

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 920-14M3AS		
2. TYPE OF WORK DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>				3. FIELD OR WILDCAT NATURAL BUTTES		
4. TYPE OF WELL Gas Well <input type="checkbox"/> Coalbed Methane Well: NO <input type="checkbox"/>				5. UNIT or COMMUNITIZATION AGREEMENT NAME NATURAL BUTTES		
6. NAME OF OPERATOR KERR-MCGEE OIL & GAS ONSHORE, L.P.				7. OPERATOR PHONE 720 929-6587		
8. ADDRESS OF OPERATOR P.O. Box 173779, Denver, CO, 80217				9. OPERATOR E-MAIL mary.mondragon@anadarko.com		
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) UTU 0577A		11. MINERAL OWNERSHIP FEDERAL <input checked="" type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>		12. SURFACE OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input checked="" type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>		
13. NAME OF SURFACE OWNER (if box 12 = 'fee')				14. SURFACE OWNER PHONE (if box 12 = 'fee')		
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')				16. SURFACE OWNER E-MAIL (if box 12 = 'fee')		
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN') Ute Tribe		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	488 FSL 633 FWL	SWSW	14	9.0 S	20.0 E	S
Top of Uppermost Producing Zone	590 FSL 635 FWL	SWSW	14	9.0 S	20.0 E	S
At Total Depth	590 FSL 635 FWL	SWSW	14	9.0 S	20.0 E	S
21. COUNTY UINTAH		22. DISTANCE TO NEAREST LEASE LINE (Feet) 590		23. NUMBER OF ACRES IN DRILLING UNIT 2091		
		25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 100		26. PROPOSED DEPTH MD: 10652 TVD: 10650		
27. ELEVATION - GROUND LEVEL 4812		28. BOND NUMBER WYB000291		29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE Permit #43-8496		

ATTACHMENTS

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

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

NAME Danielle Piernot	TITLE Regulatory Analyst	PHONE 720 929-6156
SIGNATURE	DATE 06/30/2009	EMAIL danielle.piernot@anadarko.com
API NUMBER ASSIGNED 43047505270000	APPROVAL  Permit Manager	

Proposed Hole, Casing, and Cement

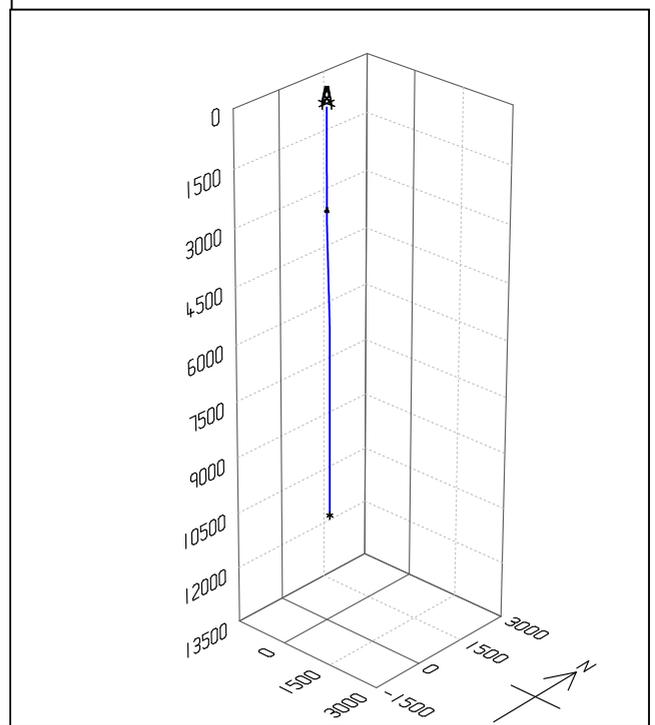
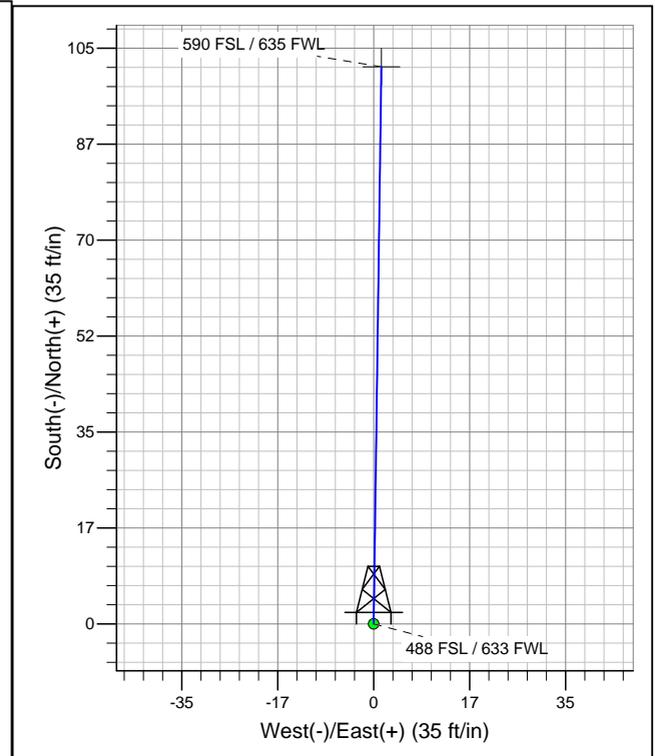
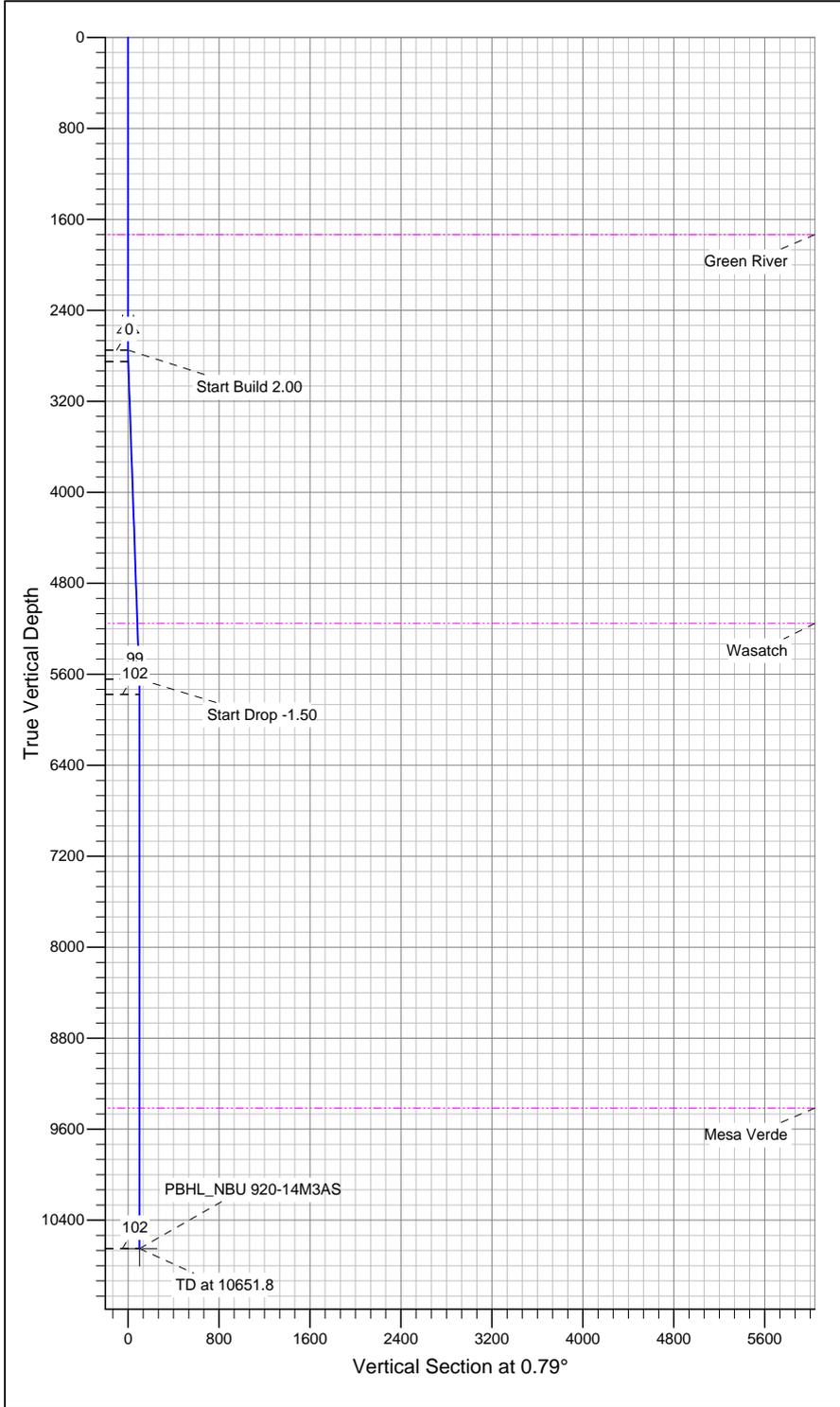
String	Hole Size	Casing Size	Top (MD)	Bottom (MD)		
Prod	7.875	4.5	0	10652		
Pipe	Grade	Length	Weight			
	Grade P-110 LT&C	10652	11.6			

Proposed Hole, Casing, and Cement

String	Hole Size	Casing Size	Top (MD)	Bottom (MD)		
Surf	12.25	9.625	0	2700		
Pipe	Grade	Length	Weight			
	Grade J-55 LT&C	2700	36.0			



Well Name: P_NBU 920-14M3AS
 Surface Location: UINTAH_NBU 920-14M PAD
 NAD 1927 (NADCON CONUS) Universal Transverse Mercator (US Survey Feet)
 UTAH - UTM (feet), NAD27, Zone 12N
 Ground Elevation: 4812.0
 Northing 14539670.86 Easting 2020961.35 Latitude 40.029447°N Longitude 109.640633°W



SECTION DETAILS									
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0
2	2750.0	0.00	0.00	2750.0	0.0	0.0	0.00	0.00	0.0
3	2850.0	2.00	0.79	2850.0	1.7	0.0	2.00	0.79	1.7
4	5645.1	2.00	0.79	5643.4	99.3	1.4	0.00	0.00	99.3
5	5778.5	0.00	0.00	5776.7	101.6	1.4	1.50	180.00	101.6
6	10651.8	0.00	0.00	10650.0	101.6	1.4	0.00	0.00	101.6

Azimuths to True North
Magnetic North: 11.40°

Magnetic Field
Strength: 52565.9snT
Dip Angle: 65.93°
Date: 4/27/2009
Model: IGRF200510

ROCKIES - PLANNING

UTAH - UTM (feet), NAD27, Zone 12N

UINTAH_NBU 920-14M PAD

P_NBU 920-14M3AS

P_NBU 920-14M3AS

Plan: Plan #1 04-27-09 ZJRA6

Standard Planning Report - Geographic

27 April, 2009

APC Planning Report - Geographic

Database: apc_edmp	Local Co-ordinate Reference: Well P_NBU 920-14M3AS
Company: ROCKIES - PLANNING	TVD Reference: WELL @ 4812.0ft (Original Well Elev)
Project: UTAH - UTM (feet), NAD27, Zone 12N	MD Reference: WELL @ 4812.0ft (Original Well Elev)
Site: UINTAH_NBU 920-14M PAD	North Reference: True
Well: P_NBU 920-14M3AS	Survey Calculation Method: Minimum Curvature
Wellbore: P_NBU 920-14M3AS	
Design: Plan #1 04-27-09 ZJRA6	

Project UTAH - UTM (feet), NAD27, Zone 12N	
Map System: Universal Transverse Mercator (US Survey Fee	System Datum: Mean Sea Level
Geo Datum: NAD 1927 (NADCON CONUS)	
Map Zone: Zone 12N (114 W to 108 W)	

Site UINTAH_NBU 920-14M PAD			
Site Position:	Northing: 14,539,670.86 ft	Latitude: 40.029447°N	
From: Lat/Long	Easting: 2,020,961.35 ft	Longitude: 109.640633°W	
Position Uncertainty: 0.0 ft	Slot Radius: "	Grid Convergence: 0.87 °	

Well P_NBU 920-14M3AS					
Well Position	+N/-S 0.0 ft	Northing: 14,539,670.86 ft	Latitude: 40.029447°N		
	+E/-W 0.0 ft	Easting: 2,020,961.35 ft	Longitude: 109.640633°W		
Position Uncertainty	0.0 ft	Wellhead Elevation: ft	Ground Level: 4,812.0 ft		

Wellbore P_NBU 920-14M3AS					
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	4/27/2009	11.40	65.93	52,566

Design Plan #1 04-27-09 ZJRA6				
Audit Notes:				
Version:	Phase: PLAN	Tie On Depth: 0.0		
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	10,650.0	0.0	0.0	0.79

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
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,750.0	0.00	0.00	2,750.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,850.0	2.00	0.79	2,850.0	1.7	0.0	2.00	2.00	0.00	0.79	
5,645.1	2.00	0.79	5,643.4	99.3	1.4	0.00	0.00	0.00	0.00	
5,778.5	0.00	0.00	5,776.7	101.6	1.4	1.50	-1.50	0.00	180.00	
10,651.8	0.00	0.00	10,650.0	101.6	1.4	0.00	0.00	0.00	0.00	PBHL_NBU 920-14

APC Planning Report - Geographic

Database: apc_edmp	Local Co-ordinate Reference: Well P_NBU 920-14M3AS
Company: ROCKIES - PLANNING	TVD Reference: WELL @ 4812.0ft (Original Well Elev)
Project: UTAH - UTM (feet), NAD27, Zone 12N	MD Reference: WELL @ 4812.0ft (Original Well Elev)
Site: UINTAH_NBU 920-14M PAD	North Reference: True
Well: P_NBU 920-14M3AS	Survey Calculation Method: Minimum Curvature
Wellbore: P_NBU 920-14M3AS	
Design: Plan #1 04-27-09 ZJRA6	

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (ft)	Map Easting (ft)	Latitude	Longitude	
0.0	0.00	0.00	0.0	0.0	0.0	14,539,670.86	2,020,961.35	40.029447°N	109.640633°W	
1,735.0	0.00	0.00	1,735.0	0.0	0.0	14,539,670.86	2,020,961.35	40.029447°N	109.640633°W	
Green River										
2,600.0	0.00	0.00	2,600.0	0.0	0.0	14,539,670.86	2,020,961.35	40.029447°N	109.640633°W	
Surface Casing										
2,750.0	0.00	0.00	2,750.0	0.0	0.0	14,539,670.86	2,020,961.35	40.029447°N	109.640633°W	
2,850.0	2.00	0.79	2,850.0	1.7	0.0	14,539,672.61	2,020,961.35	40.029452°N	109.640633°W	
5,154.4	2.00	0.79	5,153.0	82.2	1.1	14,539,753.03	2,020,961.23	40.029673°N	109.640629°W	
Wasatch										
5,645.1	2.00	0.79	5,643.4	99.3	1.4	14,539,770.15	2,020,961.20	40.029720°N	109.640628°W	
5,778.5	0.00	0.00	5,776.7	101.6	1.4	14,539,772.48	2,020,961.20	40.029726°N	109.640628°W	
9,415.8	0.00	0.00	9,414.0	101.6	1.4	14,539,772.48	2,020,961.20	40.029726°N	109.640628°W	
Mesa Verde										
10,651.8	0.00	0.00	10,650.0	101.6	1.4	14,539,772.48	2,020,961.20	40.029726°N	109.640628°W	

Targets										
Target Name	- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
PBHL_NBU 920-14M:		0.00	0.00	10,650.0	101.6	1.4	14,539,772.48	2,020,961.20	40.029726°N	109.640628°W
- plan hits target center										
- Point										

Casing Points						
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")		
2,600.0	2,600.0	Surface Casing	9-5/8	12-1/4		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
5,154.4	5,153.0	Wasatch		0.00		
9,415.8	9,414.0	Mesa Verde		0.00		
1,735.0	1,735.0	Green River		0.00		

NBU 920-14M3AS

Pad: NBU 920-14M

Surface: 488' FSL, 633' FWL (SW/4SW/4)

BHL: 590' FSL 635' FWL (SW/4SW/4)

Sec. 14 T9S R20E

Uintah, Utah

Mineral Lease: UTU 0577A

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	1,735'	
Birds Nest	1,980'	Water
Mahogany	2,499'	Water
Wasatch	5,153'	Gas
Mesaverde	8,462'	Gas
MVU2	9,414'	Gas
MVL1	9,935'	Gas
TVD	10,650'	
TD	10,652'	

3. Pressure Control Equipment (Schematic Attached)

Please refer to the attached Drilling Program.

4. Proposed Casing & Cementing Program:

Please refer to the attached Drilling Program.

5. Drilling Fluids Program:

Please refer to the attached Drilling Program.

6. Evaluation Program:

Please refer to the attached Drilling Program.

7. Abnormal Conditions:

Maximum anticipated bottomhole pressure calculated at 10,652' TD (MD), approximately equals 6,526 psi (calculated at 0.61 psi/foot).

Maximum anticipated surface pressure equals approximately 4,182 psi (bottomhole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

8. Anticipated Starting Dates:

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

9. Variances:

Please refer to the attached Drilling Program.

Onshore Order #2 – Air Drilling Variance

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

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

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

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

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

Background

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

Before the surface air rig is mobilized, a rathole rig is utilized to set and cement conductor pipe through a competent surface formation. Generally, the conductor is set at 40 feet. In some cases, conductor may be set deeper in areas that the surface formation is not found

competent. This rig also drills the rat and mouse holes in preparation for the surface casing and production string drilling operations.

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

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

Variance for BOPE Requirements

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

Variance for Mud Material Requirements

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

Variance for Special Drilling Operation (surface equipment placement) Requirements

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

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

Typically the air rig compressors are required to be located in the opposite direction from the blooie line and a minimum of 100 feet from the well bore. At the KMG locations, the air rig compressors are approximately 40 feet from the well bore and approximately 60 feet from the blooie line discharge due to the unique air rig design. The air compressors (see

attachment) are located on the rig (1250 cfm) and on a standby trailer (1170 cfm). A booster sits between the two compressors and boosts the output from 350 psi to 2000 psi. The design does put the booster and standby compressor opposite from the blooie line.

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

Conclusion

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

10. Other Information:

Please refer to the attached Drilling Program.



KERR-McGEE OIL & GAS ONSHORE LP
DRILLING PROGRAM

CASING PROGRAM

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS		
						BURST	COLLAPSE	TENSION
CONDUCTOR	14"	0-40'						
						3,520	2,020	453,000
SURFACE	9-5/8"	0 to 2,700	36.00	J-55	LTC	0.82	1.60	5.93
						7,780	6,350	201,000
PRODUCTION	4-1/2"	0 to 9,652	11.60	I-80	LTC	1.81	0.96	1.86
						10,690	8,650	279,000
	4-1/2"	9,652 to 10,652	11.60	HCP-110	LTC	48.59	1.30	29.45

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

2) MASP (Prod Casing) = Pore Pressure at TD - (0.22 psi/ft-partial evac gradient x TD)
 (Burst Assumptions: TD = 12.0 ppg) 0.22 psi/ft = gradient for partially evac wellbore
 (Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)
MASP 4,182 psi

3) Maximum Anticipated Bottom Hole Pressure (MABHP) = Pore Pressure at TD
 (Burst Assumptions: TD = 12.0 ppg) 0.61 psi/ft = bottomhole gradient
 (Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)
MABHP 6,526 psi

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE	LEAD	500'	Premium cmt + 2% CaCl + 0.25 pps flocele	215	60%	15.60	1.18
Option 1							
	TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt + 2% CaCl + 0.25 pps flocele	380	0%	15.60	1.18
			Premium cmt + 2% CaCl				
SURFACE		NOTE: If well will circulate water to surface, option 2 will be utilized					
Option 2	LEAD	2,200'	65/35 Poz + 6% Gel + 10 pps gilsonite + 0.25 pps Flocele + 3% salt BWOW	520	35%	12.60	1.81
	TAIL	500'	Premium cmt + 2% CaCl + 0.25 pps flocele	180	35%	15.60	1.18
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
PRODUCTION	LEAD	4,652'	Premium Lite II + 3% KCl + 0.25 pps celloflake + 5 pps gilsonite + 10% gel + 0.5% extender	440	40%	11.00	3.38
	TAIL	6,000'	50/50 Poz/G + 10% salt + 2% gel + 0.1% R-3	1,470	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.

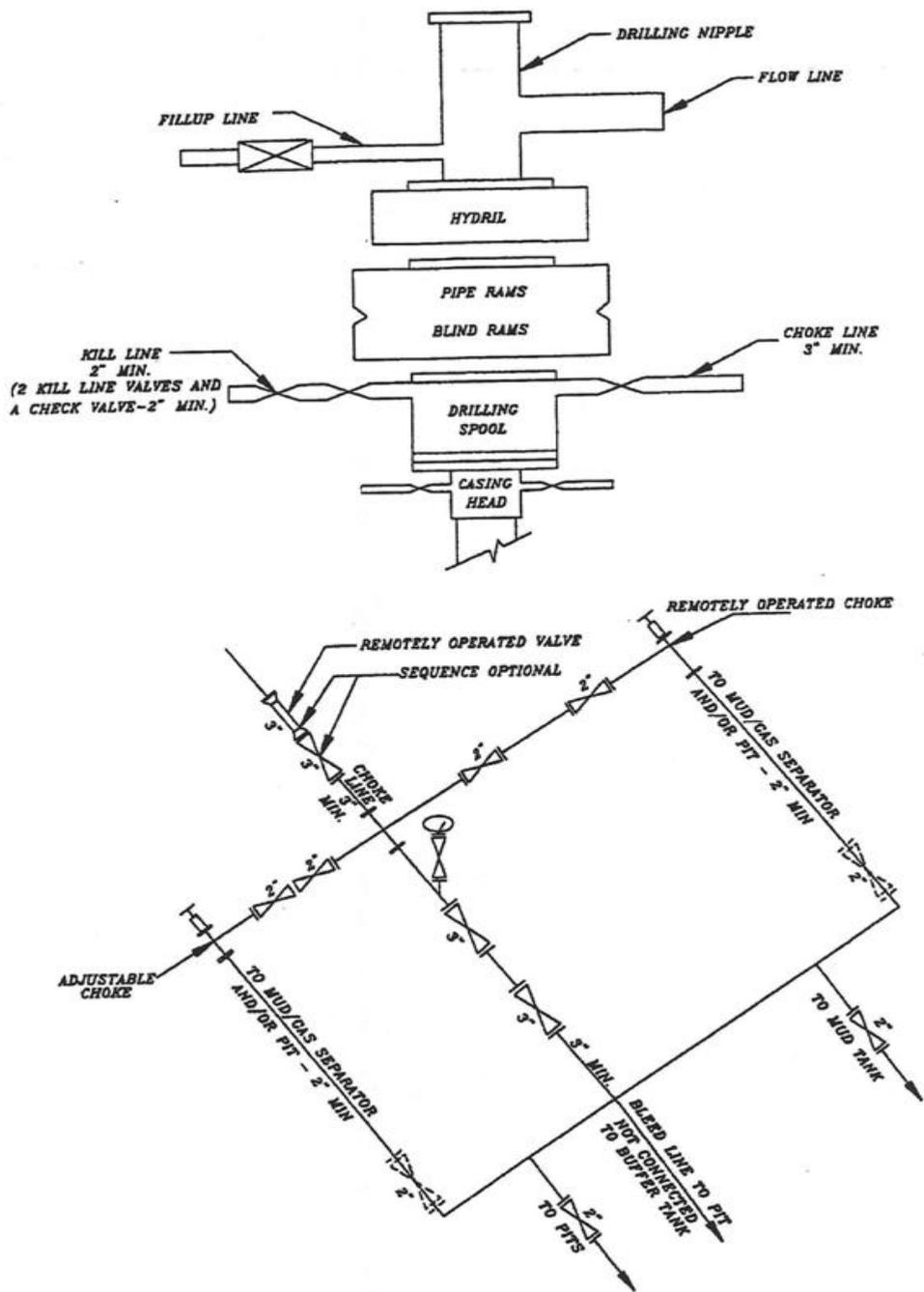
Surveys will be taken at 1,000' minimum intervals.

Most rigs have PVT System for mud monitoring. If no PVT is available, visual monitoring will be utilized.

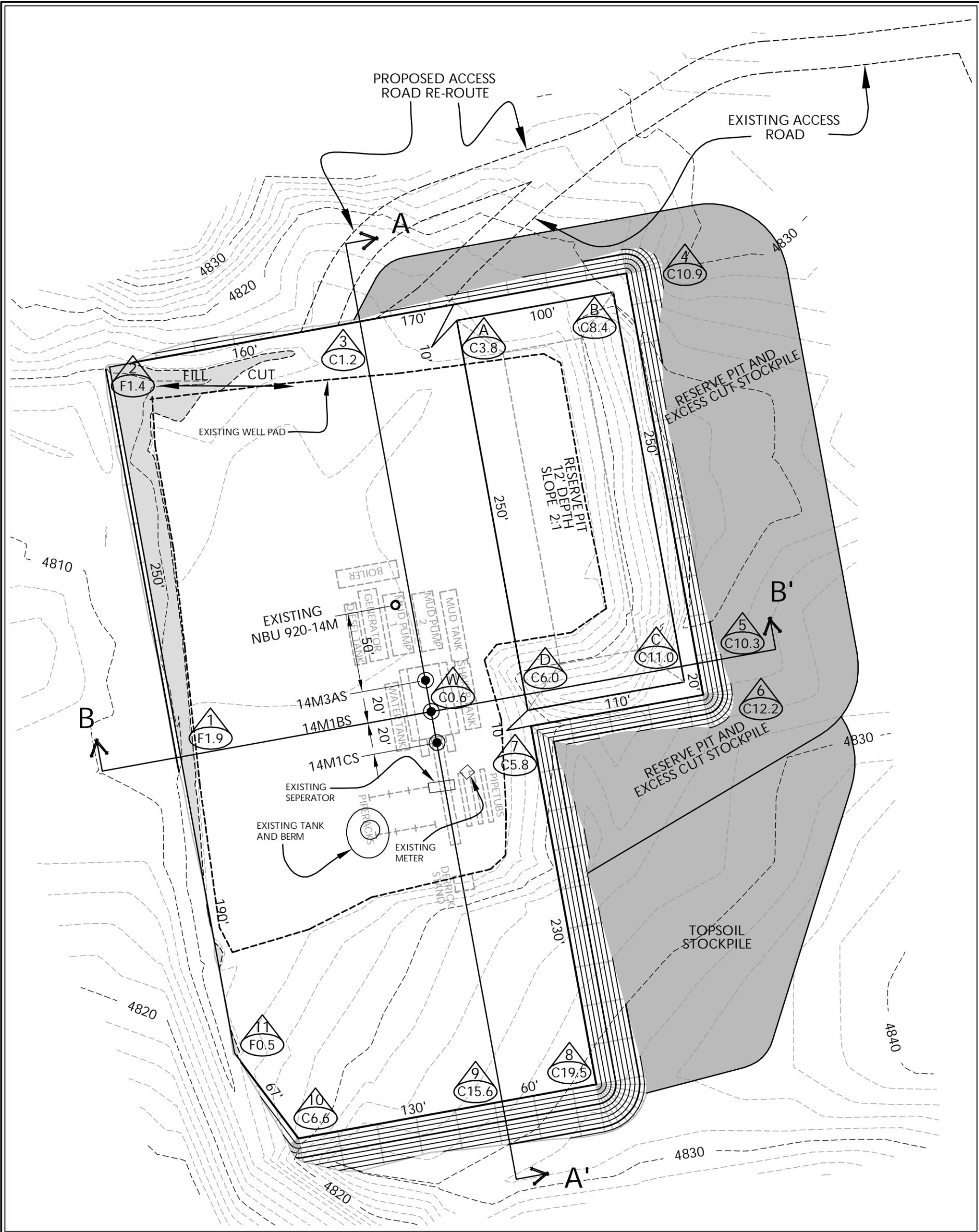
DRILLING ENGINEER: _____ DATE: _____
 John Huycke / Emile Goodwin

DRILLING SUPERINTENDENT: _____ DATE: _____
 John Merkel / Lovel Young

EXHIBIT A NBU 920-14M3AS



SCHEMATIC DIAGRAM OF 5,000 PSI BOP STACK



WELL PAD NBU 920-14M QUANTITIES

EXISTING GRADE @ CENTER OF WELL PAD = 4812.3'
 FINISHED GRADE ELEVATION = 4811.7'
 CUT SLOPES = 1.5:1
 FILL SLOPES = 1.5:1

TOTAL CUT FOR WELL PAD = 22,010 C.Y.
 TOTAL FILL FOR WELL PAD = 499 C.Y.
 TOPSOIL @ 6" DEPTH = 1,543 C.Y.
 EXCESS MATERIAL = 21,511 C.Y.
 TOTAL DISTURBANCE = 3.65 ACRES
 SHRINKAGE FACTOR = 1.10
 SWELL FACTOR = 1.00
 RESERVE PIT CAPACITY (2' OF FREEBOARD)
 +/- 28,730 BARRELS
 RESERVE PIT VOLUME
 +/- 7,720 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

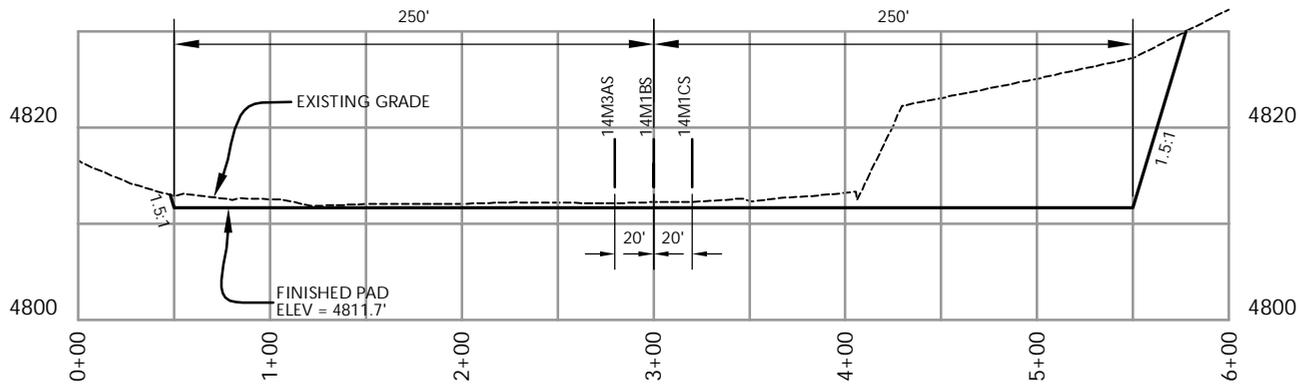


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 Phone 307-674-0609
 Fax 307-674-0182

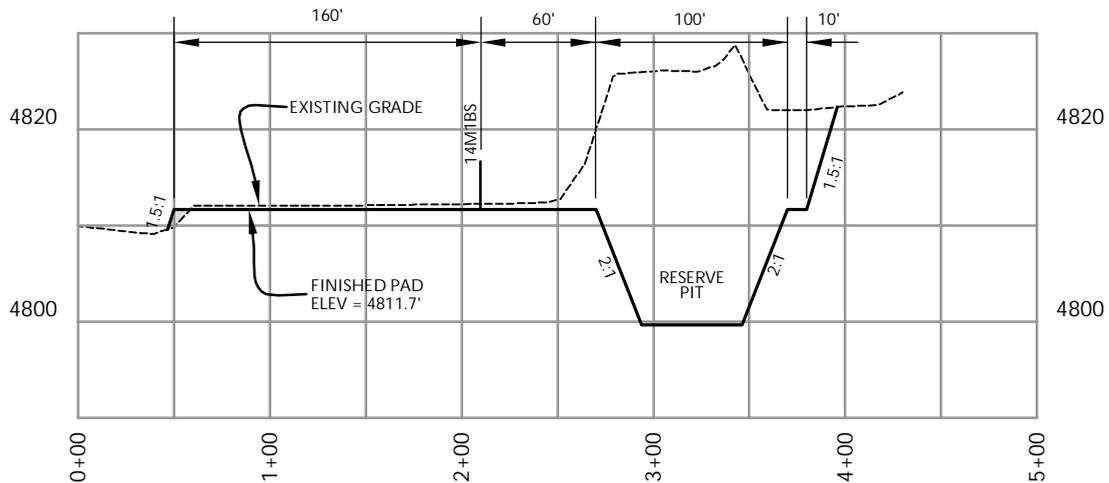
**WELL PAD - LOCATION LAYOUT
 NBU 920-14M1CS,
 NBU 920-14M1BS & NBU 920-14M3AS
 LOCATED IN SECTION 14, T.9S., R.20E.
 S.L.B.&M., Uintah County, Utah**

Scale: 1"=60'	Date: 3/17/09	SHEET NO:
REVISED:	RW 4/6/09	5 5 OF 12

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



CROSS SECTION A-A'



CROSS SECTION B-B'

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

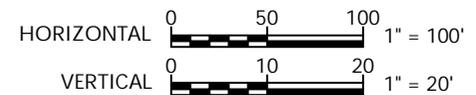
KERR-MCGEE OIL & GAS
ONSHORE L.P.
1099 18th Street - Denver, Colorado 80202



WELL PAD - CROSS SECTIONS
NBU 920-14M1CS,
NBU 920-14M1BS & NBU 920-14M3AS
LOCATED IN SECTION 14, T.9S., R.20E.
S.L.B.&M., UINTAH COUNTY, UTAH

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

Scale: 1"=100'	Date: 3/17/09	SHEET NO:
REVISED:	RW 4/6/09	6 6 OF 12

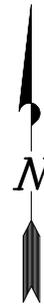


Timberline (435) 789-1365
Engineering & Land Surveying, Inc.
38 WEST 100 NORTH VERNAL, UTAH 84078

APIWellNo:43047505270000'

WELL PAD INTERFERENCE PLAT

DIRECTIONAL PAD - NBU 920-14M



BASIS OF BEARINGS IS THE WEST LINE OF THE SW 1/4 OF SECTION 14, T9S, R20E, S.L.B.&M. WHICH IS TAKEN FROM GLOBAL POSITIONING SATELLITE OBSERVATIONS TO BEAR N00°11'39"W.

RELATIVE COORDINATES		
From Surface Position to Bottom Hole		
WELL	NORTH	EAST
920-14M1CS	391'	48'
920-14M1BS	752'	36'
920-14M3AS	1'	102'

EXISTING WELL: NBU 920-14M ●

NBU 920-14M3AS

Az. to Exist. W.H.=338.35500° 51.0'

NBU 920-14M1BS

Az. to Exist. W.H.=341.59417° 70.8'

NBU 920-14M1CS

Az. to Exist. W.H.=343.33806° 90.6'

SURFACE POSITION FOOTAGES:

NBU 920-14M1CS
449' FSL & 640' FWL

NBU 920-14M1BS
468' FSL & 637' FWL

NBU 920-14M3AS
488' FSL & 633' FWL

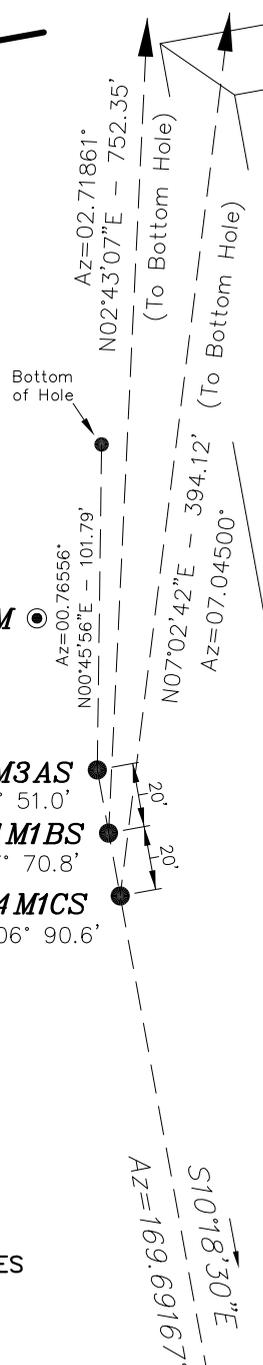
EXISTING WELL NBU 920-14M
536' FSL & 615' FWL

BOTTOM HOLE FOOTAGES

NBU 920-14M1CS
840' FSL & 690' FWL

NBU 920-14M1BS
1220' FSL & 675' FWL

NBU 920-14M3AS
590' FSL & 635' FWL

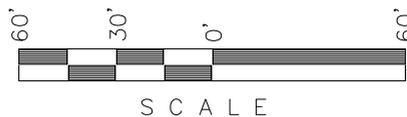


LATITUDE & LONGITUDE		
Surface Position - (NAD 83)		
WELL	N. LATITUDE	W. LONGITUDE
920-14M1CS	40°01'45.492\"/>	

LATITUDE & LONGITUDE		
Bottom Hole - (NAD 83)		
WELL	N. LATITUDE	W. LONGITUDE
920-14M1CS	40°01'49.357\"/>	

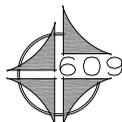
LATITUDE & LONGITUDE		
Surface Position - (NAD 27)		
WELL	N. LATITUDE	W. LONGITUDE
920-14M1CS	40°01'45.620\"/>	

LATITUDE & LONGITUDE		
Bottom Hole - (NAD 27)		
WELL	N. LATITUDE	W. LONGITUDE
920-14M1CS	40°01'49.485\"/>	



Kerr-McGee
Oil & Gas Onshore, LP

1099 18th Street - Denver, Colorado 80202



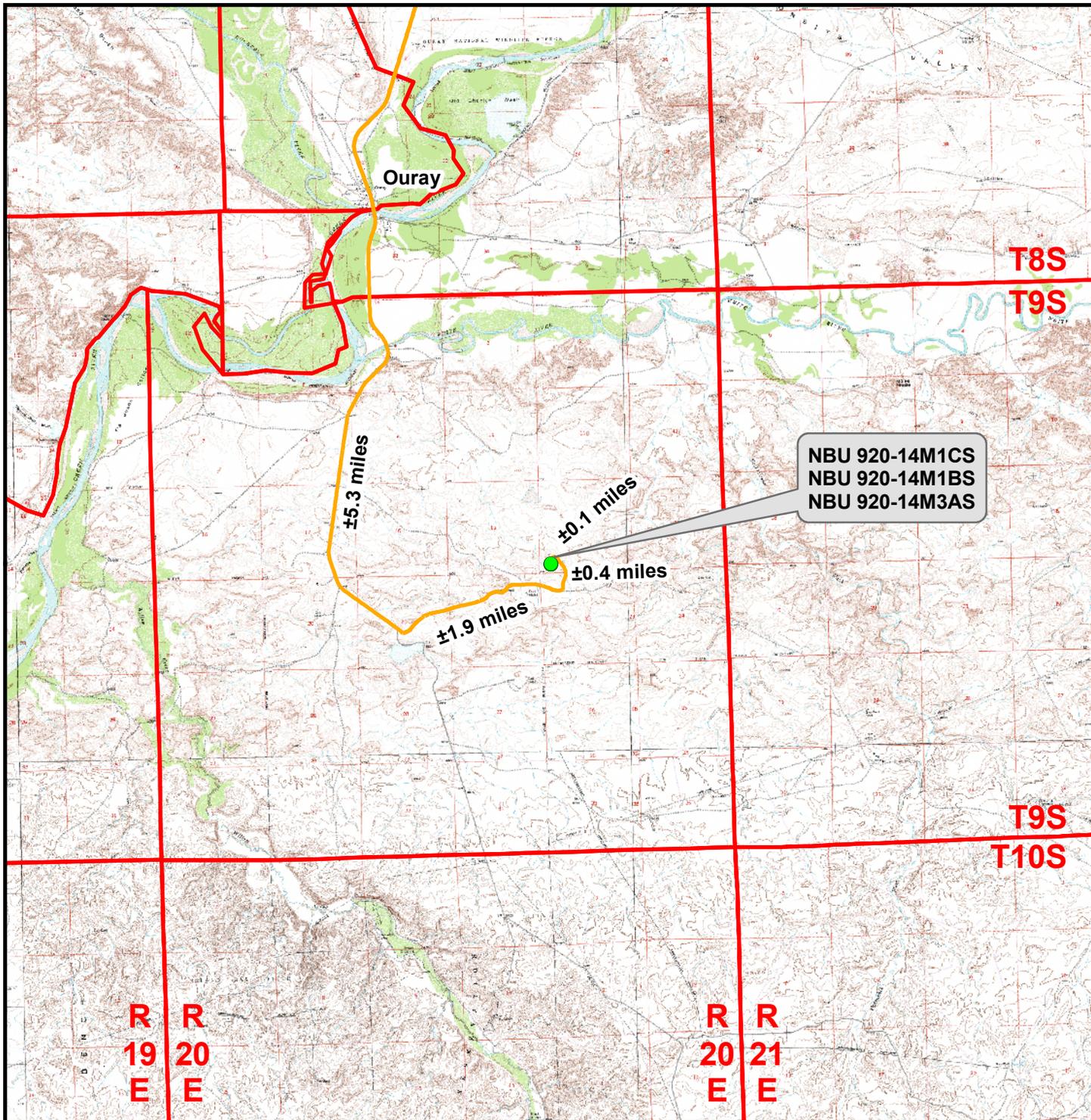
CONSULTING, LLC
371 Coffeen Avenue
Sheridan WY 82801
Phone 307-674-0609
Fax 307-674-0182

NBU 920-14M1CS,
NBU 920-14M1BS & NBU 920-14M3AS
LOCATED IN SECTION 14, T9S, R20E,
S.L.B.&M. UINTAH COUNTY, UTAH.

DATE SURVEYED: 01-21-09	SURVEYED BY: M.S.B.
DATE DRAWN: 02-11-09	DRAWN BY: M.W.W.
	REVISED: 03-18-09

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

SHEET
4
OF 12



NBU 920-14M1CS
 NBU 920-14M1BS
 NBU 920-14M3AS

Legend

- Proposed Well Location
- Access Route - Proposed

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

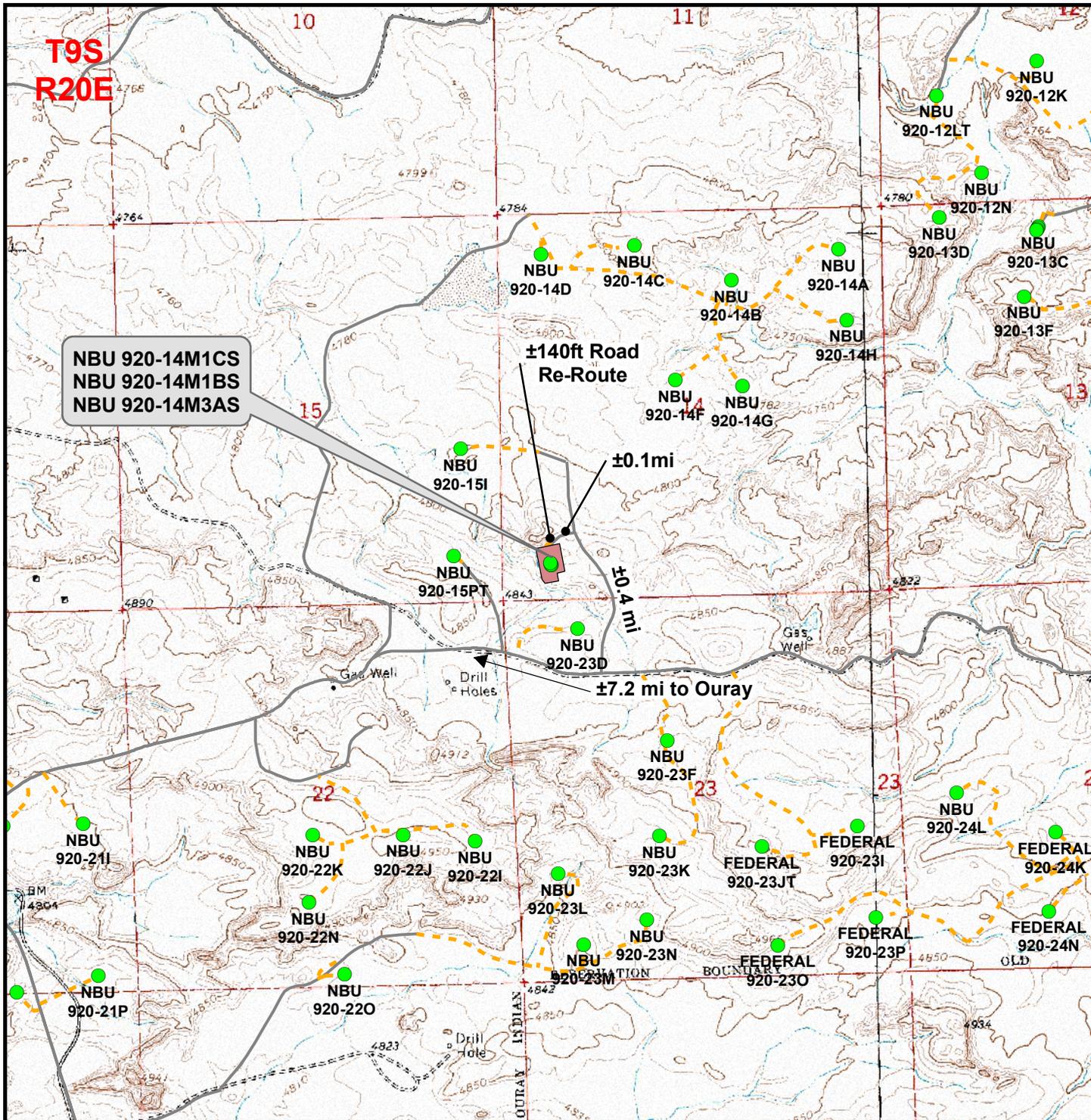
**NBU 920-14M1CS,
 NBU 920-14M1BS & NBU 920-14M3AS
 Topo A
 Located In Section 14, T9S, R20E
 S.L.B.&M., Uintah County, Utah**

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



Scale: 1:100,000	NAD83 USP Central
Drawn: JELO	Date: 6 April 2009
Revised:	Date:

Sheet No:
8 8 of 12



Legend

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

Total Proposed Road Length: ±140ft

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

**NBU 920-14M1CS,
 NBU 920-14M1BS & NBU 920-14M3AS
 Topo B
 Located In Section 14, T9S, R20E
 S.L.B.&M., Uintah County, Utah**

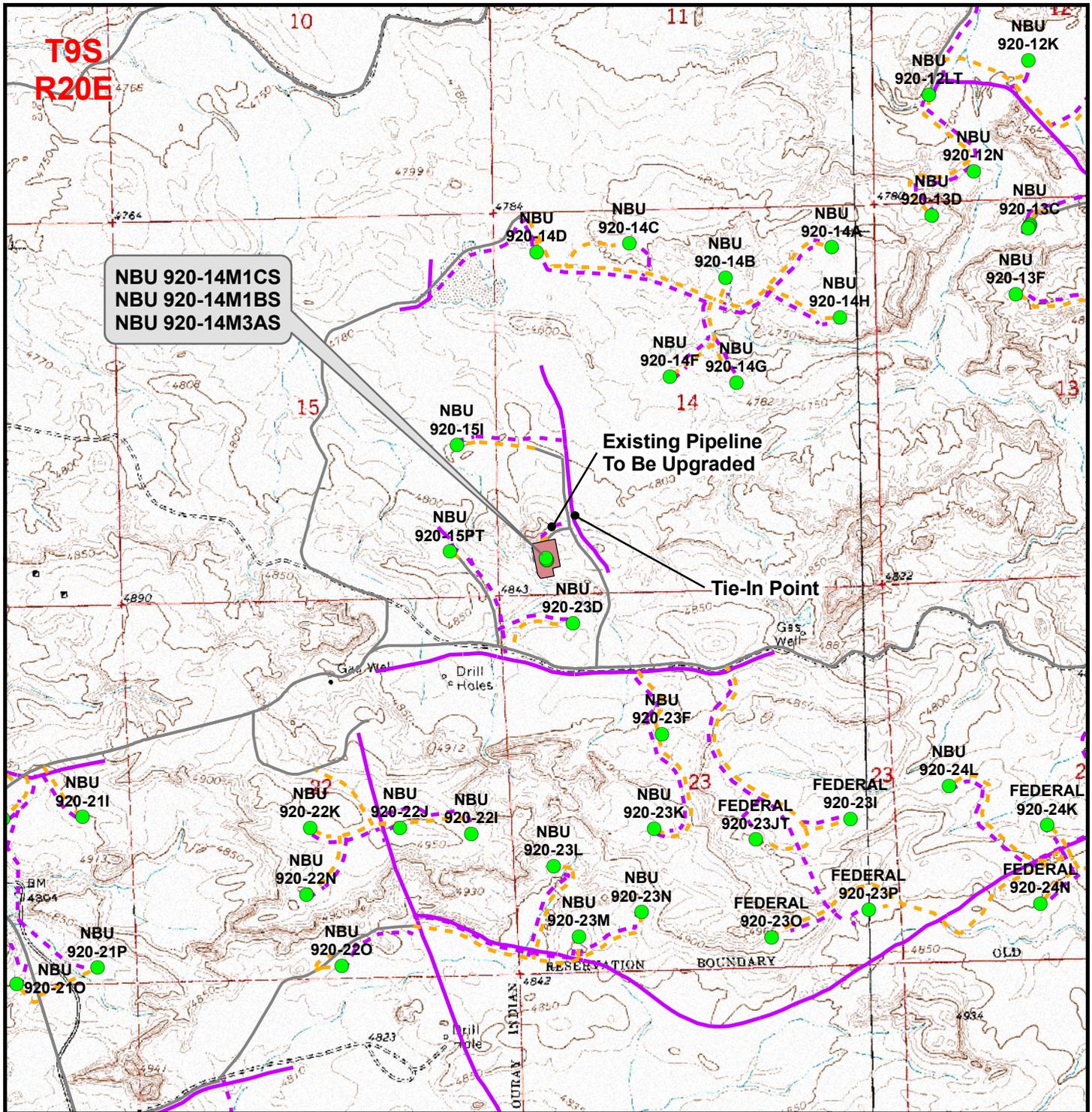


609 CONSULTING, LLC
 371 Coffeen Avenue
 Sheridan, WY 82801
 Phone (307) 674-0609
 Fax (307) 674-0182



Scale: 1" = 2000ft	NAD83 USP Central
Drawn: JELO	Date: 6 April 2009
Revised:	Date:

Sheet No: 9	9 of 12
-----------------------	---------



Legend

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

Proposed Pipeline Length From Tie-In Point To Edge Of Pad: ±510ft
 Proposed Pipeline Length Around Pad: ±660ft

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

**NBU 920-14M1CS,
 NBU 920-14M1BS & NBU 920-14M3AS
 Topo D
 Located In Section 14, T9S, R20E
 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: 6 April 2009	11
Revised:	Date:	

11 of 12

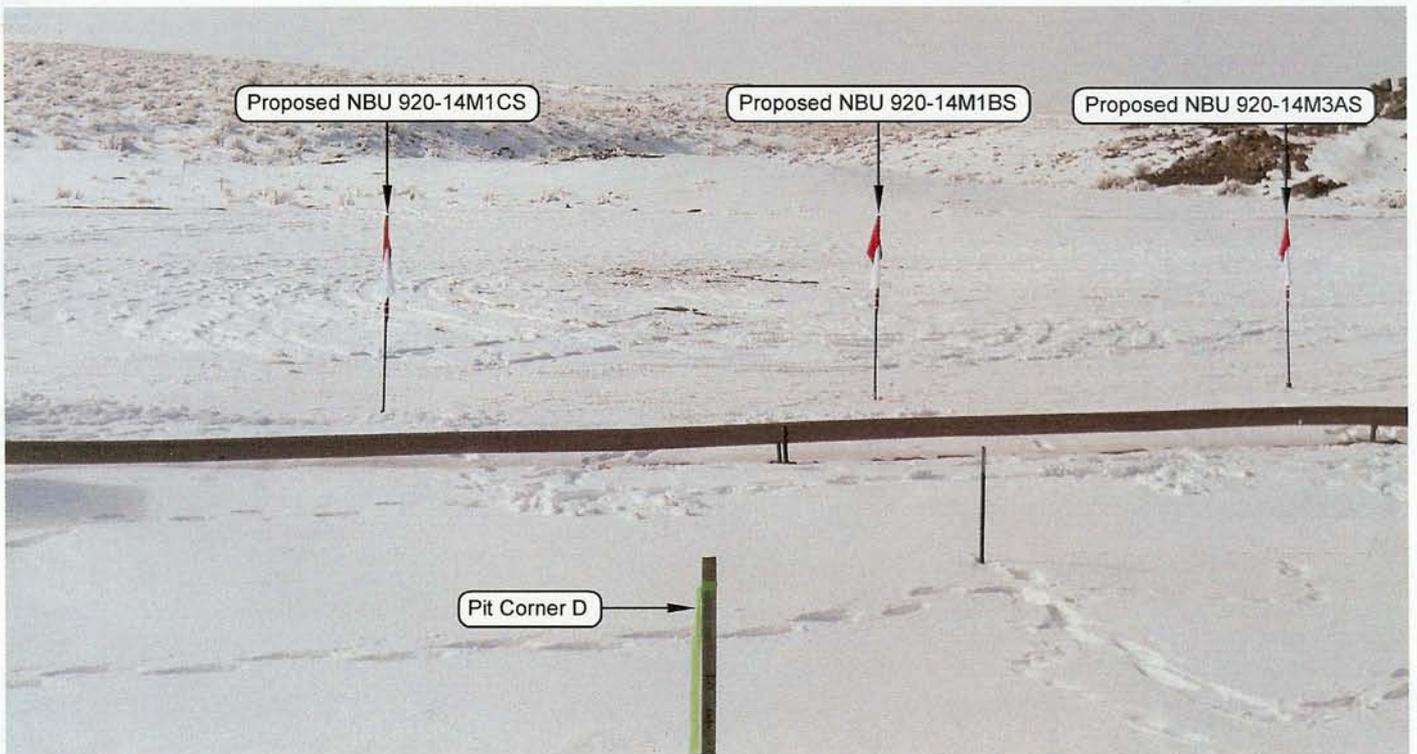


PHOTO VIEW: FROM PIT CORNER D TO LOCATION STAKES

CAMERA ANGLE: NORTHWESTERLY

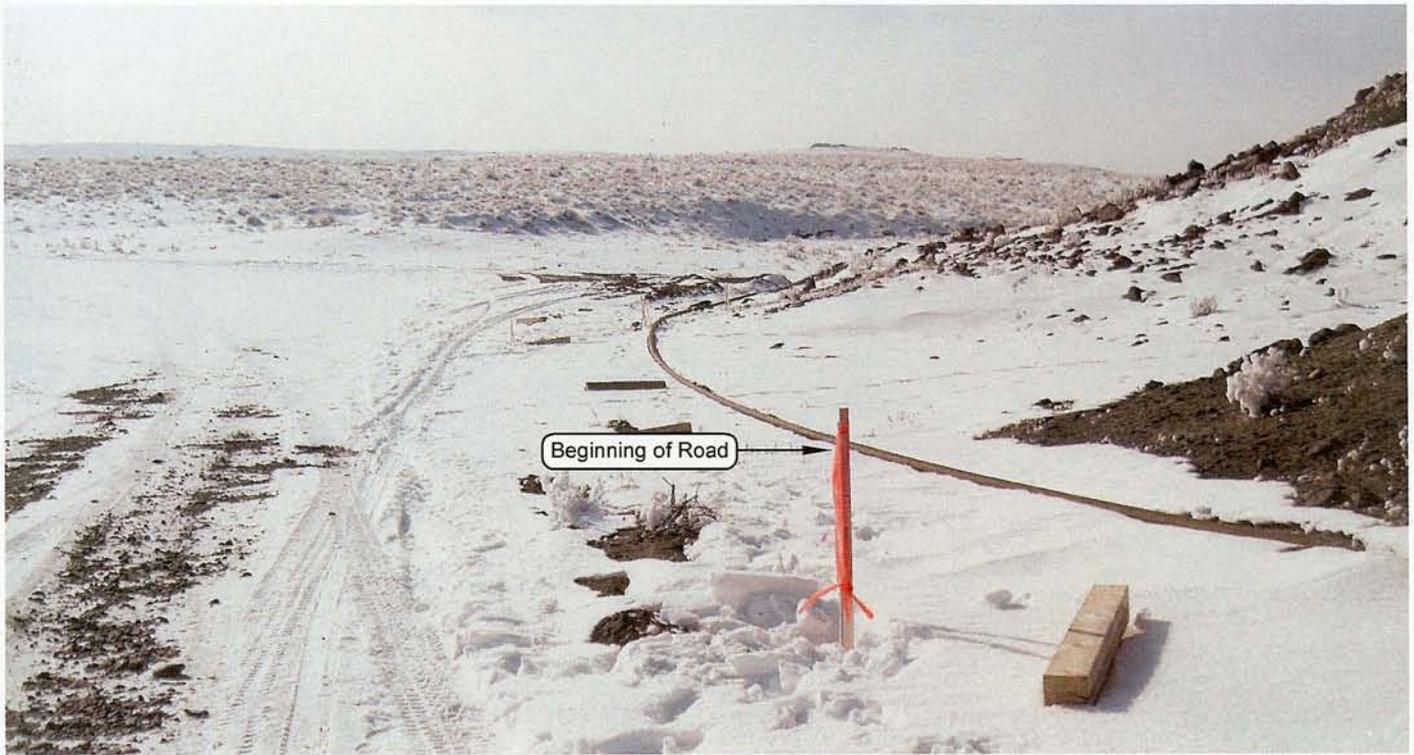


PHOTO VIEW: FROM BEGINNING OF PROPOSED ROAD

CAMERA ANGLE: SOUTHWESTERLY

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

NBU 920-14M1CS,
 NBU 920-14M1BS & NBU 920-14M3AS
 LOCATED IN SECTION 14, T9S, R20E,
 S.L.B.&M. UINTAH COUNTY, UTAH.



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

LOCATION PHOTOS		DATE TAKEN: 01-21-09
		DATE DRAWN: 02-11-09
TAKEN BY: M.S.B.	DRAWN BY: M.W.W.	REVISED: 3-19-09
Timberline Engineering & Land Surveying, Inc.		(435) 789-1365
209 NORTH 300 WEST		VERNAL, UTAH 84078
		SHEET 7 OF 12

Kerr-McGee Oil & Gas Onshore, LP
NBU 920-14M1CS, NBU 920-14M1BS, NBU 920-14M3AS
Section 14, T9S, R20E, 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 5.3 MILES TO THE INTERSECTION OF A SERVICE ROAD TO THE NORTHEAST. EXIT LEFT AND PROCEED IN A NORTHEASTERLY, THEN EASTERLY DIRECTION ALONG THE SERVICE ROAD APPROXIMATELY 1.9 MILES TO A SECOND SERVICE ROAD TO THE NORTH. EXIT LEFT AND PROCEED IN A NORTHERLY DIRECTION ALONG THE SECOND SERVICE ROAD APPROXIMATELY 0.4 MILES TO AN EXISTING WELL PAD ACCESS ROAD. EXIT LEFT AND PROCEED IN A WEST BY SOUTHWEST DIRECTION ALONG THE ACCESS ROAD APPROXIMATELY 0.1 MILES TO THE NBU 920-14M WELL PAD.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 38.4 MILES IN A SOUTHERLY DIRECTION.

NBU 920-14M1BS

Surface: 468' FSL, 637' FWL (SW/4SW/4)
BHL: 1,220' FSL 675' FWL (SW/4SW/4)

NBU 920-14M1CS

Surface: 449' FSL, 640' FWL (SW/4SW/4)
BHL: 840' FSL 690' FWL (SW/4SW/4)

NBU 920-14M3AS

Surface: 488' FSL, 633' FWL (SW/4SW/4)
BHL: 590' FSL 635' FWL (SW/4SW/4)

Pad: NBU 920-14M
Sec. 14 T9S R20E

Uintah, Utah
Mineral Lease: UTU 0577A

Surface Owner: Ute Indian Tribe

ONSHORE ORDER NO. 1

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

This Application for Permit to Drill (APD) is filed under the Notice of Staking (NOS) process as stated in Onshore Order No. 1 (OSO #1) and supporting Bureau of Land Management (BLM) and Bureau of Indian Affairs (BIA) documents. NOSs were submitted showing the surface locations in SW/4 SW/4 of Section 14 T9S R20E.

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

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

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

Directional Drilling:

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

1. Existing Roads:

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

2. Planned Access Roads:

See MDP for additional details on road construction.

Approximately ± 0.03 ($\pm 140'$) mile of new access road is proposed. Please refer to the attached Topo Map B. No pipelines will be crossed with the new construction.

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

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

Please refer to Topo Map C.

4. Location of Existing and Proposed Facilities:

See MDP for additional details on Existing and Proposed Facilities.

The following guidelines will apply if the well is productive.

Approximately $\pm 1,170'$ of new pipeline is proposed. Refer to Topo D for the existing pipeline.

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

5. Location and Type of Water Supply:

See MDP for additional details on Location and Type of Water Supply.

Water for drilling purposes will be obtained from Dalbo Inc.'s underground well located in Ouray, Utah, Sec. 32 T4S R3E, Water User Claim number 43-8496, Application number 53617. Water will be hauled to location over the roads marked on Maps A and B.

No water well is to be drilled on this lease.

6. Source of Construction Materials:

See MDP for additional details on Source of Construction Materials.

7. Methods of Handling Waste Materials:

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

Any produced water from the proposed well will be contained in a water tank and will then be hauled by truck to one of the pre-approved disposal sites:

RNI in Sec. 5 T9S R22E
NBU #159 in Sec. 35 T9S R21E
Ace Oilfield in Sec. 2 T6S R20E
MC&MC in Sec. 12 T6S R19E
Pipeline Facility in Sec. 36 T9S R20E
Goat Pasture Evaporation Pond in SW/4 Sec. 16 T10S R22E
Bonanza Evaporation Pond in Sec. 2 T10S R23E

8. Ancillary Facilities:

See MDP for additional details on Ancillary Facilities.

None are anticipated.

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

See MDP for additional details on Well Site Layout.

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

- Net wire (39-inch) will be used with at least one strand of barbed wire on top of the net wire. Barbed wire is not necessary if pipe or some type of reinforcement rod is attached to the top of the entire fence.
- The net wire shall be no more than two inches above the ground. The barbed wire shall be three inches over the net wire. Total height of the fence shall be at least 42 inches.
- Corner posts shall be cemented and/or braced in such a manner to keep the fence tight at all times.
- Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any 2 fence posts shall be no greater than 16 feet.
- All wire shall be stretched, by using a stretching device, before it is attached to corner posts.

10. Plans for Reclamation of the Surface:

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

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

11. Surface/Mineral Ownership:

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

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

The mineral ownership is listed below:

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

12. Other Information:

See MDP for additional details on Other Information.

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

Kathy Schneebeck Dulnoan
 Staff Regulatory Analyst
 Kerr-McGee Oil & Gas Onshore LP
 PO Box 173779
 Denver, CO 80217-3779
 (720) 929-6007

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

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

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

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

Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by Bureau of Land Management Nationwide Bond WYB000291.

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



 Kathy Schneebeck Dulnoan

June 29, 2009

 Date



Kerr-McGee Oil & Gas Onshore LP

1099 18th Street, Suite 1800
Denver, CO 80202-1918
P.O. Box 173779
Denver, CO 80217-3779
720-929-6000

June 9, 2009

Ms. Diana Mason
Division of Oil, Gas and Mining
P.O. Box 145801
Salt Lake City, UT 84114-6100

Re: Directional Drilling R649-3-11
NBU 920-14M3AS
T9S-R20E
Section 14: SWSW (Surf & BH)
Surface: 488' FSL, 633' FWL
Bottom Hole: 590' FSL, 635' FWL
Uintah County, Utah

Dear Ms. Mason:

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

- Kerr-McGee's NBU 920-14M3AS is located within the Natural Buttes Unit area.
- Kerr-McGee is permitting this well as a directional well in order to minimize surface disturbance. Locating the well at the surface location and directionally drilling from this location, Kerr-McGee will be able to utilize the existing road and pipelines in the area.
- Furthermore, Kerr-McGee certifies that it is the sole working interest owner within 460 feet of the entire directional well bore.

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

Sincerely,
KERR-MCGEE OIL & GAS ONSHORE LP


Lynn Padgett
Staff Landman

enclosures

CLASS I REVIEW OF KERR-MCGEE OIL & GAS
ONSHORE LP'S 14 PROPOSED WELL LOCATIONS
AND ACCESS/PIPELINE REROUTE IN
T9S, R20E, SECTIONS 12, 13, 14, 20, 21, AND 24
UINTAH COUNTY, UTAH

By:

Jacki A. Montgomery

Prepared For:

Ute Indian Tribe
Uintah and Ouray Agency

Prepared Under Contract With:

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

Prepared By:

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

MOAC Report No. 09-025

April 2, 2009

United States Department of Interior (FLPMA)
Permit No. 08-UT-60122

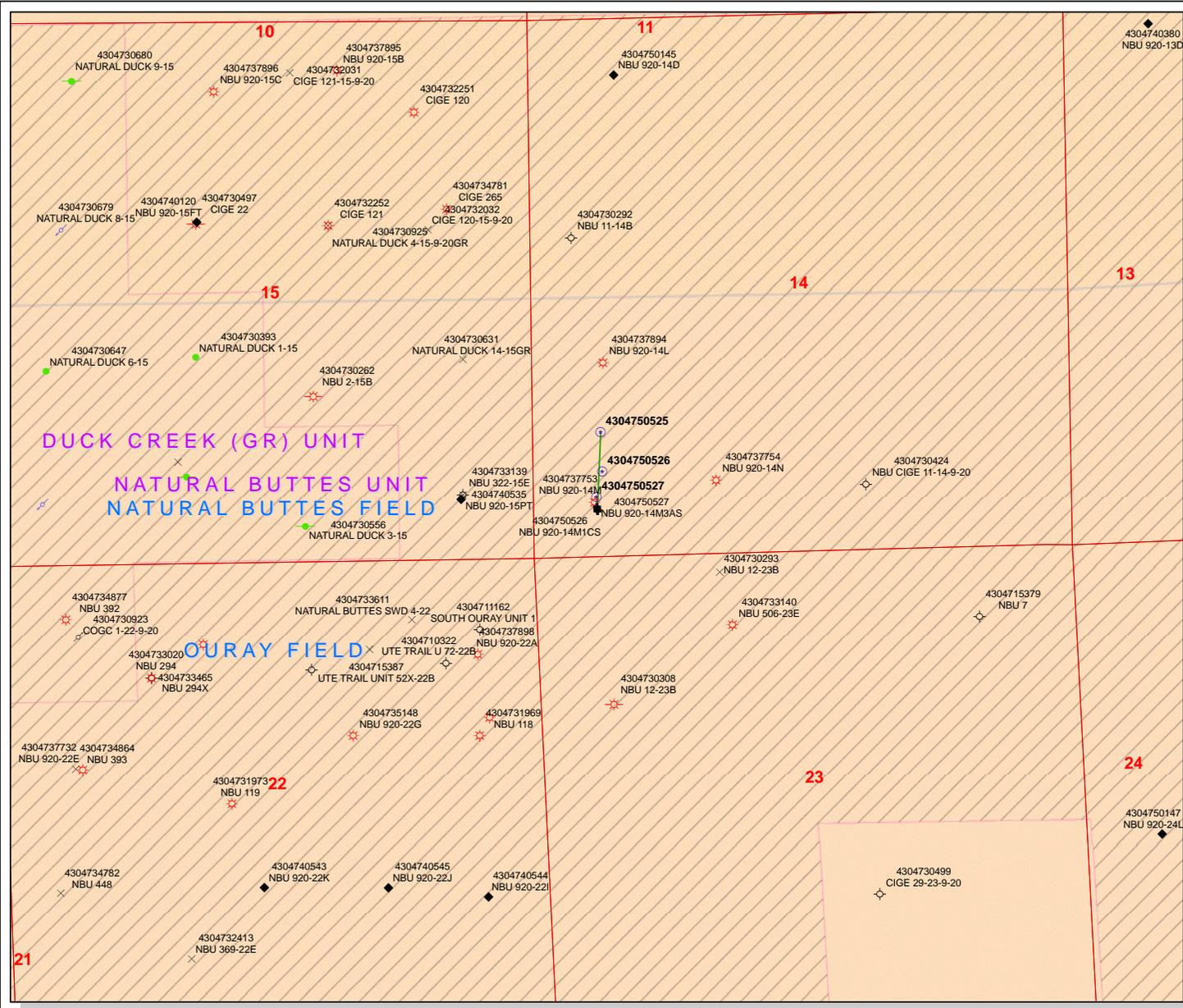
Public Lands Policy Coordination Office
Archaeological Survey Permit No. 117

Paleontological Assessment for Anadarko Petroleum Corp.

NBU 920-14M3AS, M1CS, M1BS
Ouray Quadrangle
Uintah County, Utah

Prepared for
Anadarko Petroleum Corp.
and
Ute Tribe
Uintah and Ouray Reservation

Prepared by
SWCA Environmental Consultants
SWCA #UT09-14314-61



API Number: 4304750527
Well Name: NBU 920-14M3AS
Township 09.0 S Range 20.0 E Section 14
Meridian: SLBM
 Operator: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Map Prepared:
 Map Produced by Diana Mason

Units	Wells Query Events
STATUS	<all other values>
ACTIVE	APD
EXPLORATORY	DRL
GAS STORAGE	GI
NF PP OIL	GS
PI OIL	LA
PP GAS	NEW
PP GEOTHERM	OPS
PP OIL	PA
SECONDARY	PGW
TERMINATED	POW
	RET
	SGW
	SOW
	TA
	TW
	WI
	WS

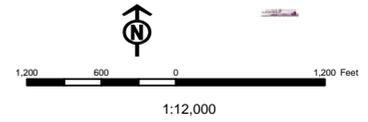
Fields

STATUS

ACTIVE

COMBINED

Sections



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

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

IN REPLY REFER TO:
 3160
 (UT-922)

July 2, 2009

Memorandum

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

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

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

BHL Sec 22 T09S R21E 0566 FNL 0789 FWL

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

/s/ Michael L. Coulthard

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

MCoulthard:mc:7-2-09

WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 6/30/2009

API NO. ASSIGNED: 43047505270000

WELL NAME: NBU 920-14M3AS

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

PHONE NUMBER: 720 929-6156

CONTACT: Danielle Piernot

PROPOSED LOCATION: SWSW 14 090S 200E

Permit Tech Review:

SURFACE: 0488 FSL 0633 FWL

Engineering Review:

BOTTOM: 0590 FSL 0635 FWL

Geology Review:

COUNTY: UINTAH

LATITUDE: 40.02938

LONGITUDE: -109.64070

UTM SURF EASTINGS: 615985.00

NORTHINGS: 4431693.00

FIELD NAME: NATURAL BUTTES

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU 0577A

PROPOSED PRODUCING FORMATION(S): WASATCH-MESA VERDE

SURFACE OWNER: 2 - Indian

COALBED METHANE: NO

RECEIVED AND/OR REVIEWED:

- PLAT
- Bond: FEDERAL - WYB000291
- Potash
- Oil Shale 190-5
- Oil Shale 190-3
- Oil Shale 190-13
- Water Permit: Permit #43-8496
- RDCC Review:
- Fee Surface Agreement
- Intent to Commingle

Commingle Approved

LOCATION AND SITING:

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

Comments: Presite Completed

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



JON M. HUNTSMAN, JR.
Governor

GARY R. HERBERT
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

Well Name: NBU 920-14M3AS
API Well Number: 43047505270000
Lease Number: UTU 0577A
Surface Owner: INDIAN
Approval Date: 7/16/2009

Issued to:

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

Authority:

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

Duration:

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

Commingle:

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

General:

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

Conditions of Approval:

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

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

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

Notification Requirements:

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

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

OR

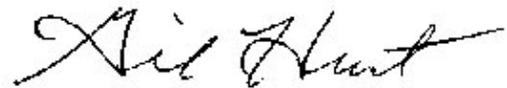
submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website at <http://oilgas.ogm.utah.gov>

Reporting Requirements:

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

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

Approved By:



Gil Hunt
Associate Director, Oil & Gas

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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JUN 30 2009

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

APPLICATION FOR PERMIT TO DRILL OR REENTER **BLM**

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. UTU0577A
1b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name
2. Name of Operator KERRMCGEE OIL&GAS ONSHORE LP Contact: DANIELLE E PIERNOT Email: Danielle.Piernot@anadarko.com		7. If Unit or CA Agreement, Name and No. 891008900A
3a. Address PO BOX 173779 DENVER, CO 80202-3779		8. Lease Name and Well No. NBU 920-14M3AS
3b. Phone No. (include area code) Ph: 720-929-6156 Fx: 720-929-7156		9. API Well No. 43 047 50527
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface SWSW 488FSL 633FWL 40.02941 N Lat, 109.64132 W Lon At proposed prod. zone SWSW 590FSL 635FWL 40.02969 N Lat, 109.64132 W Lon		10. Field and Pool, or Exploratory NATURAL BUTTES
14. Distance in miles and direction from nearest town or post office* APPROXIMATELY 12 MILES SOUTHEAST OF OURAY, UTAH		11. Sec., T., R., M., or Blk. and Survey or Area Sec 14 T9S R20E Mer SLB
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 590 FEET	16. No. of Acres in Lease 2091.20	12. County or Parish UINTAH
17. Spacing Unit dedicated to this well	13. State UT	
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. APPROXIMATELY 100 FEET	19. Proposed Depth 10652 MD 10650 TVD	20. BLM/BIA Bond No. on file WYB000291
21. Elevations (Show whether DF, KB, RT, GL, etc.) 4812 GL	22. Approximate date work will start 07/20/2009	23. Estimated duration 60-90 DAYS

24. Attachments

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

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

25. Signature (Electronic Submission)	Name (Printed/Typed) DANIELLE E PIERNOT Ph: 720-929-6156	Date 06/30/2009
--	---	--------------------

Title
REGULATORY ANALYST

Approved by (Signature) <i>Stephanie J Howard</i>	Name (Printed/Typed) Stephanie J Howard	Date 12/21/09
Title Assistant Field Manager	Office VERNAL FIELD OFFICE	

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

CONDITIONS OF APPROVAL ATTACHED

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

Additional Operator Remarks (see next page)

Electronic Submission #71510 verified by the BLM Well Information System
For KERRMCGEE OIL&GAS ONSHORE LP, sent to the Vernal
Committed to AFMSS for processing by GAIL JENKINS on 12/21/09

NOTICE OF APPROVAL

DEC 24 2009

AFMSS#

DIV. OF OIL, GAS & MINING

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



096XJ5110AE

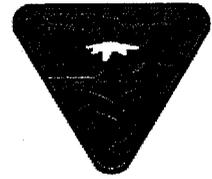


**UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
VERNAL FIELD OFFICE**

170 South 500 East

VERNAL, UT 84078

(435) 781-4400



CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company:	Kerr McGee Oil & Gas Onshore, LP	Location:	SWSW, Sec. 14, T9S, R20E (S) SWSW, Sec. 14, T9S, R20E (B)
Well No:	NBU 920-14M3AS	Lease No:	UTU-0577A
API No:	43-047-50527	Agreement:	Natural Buttes Unit

OFFICE NUMBER: (435) 781-4400

OFFICE FAX NUMBER: (435) 781-3420

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

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

NOTIFICATION REQUIREMENTS

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

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

Site-Specific Conditions of Approval:

1. Paint New facilities "shadow gray."
2. Construct diversion drainages around well pad.
3. Remove the existing 4" pipeline.
4. Clean up trash on the well pad.
5. Monitor location by a permitted archaeologist during the construction process.
6. In accordance with the guidelines specified in the Utah BLM Field Office Guidelines for Raptor Protection from Human and Land Use Disturbances, 2002 (See Appendix D), a raptor survey shall be conducted prior to construction of the proposed location, pipeline, or access road if construction will take place during raptor nesting season (January 01 through September 30) and conduct its operations according to specification in the guidelines.
7. If project construction operation are scheduled to occur after June 18, 2010, KMG will conduct additional biological surveys in accordance with the guidelines specified I the USFWS Rare Plant Conservation Measures for Uinta Basin hookless cactus (See Appendix D) and conduct its operation according to its specifications.

BIA Standard Conditions of Approval:

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

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

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

SITE SPECIFIC DOWNHOLE COAs:

- A copy of Kerr McGee's Standard Operating Practices (SOP version: dated 7/17/08 and approved 7/28/08) shall be on location.

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

DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- **Cement baskets shall not be run on surface casing.**
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.

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- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.
- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- **Please submit an electronic copy of all other logs run on this well in LAS format to UT_VN_Wellogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.**
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

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OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- In accordance with 43 CFR 3162.4-3, this well shall be reported on the "Monthly Report of Operations" (Oil and Gas Operations Report ((OGOR)) starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report shall be filed in duplicate, directly with the Minerals Management Service, P.O. Box 17110, Denver, Colorado 80217-0110, or call 1-800-525-7922 (303) 231-3650 for reporting information.
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
 - Operator name, address, and telephone number.
 - Well name and number.
 - Well location (¼, Sec., Twn, Rng, and P.M.).
 - Date well was placed in a producing status (date of first production for which royalty will be paid).
 - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
 - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
 - Unit agreement and/or participating area name and number, if applicable.
 - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.

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Page 7 of 8
Well: NBU 920-14M3AS
12/18/2009

DIV. OF OIL, GAS & MINING

- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.
- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.

- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

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STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: UTU 0577A
---	--

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

1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: NBU 920-14M3AS
------------------------------------	---

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047505270000
---	---

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

4. LOCATION OF WELL FOOTAGES AT SURFACE: 0488 FSL 0633 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSW Section: 14 Township: 09.0S Range: 20.0E Meridian: S	COUNTY: UINTAH STATE: UTAH
---	---

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 3/8/2010 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input checked="" type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER:

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

Kerr-McGee Oil & Gas Onshore LP (Kerr-McGee) respectfully requests to change the drilling program for this well. The production casing will still be cemented it's entire length to the surface. Please see the attached drilling program for additional details. All other information remains the same. Please contact the undersigned with any questions and/or comments. Thank you.

Accepted by the Utah Division of Oil, Gas and Mining

Date: March 08, 2010

By: *Danielle Piernot*

NAME (PLEASE PRINT) Danielle Piernot	PHONE NUMBER 720 929-6156	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 3/4/2010	



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 2,650	36.00	J-55	LTC	0.78	1.63	6.04
						7,780	6,350	278,000
PRODUCTION	4-1/2"	0 to 9,652	11.60	I-80	BTC	1.72	0.92	2.58
						10,690	8,650	279,000
	4-1/2"	9,652 to 10,652	11.60	HCP-110	LTC	48.59	1.26	29.67

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

2) MASP (Prod Casing) = Pore Pressure at TD - (0.22 psi/ft-partial evac gradient x TD)
 (Burst Assumptions: TD = 12.4 ppg) 0.22 psi/ft = gradient for partially evac wellbore
 (Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)
MASP 4,403 psi

3) Maximum Anticipated Bottom Hole Pressure (MABHP) = Pore Pressure at TD
 (Burst Assumptions: TD = 12.4 ppg) 0.63 psi/ft = bottomhole gradient
 (Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)
MABHP 6,747 psi

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE	TAIL	500'	Premium cmt + 2% CaCl + 0.25 pps flocele	215	60%	15.60	1.18
Option 1							
	TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt + 2% CaCl + 0.25 pps flocele Premium cmt + 2% CaCl	380	0%	15.60	1.18
SURFACE			NOTE: If well will circulate water to surface, option 2 will be utilized				
Option 2	LEAD	2,150'	65/35 Poz + 6% Gel + 10 pps gilsonite + 0.25 pps Flocele + 3% salt BWOW	510	35%	12.60	1.81
	TAIL	500'	Premium cmt + 2% CaCl + 0.25 pps flocele	180	35%	15.60	1.18
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
PRODUCTION	LEAD	4,652'	Premium Lite II + 3% KCl + 0.25 pps celloflake + 5 pps gilsonite + 10% gel + 0.5% extender	440	40%	11.00	3.38
	TAIL	6,000'	50/50 Poz/G + 10% salt + 2% gel + 0.1% R-3	1,470	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

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: UTU 0577A
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute Tr 7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: NBU 920-14M3AS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047505270000
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: 0488 FSL 0633 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSW Section: 14 Township: 09.0S Range: 20.0E 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: 4/25/2010	<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 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.

Finished drilling from 2740' to 10,738' on 4-23-2010. Ran 4 1/2" 11.6# I-80 production csg. Pump 40 bbs spacer, lead cement w/ 724 sx Class G Prem Lite @ 12.5 ppg, 1.98 yd. Tailed cement w/ 1246 sx Class G 50/50 poz mix 14.3 ppg, 1.31 yd. Displaced w/ 166 bbs water, bumped plug, floats held. Returned 10 bbs cement to surface. RD cementers and cleaned pipe. Released Ensign 145 Rig on 4-25-2010 @ 11:00 hrs.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
May 05, 2010

NAME (PLEASE PRINT) Andy Lytle	PHONE NUMBER 720 929-6100	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 4/27/2010	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: UTU 0577A
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute Tr 7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: NBU 920-14M3AS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047505270000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6007 Ext 9. FIELD and POOL or WILDCAT: NATURAL BUTTES
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0488 FSL 0633 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSW Section: 14 Township: 09.0S Range: 20.0E Meridian: S	COUNTY: UINTAH STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 3/8/2010 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input checked="" type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER:

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

Kerr-McGee Oil & Gas Onshore LP (Kerr-McGee) respectfully requests to change the drilling program for this well. The production casing will still be cemented it's entire length to the surface. Please see the attached drilling program for additional details. All other information remains the same. Please contact the undersigned with any questions and/or comments. Thank you.

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

Date: March 08, 2010
By: *Danielle Piernot*

NAME (PLEASE PRINT) Danielle Piernot	PHONE NUMBER 720 929-6156	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 3/4/2010	



**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 2,650	36.00	J-55	LTC	0.78	1.63	6.04
						7,780	6,350	278,000
PRODUCTION	4-1/2"	0 to 9,652	11.60	I-80	BTC	1.72	0.92	2.58
						10,690	8,650	279,000
	4-1/2"	9,652 to 10,652	11.60	HCP-110	LTC	48.59	1.26	29.67

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

2) MASP (Prod Casing) = Pore Pressure at TD - (0.22 psi/ft-partial evac gradient x TD)
 (Burst Assumptions: TD = 12.4 ppg) 0.22 psi/ft = gradient for partially evac wellbore
 (Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)
MASP 4,403 psi

3) Maximum Anticipated Bottom Hole Pressure (MABHP) = Pore Pressure at TD
 (Burst Assumptions: TD = 12.4 ppg) 0.63 psi/ft = bottomhole gradient
 (Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)
MABHP 6,747 psi

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE	TAIL	500'	Premium cmt + 2% CaCl + 0.25 pps flocele	215	60%	15.60	1.18
Option 1							
	TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt + 2% CaCl + 0.25 pps flocele Premium cmt + 2% CaCl	380	0%	15.60	1.18
SURFACE			NOTE: If well will circulate water to surface, option 2 will be utilized				
Option 2	LEAD	2,150'	65/35 Poz + 6% Gel + 10 pps gilsonite + 0.25 pps Flocele + 3% salt BWOW	510	35%	12.60	1.81
	TAIL	500'	Premium cmt + 2% CaCl + 0.25 pps flocele	180	35%	15.60	1.18
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
PRODUCTION	LEAD	4,652'	Premium Lite II + 3% KCl + 0.25 pps celloflake + 5 pps gilsonite + 10% gel + 0.5% extender	440	40%	11.00	3.38
	TAIL	6,000'	50/50 Poz/G + 10% salt + 2% gel + 0.1% R-3	1,470	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



STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: UTU 0577A
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SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute Tr 7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
--	--

1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: NBU 920-14M3AS
------------------------------------	---

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047505270000
---	---

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

4. LOCATION OF WELL FOOTAGES AT SURFACE: 0488 FSL 0633 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSW Section: 14 Township: 09.0S Range: 20.0E Meridian: S	COUNTY: UINTAH STATE: UTAH
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11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input checked="" type="checkbox"/> SPUD REPORT Date of Spud: 3/24/2010	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER:

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" SCHEDULE 10 PIPE. CMT W/28 SX READY MIX. SPUD WELL LOCATION ON 3/24/2010 AT 09:00 HRS.

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

NAME (PLEASE PRINT) Andy Lytle	PHONE NUMBER 720 929-6100	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 3/25/2010	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: UTU 0577A
---	--

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

1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: NBU 920-14M3AS
------------------------------------	---

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047505270000
---	---

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6007 Ext	9. FIELD and POOL or WILDCAT: NATURAL BUTTES
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4. LOCATION OF WELL FOOTAGES AT SURFACE: 0488 FSL 0633 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSW Section: 14 Township: 09.0S Range: 20.0E Meridian: S	COUNTY: UINTAH STATE: UTAH
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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: 4/4/2010	<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 type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER:

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

MIRU PROPETRO AIR RIG ON 3/29/2010. DRILLED 12-1/4" SURFACE HOLE TO 2740'. RAN 9-5/8" 36# J-55 SURFACE CSG. PUMP 150 BBLS H2O, PUMP 20 BBLS OF GEL WATER. LEAD CMT W/260 SX CLASS G HI FILL CMT @ 11 PPG, 3.82 YD. TAILED CMT W/200 SX CLASS G PREM LITE CMT @ 15.8 PPG, 1.15 YD. DROP PLUG ON FLY, DISPLACE W/168.1 BBLS OF H2O, 540 PSI OF LIFT. BUMP PLUG W/900 PSI, FLOAT HELD. CIRC THROUGHOUT JOB. 20 BBLS LEAD TO SURFACE. TOP OUT THROUGH 1" W/125 SX CLASS G PREM LITE CMT @ 15.8 PPG, 1.15 YD. CEMENT FELL. WORT.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
 April 05, 2010

NAME (PLEASE PRINT) Andy Lytle	PHONE NUMBER 720 929-6100	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 4/5/2010	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
5. LEASE DESIGNATION AND SERIAL NUMBER: UTU 0577A	

<p style="text-align: center;">SUNDRY NOTICES AND REPORTS ON WELLS</p> <p>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.</p>	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute Tr
7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES	

1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: NBU 920-14M3AS
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2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047505270000
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3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6007 Ext	9. FIELD and POOL or WILDCAT: NATURAL BUTTES
---	--	--

4. LOCATION OF WELL FOOTAGES AT SURFACE: 0488 FSL 0633 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSW Section: 14 Township: 09.0S Range: 20.0E Meridian: S	COUNTY: UINTAH
STATE: UTAH	

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER:
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:			
<input type="checkbox"/> SPUD REPORT Date of Spud:			
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 4/25/2010			

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

Finished drilling from 2740' to 10,738' on 4-23-2010. Ran 4 1/2" 11.6# I-80 production csg. Pump 40 bbs spacer, lead cement w/ 724 sx Class G Prem Lite @ 12.5 ppg, 1.98 yd. Tailed cement w/ 1246 sx Class G 50/50 poz mix 14.3 ppg, 1.31 yd. Displaced w/ 166 bbs water, bumped plug, floats held. Returned 10 bbs cement to surface. RD cementers and cleaned pipe. Released Ensign 145 Rig on 4-25-2010 @ 11:00 hrs.

Accepted by the
 Utah Division of
 Oil, Gas and Mining
FOR RECORD ONLY
 May 05, 2010

NAME (PLEASE PRINT) Andy Lytle	PHONE NUMBER 720 929-6100	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 4/27/2010	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
5. LEASE DESIGNATION AND SERIAL NUMBER: UTU 0577A	

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

1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: NBU 920-14M3AS
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2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047505270000
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3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6007 Ext	9. FIELD and POOL or WILDCAT: NATURAL BUTTES
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4. LOCATION OF WELL FOOTAGES AT SURFACE: 0488 FSL 0633 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSW Section: 14 Township: 09.0S Range: 20.0E Meridian: S	COUNTY: UINTAH
STATE: UTAH	

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input checked="" type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER:
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:			
<input type="checkbox"/> SPUD REPORT Date of Spud:			
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 7/3/2010			

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

THE SUBJECT WELL WAS PLACED ON PRODUCTION ON JULY 3, 2010 AT 10:40 A.M. THE CHRONOLOGICAL WELL HISTORY WILL BE SUBMITTED WITH THE WELL COMPLETION REPORT.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
 July 07, 2010

NAME (PLEASE PRINT) Andy Lytle	PHONE NUMBER 720 929-6100	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 7/6/2010	

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.
UTU0577A

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

2. Name of Operator **KERR-MCGEE OIL&GAS ONSHORE** Contact: **ANDY LYTLE**
 Email: **andrew.lytle@anadarko.com**

3. Address **P.O. BOX 173779** 3a. Phone No. (include area code)
DENVER, CO 80217 Ph: **720-929-6100**

4. Location of Well (Report location clearly and in accordance with Federal requirements)*
 At surface **SWSW 488FSL 633FWL 40.02945 N Lat, 109.64063 W Lon**
 At top prod interval reported below **SWSW 602FSL 638FWL**
 At total depth **SWSW 590FSL 650FWL**

10. Field and Pool, or Exploratory
NATURAL BUTTES

11. Sec., T., R., M., or Block and Survey or Area
Sec 14 T9S R20E Mer SLB

12. County or Parish **UINTAH** 13. State **UT**

14. Date Spudded **03/24/2010** 15. Date T.D. Reached **04/23/2010** 16. Date Completed
 D & A Ready to Prod. **07/03/2010**

17. Elevations (DF, KB, RT, GL)*
4812 GL

18. Total Depth: MD **10738** 19. Plug Back T.D.: MD **10681** 20. Depth Bridge Plug Set: MD
 TVD **10732** TVD **10676** TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
CBL/GR-BHV-SD/DSN/ACTR

22. Was well cored? No Yes (Submit analysis)
 Was DST run? No Yes (Submit analysis)
 Directional Survey? No Yes (Submit analysis)

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

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
20.000	14.000 STEEL	36.7		40		28			
12.250	9.625 IJ55	36.0		2711		585			
7.875	4.500 180	11.6		10724		1970			

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.375	10210							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) MESAVERDE	8660	10560	8660 TO 10560	0.360	278	OPEN
B) WSMVD						
C)						
D)						

26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) MESAVERDE	8660	10560	8660 TO 10560	0.360	278	OPEN
B) WSMVD						
C)						
D)						

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

Depth Interval	Amount and Type of Material
8660 TO 10560	PUMP 9,044 BBLs SLICK H2O & 324,300 LBS 30/50 SAND.

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
07/03/2010	07/08/2010	24	→	0.0	1961.0	287.0			FLows FROM WELL
Choke Size	Tbg. Press. Flwg. 1048 SI	Csg. Press. 1430.0	24 Hr. Rate →	Oil BBL 0	Gas MCF 1961	Water BBL 287	Gas:Oil Ratio	Well Status PGW	

28a. Production - Interval B

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

28b. Production - Interval C

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

28c. Production - Interval D

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

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

30. Summary of Porous Zones (Include Aquifers):

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

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
GREEN RIVER BIRD'S NEST MAHOGANY WASATCH MESAVERDE	1751 1875 2494 5165 8426	8395 10738	TD		

32. Additional remarks (include plugging procedure):

ATTACHED IS THE CHRONOLOGICAL DRILLING AND COMPLETION HISTORY AND THE FINAL DIRECTIONAL SURVEY.

33. Circle enclosed attachments:

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

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

**Electronic Submission #90779 Verified by the BLM Well Information System.
For KERR-MCGEE OIL&GAS ONSHORE, LP, sent to the Vernal**

Name (please print) ANDY LYTLE Title REGULATORY ANALYST

Signature  (Electronic Submission) Date 08/03/2010

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

US ROCKIES REGION
Operation Summary Report

Well: NBU 920-14M3AS [RED]	Spud Conductor: 3/24/2010	Spud Date: 3/30/2010
Project: UTAH-UINTAH	Site: NBU 920-14M PAD	Rig Name No: PROPETRO/, ENSIGN 145/145
Event: DRILLING	Start Date: 3/22/2010	End Date: 4/25/2010
Active Datum: RKB @4,825.01ft (above Mean Sea Level) UWI: SW/SW/0/9/S/20/E/14/0/0/6/PM/S/488.00/W/0/633.00/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
3/29/2010	14:30 - 21:30	7.00	MIRU	01	B	P		DRESS CONDUCTOR, INSTALL AIR BOWL AND BOWIE LINE, RIG UP RIG.DRESS CONDUCTOR, INSTALL AIR BOWL, RIG UP RIG, BUILD DITCH, RIG UP PUMP. PRIME PUMPS, P/U MOTOR .16 RPG 1.12 DEG. SN 8019, M/U 12 1/4" SN 7014966 1ST RUN.
	21:30 - 23:30	2.00	DRLSUR	02	B	P		DRILL 44'- 150' SPUD 3/29/2010 21:30
	23:30 - 0:00	0.50	DRLSUR	06	A	P		LD 6" DC'S AND P/U DIRECTIONAL TOOLS
3/30/2010	0:00 - 0:30	0.50	DRLSUR	06	A	P		ORIENT MUD MTR, FINISHED TRIPPING BACK IN HOLE WITH DIR TOOLS
	0:30 - 0:00	23.50	DRLSUR	02	C	P		DRILL, SLIDE FROM 150' - 1990' BUILDING ANGLE TO 4.04 DEG. 322.52 AZ. WITH 2 DEG BUILD RATES 550 GAL PER MIN 1200 PSI ON BOTTOM 1000 PSI OFF BOTTOM 45 ROT 94 BHR 5-20K WOB NO LOSSES. AVERAGE ROP 78' PER HR
3/31/2010	0:00 - 13:00	13.00	DRLSUR	02	C	P		DRILL, SLIDE FROM 1990' - 2740' HOLDING 4.04 DEG. 322.52 AZ. WITH 2 DEG BUILD RATES 550 GAL PER MIN 1200 PSI ON BOTTOM 1000 PSI OFF BOTTOM 45 ROT 94 BHR 5-20K WOB NO LOSSES. AVERAGE ROP 58' PER HR
	13:00 - 14:30	1.50	DRLSUR	05	A	P		CIRCULATE HOLE CLEAN W/ POLY SWEEPS FOR SURFACE CSG
	14:30 - 19:00	4.50	DRLSUR	06	A	P		LDDS,DIR TOOLS, TROUBLE BREAKING FEW COLLARS
	19:00 - 22:00	3.00	DRLSUR	12	C	P		RU & RUN 2 JTS 9.625" CSG, COULDN'T GET CSG TO GO DOWN, PULLED CSG OUT OF HOLE
	22:00 - 0:00	2.00	DRLSUR	06	E	P		RU / MAKE WIPER TRIP TO 120'
4/1/2010	0:00 - 9:00	9.00		12	A			FINISH RUNNING 63 JTS 9 5/8" 36# J55 LT&C SURFACE CSG TO 2702' SHOE, BAFFLE @2659', HAD TO PUMP 47 JTS TO BOTTOM DUE TO GILSONITE, RELEASE RIG @ 9:00
	9:00 - 9:30	0.50	RDMO	01	E	P		RD MOVE TO NEXT WELL ON PAD
	9:30 - 10:00	0.50		12	E			HOLD SAFETY MEETING, PRESSURE TEST LINES TO 2000 PSI. PUMP 150 BBLs H2O, PUMP 20 BBLs OF GEL WATER. PUMP 260 SX (177 BBLs) OF 11#, 3.82 YD, 23 GAL/SK HI FILL LEAD CEMENT. PUMP 200 SX(41 BBLs) OF 15.8#. 1.15 YD, 5 GAL/SK 2% CALC 1/4# FLOCELE TAIL CEMENT. DROP PLUG ON FLY, DISPLACE W/ 168.1 BBLs OF H2O. 540 PSI OF LIFT. BUMP PLUG W/ 900 PSI, FLOAT HELD. CIRC THROUGH OUT JOB. 20 BBLs LEAD TO SURFACE. TOP OUT THROUGH 1" W/ 125 SX (25.6 BBLs) OF 15.8#, 1.15 YD, 5 GAL/SK 4% CALC. CEMENT FELL
4/13/2010	6:00 - 16:30	10.50	RDMO	01	A	P		RDRT, SPLIT BECKET, UNSTRING BLOCKS, RD FLOOR. REMOVE SKATE. LOWER DERRICK @ 15:00 HRS. MOVE FRONT YARD AND CAMPS TO LOCATION, 30% MOVED, 0% RIGGED UP.
	16:30 - 0:00	7.50	RDMO	01	E	P		RDRT, RD AIR, ELECTRICAL, ETC. AND PREPARE TO MOVE THE RIG THIS AM.
4/14/2010	0:00 - 0:00	24.00	DRLPRO	01	B	P		MOVE IN RU BACK YARD, SUB, DERRICK & FLOOR LAST TRUCK LEFT LOCATION 14:00
4/15/2010	0:00 - 7:00	7.00	DRLPRO	01	B	P		RIG UP FLARE LINES, FLOWLINES, FLOOR
	7:00 - 9:30	2.50	DRLPRO	14	A	P		NU BOPE
	9:30 - 13:30	4.00	DRLPRO	15	A	P		TEST BOP- RAMS-250 LOW, 5000 HIGH, ANNULAR-2500, CSG-1500 FOR 30 MIN

US ROCKIES REGION
Operation Summary Report

Well: NBU 920-14M3AS [RED]		Spud Conductor: 3/24/2010	Spud Date: 3/30/2010
Project: UTAH-UINTAH		Site: NBU 920-14M PAD	Rig Name No: PROPETRO/, ENSIGN 145/145
Event: DRILLING		Start Date: 3/22/2010	End Date: 4/25/2010
Active Datum: RKB @4,825.01ft (above Mean Sea Leve			
UWI: SW/SW/09/S/20/E/14/0/0/6/PM/S/488.00/W/0/633.00/0/0			

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	13:30 - 15:00	1.50	DRLPRO	06	A	P		PU BHA, DIR WORK, SCRIBE TOOLS
	15:00 - 19:00	4.00	DRLPRO	06	A	P		PU SINGLES, TIH, TAG CMT AT 2642
	19:00 - 19:30	0.50	DRLPRO	02	F	P		DRILL CMT & SHOE, DRILL AHEAD AT 2746, OBSERVED NO UNUSUAL DRAG AND NO METAL FILINGS ON THE DITCH MAGNET
	19:30 - 0:00	4.50	DRLPRO	02	C	P		DRILL&SLIDE- 2746 TO 3130, WOB-15-19, SPP ON/OFF BOTTOM-1360/1118, GPM-460, ROTARY RPM-40, MOTOR RPM-106, DIF-140, TQE ON/OFF BOTTOM-9/3, MW-8.5, VIS-26
4/16/2010	0:00 - 13:00	13.00	DRLPRO	02	D	P		DRILL&SLIDE- 3130 TO 4578, WOB-15-19, SPP ON/OFF BOTTOM-1430/11270, GPM-460, ROTARY RPM-40, MOTOR RPM-106, DIF-250-350, TQE ON/OFF BOTTOM-9/3, MW-8.5, VIS-26
	13:00 - 13:30	0.50	DRLPRO	07	A	P		LUBRICATE RIG
	13:30 - 0:00	10.50	DRLPRO	02	C	P		DRILL&SLIDE- 4578 TO 5718, WOB-15-19, SPP ON/OFF BOTTOM-1486/11340, GPM-460, ROTARY RPM-40, MOTOR RPM-106, DIF-250-350, TQE ON/OFF BOTTOM-9/3, MW-8.5, VIS-26
4/17/2010	0:00 - 12:30	12.50	DRLPRO	02	C	P		DRILL&SLIDE-5718 TO 6753, WOB-15-19, SPP ON/OFF BOTTOM-1486/11340, GPM-460, ROTARY RPM-40, MOTOR RPM-106, DIF-250-350, TQE ON/OFF BOTTOM-9/3, MW-10.0, VIS-35
	12:30 - 13:00	0.50	DRLPRO	07	A	P		LUBRICATE RIG
	13:00 - 0:00	11.00	DRLPRO	02	C	P		DRILL&SLIDE- 6753 TO 7310, WOB-18-24, SPP ON/OFF BOTTOM-1686/11480, GPM-460, ROTARY RPM-40, MOTOR RPM-94, DIF-250-350, TQE ON/OFF BOTTOM-12/3, MW-10.4, VIS-35, LOST #2 PUMP, WASHED OUT, HAVE TO REPLACE TOMORROW IF NEW FLUID END SHOWS UP.
4/18/2010	0:00 - 3:00	3.00	DRLPRO	02	C	P		DRILL&SLIDE- 7310 TO 7411, WOB-18-24, SPP ON/OFF BOTTOM-1686/11480, GPM-460, ROTARY RPM-40, MOTOR RPM-94, DIF-250-350, TQE ON/OFF BOTTOM-12/3, MW-10.5, VIS-38,
	3:00 - 4:30	1.50	DRLPRO	05	A	X		LOST CIRCULATION, PUMP LCM PILL, MIX LCM TO 10% TO HEAL WELLBORE, LOST 100 BBL MUD PRIOR TO HEAL UP
	4:30 - 12:30	8.00	DRLPRO	02	C	P		DRILL&SLIDE- 7411 TO 7704, WOB-18-24, SPP ON/OFF BOTTOM-1590/1380, GPM-407, ROTARY RPM-35, MOTOR RPM-94, DIF-250-350, TQE ON/OFF BOTTOM-12/3, MW-10.6, VIS-38, BUILD VOLUME, TRANSFER MUD FROM 400 BBL TANK
	12:30 - 13:00	0.50	DRLPRO	07	A	P		LUBRICATE RIG
	13:00 - 13:00	0.00	DRLPRO	02	C	P		DRILL&SLIDE- 7704 TO 8065 , WOB-18-24, SPP ON/OFF BOTTOM-2368/2130, GPM-460, ROTARY RPM-40, MOTOR RPM-107, DIF-250-350, TQE ON/OFF BOTTOM-12/3, MW-10.7, VIS-38
4/19/2010	0:00 - 3:00	3.00	DRLPRO	02	C	P		DRILL&SLIDE- 8065 TO 8145, WOB-18-24, SPP ON/OFF BOTTOM-2368/2130, GPM-460, ROTARY RPM-40, MOTOR RPM-107, DIF-250-350, TQE ON/OFF BOTTOM-12/3, MW-10.7, VIS-38, TOP DRIVE OVERHEATING
	3:00 - 5:30	2.50	DRLPRO	08	B	Z		TROUBLE SHOOT TOP DRIVE- ELECTRICAL BREAKER FAULT
	5:30 - 6:00	0.50	DRLPRO	07	A	P		LUBRICATE RIG
	6:00 - 0:00	18.00	DRLPRO	02	C	P		DRILL&SLIDE- 8145 TO 8815, WOB-18-24, SPP ON/OFF BOTTOM-2596/2416, GPM-460, ROTARY RPM-40, MOTOR RPM-107, DIF-250-350, TQE ON/OFF BOTTOM-17/3, MW-11.7, VIS-44

US ROCKIES REGION
Operation Summary Report

Well: NBU 920-14M3AS [RED]		Spud Conductor: 3/24/2010		Spud Date: 3/30/2010	
Project: UTAH-UINTAH		Site: NBU 920-14M PAD		Rig Name No: PROPETRO/, ENSIGN 145/145	
Event: DRILLING		Start Date: 3/22/2010		End Date: 4/25/2010	
Active Datum: RKB @4,825.01ft (above Mean Sea Level)		UWI: SW/SW/0/9/S/20/E/14/0/0/6/PM/S/488.00/W/0/633.00/0/0			

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
4/20/2010	0:00 - 15:30	15.50	DRLPRO	02	C	P		DRILL- 8815 TO 9335, WOB-18-24, SPP ON/OFF BOTTOM-2620/2445, GPM-460, ROTARY RPM-40, MOTOR RPM-107, DIF-250-350, TQE ON/OFF BOTTOM-17/3, MW-12.0, VIS-44, DRILLED INTO 9264 MUD WT OUT WENT TO 11.3, MUD WT IN WAS 12.0, MUD UP TO 12.4.
	15:30 - 16:00	0.50	DRLPRO	07	A	P		LUBRICATE RIG
	16:00 - 18:30	2.50	DRLPRO	02	C	P		DRILL- 9335 TO 9402, WOB-18-24, SPP ON/OFF BOTTOM-2620/2445, GPM-460, ROTARY RPM-40, MOTOR RPM-107, DIF-30-110 TQE ON/OFF BOTTOM-17/3, MW-12.4, VIS-48, BIT QUIT, LOST DIFF
4/21/2010	18:30 - 20:00	1.50	DRLPRO	05	C	P		PUMP HI VIS SWEEP, CIRC HOLE
	20:00 - 0:00	4.00	DRLPRO	06	A	P		TRIP FOR BIT
	0:00 - 2:00	2.00	DRLPRO	06	A	P		TFNB
	2:00 - 2:30	0.50	DRLPRO	06	A	P		LD DIR TOOLS
	2:30 - 3:00	0.50	DRLPRO	06	A	P		LD MOTOR & BIT
	3:00 - 4:00	1.00	DRLPRO	06	A	P		PU MOTOR, BIT, ORIENT TOOLS
	4:00 - 11:00	7.00	DRLPRO	06	A	P		TRIP IN HOLE W/ NEW BIT
	11:00 - 11:30	0.50	DRLPRO	03	E	X		REAM & WASH DOWN 9330 TO 9402
4/22/2010	11:30 - 12:30	1.00	DRLPRO	02	C	P		DRILL 9402 TO 9411, WOB-18-24, SPP ON/OFF BOTTOM-2653/2460, GPM-460, ROTARY RPM-40, MOTOR RPM-64, DIF-200-350 TQE ON/OFF BOTTOM-18/5, MW-12.4, VIS-48, LOST CIRCULATION
	12:30 - 19:30	7.00	DRLPRO	05	A	X		LOST RETURNS, MIX LCM, HEAL UP FORMATION, BUILD VOLUME & REGAIN MW, LOST 250 BBLS MUD, MD WT 12.4, VIS 44 IN, 12.1, 50 OUT, FULL RETURNS, RESUME DRILLING
	19:30 - 0:00	4.50	DRLPRO	02	C	P		DRILL- 9411 TO 9520, WOB-18-24, SPP ON/OFF BOTTOM-2655/2460, GPM-460, ROTARY RPM-40, MOTOR RPM-64 DIF-200-350 TQE ON/OFF BOTTOM-18/4, MW-12.4, VIS-48
4/22/2010	0:00 - 15:30	15.50	DRLPRO	02	C	P		DRILL & SLIDE- 9520 TO 9964 , WOB-18-24, SPP ON/OFF BOTTOM-2655/2460, GPM-460, ROTARY RPM-40, MOTOR RPM-64, DIF-200-350 TQE ON/OFF BOTTOM-18/4, DRILL INTO MVL1 AT 9615- MUD CUT 12.3 IN, 10.1 OUT, RAISE MUD WT TO 12.5
	15:30 - 16:00	0.50	DRLPRO	07	A	P		LUBRICATE RIG
	16:00 - 0:00	8.00	DRLPRO	02	C	P		DRILL & SLIDE- 9964 TO 10206 , WOB-18-24, SPP ON/OFF BOTTOM-2655/2460, GPM-460, ROTARY RPM-40, MOTOR RPM-64, DIF-200-350 TQE ON/OFF BOTTOM-18/4, MW IN/OUT-12.5, VIS-44/12.4, VIS 48
4/23/2010	0:00 - 14:00	14.00	DRLPRO	02	C	P		DRILL & SLIDE- 10206 TO 10553 , WOB-18-24, SPP ON/OFF BOTTOM-2540/2360, GPM-438, ROTARY RPM-40, MOTOR RPM-64, DIF-150-250 TQE ON/OFF BOTTOM-18/4, MW IN/OUT-12.5, VIS-44/12.5, VIS 48
	14:00 - 14:30	0.50	DRLPRO	07	A	P		LUBRICATE RIG
	14:30 - 22:00	7.50	DRLPRO	02	C	P		DRILL & SLIDE- 10553 TO 10738 , TD AT 22:00 WOB-18-24, SPP ON/OFF BOTTOM-2540/2360, GPM-438, ROTARY RPM-40, MOTOR RPM-64, DIF-100-200 TQE ON/OFF BOTTOM-18/4, MW IN/OUT-12.6, VIS-50/12.5, VIS 50
4/24/2010	22:00 - 0:00	2.00	DRLPRO	05	F	P		PUMP SWEEPS, CIRC 2 BOTTOMS UP
	0:00 - 2:00	2.00	DRLPRO	06	E	P		WIPER TRIP TO 9400
	2:00 - 3:30	1.50	DRLPRO	05	F	P		PUMP SWEEP, CIRC HOLE BOTTOMS UP

US ROCKIES REGION
Operation Summary Report

Well: NBU 920-14M3AS [RED]		Spud Conductor: 3/24/2010	Spud Date: 3/30/2010
Project: UTAH-UINTAH		Site: NBU 920-14M PAD	Rig Name No: PROPETRO/, ENSIGN 145/145
Event: DRILLING		Start Date: 3/22/2010	End Date: 4/25/2010
Active Datum: RKB @4,825.01ft (above Mean Sea Leve UWI: SW/SW/09/S/20/E/14/0/0/6/PM/S/488.00/W/0/633.00/0/0			

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	3:30 - 10:00	6.50	DRLPRO	06	A	P		POOH FOR LOGS
	10:00 - 11:00	1.00	DRLPRO	06	A	P		DIR WORK, PULL BATTERIES FROM DIR TOOLS
	11:00 - 11:30	0.50	DRLPRO	06	A	P		PULL WEAR BUSHING
	11:30 - 12:30	1.00	DRLPRO	11	D	P		HOLD SAFETY MEETING, RU LOGGERS
	12:30 - 18:30	6.00	DRLPRO	11	D	P		RUN TRIPLE COMBO, LOGGERS TD-10748, RD LOGGERS
	18:30 - 19:30	1.00	DRLPRO	12	A	P		HOLD SAFETY MEETING, RU CASERS
	19:30 - 0:00	4.50	DRLPRO	12	C	P		RUN 28 JTS P-110, 225 JTS I-80, 11.6#, BTC CSG
4/25/2010	0:00 - 3:30	3.50	DRLPRO	12	C	P		RUN 28 JTS P-110, 225 JTS I-80, 4 1/2, 11.6#, BTC CSG. LANDED SHOE AT 10726.
	3:30 - 4:30	1.00	DRLPRO	12	A	P		RD CASERS, BREAK CIRCULATION
	4:30 - 5:30	1.00	DRLPRO	12	B	P		RU CEMENTERS, CIRC OUT TRIP GAS
	5:30 - 8:00	2.50	DRLPRO	12	E	P		PUMP 40 BBLS SPACER, 724 SX, 255 BBLS 12.5 LEAD, 1246 SX, 290 BBLS 14.3 TAIL, DISPLACE W/ 166 BBLS WATER, BUMP PLUG, FLOATS HELD, RETURNED 10 BBLS CMT TO SURFACE
	8:00 - 9:00	1.00	DRLPRO	12	B	P		RD CEMENTERS
	9:00 - 11:00	2.00	DRLPRO	01	E	P		CLEAN PITS, RELEASE RIG AT 11:00

US ROCKIES REGION
Operation Summary Report

Well: NBU 920-14M3AS [RED]	Spud Conductor: 3/24/2010	Spud Date: 3/30/2010
Project: UTAH-UINTAH	Site: NBU 920-14M PAD	Rig Name No: PROPETRO/, ENSIGN 145/145
Event: DRILLING	Start Date: 3/22/2010	End Date: 4/25/2010
Active Datum: RKB @4,825.01ft (above Mean Sea Leve		
UWI: SW/SW/0/9/S/20/E/14/0/0/6/PM/S/488.00/W/0/633.00/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	11:00 - 11:00	0.00	DRLPRO					<p>SPUD DATE/TIME: 12/27/2009 15:30</p> <p>SURFACE HOLE: 11 Surface From depth:44 Surface To depth: 2,740 Total SURFACE hours: 47.00 Surface Casing size:8.625" # of casing joints ran: 62 Casing set MD:2,711.0 # sx of cement:585 Cement blend (ppg):LEAD 11, TAIL-15.8, TOP OUT-15.8 Cement yield (ft3/sk): LEAD-3.82, TAIL-1.15, TOP OUT-3.82 # of bbls to surface: 0 Describe cement issues: Describe hole issues: NONE</p> <p>PRODUCTION: 7.875 Rig Move/Skid start date/time: 4/13/2010 6:00 Rig Move/Skid finish date/time:4/14/2010 14:00 Total MOVE hours: 32.0 Prod Rig Spud date/time: 4/15/2010 19:00 Rig Release date/time: 4/25/2010 11:00 Total SPUD to RR hours:232.0 Planned depth MD 10,738 Planned depth TVD 10,730 Actual MD: 10,738 Actual TVD: 10,730 Open Wells \$: \$1,031,933 AFE \$: \$944,160 Open wells \$/ft:\$96.10</p> <p>PRODUCTION HOLE: Prod. From depth: 2,746 Prod. To depth:10,738 Total PROD hours: 162.5 Log Depth: 10748 Production Casing size: 4 1/2 # of casing joints ran: 253 Casing set MD:10,724.0 # sx of cement:LEAD-724 SX, TAIL- 1246 SX Cement blend (ppg):LEAD-12.5, TAIL-14.3 Cement yield (ft3/sk): LEAD-1.98, TAIL-1.31 Est. TOC (Lead & Tail) or 2 Stage : LEAD-SURFACE, TAIL-4246 Describe cement issues: NO PROBLEMS, JOB WENT AS PLANNED Describe hole issues: MAJOR MUD LOSSES AT 7400 AND 9500</p> <p>DIRECTIONAL INFO: KOP: 2,893 Max angle: 5.64 Departure: 110.22 Max dogleg MD: 1.92</p>

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 920-14M3AS [RED]	Spud Conductor: 3/24/2010	Spud Date: 3/30/2010
Project: UTAH-UINTAH	Site: NBU 920-14M PAD	Rig Name No: SWABBCO 1/1
Event: COMPLETION	Start Date: 6/15/2010	End Date: 7/2/2010
Active Datum: RKB @4,825.01ft (above Mean Sea Level) UWI: SW/SW/0/9/S/20/E/14/0/0/6/PM/S/488.00/W/0/633.00/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
6/18/2010	7:00 - 7:15	0.25	COMP	48		P		HSM, P/T CSG / R/U WIRE LINE
	7:15 - 13:00	5.75	COMP	37	B	P		MIRU B&C TESTERS, P/T CSG & FRAC VALVES TO 7000# [GOOD TEST] R/D TESTERS, MIRU CUTTERS WIRE LINE, P/U RIH W/ PERF GUN PERF MESAVERDE USING 3-3/8 EXPEND, 23 GRM 0.36" HOLE 10452'-10560' 4 SPF, 90* PH, 16 HOLES. 10526'-10530' 4 SPF, 90* PH, 16 HOLES. 10452'-10454' 4 SPF, 90* PH, 8 HOLES [40 HOLES] SWI.
6/21/2010	7:00 - 13:00	6.00	COMP	48		P		MIRU SURERIOR WELL SERVICE FRAC CREW, PRESSURE TEST SURFACE LINES TO 8500#, HSM W/ FRAC
	13:00 - 17:00	4.00	COMP	36	E	P		(STG #1) WHP = 1528 #, BRK DN PERF @ 3491 # @ 4.8 B/M, INJ- RT = 49 B/M, INJ-P = 5945 #, ISIP = 2897 #, F.G.= 0.71 , CALC 87% PERF OPEN, PUMP 1372 BBLS WTR & 44250 # OTTAWA SAND, ISIP = 3266 #, F.G.= 0.75 , NPI = 369 #, MP = 6556 #, MR = 51.2 B/M, AP = 5763 #, AR = 49.7 B/M, 39250 # 30/50 SAND, 5000 # TLC SAND, COMMENTS = PUMP AND COMUPTOR TROUBLE (STG #2) RIH W/ HALLIBURTON 8K CBP AND PERF GUNS, SET CBP @ 10350', PERF THE MESAVERDE @ 10314' - 10320' 4-spf, 10240' - 10244' 4-spf, USING 3 3/8" SCALLOP GUNS, 23 gm, 0.36 HOLE, 90* PHS, 40 HOLES,

US ROCKIES REGION
Operation Summary Report

Well: NBU 920-14M3AS [RED]		Spud Conductor: 3/24/2010	Spud Date: 3/30/2010
Project: UTAH-UINTAH		Site: NBU 920-14M PAD	Rig Name No: SWABBCO 1/1
Event: COMPLETION		Start Date: 6/15/2010	End Date: 7/2/2010
Active Datum: RKB @4,825.01ft (above Mean Sea Leve) UWI: SW/SW/0/9/S/20/E/14/0/0/6/PM/S/488.00/W/0/633.00/0/0			

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
6/22/2010	7:00 - 17:00	10.00	COMP	36	E	P		<p>(STG #2) WHP = 2168 #, BRK DN PERF @ 4532 # @ 4.6 B/M, INJ- RT = 46.2 B/M, INJ-P = 6250 #, ISIP = 3142 #, F.G.= 0.74 , CALC 75% PERF OPEN, PUMP 909 BBLs WTR & 32571 # OTTAWA SAND, ISIP = 3477 #, F.G.= 0.78 , NPI = 335 #, MP = 6327 #, MR = 47 B/M, AP = 5782 #, AR = 46 B/M, 27571 # 30/50 SAND, 5000 # TLC SAND, COMMENTS = GOOD JOB</p> <p>(STG #3) RIH W/ HALLIBURTON 8K CBP AND PERF GUNS, SET CBP @ 10164 ' , PERF THE MESAVERDE @ 10128' - 10134' 3-SPF, 10089' - 10093' 3-SPF, 10068' - 10070' 4-SPF, USING 3 3/8" SCALLOP GUNS, 23 gm, 0.36 HOLE, 90° PHS, 40 HOLES, WHP = 1793 #, BRK DN PERF @ 3837 # @ 4.7 B/M, INJ- RT = 49 B/M, INJ-P = 6000 #, ISIP = 2757 #, F.G.= 0.71 , CALC 75% PERF OPEN, PUMP 1360 BBLs WTR & 49592 # OTTAWA SAND, ISIP = 3990 #, F.G.= 0.83 , NPI = 1233 #, MP = 7935 #, MR = 49.4 B/M, AP = 6212 #, AR = 47.7 B/M, 44592 # 30/50 SAND, 5000 # TLC SAND, COMMENTS = SCREEN OUT ON FLUSH W/ CUT SAND SHORT</p> <p>(STG #4) RIH W/ HALLIBURTON 8K CBP AND PERF GUNS, SET CBP @ 9946 ' , PERF THE MESAVERDE @ 9906' - 9916 ' 4-SPF, USING 3 3/8" SCALLOP GUNS, 23 gm, 0.36 HOLE, 90° PHS, 40 HOLES, WHP = 1709 #, BRK DN PERF @ 3306 # @ 4.7 B/M, INJ- RT = 47.5 B/M, INJ-P = 6024 #, ISIP = 2840 #, F.G.= 0.72 , CALC 80% PERF OPEN, PUMP 1410 BBLs WTR & 44108 # OTTAWA SAND, ISIP = 3574 #, F.G.= 0.80 , NPI = 734 #, MP = 6510 #, MR = 49.9 B/M, AP = 6306 #, AR = 49 B/M, 39108 # 30/50 SAND, 5000 # TLC SAND, COMMENTS = SCREEN OFF ON FLUSH, FLOW WELL BACK, REFLUSH,</p> <p>(STG #5) RIH W/ HALLIBURTON 8K CBP AND PERF GUNS, SET CBP @ 9806 ' , PERF THE MESAVERDE @ 9774' - 9776' 4-SPF, 9738' - 9740' 4-SPF, 9708' - 9712' 2-SPF, 9670' - 9674' 3-SPF, USING 3 3/8" SCALLOP GUNS, 23 gm, 0.36 HOLE, 90° PHS, 40 HOLES,</p>

US ROCKIES REGION
Operation Summary Report

Well: NBU 920-14M3AS [RED]		Spud Conductor: 3/24/2010	Spud Date: 3/30/2010
Project: UTAH-UINTAH		Site: NBU 920-14M PAD	Rig Name No: SWABBCO 1/1
Event: COMPLETION		Start Date: 6/15/2010	End Date: 7/2/2010
Active Datum: RKB @4,825.01ft (above Mean Sea Leve) UWI: SW/SW/0/9/S/20/E/14/0/0/6/PM/S/488.00/W/0/633.00/0/0			

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
6/23/2010	7:00 - 17:00	10.00	COMP	36	E	P		<p>(STG #5) WHP = 2257 #, BRK DN PERF @ 4582 # @ 4.6 B/M, INJ- RT = 49.2 B/M, INJ-P = 6250 #, ISIP = 3586 #, F.G.= 0.81 , CALC ALL PERF OPEN, PUMP 1018 BBLS WTR & 35767 # OTTAWA SAND, ISIP = 3477 #, F.G.= 0.80, NPI = -109 #, MP = 5536 #, MR = 49.6 B/M, AP = 6251#, AR = 46.5 B/M, 30767 # 30/50 SAND, 5000 # TLC SAND, COMMENTS = GOOD JOB</p> <p>(STG #6) RIH W/ HALLIBURTON 8K CBP AND PERF GUNS, SET CBP @ 9270', PERF THE MESAVERDE @ 9236' - 9240' 3-SPF, 9204' - 9206' 4-SPF, 9158' - 9160' 3-SPF, 9086' - 9090' 3-SPF, USING 3 3/8" SCALLOP GUNS, 23 gm, 0.36 HOLE, 90* PHS, 38 HOLES, WHP = 1225 #, BRK DN PERF @ 3099 # @ 4.8 B/M, INJ- RT = 46 B/M, INJ-P = 6050 #, ISIP = 2444 #, F.G.= 0.71 , CALC 66% PERF OPEN, PUMP 1569 BBLS WTR & 62056 # OTTAWA SAND, ISIP = 3142 #, F.G.= 0.78, NPI = 698 #, MP = 6555 #, MR = 49.7 B/M, AP = 588# #, AR = 47.7 B/M, 59056 # 30/50 SAND, 5000 # TLC SAND, COMMENTS = GOOD JOB</p> <p>(STG #7) RIH W/ HALLIBURTON 8K CBP AND PERF GUNS, SET CBP @ 8710' , PERF THE MESAVERDE @ 8676' - 8680', 8660' - 8666', 4-SPF, USING 3 3/8" SCALLOP GUNS, 23 gm, 0.36 HOLE, 90* PHS, 40 HOLES, WHP = 300 #, BRK DN PERF @ 3110 # @ 4.8 B/M, INJ- RT = 50.9 B/M, INJ-P = 5869 #, ISIP = 2404 #, F.G.= 0.71 , CALC 70% PERF OPEN, PUMP 1406 BBLS WTR & 55956 # OTTAWA SAND, ISIP = 3211 #, F.G.= 0.81 , NPI = 807 #, MP = 6351 #, MR = 55 B/M, AP = 5703 # AR = 48.5 B/M, 50956 # 30/50 SAND, 5000 # TLC SAND, COMMENTS = GOOD JOB</p> <p>(KILL PLUG) RIH W/ HALLIBURTON 8K CBP, SET CBP @ 8610, R/D WIRELINE AND FRAC CREW, WELL SHUT IN.</p> <p>total fluid = 9044 BBLS WTR TOTAL SAND = 324300 # OTTAWA SAND MIRU 0# ON WELL ND FRAC VALVES NU BOPS RU FLOOR & TUBING EQUIP, TALLEY & PU PIPE SWIFN EOT @ 2528' JSA= PU PIPE OFF FLOAT</p>
7/1/2010	14:00 - 18:00	4.00	COMP	30		P		
7/2/2010	7:00 - 7:15	0.25	COMP	48		P		

US ROCKIES REGION
Operation Summary Report

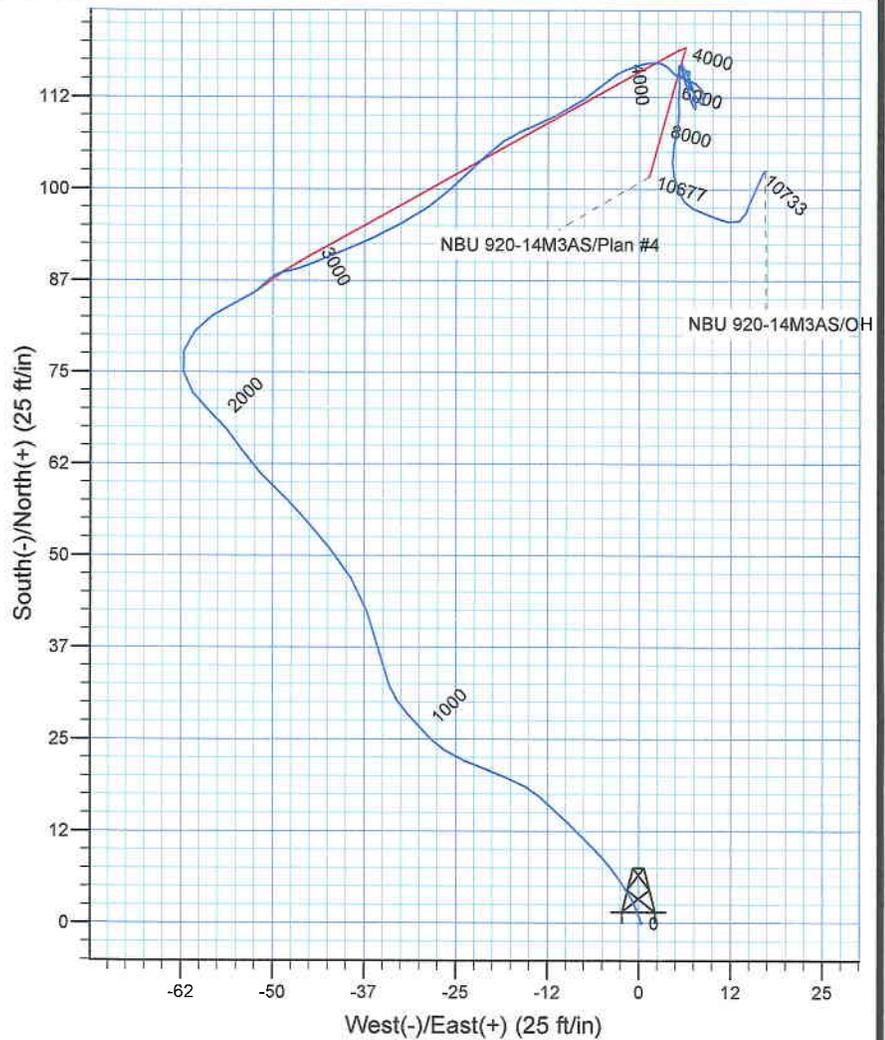
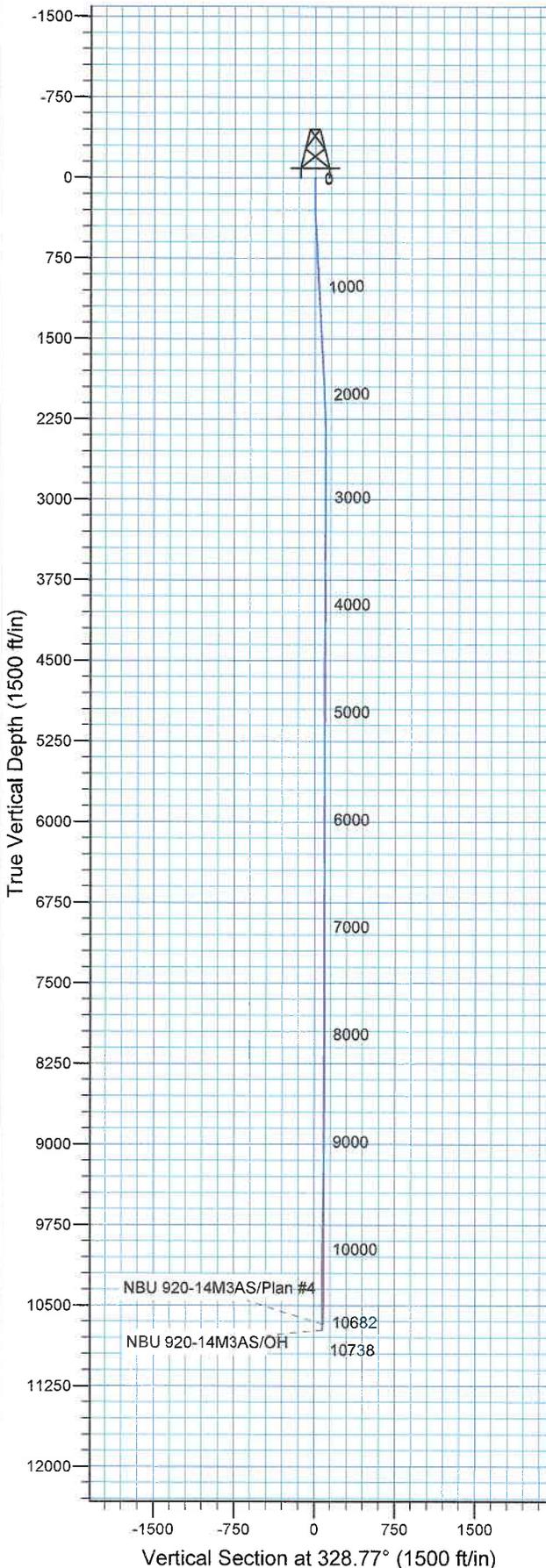
Well: NBU 920-14M3AS [RED]		Spud Conductor: 3/24/2010		Spud Date: 3/30/2010	
Project: UTAH-UINTAH		Site: NBU 920-14M PAD		Rig Name No: SWABBCO 1/1	
Event: COMPLETION		Start Date: 6/15/2010		End Date: 7/2/2010	
Active Datum: RKB @4,825.01ft (above Mean Sea Leve UWI: SW/SW/0/9/S/20/E/14/0/0/6/PM/S/488.00/W/0/633.00/0/0					

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		<p>CONTINUE TO TALLEY & PU PIPE TAG KILL PLUG @ EST CIRC PRESS TEST TO 3000# DRILL THRU KILL PLUG</p> <p>PLUG#1] DRILL THRU HALLI 8K CBP @ 8610' IN 13 MIN W/ 50# INCREASE</p> <p>PLUG #2] CONTINUE TO RIH TAG SAND @ 8672' (38' FILL) C/O & DRILL THRU HALLI 8K CBP @ 8710' IN 21 MIN W/ 200# INCREASE</p> <p>PLUG #3] CONTINUE TO RIH TAG SAND @ 9245' (25' FILL) C/O & DRILL THRU HALLI 8K CBP @ 9270' IN 16 MIN W/ 250# INCREASE (250 ON WELL)</p> <p>PLUG#4] CONTINUE TO RIH TAG SAND @ 9781' (25' FILL) C/O & DRILL THRU HALLI 8K CBP @ 9806' IN 11 MIN W/ 0 INCREASE.</p> <p>PLUG #5] CONTINUE TO RIH TAG SAND @ 9912' (34' FILL) C/O & DRILL THRU HALLI 8K CBP @ 9946' IN 18 MIN W/ 100# INCREASE (300# ON WELL)</p> <p>PLUG #6] CONTINUE TO RIH TAG SAND @ 10116' (30' FILL) C/O & DRILL THRU HALLI 8K CBP @ 10146' IN 16 MIN W/ 150# INCREASE</p> <p>PLUG #7] CONTINUE TO RIH TAG SAND @ 10335' (15' FILL) C/O & DRILL THRU HALLI 8K CBP @ 10350' IN 13 MIN W/ 150# INCREASE</p> <p>CONTINUE TO RIH TAG SAND @ 10641' C/O TO PBD @ 10681' CIRC CLEAN RD PWR SWWL POOH LD 15 JNTS LAND TUBING ON HANGER W/ 323 JNTS OF 2-3/8 L-80 TUBING RD FLOOR & TUBING EQUIP ND BOPS, NU WELLHEAD DROP BALL PUMP OFF BIT @ 2900 PSI SIW TURN WELL OVER TO FLOW BACK CREW @ 16:00 SDFW</p> <p>TOTAL PUMPED= 9044 BBLS RIG REC = 2000 BBLS LEFT TO REC = 7044 BBLS</p> <p>KB= 13.00 HANGER= 1.00 323 JNTS 2-3/8" L-80= 10193.93 POBS= 2.20 EOT= 10209.93</p>
7/3/2010	7:00 -			33	A			<p>7 AM FLBK REPORT: CP 2700#, TP 2150#, 20/64" CK, 50 BWPH, 1/2C SAND, - GAS TTL BBLS RECOVERED: 3105 BBLS LEFT TO RECOVER: 5939</p>
	10:40 -		PROD	50				<p>WELL TURNED TO SALES @ 1040 HR ON 7/3/2010 - 1548 MCFD, 912 BWPD, CP 2900#, FTP 2300#, CK 16/64"</p>
7/4/2010	7:00 -			33	A			<p>7 AM FLBK REPORT: CP 2650#, TP 2250#, 16/64" CK, 35 BWPH, 1/4C SAND, - GAS TTL BBLS RECOVERED: 4070 BBLS LEFT TO RECOVER: 4974</p>
7/5/2010	7:00 -			33	A			<p>7 AM FLBK REPORT: CP 3000#, TP 2150#, 16/64" CK, 25 BWPH, TBS SAND, - GAS TTL BBLS RECOVERED: 4690 BBLS LEFT TO RECOVER: 4354</p>

US ROCKIES REGION
Operation Summary Report

Well: NBU 920-14M3AS [RED]	Spud Conductor: 3/24/2010	Spud Date: 3/30/2010
Project: UTAH-UINTAH	Site: NBU 920-14M PAD	Rig Name No: SWABBCO 1/1
Event: COMPLETION	Start Date: 6/15/2010	End Date: 7/2/2010
Active Datum: RKB @4,825.01ft (above Mean Sea Leve		
UWI: SW/SW/0/9/S/20/E/14/0/0/6/PM/S/488.00/W/0/633.00/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
7/6/2010	7:00 -			33	A			7 AM FLBK REPORT: CP 2800#, TP 2000#, 16/64" CK, 18 BWPH, TRACE SAND, - GAS TTL BBLS RECOVERED: 5136 BBLS LEFT TO RECOVER: 3908
7/8/2010	7:00 -							WELL IP'D ON 7/8/10- 1961 MCFD, 0 BOPD, 287 BWPD, CP 1430#, FTP 1048#, CK 16/64", LP 122#, 24 HRS



WELL DETAILS: NBU 920-14M3AS

Ground Lev@: 4812' & RKB 14' @ 4826.00ft (Ensign 145)
 +N/-S +E/-W Northing Easting Latitude Longitude
 0.00 0.00 14539670.94 2020961.49 40° 1' 46.010 N 109° 38' 26.277 W

REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well NBU 920-14M3AS, True North
 Vertical (TVD) Reference: GL 4812' & RKB 14' @ 4826.00ft (Ensign 145)
 Section (VS) Reference: Slot - (0.00N, 0.00E)
 Measured Depth Reference: GL 4812' & RKB 14' @ 4826.00ft (Ensign 145)
 Calculation Method: Minimum Curvature
 Local North: True
 Location: Sec 14 T9S R20E

PROJECT DETAILS: Uintah County, UT UTM12

Geodetic System: Universal Transverse Mercator (US Survey Feet)
 Datum: NAD 1927 - Western US
 Ellipsoid: Clarke 1866
 Zone: Zone 12N (114 W to 108 W)

Design: OH (NBU 920-14M3AS/OH)

Created By: Rex Hall Date: 2010-06-03



Scientific Drilling
Rocky Mountain Operations

Kerr McGee Oil and Gas Onshore LP

Uintah County, UT UTM12
NBU 920-14M Pad
NBU 920-14M3AS
OH

Design: OH

Standard Survey Report

03 June, 2010

Anadarko 
Petroleum Corporation

Company: Kerr McGee Oil and Gas Onshore LP
Project: Uintah County, UT UTM12
Site: NBU 920-14M Pad
Well: NBU 920-14M3AS
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well NBU 920-14M3AS
TVD Reference: GL 4812' & RKB 14' @ 4826.00ft (Ensign 145)
MD Reference: GL 4812' & RKB 14' @ 4826.00ft (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 920-14M Pad, Sec 14 T9S R20E				
Site Position:		Northing:	14,539,718.00 ft	Latitude:	40° 1' 46.478 N
From:	Lat/Long	Easting:	2,020,941.95 ft	Longitude:	109° 38' 26.519 W
Position Uncertainty:	0.00 ft	Slot Radius:	in	Grid Convergence:	0.87 °

Well	NBU 920-14M3AS, 488' FSL & 633' FWL					
Well Position	+N/-S	0.00 ft	Northing:	14,539,670.94 ft	Latitude:	40° 1' 46.010 N
	+E/-W	0.00 ft	Easting:	2,020,961.49 ft	Longitude:	109° 38' 26.277 W
Position Uncertainty	0.00 ft	Wellhead Elevation:	ft	Ground Level:	4,812.00 ft	

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2005-10	2009/12/31	11.31	65.91	52,502

Design	OH				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	10.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	10.00	0.00	0.00	328.77	

Survey Program	Date	2010/06/03			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
99.00	2,699.00	Survey #1 - Surface MWD (OH)	MWD SDI	MWD - Standard ver 1.0.1	
2,803.00	10,738.00	Survey #2 - Production MWD (OH)	MWD SDI	MWD - Standard ver 1.0.1	

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
10.00	0.00	0.00	10.00	0.00	0.00	0.00	0.00	0.00	0.00	
99.00	0.21	114.13	99.00	-0.07	0.15	-0.13	0.24	0.24	0.00	
First SDI Surface MWD Survey										
128.00	0.32	99.20	128.00	-0.10	0.28	-0.23	0.44	0.38	-51.48	
157.00	0.12	38.06	157.00	-0.09	0.38	-0.27	0.97	-0.69	-210.83	
188.00	0.29	336.28	188.00	0.01	0.36	-0.18	0.83	0.55	-199.29	
218.00	0.72	334.08	218.00	0.25	0.25	0.08	1.43	1.43	-7.33	
245.00	0.98	343.52	244.99	0.62	0.11	0.47	1.09	0.96	34.96	
274.00	1.36	339.73	273.99	1.18	-0.08	1.05	1.34	1.31	-13.07	
304.00	1.85	336.31	303.98	1.96	-0.40	1.88	1.66	1.63	-11.40	
333.00	2.08	335.43	332.96	2.87	-0.80	2.87	0.80	0.79	-3.03	
362.00	2.57	327.79	361.94	3.89	-1.37	4.04	2.00	1.69	-26.34	

Company: Kerr McGee Oil and Gas Onshore LP
Project: Uintah County, UT UTM12
Site: NBU 920-14M Pad
Well: NBU 920-14M3AS
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well NBU 920-14M3AS
TVD Reference: GL 4812' & RKB 14' @ 4826.00ft (Ensign 145)
MD Reference: GL 4812' & RKB 14' @ 4826.00ft (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)
390.00	2.87	327.16	389.90	5.01	-2.08	5.37	1.08	1.07	-2.25
420.00	3.09	324.52	419.86	6.30	-2.96	6.92	0.86	0.73	-8.80
450.00	3.15	320.61	449.82	7.60	-3.95	8.55	0.74	0.20	-13.03
479.00	3.22	318.39	478.77	8.82	-5.00	10.14	0.49	0.24	-7.66
509.00	3.22	316.38	508.73	10.06	-6.14	11.79	0.38	0.00	-6.70
599.00	3.30	313.68	598.58	13.68	-9.76	16.76	0.19	0.09	-3.00
689.00	3.12	310.60	688.44	17.07	-13.49	21.59	0.28	-0.20	-3.42
779.00	3.82	291.70	778.28	19.77	-18.13	26.31	1.48	0.78	-21.00
869.00	4.04	292.34	868.07	22.08	-23.85	31.25	0.25	0.24	0.71
959.00	2.91	315.80	957.90	24.92	-28.38	36.03	1.99	-1.26	26.07
1,049.00	3.10	317.66	1,047.78	28.36	-31.61	40.64	0.24	0.21	2.07
1,139.00	2.93	338.22	1,137.66	32.30	-34.10	45.30	1.21	-0.19	22.84
1,229.00	3.40	347.11	1,227.52	37.03	-35.55	50.10	0.75	0.52	9.88
1,319.00	3.60	339.14	1,317.35	42.28	-37.15	55.41	0.58	0.22	-8.86
1,409.00	3.01	328.43	1,407.20	46.93	-39.40	60.55	0.95	-0.66	-11.90
1,499.00	3.21	319.71	1,497.07	50.86	-42.26	65.41	0.57	0.22	-9.69
1,589.00	2.96	321.01	1,586.94	54.59	-45.35	70.20	0.29	-0.28	1.44
1,679.00	2.79	314.29	1,676.83	57.93	-48.38	74.62	0.42	-0.19	-7.47
1,769.00	2.80	314.92	1,766.72	61.01	-51.51	78.88	0.04	0.01	0.70
1,859.00	2.35	327.61	1,856.63	64.12	-54.05	82.85	0.80	-0.50	14.10
1,949.00	2.43	319.90	1,946.55	67.14	-56.27	86.58	0.37	0.09	-8.57
2,039.00	2.19	313.14	2,036.48	69.77	-58.75	90.13	0.40	-0.27	-7.51
2,129.00	1.93	322.52	2,126.42	72.15	-60.93	93.29	0.47	-0.29	10.42
2,219.00	1.98	348.26	2,216.37	74.88	-62.17	96.26	0.97	0.06	28.60
2,309.00	1.81	15.50	2,306.32	77.77	-62.11	98.70	1.01	-0.19	30.27
2,399.00	2.15	39.20	2,396.27	80.45	-60.66	100.24	0.98	0.38	26.33
2,489.00	2.14	57.84	2,486.21	82.65	-58.17	100.83	0.77	-0.01	20.71
2,579.00	2.04	63.73	2,576.15	84.25	-55.31	100.72	0.26	-0.11	6.54
2,669.00	1.54	57.31	2,666.11	85.62	-52.86	100.61	0.60	-0.56	-7.13
2,699.00	1.55	54.04	2,696.09	86.07	-52.19	100.66	0.30	0.03	-10.90
Last SDI Surface MWD Survey									
2,803.00	1.22	41.12	2,800.06	87.73	-50.32	101.11	0.43	-0.32	-12.42
First SDI Production MWD Survey									
2,893.00	1.81	80.32	2,890.04	88.69	-48.29	100.88	1.29	0.66	43.56
2,984.00	3.20	68.35	2,980.95	89.87	-44.51	99.93	1.62	1.53	-13.15
3,075.00	3.98	67.59	3,071.77	92.01	-39.23	99.02	0.86	0.86	-0.84
3,165.00	5.64	61.80	3,161.45	95.29	-32.45	98.31	1.92	1.84	-6.43
3,256.00	4.68	47.38	3,252.08	99.92	-25.77	98.80	1.77	-1.05	-15.85
3,346.00	3.91	46.16	3,341.83	104.53	-20.86	100.20	0.86	-0.86	-1.36
3,437.00	3.59	65.63	3,432.64	107.86	-16.03	100.54	1.44	-0.35	21.40
3,528.00	2.86	65.80	3,523.49	109.96	-11.36	99.92	0.80	-0.80	0.19
3,615.00	2.83	53.08	3,610.39	112.14	-7.66	99.87	0.73	-0.03	-14.62
3,706.00	2.39	52.38	3,701.29	114.65	-4.36	100.30	0.48	-0.48	-0.77
3,796.00	1.10	68.59	3,791.25	116.11	-2.07	100.36	1.52	-1.43	18.01
3,887.00	0.99	69.32	3,882.23	116.71	-0.53	100.07	0.12	-0.12	0.80
3,978.00	0.87	82.75	3,973.22	117.07	0.90	99.64	0.27	-0.13	14.76
4,068.00	0.63	83.44	4,063.21	117.22	2.06	99.16	0.27	-0.27	0.77
4,159.00	0.67	114.33	4,154.21	117.05	3.05	98.51	0.38	0.04	33.95
4,250.00	0.68	132.09	4,245.20	116.47	3.93	97.55	0.23	0.01	19.52
4,340.00	0.62	141.84	4,335.20	115.73	4.63	96.56	0.14	-0.07	10.83
4,431.00	1.95	106.39	4,426.17	114.91	6.42	94.93	1.64	1.46	-38.96
4,521.00	1.38	148.63	4,516.14	113.55	8.45	92.71	1.46	-0.63	46.93
4,612.00	0.20	285.66	4,607.13	112.66	8.87	91.73	1.68	-1.30	150.58
4,703.00	0.34	210.42	4,698.13	112.47	8.58	91.72	0.38	0.15	-82.68

Company: Kerr McGee Oil and Gas Onshore LP
 Project: Uintah County, UT UTM12
 Site: NBU 920-14M Pad
 Well: NBU 920-14M3AS
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well NBU 920-14M3AS
 TVD Reference: GL 4812' & RKB 14' @ 4826.00ft (Ensign 145)
 MD Reference: GL 4812' & RKB 14' @ 4826.00ft (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)
4,793.00	0.69	158.95	4,788.12	111.73	8.64	91.06	0.61	0.39	-57.19
4,884.00	0.80	310.59	4,879.12	111.63	8.35	91.12	1.59	0.12	166.64
4,974.00	1.20	337.98	4,969.11	112.92	7.52	92.65	0.68	0.44	30.43
5,065.00	0.76	325.43	5,060.09	114.30	6.82	94.19	0.54	-0.48	-13.79
5,156.00	0.65	310.00	5,151.09	115.12	6.09	95.29	0.24	-0.12	-16.96
5,246.00	0.34	299.40	5,241.08	115.58	5.46	96.00	0.36	-0.34	-11.78
5,337.00	0.38	31.20	5,332.08	115.97	5.38	96.38	0.57	0.04	100.88
5,427.00	0.17	102.75	5,422.08	116.20	5.67	96.42	0.40	-0.23	79.50
5,518.00	0.17	124.48	5,513.08	116.09	5.91	96.21	0.07	0.00	23.88
5,609.00	0.39	162.18	5,604.08	115.72	6.12	95.78	0.30	0.24	41.43
5,699.00	0.46	176.11	5,694.08	115.07	6.24	95.16	0.14	0.08	15.48
5,790.00	0.66	164.50	5,785.07	114.20	6.40	94.33	0.25	0.22	-12.76
5,880.00	0.41	177.67	5,875.07	113.38	6.55	93.55	0.31	-0.28	14.63
5,971.00	0.59	165.81	5,966.07	112.60	6.68	92.82	0.23	0.20	-13.03
6,062.00	0.65	145.71	6,057.06	111.72	7.09	91.86	0.25	0.07	-22.09
6,152.00	0.44	160.90	6,147.06	110.97	7.49	91.01	0.28	-0.23	16.88
6,243.00	0.88	3.52	6,238.05	111.34	7.64	91.24	1.43	0.48	-172.95
6,333.00	0.81	342.50	6,328.04	112.63	7.49	92.43	0.35	-0.08	-23.36
6,424.00	0.79	346.84	6,419.04	113.86	7.16	93.65	0.07	-0.02	4.77
6,515.00	0.81	338.56	6,510.03	115.07	6.78	94.88	0.13	0.02	-9.10
6,605.00	0.48	324.15	6,600.02	115.97	6.33	95.88	0.41	-0.37	-16.01
6,696.00	0.32	325.61	6,691.02	116.49	5.96	96.51	0.18	-0.18	1.60
6,786.00	0.30	1.17	6,781.02	116.93	5.82	96.96	0.21	-0.02	39.51
6,877.00	0.05	225.52	6,872.02	117.14	5.80	97.16	0.37	-0.27	-149.07
6,968.00	0.36	172.26	6,963.02	116.83	5.81	96.89	0.37	0.34	-58.53
7,058.00	0.59	181.12	7,053.01	116.08	5.84	96.23	0.27	0.26	9.84
7,149.00	0.89	163.76	7,144.01	114.94	6.03	95.16	0.41	0.33	-19.08
7,240.00	0.64	146.02	7,235.00	113.84	6.51	93.97	0.38	-0.27	-19.49
7,330.00	0.69	355.46	7,325.00	113.96	6.75	93.95	1.43	0.06	-167.29
7,421.00	0.14	328.66	7,415.99	114.60	6.65	94.55	0.62	-0.60	-29.45
7,511.00	0.40	359.76	7,505.99	115.01	6.59	94.93	0.32	0.29	34.56
7,602.00	0.24	36.21	7,596.99	115.48	6.70	95.27	0.28	-0.18	40.05
7,692.00	0.29	13.11	7,686.99	115.86	6.86	95.51	0.13	0.06	-25.67
7,783.00	0.20	245.70	7,777.99	116.01	6.77	95.69	0.48	-0.10	-140.01
7,874.00	0.07	311.56	7,868.99	115.99	6.58	95.76	0.20	-0.14	72.37
7,964.00	0.34	290.98	7,958.99	116.12	6.29	96.03	0.31	0.30	-22.87
8,099.00	0.20	325.20	8,093.99	116.45	5.78	96.58	0.15	-0.10	25.35
8,190.00	0.22	315.95	8,184.99	116.71	5.57	96.91	0.04	0.02	-10.16
8,280.00	0.11	249.89	8,274.99	116.80	5.37	97.09	0.22	-0.12	-73.40
8,371.00	0.11	153.78	8,365.99	116.70	5.33	97.02	0.18	0.00	-105.62
8,462.00	0.44	178.82	8,456.98	116.27	5.37	96.63	0.38	0.36	27.52
8,552.00	0.45	180.17	8,546.98	115.57	5.38	96.03	0.02	0.01	1.50
8,643.00	0.48	174.15	8,637.98	114.83	5.42	95.38	0.06	0.03	-6.62
8,733.00	0.56	182.22	8,727.98	114.02	5.44	94.68	0.12	0.09	8.97
8,824.00	0.74	183.76	8,818.97	112.99	5.38	93.82	0.20	0.20	1.69
8,915.00	0.79	180.55	8,909.96	111.77	5.34	92.81	0.07	0.05	-3.53
9,005.00	0.76	177.70	8,999.95	110.56	5.36	91.76	0.05	-0.03	-3.17
9,096.00	0.62	185.10	9,090.95	109.46	5.34	90.83	0.18	-0.15	8.13
9,186.00	0.55	192.93	9,180.94	108.56	5.20	90.13	0.12	-0.08	8.70
9,277.00	0.74	193.62	9,271.94	107.56	4.96	89.40	0.21	0.21	0.76
9,413.00	0.69	185.78	9,407.93	105.89	4.67	88.13	0.08	-0.04	-5.76
9,504.00	0.67	183.66	9,498.92	104.82	4.58	87.25	0.04	-0.02	-2.33
9,594.00	1.04	185.20	9,588.91	103.48	4.47	86.16	0.41	0.41	1.71
9,685.00	1.41	163.17	9,679.89	101.58	4.72	84.41	0.65	0.41	-24.21

Company: Kerr McGee Oil and Gas Onshore LP
Project: Uintah County, UT UTM12
Site: NBU 920-14M Pad
Well: NBU 920-14M3AS
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well NBU 920-14M3AS
TVD Reference: GL 4812' & RKB 14' @ 4826.00ft (Ensign 145)
MD Reference: GL 4812' & RKB 14' @ 4826.00ft (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)
9,775.00	1.09	160.59	9,769.87	99.72	5.33	82.50	0.36	-0.36	-2.87
9,866.00	1.04	144.26	9,860.85	98.23	6.10	80.83	0.34	-0.05	-17.95
9,957.00	0.82	105.80	9,951.84	97.38	7.21	79.53	0.71	-0.24	-42.26
10,047.00	1.15	120.57	10,041.83	96.75	8.60	78.27	0.46	0.37	16.41
10,138.00	1.12	102.59	10,132.81	96.09	10.26	76.85	0.39	-0.03	-19.76
10,228.00	1.28	108.94	10,222.79	95.57	12.07	75.47	0.23	0.18	7.06
10,319.00	0.91	58.60	10,313.77	95.62	13.65	74.69	1.09	-0.41	-55.32
10,410.00	1.02	18.74	10,404.76	96.76	14.52	75.21	0.73	0.12	-43.80
10,500.00	1.18	22.38	10,494.75	98.38	15.13	76.27	0.19	0.18	4.04
10,591.00	1.32	25.36	10,585.72	100.19	15.94	77.41	0.17	0.15	3.27
10,681.00	1.11	23.61	10,675.70	101.93	16.73	78.48	0.24	-0.23	-1.94
10,685.00	0.77	42.63	10,679.70	101.98	16.77	78.51	11.43	-8.50	475.50
Last SDI Production MWD Survey									
10,738.00	0.77	42.63	10,732.70	102.51	17.25	78.71	0.00	0.00	0.00
Projection To TD									

Targets
Target Name

- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- Shape									
NBU 920-14M3AS PBHI	0.00	0.00	10,677.00	101.67	1.32	14,539,772.62	2,020,961.26	40° 1' 47.015 N	109° 38' 26.260 W
- actual wellpath misses target center by 15.42ft at 10682.16ft MD (10676.87 TVD, 101.95 N, 16.74 E)									
- Circle (radius 25.00)									
NBU 920-14M3AS Top	0.00	0.00	3,794.00	116.67	1.32	14,539,787.62	2,020,961.03	40° 1' 47.163 N	109° 38' 26.260 W
- actual wellpath misses target center by 3.39ft at 3798.81ft MD (3794.06 TVD, 116.13 N, -2.02 E)									
- Point									

Design Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
99.00	99.00	-0.07	0.15	First SDI Surface MWD Survey
2,699.00	2,696.09	88.07	-52.19	Last SDI Surface MWD Survey
2,803.00	2,800.06	87.73	-50.32	First SDI Production MWD Survey
10,685.00	10,679.70	101.98	16.77	Last SDI Production MWD Survey
10,738.00	10,732.70	102.51	17.25	Projection To TD

Checked By: _____ Approved By: _____ Date: _____



Kerr McGee Oil and Gas Onshore LP

**Uintah County, UT UTM12
NBU 920-14M Pad
NBU 920-14M3AS
OH**

Design: OH

Survey Report - Geographic

03 June, 2010





Scientific Drilling International
Survey Report - Geographic



Company: Kerr McGee Oil and Gas Onshore LP
Project: Uintah County, UT UTM12
Site: NBU 920-14M Pad
Well: NBU 920-14M3AS
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well NBU 920-14M3AS
TVD Reference: GL 4812' & RKB 14' @ 4826.00ft (Ensign 145)
MD Reference: GL 4812' & RKB 14' @ 4826.00ft (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 920-14M Pad, Sec 14 T9S R20E		
Site Position:		Northing:	14,539,718.00 ft
From:	Lat/Long	Easting:	2,020,941.95 ft
Position Uncertainty:	0.00 ft	Slot Radius:	in
		Latitude:	40° 1' 46.478 N
		Longitude:	109° 38' 26.519 W
		Grid Convergence:	0.87 °

Well	NBU 920-14M3AS, 488' FSL & 633' FWL		
Well Position	+N/-S	0.00 ft	Northing: 14,539,670.94 ft
	+E/-W	0.00 ft	Easting: 2,020,961.49 ft
Position Uncertainty	0.00 ft	Wellhead Elevation:	ft
		Latitude:	40° 1' 46.010 N
		Longitude:	109° 38' 26.277 W
		Ground Level:	4,812.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2005-10	2009/12/31	11.31	65.91	52,502

Design	OH			
Audit Notes:				
Version:	1.0	Phase:	ACTUAL	Tie On Depth: 10.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	10.00	0.00	0.00	328.77

Survey Program	Date	2010/06/03		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
99.00	2,699.00	Survey #1 - Surface MWD (OH)	MWD SDI	MWD - Standard ver 1.0.1
2,803.00	10,738.00	Survey #2 - Production MWD (OH)	MWD SDI	MWD - Standard ver 1.0.1

Company: Kerr McGee Oil and Gas Onshore LP
Project: Uintah County, UT UTM12
Site: NBU 920-14M Pad
Well: NBU 920-14M3AS
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well NBU 920-14M3AS
TVD Reference: GL 4812' & RKB 14' @ 4826.00ft (Ensign 145)
MD Reference: GL 4812' & RKB 14' @ 4826.00ft (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)	Map Northing (ft)	Map Easting (ft)	Latitude	Longitude
10.00	0.00	0.00	10.00	0.00	0.00	14,539,670.94	2,020,961.49	40° 1' 46.010 N	109° 38' 26.277 W
99.00	0.21	114.13	99.00	-0.07	0.15	14,539,670.88	2,020,961.64	40° 1' 46.009 N	109° 38' 26.275 W
First SDI Surface MWD Survey									
128.00	0.32	99.20	128.00	-0.10	0.28	14,539,670.85	2,020,961.77	40° 1' 46.009 N	109° 38' 26.273 W
157.00	0.12	38.06	157.00	-0.09	0.38	14,539,670.86	2,020,961.87	40° 1' 46.009 N	109° 38' 26.272 W
188.00	0.29	336.28	188.00	0.01	0.36	14,539,670.96	2,020,961.85	40° 1' 46.010 N	109° 38' 26.272 W
218.00	0.72	334.08	218.00	0.25	0.25	14,539,671.19	2,020,961.74	40° 1' 46.012 N	109° 38' 26.274 W
245.00	0.98	343.52	244.99	0.62	0.11	14,539,671.57	2,020,961.59	40° 1' 46.016 N	109° 38' 26.276 W
274.00	1.36	339.73	273.99	1.18	-0.08	14,539,672.12	2,020,961.39	40° 1' 46.022 N	109° 38' 26.278 W
304.00	1.85	336.31	303.98	1.96	-0.40	14,539,672.90	2,020,961.07	40° 1' 46.029 N	109° 38' 26.282 W
333.00	2.08	335.43	332.96	2.87	-0.80	14,539,673.80	2,020,960.64	40° 1' 46.038 N	109° 38' 26.287 W
362.00	2.57	327.79	361.94	3.89	-1.37	14,539,674.82	2,020,960.06	40° 1' 46.048 N	109° 38' 26.295 W
390.00	2.87	327.16	389.90	5.01	-2.08	14,539,675.93	2,020,959.33	40° 1' 46.060 N	109° 38' 26.304 W
420.00	3.09	324.52	419.86	6.30	-2.96	14,539,677.20	2,020,958.44	40° 1' 46.072 N	109° 38' 26.315 W
450.00	3.15	320.61	449.82	7.60	-3.95	14,539,678.48	2,020,957.42	40° 1' 46.085 N	109° 38' 26.328 W
479.00	3.22	318.39	478.77	8.82	-5.00	14,539,679.69	2,020,956.36	40° 1' 46.097 N	109° 38' 26.341 W
509.00	3.22	316.38	508.73	10.06	-6.14	14,539,680.91	2,020,955.20	40° 1' 46.109 N	109° 38' 26.356 W
599.00	3.30	313.68	598.58	13.68	-9.76	14,539,684.48	2,020,951.53	40° 1' 46.145 N	109° 38' 26.402 W
689.00	3.12	310.60	688.44	17.07	-13.49	14,539,687.80	2,020,947.74	40° 1' 46.179 N	109° 38' 26.450 W
779.00	3.82	291.70	778.28	19.77	-18.13	14,539,690.43	2,020,943.06	40° 1' 46.205 N	109° 38' 26.510 W
869.00	4.04	292.34	868.07	22.08	-23.85	14,539,692.66	2,020,937.30	40° 1' 46.228 N	109° 38' 26.584 W
959.00	2.91	315.80	957.90	24.92	-28.38	14,539,695.43	2,020,932.74	40° 1' 46.256 N	109° 38' 26.642 W
1,049.00	3.10	317.66	1,047.78	28.36	-31.61	14,539,698.82	2,020,929.45	40° 1' 46.290 N	109° 38' 26.683 W
1,139.00	2.93	338.22	1,137.66	32.30	-34.10	14,539,702.72	2,020,926.90	40° 1' 46.329 N	109° 38' 26.715 W
1,229.00	3.40	347.11	1,227.52	37.03	-35.55	14,539,707.43	2,020,925.38	40° 1' 46.376 N	109° 38' 26.734 W
1,319.00	3.60	339.14	1,317.35	42.28	-37.15	14,539,712.65	2,020,923.70	40° 1' 46.428 N	109° 38' 26.755 W
1,409.00	3.01	328.43	1,407.20	46.93	-39.40	14,539,717.27	2,020,921.38	40° 1' 46.474 N	109° 38' 26.784 W
1,499.00	3.21	319.71	1,497.07	50.86	-42.26	14,539,721.16	2,020,918.46	40° 1' 46.513 N	109° 38' 26.820 W
1,589.00	2.96	321.01	1,586.94	54.59	-45.35	14,539,724.84	2,020,915.31	40° 1' 46.550 N	109° 38' 26.860 W
1,679.00	2.79	314.29	1,676.83	57.93	-48.38	14,539,728.13	2,020,912.23	40° 1' 46.583 N	109° 38' 26.899 W
1,769.00	2.80	314.92	1,766.72	61.01	-51.51	14,539,731.16	2,020,909.06	40° 1' 46.613 N	109° 38' 26.939 W
1,859.00	2.35	327.61	1,856.63	64.12	-54.05	14,539,734.23	2,020,906.46	40° 1' 46.644 N	109° 38' 26.972 W
1,949.00	2.43	319.90	1,946.55	67.14	-56.27	14,539,737.22	2,020,904.20	40° 1' 46.674 N	109° 38' 27.001 W
2,039.00	2.19	313.14	2,036.48	69.77	-58.75	14,539,739.81	2,020,901.68	40° 1' 46.700 N	109° 38' 27.032 W
2,129.00	1.93	322.52	2,126.42	72.15	-60.93	14,539,742.16	2,020,899.47	40° 1' 46.723 N	109° 38' 27.060 W
2,219.00	1.98	348.26	2,216.37	74.88	-62.17	14,539,744.86	2,020,898.19	40° 1' 46.750 N	109° 38' 27.076 W
2,309.00	1.81	15.50	2,306.32	77.77	-62.11	14,539,747.76	2,020,898.20	40° 1' 46.779 N	109° 38' 27.076 W
2,399.00	2.15	39.20	2,396.27	80.45	-60.66	14,539,750.46	2,020,899.61	40° 1' 46.805 N	109° 38' 27.057 W
2,489.00	2.14	57.84	2,486.21	82.65	-58.17	14,539,752.70	2,020,902.07	40° 1' 46.827 N	109° 38' 27.025 W
2,579.00	2.04	63.73	2,576.15	84.25	-55.31	14,539,754.34	2,020,904.90	40° 1' 46.843 N	109° 38' 26.988 W
2,669.00	1.54	57.31	2,666.11	85.62	-52.86	14,539,755.74	2,020,907.33	40° 1' 46.856 N	109° 38' 26.957 W
2,699.00	1.55	54.04	2,696.09	86.07	-52.19	14,539,756.21	2,020,907.99	40° 1' 46.861 N	109° 38' 26.948 W
Last SDI Surface MWD Survey									
2,803.00	1.22	41.12	2,800.06	87.73	-50.32	14,539,757.90	2,020,909.83	40° 1' 46.877 N	109° 38' 26.924 W
First SDI Production MWD Survey									
2,893.00	1.81	80.32	2,890.04	88.69	-48.29	14,539,758.89	2,020,911.85	40° 1' 46.887 N	109° 38' 26.898 W
2,984.00	3.20	68.35	2,980.95	89.87	-44.51	14,539,760.13	2,020,915.61	40° 1' 46.898 N	109° 38' 26.849 W
3,075.00	3.98	67.59	3,071.77	92.01	-39.23	14,539,762.35	2,020,920.86	40° 1' 46.920 N	109° 38' 26.781 W
3,165.00	5.64	61.80	3,161.45	95.29	-32.45	14,539,765.73	2,020,927.59	40° 1' 46.952 N	109° 38' 26.694 W
3,256.00	4.68	47.38	3,252.08	99.92	-25.77	14,539,770.46	2,020,934.19	40° 1' 46.998 N	109° 38' 26.608 W
3,346.00	3.91	46.16	3,341.83	104.53	-20.86	14,539,775.15	2,020,939.04	40° 1' 47.043 N	109° 38' 26.545 W
3,437.00	3.59	65.63	3,432.64	107.86	-16.03	14,539,778.54	2,020,943.82	40° 1' 47.076 N	109° 38' 26.483 W
3,528.00	2.86	65.80	3,523.49	109.96	-11.36	14,539,780.72	2,020,948.45	40° 1' 47.097 N	109° 38' 26.423 W
3,615.00	2.83	53.08	3,610.39	112.14	-7.66	14,539,782.96	2,020,952.12	40° 1' 47.119 N	109° 38' 26.376 W
3,706.00	2.39	52.38	3,701.29	114.65	-4.36	14,539,785.51	2,020,955.38	40° 1' 47.143 N	109° 38' 26.333 W

Company: Kerr McGee Oil and Gas Onshore LP
Project: Uintah County, UT UTM12
Site: NBU 920-14M Pad
Well: NBU 920-14M3AS
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well NBU 920-14M3AS
TVD Reference: GL 4812' & RKB 14' @ 4826.00ft (Ensign 145)
MD Reference: GL 4812' & RKB 14' @ 4826.00ft (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)	Map Northing (ft)	Map Easting (ft)	Latitude	Longitude	
3,796.00	1.10	68.59	3,791.25	116.11	-2.07	14,539,787.01	2,020,957.64	40° 1' 47.158 N	109° 38' 26.304 W	
3,887.00	0.99	69.32	3,882.23	116.71	-0.53	14,539,787.63	2,020,959.18	40° 1' 47.164 N	109° 38' 26.284 W	
3,978.00	0.87	82.75	3,973.22	117.07	0.90	14,539,788.02	2,020,960.60	40° 1' 47.167 N	109° 38' 26.265 W	
4,068.00	0.63	83.44	4,063.21	117.22	2.06	14,539,788.18	2,020,961.77	40° 1' 47.169 N	109° 38' 26.250 W	
4,159.00	0.67	114.33	4,154.21	117.05	3.05	14,539,788.03	2,020,962.75	40° 1' 47.167 N	109° 38' 26.238 W	
4,250.00	0.68	132.09	4,245.20	116.47	3.93	14,539,787.46	2,020,963.64	40° 1' 47.161 N	109° 38' 26.226 W	
4,340.00	0.62	141.84	4,335.20	115.73	4.63	14,539,786.73	2,020,964.35	40° 1' 47.154 N	109° 38' 26.217 W	
4,431.00	1.95	106.39	4,426.17	114.91	6.42	14,539,785.94	2,020,966.16	40° 1' 47.146 N	109° 38' 26.194 W	
4,521.00	1.38	148.63	4,516.14	113.55	8.45	14,539,784.61	2,020,968.21	40° 1' 47.132 N	109° 38' 26.168 W	
4,612.00	0.20	285.66	4,607.13	112.66	8.87	14,539,783.72	2,020,968.64	40° 1' 47.124 N	109° 38' 26.163 W	
4,703.00	0.34	210.42	4,698.13	112.47	8.58	14,539,783.53	2,020,968.35	40° 1' 47.122 N	109° 38' 26.167 W	
4,793.00	0.69	158.95	4,788.12	111.73	8.64	14,539,782.79	2,020,968.42	40° 1' 47.114 N	109° 38' 26.166 W	
4,884.00	0.80	310.59	4,879.12	111.63	8.35	14,539,782.69	2,020,968.14	40° 1' 47.113 N	109° 38' 26.170 W	
4,974.00	1.20	337.98	4,969.11	112.92	7.52	14,539,783.96	2,020,967.29	40° 1' 47.126 N	109° 38' 26.180 W	
5,065.00	0.76	325.43	5,060.09	114.30	6.82	14,539,785.33	2,020,966.57	40° 1' 47.140 N	109° 38' 26.189 W	
5,156.00	0.65	310.00	5,151.09	115.12	6.09	14,539,786.15	2,020,965.82	40° 1' 47.148 N	109° 38' 26.199 W	
5,246.00	0.34	299.40	5,241.08	115.58	5.46	14,539,786.60	2,020,965.19	40° 1' 47.153 N	109° 38' 26.207 W	
5,337.00	0.38	31.20	5,332.08	115.97	5.38	14,539,786.99	2,020,965.10	40° 1' 47.156 N	109° 38' 26.208 W	
5,427.00	0.17	102.75	5,422.08	116.20	5.67	14,539,787.22	2,020,965.38	40° 1' 47.159 N	109° 38' 26.204 W	
5,518.00	0.17	124.48	5,513.08	116.09	5.91	14,539,787.11	2,020,965.63	40° 1' 47.158 N	109° 38' 26.201 W	
5,609.00	0.39	162.18	5,604.08	115.72	6.12	14,539,786.75	2,020,965.84	40° 1' 47.154 N	109° 38' 26.198 W	
5,699.00	0.46	176.11	5,694.08	115.07	6.24	14,539,786.10	2,020,965.97	40° 1' 47.147 N	109° 38' 26.197 W	
5,790.00	0.66	164.50	5,785.07	114.20	6.40	14,539,785.23	2,020,966.15	40° 1' 47.139 N	109° 38' 26.195 W	
5,880.00	0.41	177.67	5,875.07	113.38	6.55	14,539,784.41	2,020,966.31	40° 1' 47.131 N	109° 38' 26.193 W	
5,971.00	0.59	165.81	5,966.07	112.60	6.68	14,539,783.63	2,020,966.45	40° 1' 47.123 N	109° 38' 26.191 W	
6,062.00	0.65	145.71	6,057.06	111.72	7.09	14,539,782.76	2,020,966.87	40° 1' 47.114 N	109° 38' 26.186 W	
6,152.00	0.44	160.90	6,147.06	110.97	7.49	14,539,782.02	2,020,967.28	40° 1' 47.107 N	109° 38' 26.181 W	
6,243.00	0.88	3.52	6,238.05	111.34	7.64	14,539,782.39	2,020,967.43	40° 1' 47.111 N	109° 38' 26.179 W	
6,333.00	0.81	342.50	6,328.04	112.63	7.49	14,539,783.68	2,020,967.27	40° 1' 47.123 N	109° 38' 26.181 W	
6,424.00	0.79	346.84	6,419.04	113.86	7.16	14,539,784.90	2,020,966.91	40° 1' 47.135 N	109° 38' 26.185 W	
6,515.00	0.81	338.56	6,510.03	115.07	6.78	14,539,786.10	2,020,966.51	40° 1' 47.147 N	109° 38' 26.190 W	
6,605.00	0.48	324.15	6,600.02	115.97	6.33	14,539,786.99	2,020,966.05	40° 1' 47.156 N	109° 38' 26.196 W	
6,696.00	0.32	325.61	6,691.02	116.49	5.96	14,539,787.51	2,020,965.67	40° 1' 47.161 N	109° 38' 26.200 W	
6,786.00	0.30	1.17	6,781.02	116.93	5.82	14,539,787.95	2,020,965.53	40° 1' 47.166 N	109° 38' 26.202 W	
6,877.00	0.05	225.52	6,872.02	117.14	5.80	14,539,788.16	2,020,965.50	40° 1' 47.168 N	109° 38' 26.202 W	
6,968.00	0.36	172.26	6,963.02	116.83	5.81	14,539,787.85	2,020,965.52	40° 1' 47.165 N	109° 38' 26.202 W	
7,058.00	0.59	181.12	7,053.01	116.08	5.84	14,539,787.10	2,020,965.56	40° 1' 47.157 N	109° 38' 26.202 W	
7,149.00	0.89	163.76	7,144.01	114.94	6.03	14,539,785.96	2,020,965.76	40° 1' 47.146 N	109° 38' 26.200 W	
7,240.00	0.64	146.02	7,235.00	113.84	6.51	14,539,784.87	2,020,966.26	40° 1' 47.135 N	109° 38' 26.193 W	
7,330.00	0.69	355.46	7,325.00	113.96	6.75	14,539,784.99	2,020,966.50	40° 1' 47.136 N	109° 38' 26.190 W	
7,421.00	0.14	328.66	7,415.99	114.60	6.65	14,539,785.63	2,020,966.39	40° 1' 47.143 N	109° 38' 26.192 W	
7,511.00	0.40	359.76	7,505.99	115.01	6.59	14,539,786.04	2,020,966.32	40° 1' 47.147 N	109° 38' 26.192 W	
7,602.00	0.24	36.21	7,596.99	115.48	6.70	14,539,786.51	2,020,966.43	40° 1' 47.152 N	109° 38' 26.191 W	
7,692.00	0.29	13.11	7,686.99	115.86	6.86	14,539,786.89	2,020,966.58	40° 1' 47.155 N	109° 38' 26.189 W	
7,783.00	0.20	245.70	7,777.99	116.01	6.77	14,539,787.05	2,020,966.49	40° 1' 47.157 N	109° 38' 26.190 W	
7,874.00	0.07	311.56	7,868.99	115.99	6.58	14,539,787.02	2,020,966.30	40° 1' 47.156 N	109° 38' 26.192 W	
7,964.00	0.34	290.98	7,958.99	116.12	6.29	14,539,787.14	2,020,966.01	40° 1' 47.158 N	109° 38' 26.196 W	
8,099.00	0.20	325.20	8,093.99	116.45	5.78	14,539,787.47	2,020,965.50	40° 1' 47.161 N	109° 38' 26.203 W	
8,190.00	0.22	315.95	8,184.99	116.71	5.57	14,539,787.73	2,020,965.28	40° 1' 47.164 N	109° 38' 26.205 W	
8,280.00	0.11	249.89	8,274.99	116.80	5.37	14,539,787.82	2,020,965.08	40° 1' 47.165 N	109° 38' 26.208 W	
8,371.00	0.11	153.78	8,365.99	116.70	5.33	14,539,787.71	2,020,965.04	40° 1' 47.164 N	109° 38' 26.209 W	
8,462.00	0.44	178.82	8,456.98	116.27	5.37	14,539,787.28	2,020,965.09	40° 1' 47.159 N	109° 38' 26.208 W	
8,552.00	0.45	180.17	8,546.98	115.57	5.38	14,539,786.58	2,020,965.11	40° 1' 47.152 N	109° 38' 26.208 W	
8,643.00	0.48	174.15	8,637.98	114.83	5.42	14,539,785.85	2,020,965.15	40° 1' 47.145 N	109° 38' 26.207 W	
8,733.00	0.56	182.22	8,727.98	114.02	5.44	14,539,785.03	2,020,965.19	40° 1' 47.137 N	109° 38' 26.207 W	

Company: Kerr McGee Oil and Gas Onshore LP
Project: Uintah County, UT UTM12
Site: NBU 920-14M Pad
Well: NBU 920-14M3AS
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well NBU 920-14M3AS
TVD Reference: GL 4812' & RKB 14' @ 4826.00ft (Ensign 145)
MD Reference: GL 4812' & RKB 14' @ 4826.00ft (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)	Map Northing (ft)	Map Easting (ft)	Latitude	Longitude
8,824.00	0.74	183.76	8,818.97	112.99	5.38	14,539,784.00	2,020,965.15	40° 1' 47.127 N	109° 38' 26.208 W
8,915.00	0.79	180.55	8,909.96	111.77	5.34	14,539,782.79	2,020,965.12	40° 1' 47.115 N	109° 38' 26.208 W
9,005.00	0.76	177.70	8,999.95	110.56	5.36	14,539,781.57	2,020,965.16	40° 1' 47.103 N	109° 38' 26.208 W
9,096.00	0.62	185.10	9,090.95	109.46	5.34	14,539,780.48	2,020,965.16	40° 1' 47.092 N	109° 38' 26.208 W
9,186.00	0.55	192.93	9,180.94	108.56	5.20	14,539,779.57	2,020,965.03	40° 1' 47.083 N	109° 38' 26.210 W
9,277.00	0.74	193.62	9,271.94	107.56	4.96	14,539,778.57	2,020,964.81	40° 1' 47.073 N	109° 38' 26.213 W
9,413.00	0.69	185.78	9,407.93	105.89	4.67	14,539,776.90	2,020,964.54	40° 1' 47.057 N	109° 38' 26.217 W
9,504.00	0.67	183.66	9,498.92	104.82	4.58	14,539,775.82	2,020,964.47	40° 1' 47.046 N	109° 38' 26.218 W
9,594.00	1.04	185.20	9,588.91	103.48	4.47	14,539,774.48	2,020,964.39	40° 1' 47.033 N	109° 38' 26.219 W
9,685.00	1.41	163.17	9,679.89	101.58	4.72	14,539,772.59	2,020,964.66	40° 1' 47.014 N	109° 38' 26.216 W
9,775.00	1.09	160.59	9,769.87	99.72	5.33	14,539,770.73	2,020,965.30	40° 1' 46.996 N	109° 38' 26.208 W
9,866.00	1.04	144.26	9,860.85	98.23	6.10	14,539,769.26	2,020,966.09	40° 1' 46.981 N	109° 38' 26.199 W
9,957.00	0.82	105.80	9,951.84	97.38	7.21	14,539,768.43	2,020,967.21	40° 1' 46.973 N	109° 38' 26.184 W
10,047.00	1.15	120.57	10,041.83	96.75	8.60	14,539,767.81	2,020,968.62	40° 1' 46.966 N	109° 38' 26.166 W
10,138.00	1.12	102.59	10,132.81	96.09	10.26	14,539,767.18	2,020,970.28	40° 1' 46.960 N	109° 38' 26.145 W
10,228.00	1.28	108.94	10,222.79	95.57	12.07	14,539,766.69	2,020,972.10	40° 1' 46.955 N	109° 38' 26.122 W
10,319.00	0.91	58.60	10,313.77	95.62	13.85	14,539,766.76	2,020,973.68	40° 1' 46.955 N	109° 38' 26.102 W
10,410.00	1.02	18.74	10,404.76	96.76	14.52	14,539,767.92	2,020,974.54	40° 1' 46.966 N	109° 38' 26.090 W
10,500.00	1.18	22.38	10,494.75	98.38	15.13	14,539,769.54	2,020,975.12	40° 1' 46.982 N	109° 38' 26.082 W
10,591.00	1.32	25.36	10,585.72	100.19	15.94	14,539,771.37	2,020,975.90	40° 1' 47.000 N	109° 38' 26.072 W
10,681.00	1.11	23.61	10,675.70	101.93	16.73	14,539,773.11	2,020,976.67	40° 1' 47.018 N	109° 38' 26.062 W
10,685.00	0.77	42.63	10,679.70	101.98	16.77	14,539,773.17	2,020,976.70	40° 1' 47.018 N	109° 38' 26.061 W
Last SDI Production MWD Survey									
10,738.00	0.77	42.63	10,732.70	102.51	17.25	14,539,773.70	2,020,977.17	40° 1' 47.023 N	109° 38' 26.055 W

Projection To TD

Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
NBU 920-14M3AS PBHI	0.00	0.00	10,677.00	101.67	1.32	14,539,772.62	2,020,961.26	40° 1' 47.015 N	109° 38' 26.260 W
- hit/miss target									
- Shape									
- actual wellpath misses target center by 15.42ft at 10682.16ft MD (10676.87 TVD, 101.95 N, 16.74 E)									
- Circle (radius 25.00)									
NBU 920-14M3AS Top	0.00	0.00	3,794.00	116.67	1.32	14,539,787.62	2,020,961.03	40° 1' 47.163 N	109° 38' 26.260 W
- actual wellpath misses target center by 3.39ft at 3798.81ft MD (3794.06 TVD, 116.13 N, -2.02 E)									
- Point									

Design Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
99.00	99.00	-0.07	0.15	First SDI Surface MWD Survey
2,699.00	2,696.09	86.07	-52.19	Last SDI Surface MWD Survey
2,803.00	2,800.06	87.73	-50.32	First SDI Production MWD Survey
10,685.00	10,679.70	101.98	16.77	Last SDI Production MWD Survey
10,738.00	10,732.70	102.51	17.25	Projection To TD

Checked By: _____ Approved By: _____ Date: _____

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: UTU 0577A
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute Tr
1. TYPE OF WELL Gas Well	7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	8. WELL NAME and NUMBER: NBU 920-14M3AS
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	9. API NUMBER: 43047505270000
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0488 FSL 0633 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSW Section: 14 Township: 09.0S Range: 20.0E 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: 3/9/2011 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input checked="" type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>

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

The operator requests approval to conduct wellhead/casing repair operations on the subject well location. Please find the attached procedures for the proposed repair work on the subject well location.

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

Date: 03/10/2011
By: *Derek Quist*

NAME (PLEASE PRINT) Gina Becker	PHONE NUMBER 720 929-6086	TITLE Regulatory Analyst II
SIGNATURE N/A		DATE 3/9/2011

WORKORDER #: 88118797

Name: NBU 920-14M3AS- 920-14M PAD 3/8/11
Surface Location: SWSW SEC.14 T9S, R20E
Uintah County, UT

API: 4304750527 LEASE#: UTU-0577A

ELEVATIONS: 4812' GL 4825' KB

TOTAL DEPTH: 10,738' PBD: 10,681'

SURFACE CASING: 9 5/8", 36# J-55 @ 2711'

PRODUCTION CASING: 4 1/2", 11.6#, I-80 @ 10,724'
TOC @ Surface per CBL

PERFORATIONS: Mesaverde 8660' - 10,560'

Tubular/Borehole	Drift inches	Collapse psi	Burst psi	Capacities		
				Gal./ft.	Cuft/ft.	Bbl./ft.
2.375" 4.7# J-55 tbg.	1.901	8100	7700	0.1624	0.02173	0.00387
4.5" 11.6# I-80	3.875	6350	7780	0.6528	0.0872	0.01554
9.625" 36# J-55	8.921	2020	3520	3.247	0.434	0.0773
Annular Capacities						
2.375" tbg. X 4 1/2" 11.6# csg				0.4227	0.0565	0.01006

GEOLOGICAL TOPS:

- 1751' Green River
- 1875' Bird's Nest
- 2494' Mahogany
- 5165' Wasatch
- 8426' Mesaverde

NBU 920-14M3AS - WELLHEAD REPLACEMENT PROCEDURE

PREP-WORK PRIOR TO MIRU:

1. Dig out down to the 2" surface casing valve or to the valve on the riser off the surface casing.
2. Install a tee with 2 valves, with a pressure gauge and sensor on one valve.
3. Open casing valve and record pressures.
4. Install nipple and steel hose on the other valve, the relief valve,. Do not use hammer unions. No impact equipment or tools to be used for any of this installation. Extend hose and hard piping to a downwind location at least 100' from the wellhead. Consider installing a manifold so that vent area could be in two locations approx. 90 degrees apart from the wellhead.
5. Open the relief valve and blow well down to the atmosphere.
6. Make a determination of amount of gas flow, either by installation of a choke nipple, bucket test or other.
7. Shut well in. Observe for rate of build-up by utilizing sensor data. Do not build-up for more than 24 hours. Vent gas through the vent line and leave open to the atmosphere.

WORKOVER PROCEDURE:

1. MIRU workover rig.
2. Kill well with 10# brine / KCL (dictated by well pressure).
3. Remove tree, install double BOP with blind and 2 3/8" pipe rams, with accumulator closing unit and manual back-ups. Function test BOP system.
4. Pooh w/ tubing.
5. Rig up wireline service. RIH and set CBP @ ~8610'. Dump bail 4 sx cement on top of plug. POOH and RD wireline service.
6. Remove BOP and ND WH.
7. Depending on conditions at wellsite, continue with either CUT/PATCH Procedure or BACK-OFF Procedure.

CUT/PATCH PROCEDURE:

1. PU internal casing cutters and RIH. Cut casing at +/- 30' from surface.
2. POOH, LD cutters and casing.
3. PU 1 joint of 3 ½" IF drill pipe with 4 ½" right hand standard grapple overshot. Pull a minimum of 10,000# to keep grapple engaged if cement top is high (<~900'). If cement top is low (>~900'), more weight will be required to put casing in neutral. Torque casing string to +/- 7000 ft-lbs, count number of turns to make-up, and document in the daily report. Release overshot, POOH, and lay down.
4. PU & RIH w/ 4 ½" 10k external casing patch on 4 ½" I-80 or P-110 casing.
5. Latch fish, PU to 100,000# tension. RU B&C. Cycle pressure test to 7,000# / 9,000# psi.
6. Install C-22 slips. Land casing w/ 80,000# tension.
7. Cut-off and dress 4 ½" casing stub.
8. NUWH. PU 3 7/8" bit, POBS and RIH. D/O cement and plug ~8560'. Clean out to PBTD (10,681').
9. POOH, land tbg and pump off POBS.
10. NUWH, RDMO. Turn well over to production ops.

BACK-OFF PROCEDURE:

1. PU internal casing cutters and RIH. Cut casing at +/- 6' from surface.
2. POOH, LD cutters and casing.
3. PU 4 ½" overshot. RIH, latch fish. Pick string weight to neutral.
4. MIRU wireline services. RIH and shoot string shot at casing collar @ 46'.
5. MIRU casing crew.
6. Back-off casing, POOH.
7. PU new casing joint w/ entry guide and RIH. Tag casing top. Thread into casing and torque up to +/- 7000 ft-lbs, count number of additional turns to make-up, and document in the daily report.
8. PU 100,000# tension string weight. RU B&C. Cycle pressure test to 7,000# / 9,000# psi.
9. Install C-22 slips. Land casing w/ 80,000# tension.

10. Cut-off and dress 4 1/2" casing stub.
11. NUWH. PU 3 7/8" bit, POBS and RIH. D/O cement and plug ~8560'. Clean out to PBTB (10,681').
12. POOH, land tbg and pump off POBS.
13. NUWH, RDMO. Turn well over to production ops.



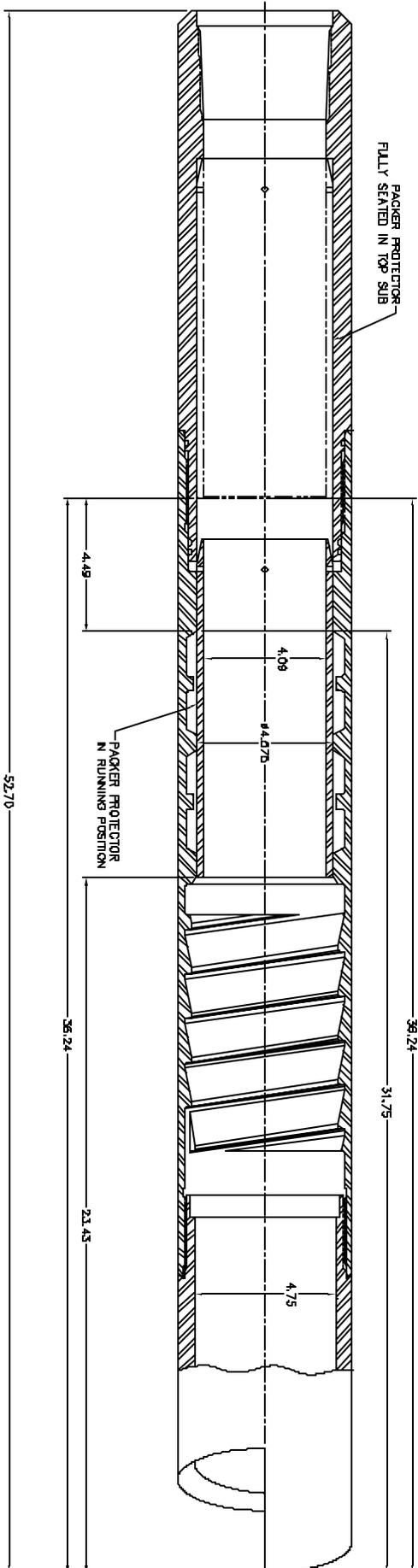
Logan High Pressure Casing Patches Assembly Procedure

All parts should be thoroughly greased before being assembled.

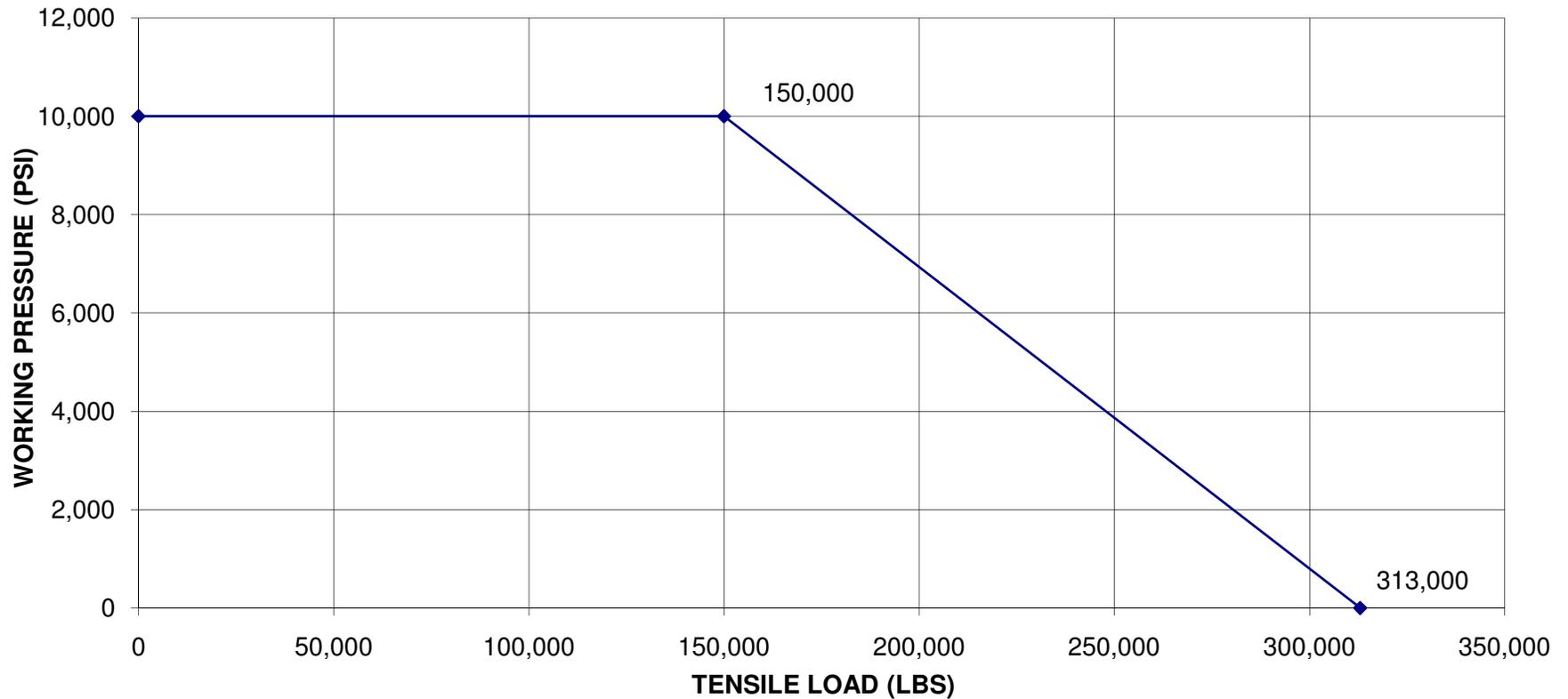
1. Install all four Logan Type “L” Packers in the spaces provided in the Casing Patch Bowl. Refer to diagram provided for proper installation.
2. Install Packer Protector from the Basket Grapple end of the Bowl. The beveled end of the Packer Protector goes in first. Carefully push the Packer Protector through the four Type “L” Packers.
3. Align Shear Pin Holes in Packer Protector so that the holes have just passed into the counter bore at the Top Sub end, refer to diagram. The Packer Protector is provided with four Shear Pin Holes. Use only two holes, 180 degrees apart and install the pins.
4. Screw the Basket Grapple in from the lower end of the Bowl, using left-hand rotation. The Tang Slot in the Basket Grapple must land in line with the slot in the Bowl.
5. Insert the Basket Grapple Control into the end of the Bowl. Align Tang on the Basket Grapple Control with the Tang Slot of the Bowl and Basket Grapple. This secures the Bowl and the Basket Grapple together.
6. Install the Cutlipped Guide into the lower end of the Bowl.
7. Install O-Rings on the two five-foot long Extensions. Screw the first Extension into the top end of the Bowl. Screw the second Extension into the top end of the first Extension.
8. Install O-Ring on Top Sub. Screw Top Sub into top end of second Extension.

Follow recommended Make-Up Torque as provided in chart.

510L-005-001 4-1/2" LOGAN HP CASING PATCH



**STRENGTH DATA FOR LOGAN 5.88" OD "L" TYPE CSG PATCH
4-1/2 CASING, 10K PSI MAX WP 125K YIELD MAT'L
LOGAN ASSEMBLY NO. 510L-005 -000**



COLLAPSE PRESSURE:
11,222 PSI @ 0 TENSILE
8,634 PSI @ 220K TENSILE

Tensile Strength @ Yield:
Tensile Strength w/ 0 Int. Press.= 472,791lbs.
Tensile Strength w/ 10K Int. Press.= 313,748lbs.

DATA BY SLS 11/16/2009

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU 0577A
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE
		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
1. TYPE OF WELL Gas Well		8. WELL NAME and NUMBER: NBU 920-14M3AS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		9. API NUMBER: 43047505270000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0488 FSL 0633 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSW Section: 14 Township: 09.0S Range: 20.0E Meridian: S		COUNTY: Uintah
		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> WILDCAT WELL DETERMINATION <input type="checkbox"/> OTHER	
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 11/21/2011	<input checked="" type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> OTHER: <input style="width: 100px;" type="text"/>	
<input type="checkbox"/> DRILLING REPORT Report Date:		
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.		
The operator has concluded the wellhead/casing repairs on the subject well location. Please see that attached chronological history for details of the operations.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY July 18, 2012		
NAME (PLEASE PRINT) Jaime Scharnowske	PHONE NUMBER 720 929-6304	TITLE Regularatory Analyst
SIGNATURE N/A		DATE 7/17/2012

US ROCKIES REGION
Operation Summary Report

US ROCKIES REGION								
Operation Summary Report								
Well: NBU 920-14M3AS [RED]			Spud Conductor: 3/24/2010			Spud Date: 3/30/2010		
Project: UTAH-UINTAH			Site: NBU 920-14M PAD			Rig Name No: LEED 698/698		
Event: WELL WORK EXPENSE			Start Date: 11/17/2011			End Date: 11/21/2011		
Active Datum: RKB @4,825.00usft (above Mean Sea Level)			UWI: SW/SW/0/9/S/20/E/14/0/0/6/PM/S/488.00/W/0/633.00/0/0					
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
11/15/2011	7:00 - 10:00	3.00	PROD	35		P		Tb 81 Cs 162 FL GC Could not get Plunger up w/Well. Ran w/Scratch to SN at 10209, latched Pace Maker Plunger, pulled out. Ran w/Down Shear Fish Tool to SN, latched and pulled Ball and Titanium Spring w/X-cups and roll pin, pulled out. Cups Bad. Changed cups. Left Ball, Spring and Plunger in Sep. Bldg. Equalized Well for Rig Job. Returned Well to Production. Rigged Down.
11/17/2011	7:00 - 7:30	0.50	ALL	48		P		HSM, REVIEW TRIPPING TBG, WIRELINE SAFETY
	7:30 - 9:00	1.50	MIRU	30	A	P		SPOT RIG & MIRU.
	9:00 - 9:30	0.50	ALL	30	F	P		SICP. 572 PSI. SITP. 572 PSI. BLEW TBG DWN, CONTROL TBG W/ 10 BBLs, ND WH, NU BOP'S, RU FLOOR & TBG EQUIPMENT, UNLAND TBG HANGER.
	9:30 - 13:30	4.00	ALL	31	I	P		DROP SLEEVE IN TBG, POOH 323 JTS. 2-3/8 L-80 TBG. NO SCALE IN TBG, REMOVE SLEEVE.
	13:30 - 16:00	2.50	ALL	34	I	P		RU J-W WIRELINE COMPANY, RIH & SET CIBP & 8600', RU CMT BAILER, RIH & DUMP BAIL 2 SXS ON TOP OF CIBP, RD J-W WIRELINE COMPANY, FILL CSG W/ T-MAC, P.T. PLUG TO 3000 PSI. SWI, SDFN.
11/18/2011	7:00 - 7:30	0.50	ALL	48		P		REVIEW HSM, REVIEW BACK-OFF PROCEDURE
	7:30 - 8:30	1.00	ALL	47	A	P		RD FLOOR & TBG EQUIPMENT, ND BOP'S, ND CSG BOWL, RU FLOOR, NU PWR SWVL, PU INTERNAL CSG CUTTER & RIH, CUT CSG 3' F/ SURFACE, POOH, LD CUTTER & CSG MANDRAL, ND PWR SWVL.
	8:30 - 10:00	1.50	ALL	31	B	P		PU 4-1/2 OVERSHOT, RIH LATCH FISH, MIRU CSG CREW & WIRELINE SERVICES, STRING SHOT CSG COLLAR, BACK-OFF CSG PUP JNT. POOH, PU NEW PUP JNT, TAG CSG TOP, THREAD INTO CSG, TORQUE CSG TO 7000# W/ 19.5 ROUNDS, RD CSG CREW & WIRELINE SERVICES, PU CSG TO 100,000# TENSION
	10:00 - 11:00	1.00	ALL	33	C	P		RU B&C QUICK TEST, P.T. 4-1/2 CSG TO 1000 PSI. FOR 15 MINS, LOST 2 PSI. IN 15 MINS, P.T. 4-1/2 CSG TO 3500 PSI. FOR 30 MINS. LOST 25 PSI. IN 30 MINS. RD B&C QUICK TEST.
	11:00 - 16:00	5.00	ALL	31	I	P		RU WEATHERFORD TECHNICIAN, SET C-21 SLIPS, LAND CSG W/ 85,000# TENSION, CUT & DRESS 4-1/2 CSG STUB, INSTALL "H" PLATE, FLANGE & CROSSOVER SPOOL, TORQUE ALL 1-7/8 BOLTS, RD WEATHERFORD TECHNICIAN, NU CSG BOWL, NU BOP'S, RU FLOOR & TBG EQUIPMENT, PU 3-7/8 MILL, 1.875 XN POBS & RIH 272 JTS. 2-3/8 L-80 TBG @ 8590', SWI, SDFWE.
11/21/2011	7:00 - 7:30	0.50	ALL	48		P		HSM, REVIEW FOAM UNIT & D/ CIBP.
	7:30 - 8:00	0.50	ALL	47	A	P		NU PWR SWVL, RU TECH FOAM, EST CIRC IN 20 MINS,
	8:00 - 8:15	0.25	ALL	44	A	P		D/O CMT @ 8590' IN 12 MINS.
	8:15 - 10:15	2.00	ALL	44	C	P		D/O CIBP @ 8600' IN 1 HR. 50 MINS, NO PSI. INCREASE, KILL TBG, LD PWR SWVL.

US ROCKIES REGION
Operation Summary Report

Well: NBU 920-14M3AS [RED]	Spud Conductor: 3/24/2010	Spud Date: 3/30/2010
Project: UTAH-UINTAH	Site: NBU 920-14M PAD	Rig Name No: LEED 698/698
Event: WELL WORK EXPENSE	Start Date: 11/17/2011	End Date: 11/21/2011
Active Datum: RKB @4,825.00usft (above Mean Sea Level)		UWI: SW/SW/0/9/S/20/E/14/0/0/6/PM/S/488.00/W/0/633.00/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	10:15 - 11:30	1.25	ALL	31	I	P		RIH 50 JTS. F/ DERRICK, PU 12 JTS. F/ TRAILER & TAG FILL @ 10,578', RU PWR SWVL, INSTALL TSF.
	11:30 - 16:00	4.50	ALL	44	D	P		EST CIRC IN 20 MINS, C/O F/ 10,578' TO 10,605' TAG OLD POBS , CIRC WELL CLEAN, KILL TBG, ND PWR SWVL, POOH 1 JNT, REMOVE TSF, DROP BALL, PUMP MILL-OFF W/ 1400 PSI, POOH LD 11 JTS. ON TRAILER, RU SWAB EQUIPMENT, RIH & BROACH TBG TO XN W/ 1.9 BROACH, RD SWAB EQUIPMENT, LAND TBG HANGER, RD FLOOR & TBG EQUIPMENT, ND BOP'S, NU WH, RDMO. MOVE TO NBU 920-14C.

TBG DETAIL

KB-----
 ----13'
 HANGER-----
 ---1.0'
 323 JTS. 2-3/8 L-80 TBG @-----
 -10,192.93'
 1.875 XN POBS-----
 --2.20'
 EOT @-----
 -10,209.13'
 WLTR. 80 BBLS.
 TOP PERF @ 8660'
 BTM PERF @ 10,560'
 PBTD @ 10,681'
 C/O TO 10,605' TAG OLD POBS.
 API# 4304750527

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

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

Well Name: NBU 920-14M3AS

Api No: 43-047-50527 Lease Type: FEDERAL

Section 14 Township 09S Range 20E County UINTAH

Drilling Contractor PETE MARTIN DRIG RIG # BUCKET

SPUDDED:

Date 03/24/2010

Time 9:00 AM

How DRY

Drilling will Commence: _____

Reported by JAMES GOBER

Telephone # (435) 828-7024

Date 03/24/2010 Signed CHD

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

FORM 6

ENTITY ACTION FORM

Operator: KERR MCGEE OIL & GAS ONSHORE LP Operator Account Number: N 2995
 Address: 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
4304750527	NBU 920-14M3AS		SWSW	14	9S	20E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
<i>B</i>	99999	<i>2910</i>	3/24/2010			<i>4/1/10</i>	
Comments: MIRU PETE MARTIN BUCKET RIG. <i>WSMVD</i> SPUD WELL LOCATION ON 3/24/2010 AT 9:00 HRS. <i>BHL = SWSW</i>							

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304750525	NBU 920-14M1BS		SWSW	14	9S	20E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
<i>B</i>	99999	<i>2900</i>	3/24/2010			<i>4/1/10</i>	
Comments: MIRU PETE MARTIN BUCKET RIG. <i>WSMVD</i> SPUD WELL LOCATION ON 3/24/2010 AT 12:00 HRS. <i>BHL = SWSW</i>							

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304750526	NBU 920-14M1CS		SWSW	14	9S	20E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
<i>B</i>	99999	<i>2900</i>	3/24/2010			<i>4/1/10</i>	
Comments: MIRU PETE MARTIN BUCKET RIG. <i>WSMVD</i> SPUD WELL LOCATION ON 3/24/2010 AT 15:00 HRS. <i>BHL = SWSW</i>							

ACTION CODES:

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

RECEIVED

MAR 25 2010

ANDY LYTLE

Name (Please Print)

[Signature]

Signature

REGULATORY ANALYST

Title

3/25/2010

Date