSHA) will be excluded. The required color is Shadow Gray, a non-reflective earthtone.

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

5. Location and Type of Water Supply:

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

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

No water well is to be drilled on this lease.

6. Source of Construction Materials:

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

Any gravel will be obtained from a commercial source.

7. Methods of Handling Waste Materials:

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

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

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

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

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

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

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

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

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

Any produced water from the proposed well will be contained in a water tank and will then be hauled By truck to one of the pre-approved disposal sites: RNI in Sec. 5 T9S R22E, NBU #159 in Sec. 35 T9S R21E, Ace Oilfield in Sec. 2 T6S R20E, MC&MC in Sec. 12 T6S R19E, Pipeline Facility in Sec. 36 T9S R20E, Goat Pasture Evaporation Pond in SW/4 Sec. 16 T10S R22E, Bonanza Evaporation Pond in Sec. 2 T10S R23E.

8. Ancillary Facilities:

None are anticipated.

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

The attached Location Layout Diagram describes drill pad cross-sections, cuts and fills, and locations of the mud tanks, reserve pit, flare pit, pipe racks, trailer parking, spoil dirt stockpile(s), and surface material stockpile(s).

Please see the attached diagram to describe rig orientation, parking areas, and access roads.

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

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

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

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

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

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

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

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

Location size may change prior to the drilling of the well due to current rig availability. If the proposed location is not large enough to accommodate the drilling rig the location will be re-surveyed and a Form 9 shall be submitted.

10. Plans for Reclamation of the Surface:

Producing Location:

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

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

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

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

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

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

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

Dry Hole/Abandoned Location:

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

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

Kerr-McGee Oil & Gas Onshore LP
NBU 922-36L3DS/ 36L4BS/ 36N4BS/ 36M3T

Page 6
Surface Use and Operations Plan

11. Surface/Mineral Ownership:

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

12. Other Information:

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

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

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

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

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

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

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

The Operator will be fully responsible for the actions of its subcontractors. A complete copy of the approved "Application for Permit to Drill" will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

Kerr-McGee Oil & Gas Onshore LP is considered to be the operator of the subject well. Kerr-McGee Oil & Gas Onshore LP agrees to be responsible under terms and conditions of the lease for the operations conducted upon leased lands.

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

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

Kathy Schneebeck Dulnoan
Kathy Schneebeck Dulnoan

April 8, 2009
Date

'APIWellNo:43047503690000'



Kerr-McGee Oil & Gas Onshore LP
P.O. Box 173779
Denver, CO 80217-3779

April 6, 2009

Mrs. 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 922-36L3DS
T9S-R22E
Section 36: SWSW/NWSW
Surface: 539' FSL, 393' FWL
Bottom Hole: 1380' FSL, 385' FWL
Uintah County, Utah

Dear Mrs. 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 Exception to Location and Siting of Wells.

- Kerr-McGee's NBU 922-36L3DS 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

Jessy Pink
Landman

United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office
P.O. Box 45155
Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:
3160
(UT-922)

May 1, 2009

Memorandum

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

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

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

This office has no objection to permitting the wells at this time.

/s/ Michael L. Coulthard

bcc: File - Natural Buttes Unit
Division of Oil Gas and Mining
Central Files
Agr. Sec. Chron
Fluid Chron

MCoulthard:mc:5-1-09

From: Jim Davis
To: Bonner, Ed; Mason, Diana
Date: 5/18/2009 4:11 PM
Subject: Kerr McGee well approvals.

CC: Garrison, LaVonne
The following wells have been approved by SITLA including arch and paleo clearance.
Kerr-McGee's NBU 922-36M3T [API #4304750366]
Kerr-McGee's NBU 922-36N4BS [API #4304750367]
Kerr-McGee's NBU 922-36L4BS [API #4304750368]
Kerr-McGee's NBU 922-36L3DS [API #4304750369]
-Jim

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

Well Name	KERR-MCGEE OIL & GAS ONSHORE, L.P. NBU 922-36L3DS 4304750369		
String	Surf	Prod	
Casing Size(")	9.625	4.500	
Setting Depth (TVD)	2150	8768	
Previous Shoe Setting Depth (TVD)	20	2150	
Max Mud Weight (ppg)	8.3	11.6	
BOPE Proposed (psi)	500	5000	
Casing Internal Yield (psi)	3520	7780	
Operators Max Anticipated Pressure (psi)	5190	11.4	

Calculations	Surf String	9.625	"
Max BPH (psi)	$.052 * \text{Setting Depth} * \text{MW} =$	931	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	$\text{Max BHP} - (0.12 * \text{Setting Depth}) =$	673	NO OK
MASP (Gas/Mud) (psi)	$\text{Max BHP} - (0.22 * \text{Setting Depth}) =$	458	YES
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	$\text{Max BHP} - .22 * (\text{Setting Depth} - \text{Previous Shoe Depth}) =$	462	NO Reasonable depth for area
Required Casing/BOPE Test Pressure=		2150	psi
*Max Pressure Allowed @ Previous Casing Shoe=		20	psi *Assumes 1psi/ft frac gradient

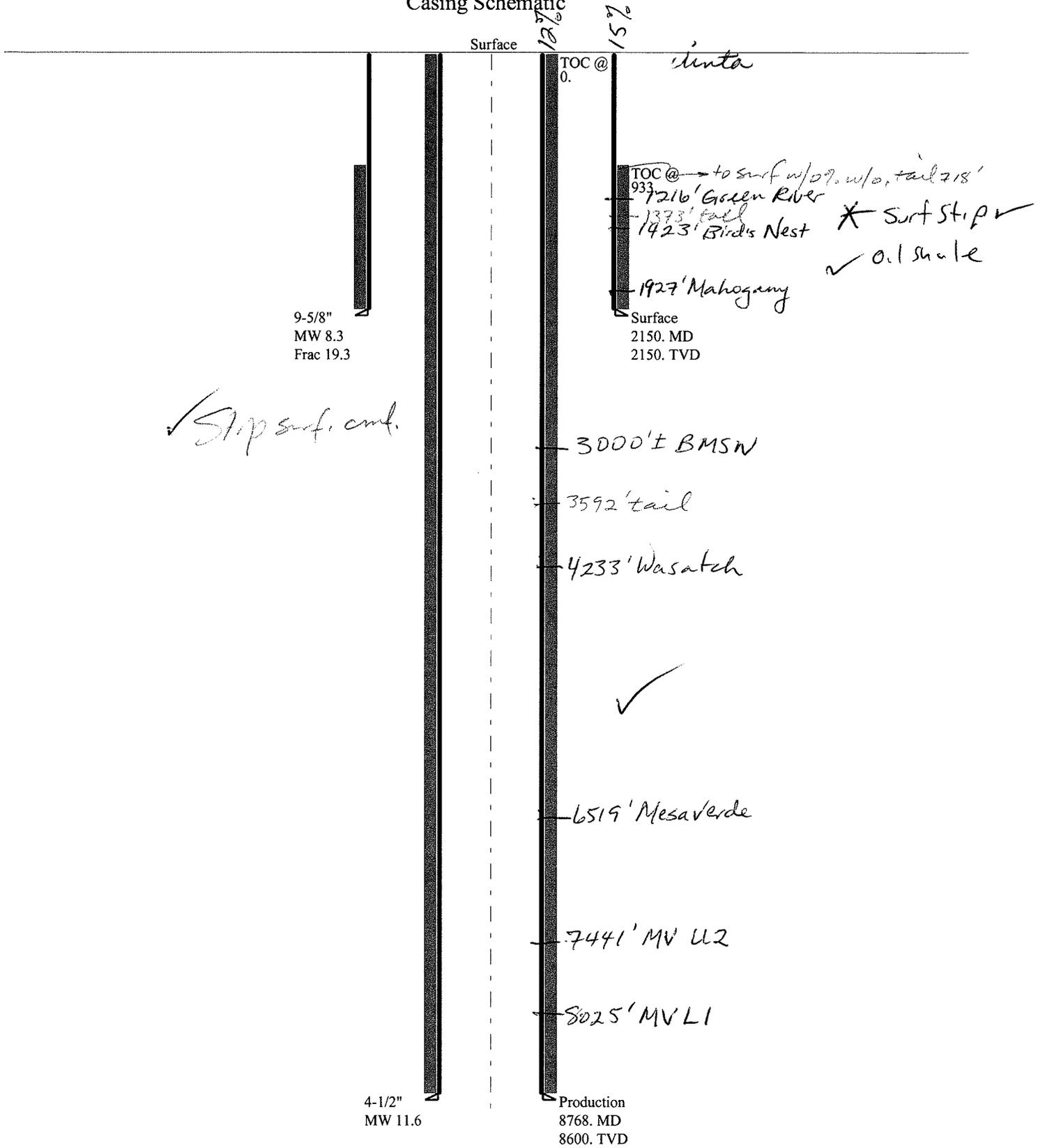
Calculations	Prod String	4.500	"
Max BPH (psi)	$.052 * \text{Setting Depth} * \text{MW} =$	5289	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	$\text{Max BHP} - (0.12 * \text{Setting Depth}) =$	4237	YES
MASP (Gas/Mud) (psi)	$\text{Max BHP} - (0.22 * \text{Setting Depth}) =$	3360	YES OK
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	$\text{Max BHP} - .22 * (\text{Setting Depth} - \text{Previous Shoe Depth}) =$	3833	NO Reasonable
Required Casing/BOPE Test Pressure=		5000	psi
*Max Pressure Allowed @ Previous Casing Shoe=		2150	psi *Assumes 1psi/ft frac gradient

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

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

43047503690000 NBU 922-36L3DS

Casing Schematic



Well name:	43047503690000 NBU 922-36L3DS		
Operator:	KERR-MCGEE OIL & GAS ONSHORE, L.P.		
String type:	Surface	Project ID:	43-047-50369
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: 104 °F
 Temperature gradient: 1.40 °F/100ft
 Minimum section length: 100 ft
 Cement top: 933 ft

Burst

Max anticipated surface pressure: 1,892 psi
 Internal gradient: 0.120 psi/ft
 Calculated BHP 2,150 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: 1,885 ft

Directional Info - Build & Drop

Kick-off point 2100 ft
 Departure at shoe: 1 ft
 Maximum dogleg: 3 °/100ft
 Inclination at shoe: 1.5 °

Re subsequent strings:

Next setting depth: 8,600 ft
 Next mud weight: 11.600 ppg
 Next setting BHP: 5,183 psi
 Fracture mud wt: 19.250 ppg
 Fracture depth: 2,150 ft
 Injection pressure: 2,150 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	2150	9.625	36.00	J-55	LT&C	2150	2150	8.796	17581

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	930	1948	2.093	2150	3520	1.64	77.4	453	5.85 J

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

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

Date: June 8, 2009
 Salt Lake City, Utah

Remarks: Collapse is based on a vertical depth of 2150 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:	43047503690000 NBU 922-36L3DS		
Operator:	KERR-MCGEE OIL & GAS ONSHORE, L.P.		
String type:	Production	Project ID:	43-047-50369
Location:	UINTAH COUNTY		

Design parameters:

Collapse

Mud weight: 11.600 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: 194 °F
 Temperature gradient: 1.40 °F/100ft
 Minimum section length: 100 ft
 Cement top: Surface

Burst

Max anticipated surface pressure: 3,291 psi
 Internal gradient: 0.220 psi/ft
 Calculated BHP 5,183 psi

No backup mud specified.

Tension:

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

Tension is based on air weight.
 Neutral point: 7,277 ft

Directional Info - Build & Drop

Kick-off point 2100 ft
 Departure at shoe: 841 ft
 Maximum dogleg: 3 °/100ft
 Inclination at shoe: 0 °

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	8768	4.5	11.60	I-80	LT&C	8600	8768	3.875	115738

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	5183	6360	1.227	5183	7780	1.50	99.8	212	2.12 J

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

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

Date: June 8, 2009
 Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 8600 ft, a mud weight of 11.6 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

ON-SITE PREDRILL EVALUATION

Utah Division of Oil, Gas and Mining

Operator KERR-MCGEE OIL & GAS ONSHORE, L.P.
Well Name NBU 922-36L3DS
API Number 43047503690000 **APD No** 1438 **Field/Unit** NATURAL BUTTES
Location: 1/4,1/4 SWSW **Sec** 36 **Tw** 9.0S **Rng** 22.0E 539 FSL 393 FWL
GPS Coord (UTM) 636998 4427312 **Surface Owner**

Participants

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

Regional/Local Setting & Topography

The general area is in the southeast portion of the Natural Buttes Unit, which contains the White River and rugged drainages that drain into the White River. Topography is varied and frequently dissected by short draws or washes, which become overly steep as they approach the White River breaks or rim. Distance to the White River varies from ¼ mile to 2 miles. The side drainages are dry except for ephemeral flows. No seeps or springs exist in the area. An occasional pond has been constructed to supply water for livestock and antelope. Vernal, Utah is approximately 43 air miles to the northwest. Access from Vernal is approximately 65.7 road miles following Utah State, Uintah County and oilfield development roads to the location.

The proposed 4 well pad for the NBU 922-36 M3T, L3DS, L4BS, N4BS which encompasses an existing pad of the CIGE 221 gas well will be significantly enlarged. The existing well probably will be plugged. The surface of the location will be lowered up to 1.6 feet to obtain fill for the enlargement. Enlargement will be in all directions except to the east which is against a rocky hill. Short draws to the west will be filled. A knoll to the north will not be disturbed. A deep canyon parallels the site on the west. It was decided that rounding would occur as needed between Corners 9 and 10 so that fill would not extend beyond any benches in that area. This will make it easier to recover the fill. The topsoil stockpile between Corners 3 and 4 will be moved to the north. The flow-back pit will not be constructed at least at this time. Reserve pit spoils may also be placed in this area. No other drainage concerns exist. The White River is approximately 3/4 mile to the west. The existing pad shows no stability problems and the site has no apparent concerns for constructing an enlarged pad as modified and drilling and operating the planned wells. It is the only suitable location in the immediate area. A new Location Layout is being prepared to reflect the above adjustments.

Both the surface and minerals are owned by SITLA.

Surface Use Plan

Current Surface Use
 Wildlife Habitat
 Existing Well Pad

New Road Miles	Well Pad	Src Const Material	Surface Formation
0	Width 320 Length 500	Onsite	UNTA

Ancillary Facilities N

Waste Management Plan Adequate?

Environmental Parameters

Affected Floodplains and/or Wetlands N

Flora / Fauna

Area beyond the existing pad is poorly vegetated with greasewood, cheatgrass, black sagebrush, broom snakeweed, globemallow, Sitanion hystrix, shadscale, rabbitbrush, pepper weed, halogeton and annuals.

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

Soil Type and Characteristics

Shallow rocky sandy loam.

Erosion Issues N

Sedimentation Issues N

Site Stability Issues N

Drainage Diversion Required? N

Berm Required? N

Erosion Sedimentation Control Required? N

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

Reserve Pit

Site-Specific Factors

Site Ranking

Distance to Groundwater (feet)	>200	0
Distance to Surface Water (feet)	>1000	0
Dist. Nearest Municipal Well (ft)	>5280	0
Distance to Other Wells (feet)		20
Native Soil Type	High permeability	20
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	45

1 Sensitivity Level

Characteristics / Requirements

The reserve pit is planned in an area of cut in the southeast corner of the location. Dimensions are 100' x 250' x 10' deep with 2' of freeboard. Because the length of time the reserve pit will be used and the roughness of the terrain, Kerr McGee committed to line it with a 30-mil.liner and an appropriate thickness of felt sub-liner to cushion the rock. The second pit shown is not approved with this permit. Kerr McGee was informed they would have to submit a separate application and plan for this pit.

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

Other Observations / Comments

On 5/13/2009 the following met and discussed the changes incorporated in the above description. Floyd Bartlett (DOGM), Clay Einerson, Lovell Young (Kerr McGee), and Kolby Kay (Timberline Engineering and Land Surveying).

Floyd Bartlett
Evaluator

4/28/2009
Date / Time

Application for Permit to Drill Statement of Basis

6/17/2009

Utah Division of Oil, Gas and Mining

Page 1

APD No	API WellNo	Status	Well Type	Surf Owner	CBM
1438	43047503690000	LOCKED	GW	S	No
Operator	KERR-MCGEE OIL & GAS ONSHORE, L.P.		Surface Owner-APD		
Well Name	NBU 922-36L3DS		Unit	NATURAL BUTTES	
Field	NATURAL BUTTES		Type of Work	DRILL	
Location	SWSW 36 9S 22E S 539 FSL 393 FWL GPS Coord (UTM) 636978E 4427306N				

Geologic Statement of Basis

Kerr McGee proposes to set 2,150' 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 3,000'. 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 production casing cement should be brought up above the base of the moderately saline ground water in order to isolate it from fresher waters up hole. The proposed casing and cement should adequately protect any usable ground water.

Brad Hill
APD Evaluator

5/19/2009
Date / Time

Surface Statement of Basis

The general area is in the southeast portion of the Natural Buttes Unit, which contains the White River and rugged drainages that drain into the White River. Topography is varied and frequently dissected by short draws or washes, which become overly steep as they approach the White River breaks or rim. Distance to the White River varies from ¼ mile to 2 miles. The side drainages are dry except for ephemeral flows. No seeps or springs exist in the area. An occasional pond has been constructed to supply water for livestock and antelope. Vernal, Utah is approximately 43 air miles to the northwest. Access from Vernal is approximately 65.7 road miles following Utah State, Uintah County and oilfield development roads to the location.

The proposed 4 well pad for the NBU 922-36 M3T, L3DS, L4BS, N4BS which encompasses an existing pad of the CIGE 221 gas well will be significantly enlarged. The existing well probably will be plugged. The surface of the location will be lowered up to 1.6 feet to obtain fill for the enlargement. Enlargement will be in all directions except to the east which is against a rocky hill. Short draws to the west will be filled. A knoll to the north will not be disturbed. A deep canyon parallels the site on the west. It was decided that rounding would occur as needed between Corners 9 and 10 so that fill would not extend beyond any benches in that area. This will make it easier to recover the fill. The topsoil stockpile between Corners 3 and 4 will be moved to the north. The flow-back pit will not be constructed at least at this time. Reserve pit spoils may also be placed in this area. No other drainage concerns exist. The White River is approximately ¾ mile to the west. The existing pad shows no stability problems and the site has no apparent concerns for constructing an enlarged pad as modified and drilling and operating the planned wells. It is the only suitable location in the immediate area. A new Location Layout is being prepared to reflect the above adjustments.

Both the surface and minerals are owned by SITLA. Ed Bonner of SITLA attended the pre-site and was agreeable to the modifications. He had no additional concerns regarding the proposal.

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

Application for Permit to Drill Statement of Basis

6/17/2009

Utah Division of Oil, Gas and Mining

Page 2

recommended seed mix to be used for re-vegetating the disturbed area.

Floyd Bartlett
Onsite Evaluator

4/28/2009
Date / Time

Conditions of Approval / Application for Permit to Drill

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

**WORKSHEET
APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 4/23/2009

API NO. ASSIGNED: 43047503690000

WELL NAME: NBU 922-36L3DS

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

PHONE NUMBER: 720 929-6007

CONTACT: Kathy Schneebeck-Dulnoan

PROPOSED LOCATION: SWSW 36 090S 220E

Permit Tech Review:

SURFACE: 0539 FSL 0393 FWL

Engineering Review:

BOTTOM: 1380 FSL 0385 FWL

Geology Review:

COUNTY: UINTAH

LATITUDE: 39.98672

LONGITUDE: -109.39567

UTM SURF EASTINGS: 636978.00

NORTHINGS: 4427306.00

FIELD NAME: NATURAL BUTTES

LEASE TYPE: 3 - State

LEASE NUMBER: ML 22650

PROPOSED PRODUCING FORMATION(S): WASATCH-MESA VERDE

SURFACE OWNER: 3 - State

COALBED METHANE: NO

RECEIVED AND/OR REVIEWED:

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

Commingle Approved

LOCATION AND SITING:

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

Comments: Presite Completed

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



JON M. HUNTSMAN, JR.
Governor

GARY R. HERBERT
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

Well Name: NBU 922-36L3DS
API Well Number: 43047503690000
Lease Number: ML 22650
Surface Owner: STATE
Approval Date: 6/24/2009

Issued to:

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

Authority:

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

Duration:

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

Commingling:

In accordance with Board Cause No. 173-14, completion into and commingling of production from the Wasatch and Mesaverde formations is allowed.

General:

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

Conditions of Approval:

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

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

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

Surface casing shall be cemented to the surface.

Notification Requirements:

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

- 24 hours prior to cementing or testing casing - contact Dan Jarvis
- 24 hours prior to testing blowout prevention equipment - contact Dan Jarvis
- 24 hours prior to spudding the well - contact Carol Daniels
- Within 24 hours of any emergency changes made to the approved drilling program - contact Dustin Doucet
- Prior to commencing operations to plug and abandon the well - contact Dan Jarvis

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

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

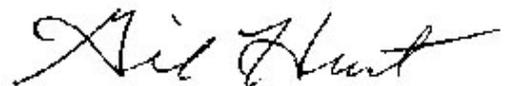
The following are Division of Oil, Gas and Mining contacts and their telephone numbers (please leave a voice mail message if the person is not available to take the call):

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

Reporting Requirements:

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

Approved By:



Gil Hunt
Associate Director, Oil & Gas

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: ML 22650
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 922-36L3DS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047503690000
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: 0539 FSL 0393 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSW Section: 36 Township: 09.0S Range: 22.0E Meridian: S	9. FIELD and POOL or WILDCAT: NATURAL BUTTES COUNTY: UINTAH STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 8/7/2009	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input checked="" type="checkbox"/> OTHER	OTHER: Pad layout change

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

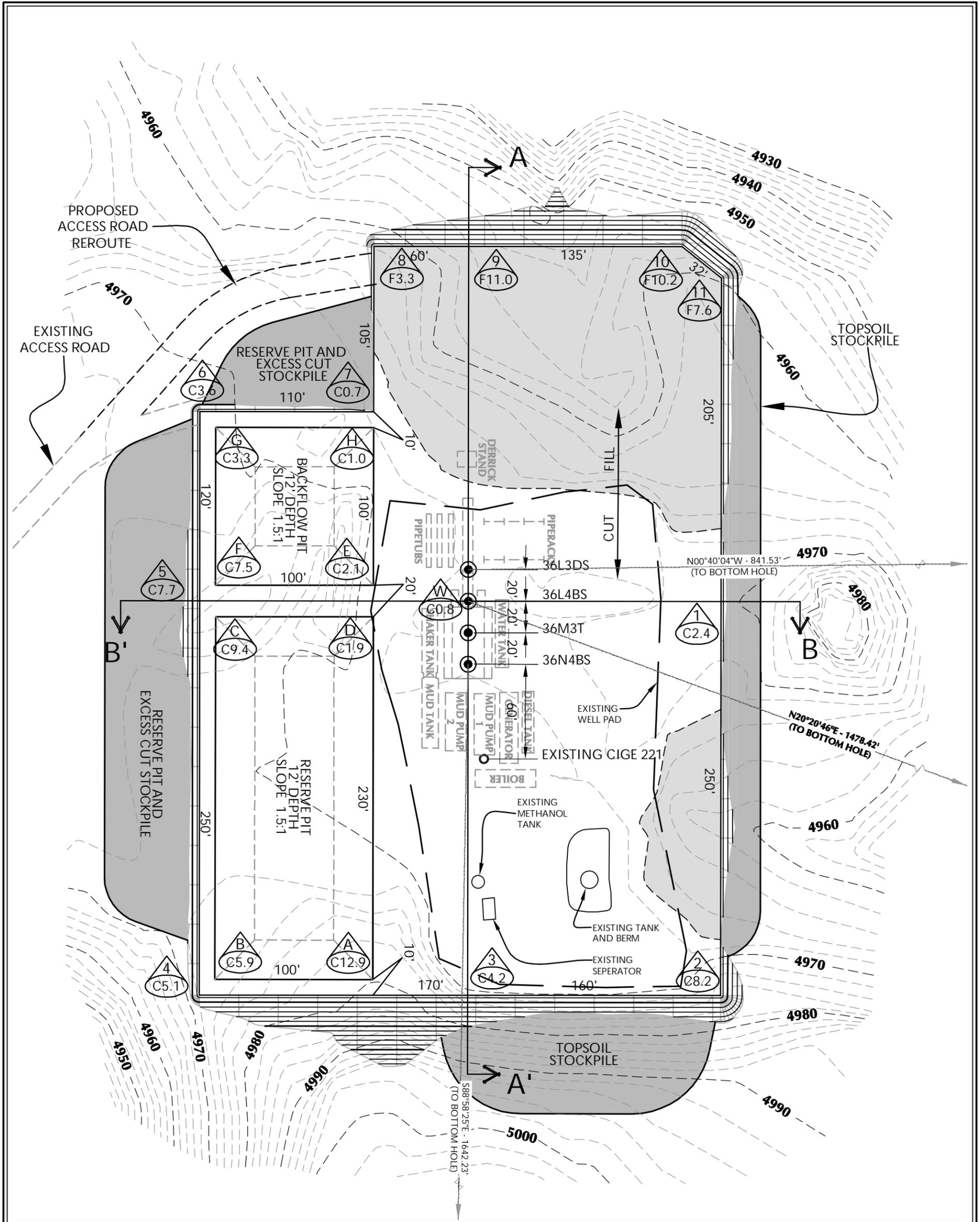
Kerr-McGee Oil & Gas Onshore, L.P. (Kerr-McGee) respectfully requests a change to the pad layout and cut-and-fill for this pad, per the on-site meeting with UDOGM personnel. The pad was shortened and a corner rounded to avoid a nearby drainage ditch. Please see the attached revised pad layout and cut-and-fill diagrams for detailed information. All other information as originally submitted in the APD remains the same. Please contact the undersigned for additional information and/or questions. Thank you.

Approved by the Utah Division of Oil, Gas and Mining

Date: August 06, 2009

By:

NAME (PLEASE PRINT) Kathy Schneebeck-Dulnoan	PHONE NUMBER 720 929-6007	TITLE Staff Regulatory Analyst
SIGNATURE N/A	DATE 8/5/2009	



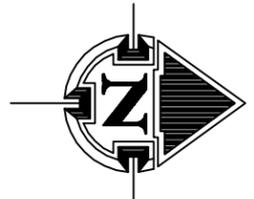
WELL PAD CIGe 221 QUANTITIES

EXISTING GRADE @ CENTER OF PAD = 4,967.8'
 FINISHED GRADE ELEVATION = 4,967.0'
 CUT SLOPES = 1.5:1
 FILL SLOPES = 1.5:1

TOTAL CUT FOR WELL PAD = 11,484 C.Y.
 TOTAL FILL FOR WELL PAD = 10,757 C.Y.
 TOPSOIL @ 6" DEPTH = 2,066 C.Y.
 EXCESS MATERIAL = 727 C.Y.
 TOTAL DISTURBANCE = 3.72 ACRES
 SHRINKAGE FACTOR = 1.10
 SWELL FACTOR = 1.00
 RESERVE PIT CAPACITY (2' OF FREEBOARD)
 +/- 29,950 BARRELS
 RESERVE PIT VOLUME
 +/- 7,780 CY
 BACKFLOW PIT CAPACITY (2' OF FREEBOARD)
 +/- 11,260 BARRELS
 BACKFLOW PIT VOLUME
 +/- 3,040 CY

WELL PAD LEGEND

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



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

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



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

Scale: 1"=60'	Date: 1/29/09	SHEET NO:
REVISED:	BJV 8/4/09	6 6 OF 13

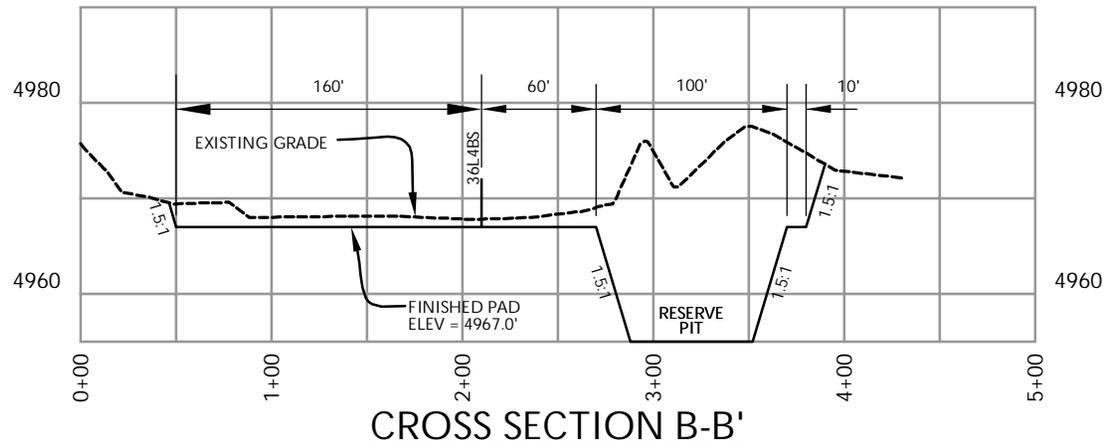
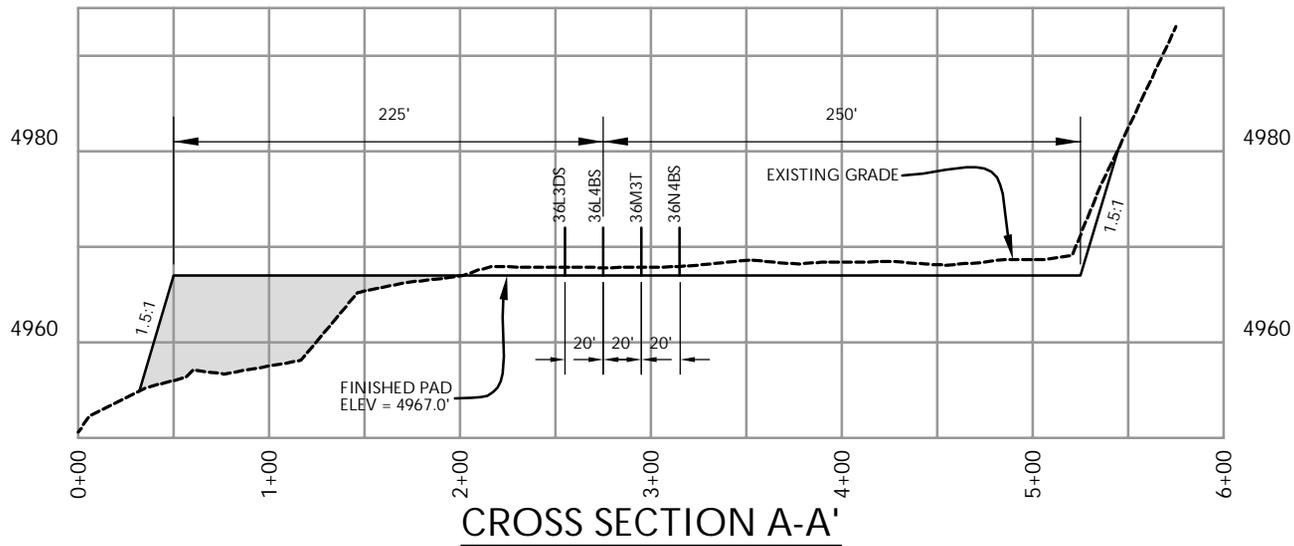
WELL PAD - LOCATION LAYOUT
 NBU 922-36M3T, NBU 922-36L3DS,
 NBU 922-36L4BS, NBU 922-36N4BS
 LOCATED IN SECTION 36, T.9S., R.22E.
 S.L.B.&M., UTAH COUNTY, UTAH

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

RECEIVED August 05, 2009

K:\MADARKO\2008\NBUS\DWG\NBU_DIRECTIONAL_WELLS\DWG\NBU_DIRECTIONAL_WELLS_FEB_2009_CESI.dwg, 8/4/2009 12:42:28 PM, PDF-XChange for Acrobat Pro

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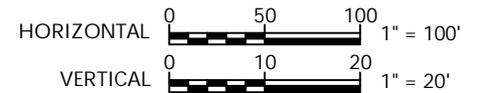


Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202



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

WELL PAD - CROSS SECTIONS
NBU 922-36M3T, NBU 922-36L3DS,
NBU 922-36L4BS, NBU 922-36N4BS
LOCATED IN SECTION 36, T.9S., R.22E.
S.L.B.&M., UINTAH COUNTY, UTAH



Scale: 1"=100'	Date: 1/29/09	SHEET NO:
REVISED:	RAW 5/6/09	7 7 OF 13

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

RECEIVED August 05, 2009

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: ML 22650
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<input checked="" type="checkbox"/> SPUD REPORT Date of Spud: 8/26/2009	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
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12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.
 MIRU PETE MARTIN BUCKET RIG. DRILLED 20" CONDUCTOR HOLE TO 40'.
 RAN 14" 36.7# SCHEDULE 10 PIPE. CMT W/28 SX READY MIX. SPUD WELL LOCATION ON 08/26/2009 AT 17:00 HRS.

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

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

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: ML 22650
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<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 9/9/2009	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
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	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: _____

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

MIRU PROPETRO AIR RIG ON 09/08/2009. DRILLED 12 1/4" SURFACE HOLE TO 2150'. RAN 9 5/8" 36# J-55 SURFACE CSG. CMT W/400 SX PREM CLASS G @15.8 PPG 1.15 YIELD. TOP OUT CMT W/300 SX PREM CLASS G @15.8 PPG 1.15 YIELD. FLOATS HELD. CMT TO SURFACE HOLE STAYED FULL. WORK

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

NAME (PLEASE PRINT) Sheila Wopsock	PHONE NUMBER 435 781-7024	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 9/10/2009	

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

NAME (PLEASE PRINT) Andy Lytle	PHONE NUMBER 720 929-6100	TITLE Regulatory Analyst
SIGNATURE N/A		DATE 9/14/2009

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: ML 22650
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<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 10/28/2009	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
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	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: _____

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

FINISHED DRILLING FROM 2150' TO 8877' ON 10/26/2009. RAN 4-1/2" 11.6# I-80 PRODUCTION CSG. DISPLACE 40 BBLS SPACER. LEAD CMT W/623 SX CLASS G PREM LITE @ 12.4 PPG, 2.03 YIELD. TAILED CMT W/110 SX CLASS G 50/50 POZ MIX AT 14.3 PPG, 1.31 YIELD. DISPLACED W/130 BBLS CLAYTREAT WATER, BUMPED PLUG, FLOAT HELD. RETURNED 77 BBLS CEMENT TO SURFACE. RD, CLEAN PITS. RELEASE ENSIGN 145 RIG ON 10/28/2009 AT 20:00 HRS.

Accepted by the
 Utah Division of
 Oil, Gas and Mining
FOR RECORD ONLY
 November 03, 2009

NAME (PLEASE PRINT) Andy Lytle	PHONE NUMBER 720 929-6100	TITLE Regulatory Analyst
SIGNATURE N/A		DATE 10/30/2009

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: ML 22650
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 922-36L3DS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047503690000
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: 0539 FSL 0393 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSW Section: 36 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: 2/25/2010	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input checked="" type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: _____

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

THE SUBJECT WELL WAS PLACED ON PRODUCTION ON 02/25/2010 AT 1:30 P.M.

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

FOR RECORD ONLY

March 01, 2010

NAME (PLEASE PRINT) Andy Lytle	PHONE NUMBER 720 929-6100	TITLE Regulatory Analyst
SIGNATURE N/A		DATE 3/1/2010

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

AMENDED REPORT FORM 8
(highlight changes)

5. LEASE DESIGNATION AND SERIAL NUMBER:
ML 22650

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT or CA AGREEMENT NAME
UTU63047A

8. WELL NAME and NUMBER:
NBU 922-36L3DS

9. API NUMBER:
4304750369

10. FIELD AND POOL, OR WILDCAT
NATURAL BUTTES

11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
SWSW 36 9S 22E

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 LP

3. ADDRESS OF OPERATOR:
P.O. BOX 173779 CITY DENVER STATE CO ZIP 80217

PHONE NUMBER:
(720) 929-6100

4. LOCATION OF WELL (FOOTAGES)
AT SURFACE: **SWSW 539 FSL & 393 FWL**
AT TOP PRODUCING INTERVAL REPORTED BELOW: **NWSW 1387 FSL & 374 FWL SEC.36-9S-22E**
AT TOTAL DEPTH: **NWSW 1361 FSL & 367 FNL SEC.36-9S-22E**

14. DATE SPURRED:
8/26/2009

15. DATE T.D. REACHED:
10/26/2009

16. DATE COMPLETED:
2/25/2010

ABANDONED READY TO PRODUCE

17. ELEVATIONS (DF, RKB, RT, GL):
4968' GL

18. TOTAL DEPTH: MD **8,877**
TVD **8,721**

19. PLUG BACK T.D.: MD **8,823**
TVD **8,667**

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/GR-BHV-SDL/DSN/ACTR

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

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

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
20"	14" STL	36.7#		40		28			
12 1/4"	9 5/8 J-55	36#		2,110		700			
7 7/8"	4 1/2 I-80	11.6#		8,866		1723		0	

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"	8,164							

26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)	INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
(A) MESAVERDE	7,012	8,798			7,012 8,798	0.36	332	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
(B)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
(C)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
(D)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>

27. PERFORATION RECORD

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

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
7012-8798	PMP 12,140 BBLs SLICK H2O & 457,976 LBS 30/50 SD.

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

31. INITIAL PRODUCTION

INTERVAL A (As shown in item #26)

DATE FIRST PRODUCED: 2/25/2010		TEST DATE: 2/27/2010		HOURS TESTED: 24		TEST PRODUCTION RATES: →		OIL – BBL: 0	GAS – MCF: 2,317	WATER – BBL: 720	PROD. METHOD: FLOWING
CHOKE SIZE: 20/64	TBG. PRESS. 1,750	CSG. PRESS. 2,500	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL: 0	GAS – MCF: 2,317	WATER – BBL: 720	INTERVAL STATUS: PROD	

INTERVAL B (As shown in item #26)

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

INTERVAL C (As shown in item #26)

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

INTERVAL D (As shown in item #26)

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

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

SOLD

33. SUMMARY OF POROUS ZONES (Include Aquifers):

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

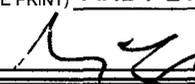
34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
GREEN RIVER	1,127				
MAHOGANY	1,747				
WASATCH	4,447	6,595			
MESAVERDE	6,595	8,877			

35. ADDITIONAL REMARKS (Include plugging procedure)

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

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

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

This report must be submitted within 30 days of

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

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

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

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



Scientific Drilling
Rocky Mountain Operations

Kerr McGee Oil and Gas Onshore LP

Uintah County, UT UTM12
NBU 922-36M Pad
NBU 922-36L3DS
OH

Design: OH

Standard Survey Report

05 November, 2009

Anadarko 
Petroleum Corporation

Company: Kerr McGee Oil and Gas Onshore LP
 Project: Uintah County, UT UTM12
 Site: NBU 922-36M Pad
 Well: NBU 922-36L3DS
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well NBU 922-36L3DS
 TVD Reference: GL 4967 & RKB 14' @ 4981.00ft (Ensign 145)
 MD Reference: GL 4967 & RKB 14' @ 4981.00ft (Ensign 145)
 North Reference: True
 Survey Calculation Method: Minimum Curvature
 Database: EDM 2003.16 Multi User Db

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 922-36M Pad, Sec 36 T9S R22E					
Site Position:		Northing:	14,525,279.08 ft	Latitude:	39° 59' 12.432 N	
From:	Lat/Long	Easting:	2,089,949.89 ft	Longitude:	109° 23' 42.737 W	
Position Uncertainty:	0.00 ft	Slot Radius:	in	Grid Convergence:	1.03 °	

Well	NBU 922-36L3DS, 539' FSL & 393' FWL					
Well Position	+N/-S	0.00 ft	Northing:	14,525,267.21 ft	Latitude:	39° 59' 12.336 N
	+E/-W	0.00 ft	Easting:	2,089,829.99 ft	Longitude:	109° 23' 44.280 W
Position Uncertainty	0.00 ft		Wellhead Elevation:	ft	Ground Level:	4,967.00 ft

Wellbore	OH					
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)	
	IGRF2005-10	2009-08-14	11.25	65.93	52,548	
	IGRF2005-10	2009-10-19	11.22	65.93	52,531	

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	358.16		

Survey Program	Date	2009-11-05			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
168.00	2,108.00	Survey #1 - Surface (OH)	MWD SDI	MWD - Standard ver 1.0.1	
2,167.00	8,877.00	Survey #2 - Production (OH)	MWD SDI	MWD - Standard ver 1.0.1	

Survey	Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	168.00	0.14	296.80	168.00	0.09	-0.18	0.10	0.08	0.08	0.00
	First SDI Surface MWD Survey									
	258.00	0.45	275.61	258.00	0.18	-0.63	0.20	0.36	0.34	-23.54
	348.00	0.41	278.45	348.00	0.26	-1.30	0.30	0.05	-0.04	3.16
	428.00	1.48	297.21	427.98	0.77	-2.51	0.85	1.37	1.34	23.45
	518.00	1.99	286.63	517.94	1.75	-5.04	1.91	0.67	0.57	-11.76
	608.00	1.60	284.77	607.90	2.52	-7.75	2.77	0.44	-0.43	-2.07
	698.00	2.50	284.52	697.84	3.33	-10.86	3.68	1.00	1.00	-0.28
	788.00	2.48	281.06	787.75	4.20	-14.67	4.67	0.17	-0.02	-3.84
	878.00	1.77	294.05	877.69	5.14	-17.86	5.71	0.95	-0.79	14.43

Company: Kerr McGee Oil and Gas Onshore LP
Project: Uintah County, UT UTM12
Site: NBU 922-36M Pad
Well: NBU 922-36L3DS
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well NBU 922-36L3DS
TVD Reference: GL 4967 & RKB 14' @ 4981.00ft (Ensign 145)
MD Reference: GL 4967 & RKB 14' @ 4981.00ft (Ensign 145)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.16 Multi User Db

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
968.00	1.86	309.33	967.65	6.63	-20.25	7.28	0.55	0.10	16.98	
1,058.00	2.36	323.23	1,057.59	9.04	-22.49	9.76	0.79	0.56	15.44	
1,148.00	2.09	317.99	1,147.52	11.74	-24.70	12.53	0.38	-0.30	-5.82	
1,238.00	1.71	324.04	1,237.47	14.05	-26.59	14.90	0.48	-0.42	6.72	
1,328.00	2.01	306.81	1,327.42	16.08	-28.64	17.00	0.70	0.33	-19.14	
1,418.00	2.16	319.00	1,417.36	18.31	-31.02	19.30	0.52	0.17	13.54	
1,508.00	2.29	310.06	1,507.30	20.75	-33.51	21.81	0.41	0.14	-9.93	
1,598.00	1.96	298.05	1,597.24	22.63	-36.24	23.78	0.61	-0.37	-13.34	
1,688.00	1.86	290.01	1,687.19	23.85	-38.97	25.09	0.32	-0.11	-8.93	
1,778.00	2.00	292.31	1,777.13	24.95	-41.80	26.28	0.18	0.16	2.56	
1,868.00	1.80	281.47	1,867.08	25.82	-44.63	27.25	0.46	-0.22	-12.04	
1,958.00	1.73	290.71	1,957.04	26.58	-47.29	28.09	0.33	-0.08	10.27	
2,048.00	1.73	303.35	2,047.00	27.81	-49.70	29.40	0.42	0.00	14.04	
2,108.00	1.53	307.63	2,106.98	28.80	-51.09	30.43	0.39	-0.33	7.13	
Last SDI Surface MWD Survey										
2,167.00	1.79	290.41	2,165.95	29.60	-52.57	31.28	0.95	0.44	-29.19	
First Survey in 7 7/8" Hole										
2,257.00	4.31	339.70	2,255.83	33.26	-55.07	35.02	3.80	2.80	54.77	
2,348.00	7.38	350.19	2,346.35	42.23	-57.25	44.05	3.56	3.37	11.53	
2,439.00	10.29	357.21	2,436.26	56.11	-58.64	57.97	3.40	3.20	7.71	
2,529.00	11.42	1.63	2,524.65	73.05	-58.78	74.90	1.56	1.26	4.91	
2,616.00	13.89	4.69	2,609.53	92.07	-57.68	93.88	2.94	2.84	3.52	
2,707.00	17.74	357.72	2,697.08	116.82	-57.34	118.61	4.71	4.23	-7.66	
2,797.00	20.32	4.34	2,782.16	146.11	-56.70	147.86	3.73	2.87	7.36	
2,888.00	23.41	6.95	2,866.61	179.82	-53.32	181.44	3.56	3.40	2.87	
2,978.00	27.93	3.43	2,947.71	218.63	-49.89	220.12	5.30	5.02	-3.91	
3,069.00	26.81	0.58	3,028.53	260.43	-48.41	261.85	1.89	-1.23	-3.13	
3,160.00	30.66	4.79	3,108.31	304.09	-46.26	305.42	4.78	4.23	4.63	
3,250.00	32.23	1.01	3,185.10	350.96	-43.92	352.19	2.80	1.74	-4.20	
3,341.00	31.24	359.56	3,262.50	398.82	-43.67	400.02	1.37	-1.09	-1.59	
3,431.00	26.64	358.91	3,341.24	442.36	-44.24	443.55	5.12	-5.11	-0.72	
3,522.00	29.22	2.77	3,421.64	484.95	-43.55	486.10	3.46	2.84	4.24	
3,612.00	26.35	0.08	3,501.25	526.88	-42.46	527.97	3.48	-3.19	-2.99	
3,703.00	25.21	359.83	3,583.20	566.45	-42.49	567.53	1.26	-1.25	-0.27	
3,793.00	20.99	0.76	3,665.96	601.75	-42.33	602.80	4.71	-4.69	1.03	
3,884.00	21.77	2.94	3,750.70	634.90	-41.25	635.90	1.22	0.86	2.40	
3,975.00	17.83	0.65	3,836.30	665.70	-40.23	666.65	4.41	-4.33	-2.52	
4,065.00	15.40	358.15	3,922.54	691.43	-40.46	692.37	2.81	-2.70	-2.78	
4,156.00	12.80	357.69	4,010.79	713.58	-41.25	714.54	2.86	-2.86	-0.51	
4,246.00	10.66	7.96	4,098.92	731.79	-40.50	732.71	3.31	-2.38	11.41	
4,337.00	6.87	7.95	4,188.84	745.52	-38.58	746.38	4.16	-4.16	-0.01	
4,428.00	5.76	21.80	4,279.29	755.15	-36.14	755.92	2.06	-1.22	15.22	
4,518.00	6.12	20.90	4,368.81	763.83	-32.75	764.48	0.41	0.40	-1.00	
4,609.00	7.88	22.20	4,459.12	774.13	-28.66	774.66	1.94	1.93	1.43	
4,699.00	8.83	16.88	4,548.17	786.46	-24.32	786.83	1.36	1.06	-5.91	
4,790.00	9.51	8.73	4,638.01	800.57	-21.15	800.84	1.61	0.75	-8.96	
4,880.00	8.07	8.31	4,726.95	814.17	-19.11	814.36	1.60	-1.60	-0.47	
4,971.00	7.21	8.50	4,817.14	826.14	-17.34	826.27	0.95	-0.95	0.21	
5,062.00	6.16	9.91	4,907.52	836.60	-15.66	836.67	1.17	-1.15	1.55	
5,152.00	5.54	4.98	4,997.05	845.68	-14.45	845.71	0.89	-0.69	-5.48	
5,243.00	3.25	341.60	5,087.79	852.51	-14.88	852.54	3.15	-2.52	-25.69	
5,333.00	2.11	351.27	5,177.69	856.57	-15.94	856.63	1.36	-1.27	10.74	
5,424.00	1.06	241.15	5,268.66	857.82	-16.93	857.92	2.93	-1.15	-121.01	
5,514.00	1.41	230.07	5,358.64	856.70	-18.51	856.86	0.47	0.39	-12.31	

Company: Kerr McGee Oil and Gas Onshore LP
Project: Uintah County, UT UTM12
Site: NBU 922-36M Pad
Well: NBU 922-36L3DS
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well NBU 922-36L3DS
TVD Reference: GL 4967 & RKB 14' @ 4981.00ft (Ensign 145)
MD Reference: GL 4967 & RKB 14' @ 4981.00ft (Ensign 145)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.16 Multi User Db

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N-S (ft)	+E-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,605.00	0.62	57.45	5,449.64	856.25	-18.95	856.42	2.23	-0.87	-189.69
5,696.00	0.79	55.52	5,540.63	856.87	-18.02	857.01	0.19	0.19	-2.12
5,786.00	0.09	326.84	5,630.63	857.28	-17.55	857.40	0.88	-0.78	-98.53
5,877.00	0.44	160.02	5,721.63	857.01	-17.47	857.13	0.58	0.38	-183.32
5,967.00	0.70	166.26	5,811.62	856.15	-17.22	856.26	0.30	0.29	6.93
6,058.00	0.97	183.31	5,902.61	854.84	-17.13	854.95	0.40	0.30	18.74
6,148.00	1.06	193.07	5,992.60	853.27	-17.37	853.39	0.22	0.10	10.84
6,239.00	1.06	183.23	6,083.58	851.61	-17.60	851.74	0.20	0.00	-10.81
6,329.00	1.32	117.22	6,173.57	850.31	-16.73	850.40	1.46	0.29	-73.34
6,420.00	1.41	110.63	6,264.54	849.43	-14.75	849.47	0.20	0.10	-7.24
6,511.00	2.20	259.52	6,355.52	848.72	-15.42	848.78	3.83	0.87	163.62
6,601.00	2.11	263.91	6,445.46	848.23	-18.76	848.39	0.21	-0.10	4.88
6,692.00	2.02	249.58	6,536.40	847.49	-21.93	847.76	0.57	-0.10	-15.75
6,782.00	2.11	254.77	6,626.34	846.50	-25.02	846.87	0.23	0.10	5.77
6,873.00	0.53	342.48	6,717.32	846.47	-26.76	846.89	2.37	-1.74	96.38
6,963.00	0.53	279.64	6,807.32	846.93	-27.30	847.37	0.61	0.00	-69.82
7,054.00	1.76	347.14	6,898.30	848.37	-28.02	848.83	1.79	1.35	74.18
7,144.00	1.23	344.86	6,988.27	850.65	-28.58	851.12	0.59	-0.59	-2.53
7,236.00	1.23	8.59	7,080.25	852.57	-28.69	853.06	0.55	0.00	25.79
7,326.00	0.97	352.50	7,170.23	854.29	-28.65	854.76	0.45	-0.29	-17.88
7,416.00	0.97	338.97	7,260.22	855.75	-29.02	856.24	0.25	0.00	-15.03
7,506.00	0.53	344.77	7,350.21	856.86	-29.40	857.37	0.50	-0.49	6.44
7,597.00	0.26	229.46	7,441.21	857.14	-29.67	857.65	0.75	-0.30	-126.71
7,688.00	0.79	181.82	7,532.20	856.37	-29.85	856.89	0.71	0.58	-52.35
7,778.00	0.62	210.12	7,622.20	855.33	-30.11	855.86	0.42	-0.19	31.44
7,869.00	1.14	193.60	7,713.19	854.03	-30.57	854.57	0.63	0.57	-18.15
7,959.00	1.14	162.57	7,803.17	852.30	-30.52	852.84	0.68	0.00	-34.48
8,050.00	1.41	157.91	7,894.15	850.40	-29.82	850.92	0.32	0.30	-5.12
8,144.00	1.32	153.69	7,988.12	848.36	-28.91	848.85	0.14	-0.10	-4.49
8,234.00	1.49	163.98	8,078.09	846.31	-28.13	846.77	0.34	0.19	11.43
8,324.00	1.93	176.72	8,168.05	843.67	-27.72	844.12	0.64	0.49	14.16
8,414.00	1.85	189.29	8,258.01	840.72	-27.86	841.18	0.47	-0.09	13.97
8,504.00	2.02	188.85	8,347.95	837.72	-28.34	838.20	0.19	0.19	-0.49
8,594.00	2.37	175.49	8,437.89	834.30	-28.44	834.78	0.69	0.39	-14.84
8,685.00	2.37	177.34	8,528.81	830.54	-28.21	831.02	0.08	0.00	2.03
8,775.00	2.73	165.82	8,618.72	826.61	-27.59	827.07	0.69	0.40	-12.80
8,823.00	2.99	167.93	8,666.66	824.27	-27.05	824.72	0.58	0.54	4.40
8,877.00	2.99	167.93	8,720.59	821.52	-26.46	821.95	0.00	0.00	0.00

Projection to TD

Company: Kerr McGee Oil and Gas Onshore LP
Project: Uintah County, UT UTM12
Site: NBU 922-36M Pad
Well: NBU 922-36L3DS
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well NBU 922-36L3DS
TVD Reference: GL 4967 & RKB 14' @ 4981.00ft (Ensign 145)
MD Reference: GL 4967 & RKB 14' @ 4981.00ft (Ensign 145)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.16 Multi User Db

Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)		
- Shape									
NBU 922-36L3DS PBHL	0.00	0.00	8,601.00	841.04	-9.10	14,526,107.95	2,089,805.75	39° 59' 20.649 N	109° 23' 44.397 W
- actual wellpath misses target center by 23.11ft at 8756.79ft MD (8600.53 TVD, 827.44 N, -27.79 E)									
- Circle (radius 25.00)									

Design Annotations					
Measured Depth	Vertical Depth	Local Coordinates		Comment	
(ft)	(ft)	+N/-S (ft)	+E/-W (ft)		
168.00	168.00	0.09	-0.18	First SDI Surface MWD Survey	
2,108.00	2,106.98	28.80	-51.09	Last SDI Surface MWD Survey	

Checked By: _____ Approved By: _____ Date: _____

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 922-36L3DS (RED)	Spud Conductor: 8/26/2009	Spud Date: 9/8/2009
Project: UTAH-UINTAH	Site: NBU 922-36M PAD	Rig Name No: PROPETRO/, ENSIGN 145/145
Event: DRILLING	Start Date: 7/21/2009	End Date: 10/28/2009
Active Datum: RKB @4,972.00ft (above Mean Sea Level)		UWI: SW/SW/0/9/S/22/E/36/0/0/26/PM/S/539.00/W/0/393.00/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
9/8/2009	6:00 - 7:00	1.00	DRLSUR	01	B	P		R/U PROPERO 12,AIR BOWL,BLOOY LINE,AIR COMP, BOOSTER
	7:00 - 8:00	1.00	DRLSUR	06	A	P		P/U AIR HAMMER ASSY
	8:00 - 9:30	1.50	DRLSUR	02	A	P		SPUD AIR HAMMER @ 08:00 9-8-09, DRL F/ 44' TO 180' - AIR MIST 2400CFM 9 BPM
	9:30 - 11:30	2.00	DRLSUR	06	A	P		L/D HAMMER TOOLS AND P/U BIT & DRLG ASSY
	11:30 - 0:00	12.50	DRLSUR	02	D	P		SPUD BIT,09-08-09-11:30 AM- DRL F/ 180' TO 1490' WATER AT 1490' 12BPM-1500 PSI, ROTATE,SLIDE, - SLIDE F/ 210-216'-300'-306'-420'-428'-470'-476'-650'-656'-830'-836'-920'-928'-1010'-1016'-1370-1378'- 60' TOTAL DRL F/ 1490' TO 2150' TD
9/9/2009	0:00 - 9:30	9.50	DRLSUR	02	D	P		
	9:30 - 10:30	1.00	DRLSUR	05	C	P		CIRC TO L/D PIPE AND TOOLS
	10:30 - 14:30	4.00	DRLSUR	06	A	P		L/D PIPE TOOLS AND BIT
	14:30 - 17:30	3.00	DRLSUR	12	C	P		R/U RUN 48 JOINTS J-55 36# 9 5/8 CSNG SHOE @ 2110' - BAFFLE @ 2065', RELEASE RIG -@ 18:00 HRS 9-9-09
10/21/2009	17:30 - 22:00	4.50	DRLSUR	12	E	P		CMNT SURFACE,TAIL 300SX 15.8 1.15 YLD,FLOAT HELD, 400 SX 15.8# 1.15 YLD ON TOP OUTS
	6:00 - 7:00	1.00	MIRU	01	A	P		RIG DOWN FLOW LINES, FLARE LINES. WALK THE RIG FROM THE NBU 922-36L4BS AND CENTER OVER WELL. LEVEL THE RIG.
	7:00 - 10:30	3.50	MIRU	14	B	P		RIG UP FLOW LINES, FLARE LINES, NU BOP AND PREPARE TO TEST.
	10:30 - 14:30	4.00	DRLPRO	15	A	P		TEST PIPE RAMS, BLIND RAMS, FLOOR VALVES, CHOKE AND CHOKE MANIFOLD TO 250 AND 5000 PSI. TEST HYDRIL TO 250 AND 2500 PSI. TEST CSG. TO 1500 PSI FOR 30 MINUTES.
	14:30 - 15:00	0.50	DRLPRO	14	B	P		INSTALL WEAR BUSHING
	15:00 - 17:30	2.50	DRLPRO	09	A	P		SLIP AND CUT DRILL LINE.
	17:30 - 18:00	0.50	DRLPRO	07	A	P		SERVICE RIG.
	18:00 - 18:30	0.50	DRLPRO	23		P		PRE JOB RIG INSPECTION
	18:30 - 22:00	3.50	DRLPRO	06	A	P		MAKE UP HTC Q506F PDC, 1.75 BH, 6/7 LOBE, 2.7 STAGE, .22 RPG MOTOR, MWD EQUIPMENT ON 768' OF HWDP BHA. TIH WITH SAME. INSTALL ROTATING HEAD INSERT.
	22:00 - 23:00	1.00	DRLPRO	02	F	P		DRILL THE SHOE TRACK
23:00 - 0:00	1.00	DRLPRO	02	D	P		DRILL 2150'-2205' (55') 55'/HR. 14-22K WOB, 130 BIT RPM, 460 GPM, 950-1400 PSI, 300-500 DIFF., MW 8.4, VIS 26.	
10/22/2009	0:00 - 11:00	11.00	DRLPRO	02	D	P		DRILL 2205'-3119' (914') 83.09 '/HR. 14-22K WOB, 140 BIT RPM, 460 GPM, 950-1400 PSI, 300-500 DIFF., MW 8.4, VIS 26.
	11:00 - 11:30	0.50	DRLPRO	07	A	P		SERVICE RIG, FILL CHOKE MANIFOLD WITH METHANOL. FUNCTION PIPE RAMS.
	11:30 - 0:00	12.50	DRLPRO	02	D	P		DRILL 3119'-4264' (1145") 91.6'/HR. 20-24K WOB, 140 BIT RPM, 460 GPM, 950-1400 PSI, 300-500 DIFF., MW 8.4, VIS 26.26% SLIDES.
10/23/2009	0:00 - 15:00	15.00	DRLPRO	02	D	P		DRILL 4264'-5470' (1206') 80.4'/HR. 20-24K WOB, 147 BIT RPM, 490 GPM, 950-1400 PSI, 300-500 DIFF., MW 8.4, VIS 26. BGG: 90-250 ,CG:, 0 PEAK GAS:
	15:00 - 15:30	0.50	DRLPRO	07	A	P		SERVICE RIG, FUNCTION HCR.

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 922-36L3DS (RED) Spud Conductor: 8/26/2009 Spud Date: 9/8/2009
 Project: UTAH-UINTAH Site: NBU 922-36M PAD Rig Name No: PROPETRO/, ENSIGN 145/145
 Event: DRILLING Start Date: 7/21/2009 End Date: 10/28/2009
 Active Datum: RKB @4,972.00ft (above Mean Sea Level) UWI: SW/SW/0/9/S/22/E/36/0/0/26/PM/S/539.00/W/0/393.00/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	15:30 - 0:00	8.50	DRLPRO	02	D	P		DRILL 5470'-6175' (655') 77.0'/HR. 20-24K WOB, 145 BIT RPM, 490 GPM, 1150-1550 PSI, 300-500 DIFF., MW 8.4, VIS 26. BGG: 90-350 ,CG:, 0 PEAK GAS:700
10/24/2009	0:00 - 11:00	11.00	DRLPRO	02	D	P		DRILL/SLIDE 6125'-6737' (612') 55.6'/HR. 20-24K WOB, 145 BIT RPM, 490 GPM, 1150-1550 PSI, 300-500 DIFF., MW 8.8, VIS 27. BGG: 90-350 ,CG:, 0 PEAK GAS:700
	11:00 - 11:30	0.50	DRLPRO	07	A	P		SERVICE RIG.
	11:30 - 0:00	12.50	DRLPRO	02	D	P		DRILL/SLIDE 6737'-7420' (683') 54.6'/HR. 20-24K WOB, 145 BIT RPM, 490 GPM, 2150-2600 PSI, 300-450 DIFF., MW 10.3, VIS 37. BGG: 80-380 ,CG:, 260-1005 PEAK GAS:1035..SMALL FLARE ON CONN.
10/25/2009	0:00 - 12:00	12.00	DRLPRO	02	D	P		DRILL/SLIDE 7420'-8098' (678') 56.5'/HR. 20-24K WOB, 136 BIT RPM, 460 GPM, 2150-2600 PSI, 300-450 DIFF., MW 11.3, VIS 44. BGG: 80-380 ,CG:, 260-1005 PEAK GAS:1035..
	12:00 - 12:30	0.50	DRLPRO	07	A	P		STARTED SEEPING 15 BPH @ 7320', MIX LCM TO 3%. LOSING 19 BPH, INC. LCM TO 5%. LOSING 12 BPH, INC. LCM TO 8%. NO LOSSES.
	12:30 - 13:30	1.00	DRLPRO	02	D	P		SERVICE RIG, FUNCTION PIPE RAMS
	13:30 - 15:00	1.50	DRLPRO	05	A	P		DRILL/SLIDE 8098'-8120' (22') 22'/HR. 20-24K WOB, 136 BIT RPM, 460 GPM, 2150-2600 PSI, 300-450 DIFF., MW 11.6, VIS 44. LCM 8%, BGG: 45-530 ,CG:, 120-1480 PEAK GAS:2585
	15:00 - 23:30	8.50	DRLPRO	06	A	P		CIRCULATE BOTTOMS UP. WORK ON BULK HOPPER, CIRCULATE AIR OUT OF SYSTEM. POOH FOR BIT #2, ROTATE OUT FIRST 14 STANDS, MIX AND PUMP SLUG , ROTATE OUT TOTAL OF 16 STANDS THEN STRAIGHT PULL. 90K OVER STRING MAX. LAY DOWN MOTOR. DIT IS DBR.
	23:30 - 0:00	0.50	DRLPRO	06	A	P		MAKE UP FMHX555ZM PDC ON 1.5 DEG. BH MOTOR, TIH WITH SAME.
10/26/2009	0:00 - 7:00	7.00	DRLPRO	06	A	P		TRIP IN HOLE, BREAKING CIRC. @ SHOE, 3550', 5590' AND 8027'.
	7:00 - 8:00	1.00	DRLPRO	05	A	X		STARTED LOSING MUD, SLOW PUMPS AND INCREASE LCM TO 10% IN SYSTEM, LOST 76 BBLs TOTAL, 40 ON TRIP AND 36 WHILE CIRCULATING ON BOTTOM. REGINED FULL RETURNS. REAM 100' TO BOTTOM.
	8:00 - 12:00	4.00	DRLPRO	02	D	P		DRILL 8120'-8462' (342') 85.5'/HR. 12-16K WOB, 108 BIT RPM, 460 GPM, 2430-2800 PSI, 300-450 DIFF., MW 11.9, VIS 44. LCM 12%, BGG: 45-530 ,CG:, 120-1480 PEAK GAS:2585
	12:00 - 12:30	0.50	DRLPRO	07	A	P		SERVICE RIG,
	12:30 - 14:00	1.50	DRLPRO	02	D	P		DRILL 8462'-8605' (143') 95.3'/HR. 12-16K WOB, 108 BIT RPM, 460 GPM, 2430-2800 PSI, 300-450 DIFF., MW 11.9, VIS 44. LCM 10%, BGG: 45-530 ,CG:, 120-1480 PEAK GAS:2585, MUD CUT TO 7.6 PPG
	14:00 - 15:30	1.50	DRLPRO	05	A	P		CIRCULATE, ATTEMPT TO SLIDE, UNABLE TO SLIDE, WEIGHT STACKING OUT AND SLIPPING OFF STALLING BIT. UNABLE TO HOLE TOOL FACE. WORKED PIPE ATTEMPTING TO SLIDE WITH OUT SUCCESS.
	15:30 - 19:30	4.00	DRLPRO	02	D	P		DRILL 8605'-8877' (272') 68'/HR. 12-16K WOB, 108 BIT RPM, 460 GPM, 2430-2800 PSI, 300-450 DIFF., MW 12.2, VIS 44. LCM 10%, BGG: 45-530 ,CG:, 120-1480 PEAK GAS:2130'

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 922-36L3DS (RED)	Spud Conductor: 8/26/2009	Spud Date: 9/8/2009
Project: UTAH-UINTAH	Site: NBU 922-36M PAD	Rig Name No: PROPETRO/, ENSIGN 145/145
Event: DRILLING	Start Date: 7/21/2009	End Date: 10/28/2009
Active Datum: RKB @4,972.00ft (above Mean Sea Level)		UWI: SW/SW/0/9/S/22/E/36/0/0/26/PM/S/539.00/W/0/393.00/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
10/27/2009	19:30 - 21:30	2.00	DRLPRO	05	C	P		CIRCULATE BOTTOMS UP 2 TIMES, MIX AND PUMP A SLUG.
	21:30 - 0:00	2.50	DRLPRO	06	E	P		START WIPER TRIP TO THE SHOE, 7570' AT MIDNIGHT. ROTATE OUT.
	0:00 - 9:00	9.00	DRLPRO	06	E	P		WIPER TRIP TO THE SHOE, TIH BREAKING CIRCULATION EVERY 30 STDS.
	9:00 - 10:30	1.50	DRLPRO	05	C	P		CIRCULATE BOTTOMS UP TWICE, TRIP GAS 2500+, MUD CUT TO 9.3 PPG. 20-25' FLARE. LOST RETURNS AFTER SECOND BU. HOLE FULL AND STATIC.
	10:30 - 21:30	11.00	DRLPRO	06	A	P		POOH, ROTATE OUT 25 STANDS TO 6700' STADING BACK IN DERRICK. RU AND LDDS TO BHA, RIH 15 STANDS, LDDS TO BHA, RIH 10 STANDS, LDDS, LD BHA. LD DIRECTIONAL TOOLS
	21:30 - 22:00	0.50	DRLPRO	14	B	P		PULL THE WEAR BUSHING.
10/28/2009	22:00 - 0:00	2.00	DRLPRO	11	D	P		HELD SAFETY MEETING WITH HALLIBURTON, RU AND RIH WITH TRIPLE COMBO LOG AND START LOGGING FROM 8880'.
	0:00 - 3:00	3.00	DRLPRO	11	D	P		FINISH RUNNING TRIPLE COMBO FROM 8880' TO 2110', RUN GR TO SURFACE.
	3:00 - 4:00	1.00	DRLPRO	12	A	P		HELD SAFETY MEETING, RU WEATHERFORD CSG. CREW.
	4:00 - 10:30	6.50	DRLPRO	12	C	P		RUN CSG. AS FOLLOWS: FLOAT SHOE, 1 JT. CSG. FLOAT COLLAR, 105 JTS. I-80 BTC, CSG. MARKER JT. SET AT 4379', 103 JTS. 4 1/2" 11.6 PPF I-80 BTC CSG. OAL 8866.71', SET AT 8866.71'. CENTRALIZED WITH 15 BOW SPRINGS, 1 ON FIRST 3 JTS. THEN EVERY 3RD JT. PU LANDING JOINT.
	10:30 - 12:00	1.50	DRLPRO	05	D	P		CIRCULATE BOTTOMS UP WITH RIG PUMP. HELD SAFETY MEETING WITH BJ.
	12:00 - 12:30	0.50	DRLPRO	12	B	P		INSTALL PLUG RETAINER
	12:30 - 14:30	2.00	DRLPRO	12	E	P		DISPLACE 40 BBLS SPACER, 623 SX, 225 BBLS, 12.4# LEAD, 1100 SX, 256 BBLS, 14.3# TAIL, DISPLACED W/ 135 BBLS CLAYTREAT WATER, BUMPED PLUG, FLOAT HELD, RETURNED 77 BBLS CEMENT TO SURFACE
	14:30 - 20:00	5.50	DRLPRO	01	E	P		RD BJ, CLEAN PITS, RELEASE RIG AT 20:00

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 922-36L3DS (RED) Spud Conductor: 8/26/2009 Spud Date: 9/8/2009
 Project: UTAH-UINTAH Site: NBU 922-36M PAD Rig Name No: LEED 698/698
 Event: COMPLETION Start Date: 12/4/2009 End Date:
 Active Datum: RKB @4,972.00ft (above Mean Sea Level) UWI: SW/SW/0/9/S/22/E/36/0/0/26/PM/S/539.00/W/0/393.00/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
12/23/2009	7:00 - 7:15	0.25	COMP	48		P		HSM. WL SAFTY
	7:15 - 15:00	7.75	COMP	37	B	P		MIRU B&C QUICK TEST. PSI TEST CSG & BOTH FRAC VALVES T/ 7000 PSI. GOOD TEST. BLEED OFF PSI. RDMO B&C QUICK TEST. MIRU CASSED HOLE SOLUTIONS. PU 3 1/8 EXP GUN, 23 GM, ,36 HOLE SIZE. RIH PERF F/ 8574'-76', 4 SPF, 8 HOLES. 8638'-40', 4 SPF, 8 HOLES. 8722'-24', 4 SPF, 8 HOLES. 8754'-56', 4 SPF, 8 HOLES. 8796'-98', 4 SPF, 8 HOLES. TOTAL HOLES = 40. POOH. WINTERIZE WELL. SWI.
12/28/2009	7:00 - 7:30	0.50	COMP	48		P		HSM. FRACING & PERFORATING ON A PAD WELL
	7:30 - 14:47	7.28	COMP	36	B	P		STG 1) WHP 1,660 PSI, BRK 3,076 PSI @ 5.7 BPM, ISIP 2,760 PSI, FG .75. PUMP 100 BBLS @ 50.5 BPM @ 5,680 PSI = 78% HOLES OPEN. MP 6,800 PSI, MR 55.6 BPM, AP 5,560 PSI, AR 54.3 BPM, ISIP 2,684 PSI, FG .74. NPI -76 PSI. PMP 4,304 BBLS OF SW & 160,693 LBS OF 30/50 SND & 5,000 LBS OF 20/40 RESIN SND. TOTAL PROP 165,693 LBS.
	14:47 - 14:47	0.00	COMP	37	B			STG 2) PU 3 1/8 EXP GUN, 23 GM, ,36 HOLE SIZE. RIH PERF F/ 8198'-00, 4 SPF, 8 HOLES, 8220'-22', 4 SPF, 8 HOLES, 8238'-40', 4 SPF, 8 HOLES, 8327'-30', 4 SPF, 12 HOLES, 8395'-97', 4 SPF, 8 HOLES. TOTAL HOLES = 44. WHILE RIH STACK OUT @ 3540'. P/U ON WL BECAME STUCK. SURGE WELL BACAME FREE P/U HOLE T/ 3440', BECAME STUCK AGAIN. RU FRAC TECH T/ PUMP PASSED PLUG. PUMP @ 2 BPM @ 2500 PSI. WL JUMPED & BECAME FREE. POOH WL CCL WAS NOT WORKING WHILE POOH. ASSUM WE PUMPED GUN & PLUG OFF WL. POOH T/ 847' WL BECAME STUCK IN GREASE TUBES. 847' OF WL STILL IN HOLE. RU DIFFRENT LUBE & POOH W/ THE REST OF WL. FINISH W/ THIS WELL. (PLUG & GNS IN HOLE @ 3440'). SWI. FREEZE PROTECT WH.
1/11/2010	7:00 - 7:15	0.25	COMP	48		P		FISH IN WELL= CABLE HEAD, CCL, WEIGHT BAR, FIRING HEAD,4-2' GUN'S, 1-3' GUN, X-OVER, BAKER 10 SETTING TOOL.SETTING SLEEVE, HAL 8K CBP. STG # 1 IS FRACED. LAST ISIP = 2600#
								JSA

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 922-36L3DS (RED)		Spud Conductor: 8/26/2009	Spud Date: 9/8/2009
Project: UTAH-UINTAH		Site: NBU 922-36M PAD	Rig Name No: LEED 698/698
Event: COMPLETION		Start Date: 12/4/2009	End Date:
Active Datum: RKB @4,972.00ft (above Mean Sea Level)		UWI: SW/SW/0/9/S/22/E/36/0/0/26/PM/S/539.00/W/0/393.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	7:15 - 17:00	9.75	COMP	30		P		RIG DOWN FROM YELLOW WELL 36M3T MOVE & RIG UP ON 36L3DS NU RIG PUMP, PMP 50 BBLs TMAC TO CONTROL WELL, ND FRAC VALVES NU BOPS RU FLOOR & TUBING EQUIP PU 3-1/8" GRAPPLE W/ JAR & BUMPER SUB TALLEY & PU PIPE RIH TO 8091' EOT @ CATCH FISH IN AM SDFN
1/12/2010	7:00 - 7:15	0.25	COMP	48		P		JSA WORK AROUND LIVE WELLS
	7:15 - 7:15	0.00	COMP	30		P		SIWP= 1700 PSI OPEN WELL TO PIT RIH W/ 3-1/8" GRAPLE WORK UP & DOWN ON FISH TOP ASSUME FISH IS FREE & CLEAN & CAUGHT POOH TO FISHING TOOLS NO FISH BREAK & INSPECT TOOLS NO HARM OR DAMAGE TO GRAPPLE, WAS NOT GETTING OVER FISH , MAKE UP TOOLS RIH TAG FISH TOP @ 8740' RU KELLY HOSE PUMP 40 BBLs TMAC CIRC DOWN MAKE 3' HOLE COULDNT GRAB FISH WORK SEVERAL TIMES NO LUCK CANT ROTATE POOH 5 STANDS EOY @ 8435' SWIFN TRY TUBING SWIVEL IN AM.SWIFN
1/13/2010	7:00 - 7:15	0.25	COMP	48		P		JSA FISHING
	7:15 - 17:30	10.25	COMP	30		P		SIWP= 1700 PSI, OPEN WELL TO PIT BLOW WELL DOWN PUMP 30 BBLs TMAC TO CONTROL WELL RIH 5 STANDS TAG FISH TOP PU TUB SWIVEL ROTATE DOWN W/ TONGS WHILE CIRC SEVERAL TIMES RU POWER SWWL ROTATE DOWN NUMEROUS TIMES UN SURE ABOUT FISH POOH TO CHECK, CAUGHT W/L FISHING TOOLS (GUESS 12' W/L ON TOP OF FISH) LD CASED HOLE EQUIP REDRESS RBS TOOLS TIH W/ 3-1/8" GRAPPLE TO ABOVE PERFS EOT @ 4600' SWIFN
1/14/2010	7:00 - 7:15	0.25	COMP	48		P		JSA LAYING DOWN TUBING
	7:15 - 17:00	9.75	COMP	30		P		SIWP= 1400 PSI OPEN WELL TO PIT TO BLOW DOWN PRESS, RIH TAG FISH TOP @ 8757' , PU PWR SWWL, NU RIG PUMP CIRC DOWN OVER FISH LATCH ON, POOH W/ FISH, LD CASED HOLE W/L EQUIPMENT & RBS FISHING TOOLS RU CASED HOLE W/L RIH W/ BAKER 8K CBP SET @ 8426' RD W/L PU COLLAR RIH W/ TUBING & LD 4000' ON TUBING FLOAT SWIFN.
1/15/2010	7:00 - 7:15	0.25	COMP	48		P		JSA LAYING DOWN PIPE
	7:15 - 12:00	4.75	COMP	30		P		SIWP= 0 PSI (PLUG SET) CONTINUE TO PULL OUT OF HOLE LAYING DOWN TUBING RD FLOOR & TUBING EQUIP ND BOPS NU FRAC VALVES FILL HOLE W/ TREATED WTR SWI RD RIG MOVE TO YELLOW WELL
1/19/2010	7:00 - 7:15	0.25	COMP	48		P		HSM. GO AROUND WL DONT WALK UNDER WL.
	7:15 - 15:00	7.75	COMP	37	B	P		MIRU CASED HOLE SOLUTIONS WL. STG 2)PU 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH PERF F/ 8198'-00', 4 SPF, 8 HOLES. 8220'-22', 4 SPF, 8 HOLES. 8238'-40', 4 SPF, 8 HOLES. 8327'-30', 4 SPF, 12 HOLES. 8394'-96', 4 SPF, 8 HOLES. POOH. SWL. PERP T/ FRAC IN THE :AM.

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 922-36L3DS (RED)		Spud Conductor: 8/26/2009	Spud Date: 9/8/2009
Project: UTAH-UINTAH		Site: NBU 922-36M PAD	Rig Name No: LEED 698/698
Event: COMPLETION		Start Date: 12/4/2009	End Date:
Active Datum: RKB @4,972.00ft (above Mean Sea Level)		UWI: SW/SW/0/9/S/22/E/36/0/0/26/PM/S/539.00/W/0/393.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
1/20/2010	11:49 - 19:30	7.68	COMP	36	B	P		<p>STG 2)WHP 940 PSI, BRK 3282 PSI @ 4.9 BPM. ISIP 2673 PSI, FG .76. PUMP 100 BBLs @ 50.3 BPM @ 5130 PSI = 70% HOLES OPEN. MP 6965 PSI, MR 56 BPM, AP 4898 PSI, AR 49.8 BPM, ISIP 1449 PSI, FG .61, NPI -1224 PSI. PMP 1483 BBLs SW & 53,430 LBS OF 30/50 SND & 5,000 LBS OF 30/50 RESIN SND. TOTAL PROP 58,430 LBS. WHILE IN FLUSH PSI WAS CLIMBING, @ 6500# DROPPED SOME GEARS IN THE PUMP TRUCKS. PSI DROPPED T/ 5500# +/- THEN CAME BACK UP T/ 6965# THEN WE STARTED T/ DROP TRUCKS OFF LINE. PSI CAME DOWN T/ 5400# +/- BUT THEN CAME RIGHT BACK UP T/ 6100#. AT THAT TIME THE VALVE OPERATOR SAID T/ SHUT DOWN ALL TRUCK. I LOOKED OUT THE FRAC VAN WINDOW AND SEEN THAT THE FRAC FLOOR WAS TIPPING VERY BAD. 12:30 RAN OUT SIDE T/ WHAT WAS GOING ON. FOUND THAT WATER & FRAC SAND WAS FLOWING OUT OF THE GROUND AROUND WELL HEAD. CLEARED AREA. 12:33 CALLED JEFF SAMUELS. OPEN WELL T/ PIT W/ 2 - 2" LINES. (FLOWING 450# OPEN CHOKE & RATE WAS PICKING UP. 100% FRAC FLUID W/ SAND. NO GAS YET.) 13:30 PU 4 1/2 8K BAKER CBP & 2 WEIGHT BARS. WELL WAS STARTING T/ FLOW ALOT OF GAS @ THIS TME. EQUILIZE LUBE. OPEN TOP FRAC VALVE. RIH T/ 54'. COULD NOT GO ANY DEEPER. RU SUPERIOR T/ PUMP PLUG DOWN HOLE. PUMP @ 1.5 BPM @ 650#. PLUG WOULD NOT MOVE. PUMP @ 2 BPM, PLUG DID NOT MOVE. SHUT DOWN PUMPING. PULL UP HOLE W/ PLUG ABOUT 10', BECAME STUCK. WORK WL. PULL UP T/ 1500# LINE TENTION. PLUG BECAME FREE. PULL IN TO LUBE. LD PLUG & WEIGHT BARS. (FOUND CHUNK OF RUBBER WAS GONE OUT OF PLUG.) 14:30 LOAD CAZ UNIT W/ 100 BBL'S 10# BRINE.. WAIT FOR ORDERS FROM DENVER. 17:00 PU 4 1/2 8K BAKER CBP & WEGHT BARS. HOOK UP T/ WELL HEAD. READY T/ RIH. RU SUPERIOR T/ PUMP 10# BRINE. OPEN WELL PUMP 12 BBLs BRINE. WELL WENT ON A VACUUM. RIH W/ CBP, CONT T/ PUMP BRINE WHIILE RIH W/ CBP. PUMP 100 BBLs OF BRINE THEN SHUT DOWN PUMP. CONT RIH W/ CBP & SET CBP @ 6907'. WELL WAS UNDER CONTROL. POOH W/ WL. SWI. FLOW BACK CREW ARE T/ WATCH WELL OVER NIGHT. HSM. STAY CLEAR OF WL. OPEN WELL 0 PSI. PU 4 1/2 CIBP. RIH SET CIBP @ 6904'. POOH. LD SETTING TOOLS. RD WL OFF THIS WELL. MOVE CRANE OVER T/ THE OTHER WELL. RU WL ON THE YELLOW WELL. DONE FRACING THIS WELL.</p>
1/21/2010	7:00 - 7:15	0.25	COMP	48	I	P		
	7:15 - 9:00	1.75	COMP	34	I	P		

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 922-36L3DS (RED) Spud Conductor: 8/26/2009 Spud Date: 9/8/2009
 Project: UTAH-UINTAH Site: NBU 922-36M PAD Rig Name No: MILES 2/2
 Event: WELL WORK EXPENSE Start Date: 2/8/2010 End Date: 2/23/2010
 Active Datum: RKB @4,972.00ft (above Mean Sea Level) UWI: SW/SW/0/9/S/22/E/36/0/0/26/PM/S/539.00/W/0/393.00/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
1/27/2010	7:00 - 12:00	5.00		47	C	P		HSM. MIRU WELDER FROM JD FIELD SERVICES. REMOVE WH FROM CSG. CUT OFF 9-5/8 SPLIT CSG. WELD IN NEW 4' 9-5/8 36# J-55 LTC CSG. RE-INSTALL WH. RDMO.
	12:00 - 15:00	3.00		34	D	P		MIRU CUTTERS WIRELINE. PU DUMP BAILER. LOAD 3 SKS CEMENT IN BAILER. RIH, DUMP CEMENT @ 6904'. POOH. RDMO CUTTERS.
2/8/2010	7:00 - 7:30	0.50	WO/REP	48		P		MIRU, PU 4 1/2" PACKER, RIH TO 70", SET PACKER, PRESSURE TEST T/ 1000#, 20 MIN. TEST GOOD., WAIT ON HYDRILL, WEATHERFORD. SWIFN.
2/9/2010	7:00 - 7:30	0.50	WO/REP	48		P		WASH OVER CASING
	7:30 - 7:30	0.00	WO/REP	44		P		ND BOP'S, NU HYDRILL, RU RBS TO WASH OVER 4 1/2" CSG 13' FROM SURFACE, TAGGED, WASH OVER 6 HRS GAINED 3'. RTN SHOWED CEMENT AND FINE METAL SHAVINGS. POOH, BROKE OUT AND LAYED DWN TOOL STRING, SWIFN
2/10/2010	7:00 - 7:30	0.50	WO/REP	48		P		WASHING OVER 4 1/2"
	7:30 - 18:00	10.50	WO/REP	44		P		MIRU RNI WATER TRUCK, RUN 2" 30' DWN 4 1/2" CSG, SUCK CSG DRY. VISUAL CSG FOR HOLE. LOOKED DWN HOLE, INDICATED THAT CEMENT IN HOLE LARGER THAN THE WASH PIPE. PU 6 1/8" OD X 5 1/16" ID DRAG TOOTH SHOE, RIH WITH WASH PIPE PUP JTS AND SHOE, BROKE CIRC AT 12', WASH OVER 4 1/2" WASHED OVER TO 27.50 FROM SURFACE, 40.5' FROM KB STARTED GETTING SHALE BACK IN RTNS, C/O LAY DWN WASH PIPE AND SHOE, WINTERIZE RIG, SDFN
2/11/2010	7:00 - 7:15	0.25	COMP	48		P		HSM, REVIEW JSA #
	7:15 - 7:57	0.70	COMP	47	C	P		P/U WASH PIPE & DRAG TOOTH SHOE ON SWVL, WASH DN 16' & STARTED TO HAVE LOTS OF TORQUE, INCREASED PUMP RATE WAS UNABLE TO WORK DN, POOH LOOK @ SHOE. USE RNI TO SUCK DN FLUID LEVEL IN WELL TO 31", WAS ABLE TO LOOK @ CSG, 4-1/2 CSG IS LAID OVER TO SIDE OF 9-5/8, COULD SEE RING IN 9-5/8 APROX 16' DN, L/D WASH PIPE & SWVL. P/U CSG SPEAR DRESSED W/ 3.947 NOM, CATCH GRAPPLE, SPEAR 4-1/2 CSG PULL TO 42,000# DID NOT COME FREE, RELEASED GRAPPLE POOH & L/D. P/U WASH PIPE & SHOE COULD NOT GET PAST 16', WASH PIPE WAS BINDING UP ON 4-1/2 CSG ENABLING US TO MAKE ANY HOLE, SDFN. ORDERED LARGER WASH PIPE.
2/12/2010	7:00 - 7:15	0.25	COMP	48		P		HSM.
	7:15 - 16:00	8.75	COMP	47		P		P/U 6" WASH PIPE W/ SHOE, RIH TAG @ 31", P/U PWR SWVL, BRK CIRC, C/O TO 97', CIRC HOLE CLEAN, POOH, L/D WASH PIPE, SUCK FLUID LVEL DN W/ VAC TRUCK TO MAKE SURE WIRE LINE WAS INSIDE 4-1/2 CSG, MIRU CASED HOLE SOLUTIONS, P/U 65' OF 1-1/8 SINKER BARS, & CHEMICAL CUTTER, CUT 4-1/2 CSG OFF @ 65', R/D CASED HOLE, P/U 4" SPEAR, RIH SPEAR 4-1/2 CSG, PULL 23,000# CSG PULL FREE, L/D 55' CSG, FOUND 2 HOLES 24' DOWN FROM TOP OF CSG APROX 180* FROM EACH OTHER SWIFN.

US ROCKIES REGION

Operation Summary Report

Well: NBU 922-36L3DS (RED)		Spud Conductor: 8/26/2009	Spud Date: 9/8/2009
Project: UTAH-UINTAH		Site: NBU 922-36M PAD	Rig Name No: MILES 2/2
Event: WELL WORK EXPENSE		Start Date: 2/8/2010	End Date: 2/23/2010
Active Datum: RKB @4,972.00ft (above Mean Sea Level)		UWI: SW/SW/0/9/S/22/E/36/0/0/26/PM/S/539.00/W/0/393.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
2/16/2010	7:00 - 7:15	0.25	COMP	48		P		HSM, P/U PWR SWVL
	7:15 - 20:30	13.25	COMP	51	C	P		P/U RIH W/ BHA 7-3/8 OD SHOE, XO BUSHING, 2-5' WASH PIPE JNTS, XO-BUSHONG, SKIRTED MILL, XO-SUB, RIH TAG FISH TOP W/ SHOE @ 63.15', ROTATE TO RIGHT OVER FISH TOP, STRIP WASHINGTON HEAD ON TOP OF HYDRIL, P/U PWR SWVL, SET DN W/ SKIRTED MILL, DRESS OFF FISH TOP, STRIP OFF WASHINGTON HEAD, R/D PWR SWVL, POH W/ BHA, P/U 4-1/2 CSG P-ATCH, RIH W/ 4-1/2 CSG, TAG FISH TOP @ 63.30' ROTATE & SWALLOW 3.12' OF 4-1/2 CSG, R/U & PRESSURE TEST TO 3000# [GOOD TEST] N/D HYDRIL & FLANGE, RIH W/ 1" CEMENT 4-1/2 TO SURFACE, P/U CSG SLIPS & PULL 40,000# TENSION, SET SLIPS PUT CSG VALVES ON SDFN.
2/17/2010	7:00 - 7:15	0.25	COMP	48		P		HSM. PU PIPE.
	7:15 - 12:30	5.25	COMP	31	I	P		OPEN WELL 0#.
	12:30 - 15:00	2.50	COMP	44	C	P		NU BOP. PREP & TALLY 2 3/8 L-80 TBG. PU 3 7/8 BIT + X-DART + POBS + XN NIPPLE. RIH W/ 218 JT'S 2 3/8 L-80 TBG & TAG CMT @ 6890'. RU DRL EQUIP. BRK CONV CIRC. DRL OUT 15' OF CMT, CIBP & CBP IN 2.5 HR'S. 800# PSI INCR. LOST CIRC. REGAIN CIRC AFTER 5 TO 10 BBL'S. CIRC CLEAN.
2/18/2010	7:00 - 7:15	0.25	COMP	48		P		CONT RIH TAG @ 8420'. RD DRL EQUIP. POOH W/ TBG. LD 15 JT'S & STD BACK 60 JT'S IN THE DRRICK. SWI. SDFN.
	7:15 - 10:30	3.25	COMP	31	I	P		EOT @ 6018'. 190 JT'S IN WELL.
2/19/2010	10:30 - 19:00	8.50	COMP	34	I	P		HSM. POOH W/ TBG. SICP 3400#. OPEN WELL, BLOW WELL DOWN T/ PIT. FLOW WELL DOWN T/ 125#. CONT POOH. STD BACK 80 STD'S. RU RIG PUMP T/ CSG. PUMP 30 BBL'S 10# BRINE T/ CONT WELL. WELL WENT ON A VACCUME. FINISH POOH W/ THE LAST 15 STD'S. LD BHA.
	19:00 - 7:48		COMP	33	C	P		MIRU CASED HOLE SOLUTIONS WL. PU 4 1/2 GR. RIH T/ 8190'. POOH. LD GR. PU 4 1/2 8K BAKER CBP. RIH SET CBP @ 8170'. POOH. BLEED WELL OFF. RIG PUMP T/ CSG VALVE. FILLWELL VERY SLOW W/ T-MAC. TRY NOT T/ TRAP ANY GAS IN THE WELL. PU CBL TOOLS. RIH T/ 700'. COULD NOT GET ANY SIGNAL. T/ MUCH GAS CUT FLUID. POOH. BLEED OFF TRAPPED GAS. REFILL. RIH W/ CBL TOOLS. FLUID WAS STILL GAS CUT VERY BAD. POOH.
	19:30 - 21:00	1.50	COMP	41	A	P		MIRU B&C QUICK TEST. PSI TEST CSG T/ 6200#. PSI BLED DOWN T/ 6000# DUE T/ TRAPPED GAS. BLEED OFF PSI. RDMO B&C QUICK TEST. LET GAS MOVE T/ SURFACE OVER NIGHT.
2/19/2010	7:00 - 7:15	0.25	COMP	48		P		PU CBL TOOLS. LOG TOP 400'. LOG LOOKED GOOD. SWI, SDFN.
	7:15 - 7:45	0.50	COMP	33	C	P		HSM. HIGH PSI LINES.
	7:45 - 8:30	0.75	COMP	46	A	P		MIRU B&C QUICK TEST. PSI TEST CSG & BOTH FRAC VALVES T/ 6200#. GOOD TEST. BLEED OFF PSI. RDMO B&C QUICK TEST. WAIT FOR ENGINEERS T/ LOOK @ CBL.

US ROCKIES REGION

Operation Summary Report

Well: NBU 922-36L3DS (RED)		Spud Conductor: 8/26/2009	Spud Date: 9/8/2009
Project: UTAH-UINTAH		Site: NBU 922-36M PAD	Rig Name No: MILES 2/2
Event: WELL WORK EXPENSE		Start Date: 2/8/2010	End Date: 2/23/2010
Active Datum: RKB @4,972.00ft (above Mean Sea Level)		UWI: SW/SW/0/9/S/22/E/36/0/0/26/PM/S/539.00/W/0/393.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	8:30 - 9:12	0.70	COMP	37	B	P		PERF STG 3) PU 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH PERF F/ 8072'-76', 4 SPF, 16 HOLES. 8109'-11', 4 SPF, 8 HOLES. 8136'-40', 4 SPF, 16 HOLES. 40 HOLES. POOH.
	9:12 - 10:18	1.10	COMP	36	B	P		FRAC STG 3) PSI TEST LINES T/ 7200#. WHP 300 PSI, BRK 4427 PSI @ 4.1 BPM. ISIP 2667 PSI, FG .77. PUMP 100 BBLs @ 46.6 BPM @ 4400 PSI = 100% HOLES OPEN. ISIP 2837 PSI, FG .79, NPI 140 PSI. MP 5880 PSI, MR 51.4 BPM, AP 4946 PSI, AR 49.5 BPM, PMP 965 BBLs SW & 26,805 LBS OF 30/50 SND & 5,000 LBS OF 20/40 RESIN SND. TOTAL PROP 31,805 LBS, SWI. X-OVER FOR WL.
	10:20 - 11:25	1.08	COMP	37	B	P		PERF STG 4)PU 4 1/2 8K BAKER CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 & 120 DEG PHASING. RIH SET CBP @ 8028' P/U PERF F/ 7888'-92', 4 SPF, 16 HOLES. 7924'-26', 4 SPF, 8 HOLES. 7962'-64', 3 SPF, 6 HOLES. 7994'-98', 3 SPF, 12 HOLES. 42 HOLES. POOH, X-OVER FOR FRAC CREW.
	11:33 - 11:57	0.40	COMP	36	B	P		FRAC STG 4)WHP 680 PSI, BRK 4000 PSI @ 3.0 BPM. ISIP 2173 PSI, FG .71. PUMP 100 BBLs @ 50.8 BPM @ 4165 PSI = 100% HOLES OPEN. ISIP 2133 PSI, FG .71, NPI -40 PSI. MP 5075 PSI, MR 52.5 BPM, AP 4427 PSI, AR 51.1 BPM, PMP 798 BBLs SW & 24,978 LBS OF 30/50 SND & 5,000 LBS OF 20/40 RESIN SND. TOTAL PROP 29,978 LBS, SWI, X-OVER FOR WL.
	12:00 - 13:00	1.00	COMP	37	B	P		PERF STG 5)PU 4 1/2 8K BAKER CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 120 DEG PHASING. RIH SET CBP 7830' PU PERF F/ 7662'-66', 3 SPF, 12 HOLES. 7722'-26', 3 SPF, 12 HOLES. 7794'-00', 3 SPF, 18 HOLES. 42 HOLES. POOH. X-OVER FOR FRAC CREW.
	13:00 - 15:58	2.97	COMP	36	B	P		FRAC STG 5)WHP 0 PSI, ATTM T/ BRK ZONE SEVRAL TIMES. SD , X-OVER FOR WL. PU 3 1/2 DUMP BAILER. RIH DUMP 10 GAL 15% ACID. POOH. X-OVER FOR FRAC CREW. BRK 5200 PSI @ 2.4 BPM. ISIP 2252 PSI, FG .73. PUMP 100 BBLs @ 50 BPM @ 4690 PSI = 67% HOLES OPEN. ISIP 2199 PSI, FG .72, NPI -53 PSI. MP 5974 PSI, MR 52.3 BPM, AP 4223 PSI, AR 50.5 BPM, PMP 1773 BBLs SW & 61,499 LBS OF 30/50 SND & 5,000 LBS OF 20/40 RESIN SND. TOTAL PROP 66,499 LBS. SWI, X-OVER FOR WL.
	16:00 - 16:54	0.90	COMP	37	B	P		PERF STG 6)PU 4 1/2 8K BAKER CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 7550' P/U PERF F/ 7468'-72', 4 SPF, 16 HOLES. 7514'-20', 4 SPF, 24 HOLES. 40 HOLES. POOH. X-OVER FOR FRAC CREW.

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 922-36L3DS (RED)	Spud Conductor: 8/26/2009	Spud Date: 9/8/2009
Project: UTAH-UINTAH	Site: NBU 922-36M PAD	Rig Name No: MILES 2/2
Event: WELL WORK EXPENSE	Start Date: 2/8/2010	End Date: 2/23/2010
Active Datum: RKB @4,972.00ft (above Mean Sea Level)		UWI: SW/SW/0/9/S/22/E/36/0/0/26/PM/S/539.00/W/0/393.00/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	17:00 - 17:33	0.55	COMP	36	B	P		FRAC STG 6) WHP 0 PSI, BRK 3291 PSI @ 2.7 BPM. ISIP 1961 PSI, FG .70. PUMP 100 BBLs @ 45.9 BPM @ 3699 PSI = 100% HOLES OPEN. ISIP 2279 PSI, FG .74, NPI 318 PSI. MP 4342 PSI, MR 48.9 BPM, AP 3669 PSI, AR 47.9 BPM, PMP 1182 BBLs SW & 42,279 LBS OF 30/50 SND & 5,000 LBS OF 20/40 RESIN SND. TOTAL PROP 47,279 LBS. SWI, X-OVER FOR WL.
	17:37 - 18:25	0.80	COMP	37	B	P		PERF STG 7) PU 4 1/2 8K BAKER CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 7344' P/U PERF F/ 7290'-96', 4 SPF, 24 HOLES. 7310'-14', 4 SPF, 16 HOLES. POOH. X-OVER FOR FRAC CREW.
	18:37 - 19:03	0.43	COMP	36	B	P		FRAC STG 7) WHP 1960 PSI, BRK 5235 PSI @ 2.6 BPM. ISIP 2004 PSI, FG .71. PUMP 100 BBLs @ 41 BPM @ 3750 PSI = 68% HOLES OPEN. ISIP 2422 PSI, FG .77, NPI 418 PSI. MP 5228 PSI, MR 47.2 BPM, AP 3611 PSI, AR 45.5 BPM, PMP 737 BBLs SW & 19,934 LBS OF 30/50 SND & 5,000 LBS OF 20/40 RESIN SND. TOTAL PROP 24,934 LBS. SWI, SDFN.
	19:03 - 19:55	0.87	COMP	37	B	P		PERF STG 8) PU 4 1/2 8K BAKER CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 & 120 DEG PHASING. RIH SET CBP @ 7162' P/U PERF F/ 7012'-16', 4 SPF, 16 HOLES. 7060'-64', 4 SPF, 16 HOLES. 7128'-32', 3 SPF, 12 HOLES. 44 HOLES. POOH. X-OVER FOR FRAC CREW.
	20:02 - 20:49	0.78	COMP	36	B	P		FRAC STG 8) WHP 590 PSI, BRK 2980 PSI @ 2.4 BPM. ISIP 1518 PSI, FG .65. PUMP 100 BBLs @ 50.5 BPM @ 3960 PSI = 60% HOLES OPEN. ISIP 2029 PSI, FG .73, NPI 511 PSI. MP 4127 PSI, MR 50.9 BPM, AP 3495 PSI, AR 50.5 BPM, PMP 898 BBLs SW & 28,358 LBS OF 30/50 SND & 5,000 LBS OF 20/40 RESIN SND. TOTAL PROP 33,358 LBS. SWI, X-OVER FOR WL.
	20:49 - 20:49	0.00	COMP	34	I	P		PU 4 1/2 8K BAKER CBP. RIH WL BECAME HIGH STRANDED @ 4500', P/U SET CBP @ 4448'. POOH WL VERY SLOW. RDMO CASED HOLE SOLUTIONS WL & SUPERIOR FRAC SERV. SWI, SDFWE.
2/22/2010	7:00 - 7:30	0.50	COMP	48		P		DRILLING PLUGS

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 922-36L3DS (RED)		Spud Conductor: 8/26/2009		Spud Date: 9/8/2009	
Project: UTAH-UINTAH			Site: NBU 922-36M PAD		Rig Name No: MILES 2/2
Event: WELL WORK EXPENSE			Start Date: 2/8/2010		End Date: 2/23/2010
Active Datum: RKB @4,972.00ft (above Mean Sea Level)			UWI: SW/SW/0/9/S/22/E/36/0/0/26/PM/S/539.00/W/0/393.00/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	7:30 - 7:30	0.00	COMP	44		P		ND FRAC VALVE, NU BOP'S, TEST BOP'S TO 3000#, TRIP IN TBG TO 4448' , DRILL KILL PLUG WITH 141JTS. PLUG# 1 4448' 00' SAND 20 MIN 300# KICK PLUG# 2 7162' 34' SAND 60 MIN 200# KICK PLUG# 3 7344' 30' SAND 20 MIN 200# KICK PLUG# 4 7578' 30' SAND 35 MIN 800# KICK LAY DWN 26 JTS FROM 240 JTS. EOT 6769' 214 JTS IN HOLE. WINTERIZE RIG, TURN WELL TO FLOW BACK CREW FOR NIGHT. DRILLING PLUGS
2/23/2010	7:00 - 7:30	0.50	COMP	48		P		CSG 600# RIH WITH 13 STDS TBG TO 7578', CIRC BTMS UP, PU 8 JTS TO 7830' DRILL PLUGS. PLUG#5 7830' 30' SAND 50 MIN 700# KICK PLUG# 6 8028' 30' SAND 30 MIN 800# KICK PLUG# 7 8170' 30' SAND 30 MIN 900# KICK PLUG# 8 8426' 30' SAND 30 MIN 2000# KICK RECIEVED A 2000# KICK ON THE 8TH PLUG, BLEW ALMOST STRAIGHT GAS, VERY LITTLE WATER CAME BACK, LET BLOW FOR 30 MIN CAME DWN TO 700#, C/O TO PBTD 8823' 279 JTS. PUH, LAY DWN 21 JTS TO 8180.05' FROM KB, 258 JTS J-55 4.7# TBG XNSN 1.875' EOT 258 JTS, 8164.02' LAND TBG, ND BOP'S, NU WH. POBS 1000# TURN TO FBC
	7:30 - 20:00	12.50	COMP	44		P		
2/24/2010	7:00 - 13:30 -			33 50				WELL ON SALES @ 1330 HR ON 2/25/10 - 1200 MCFD, 816 BWPD, CP 2850#, FTP 2650#, CK 14/64"
			PROD					

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

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

Well Name: NBU 922-36L3DS

Api No: 43-047-50369 Lease Type: STATE

Section 36 Township 09S Range 22E County UINTAH

Drilling Contractor PETE MARTIN DRLG RIG # 145

SPUDDED:

Date 08/26/2009

Time 5:00 PM

How DRY

Drilling will Commence: _____

Reported by JAMES GOBER

Telephone # (435) 828-7024

Date 08/27/2009 Signed CHD

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
4304750369	NBU 922-36L3DS		SWSW	36	9S	22E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
<i>B</i>	99999	<i>2900</i>	8/26/2009			8/27/09	
Comments: MIRU PETE MARTIN BUCKET RIG. <i>W5MVD</i> SPUD WELL LOCATION ON 08/26/2009 AT 17:00 HRS. <i>BHL = NWSW</i>							

Well 2

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

Well 3

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

ACTION CODES:

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

RECEIVED
AUG 27 2009

ANDY LYTLE

Name (Please Print)

[Signature]
Signature

REGULATORY ANALYST

Title

8/27/2009

Date



43-047-50369

January 25, 2010

Mr. Dan Jarvis
Field Operation Manager
Utah Division of Oil, Gas & Mining
P.O. Box 145801
Salt Lake City, Utah 84114-5801

RECEIVED
JAN 28 2010
DIV. OF OIL, GAS & MINING

Re: Accidental Discharge Subsequent Report
Kerr McGee Oil & Gas
NBU 922-36L3DS
NW ¼, Sec. 36, T9S, Range 22E
Uintah County, UT

Dear Mr. Jarvis,

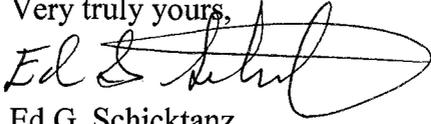
This is the follow-up written report to the verbal notification given to you by Grizz Oleen on Wednesday, January, 20, 2010. The following are the details of the incident:

- On January 20 at approximately 12:00 PM Kerr McGee Oil & Gas Onshore L.P. experienced a casing failure while fracing the subject well.
- The well head separated at the surface and approximately 20 bbls. of flowback was released onto location.
- A trench was immediately dug to the reserve pit to divert the fluid.
- Of the 20 bbls. of fluid released on location approximately 4 bbls made it off the northwest side of the location where it ran down a steep hill and quickly soaked into the ground. No live water courses were impacted.
- Kerr McGee's emergency response team was activated to help deal with this well control problem.
- At approximately 5:30 PM it was decided to pump weighted brine down the well bore to kill the well. Once killed a wire line unit entered the well bore and set a plug at 6907 ft.
- Once the plug was set the well was effectively killed and under control at approximately 6:20 PM.
- There were no injuries associated with this incident.

The cause of the incident is still being investigated and once the investigation is complete a follow-up report will be submitted to the Commission.

If you have any questions or require additional information please feel free to contact me at 720-929-6728.

Very truly yours,

A handwritten signature in black ink, appearing to read "Ed G. Schicktanz". The signature is fluid and cursive, with a large, sweeping flourish at the end.

Ed G. Schicktanz
Environmental Supervisor
Anadarko Petroleum Corporation

Cc: Jim Springer – BLM Vernal
Ryan Angus -- BLM – Vernal
Rebecca Johnson –APC
Brent Naherny - APC