

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

FORM 3

AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL					1. WELL NAME and NUMBER NBU 922-31F2S		
2. TYPE OF WORK DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>					3. FIELD OR WILDCAT NATURAL BUTTES		
4. TYPE OF WELL Gas Well Coalbed Methane Well: NO					5. UNIT or COMMUNITIZATION AGREEMENT NAME NATURAL BUTTES		
6. NAME OF OPERATOR KERR-MCGEE OIL & GAS ONSHORE, L.P.					7. OPERATOR PHONE 720 929-6587		
8. ADDRESS OF OPERATOR P.O. Box 173779, Denver, CO, 80217					9. OPERATOR E-MAIL mary.mondragon@anadarko.com		
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) ML23607			11. MINERAL OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>		12. SURFACE OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>		
13. NAME OF SURFACE OWNER (if box 12 = 'fee')					14. SURFACE OWNER PHONE (if box 12 = 'fee')		
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')					16. SURFACE OWNER E-MAIL (if box 12 = 'fee')		
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')			18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input checked="" type="checkbox"/> (Submit Commingling Application) NO <input type="checkbox"/>		19. SLANT VERTICAL <input type="checkbox"/> DIRECTIONAL <input checked="" type="checkbox"/> HORIZONTAL <input type="checkbox"/>		
20. LOCATION OF WELL	FOOTAGES	QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN	
LOCATION AT SURFACE	2626 FSL 1451 FWL	NESW	31	9.0 S	22.0 E	S	
Top of Uppermost Producing Zone	1737 FNL 1258 FWL	SEnw	31	9.0 S	22.0 E	S	
At Total Depth	1737 FNL 1258 FWL	SEnw	31	9.0 S	22.0 E	S	
21. COUNTY UINTAH			22. DISTANCE TO NEAREST LEASE LINE (Feet) 1258		23. NUMBER OF ACRES IN DRILLING UNIT 124		
			25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 450		26. PROPOSED DEPTH MD: 9438 TVD: 9240		
27. ELEVATION - GROUND LEVEL 4841			28. BOND NUMBER		29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE Permit #43-8496		

ATTACHMENTS

VERIFY THE FOLLOWING ARE ATTACHED IN ACCORCANCE 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 08/05/2009	EMAIL danielle.piernot@anadarko.com
API NUMBER ASSIGNED 43047504150000	APPROVAL  Permit Manager	

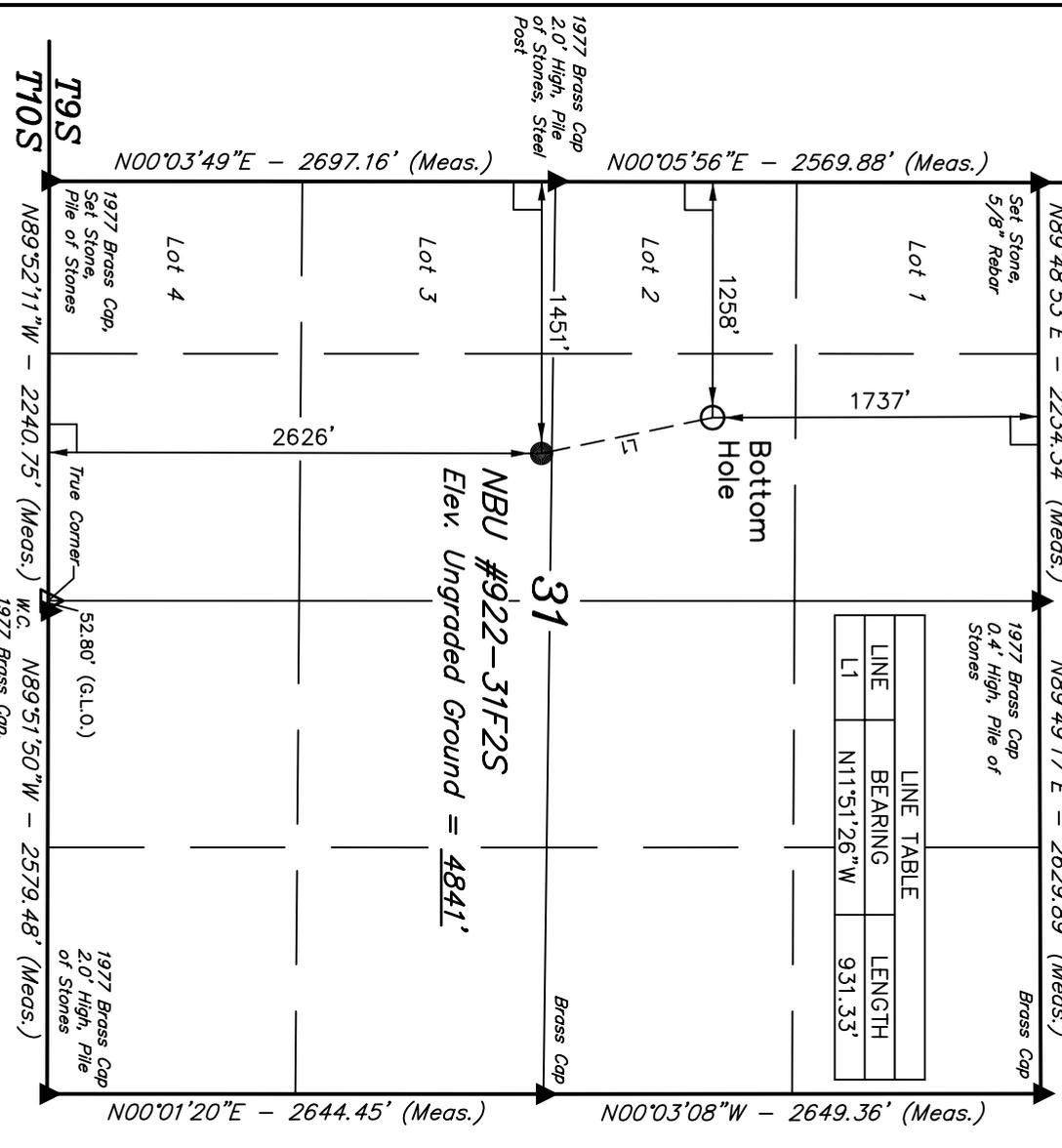
Proposed Hole, Casing, and Cement

String	Hole Size	Casing Size	Top (MD)	Bottom (MD)		
Prod	7.875	4.5	0	9438		
Pipe	Grade	Length	Weight			
	Grade I-80 LT&C	9438	11.6			

Proposed Hole, Casing, and Cement

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

R 21 R 22
E E T9S, R22E, S.L.B.&M.



LEGEND:
 = 90° SYMBOL
 = PROPOSED WELL HEAD.
 = SECTION CORNERS LOCATED.
 = SECTION CORNERS RE-ESTABLISHED. (Not Set on Ground)

NAD 83 (TARGET BOTTOM HOLE)	NAD 83 (SURFACE LOCATION)
LATITUDE = 39°59'41.92" (39.994978)	LATITUDE = 39°59'32.92" (39.992478)
LONGITUDE = 109°29'10.20" (109.486167)	LONGITUDE = 109°29'07.74" (109.485483)
NAD 27 (TARGET BOTTOM HOLE)	NAD 27 (SURFACE LOCATION)
LATITUDE = 39°59'42.05" (39.995014)	LATITUDE = 39°59'33.05" (39.992514)
LONGITUDE = 109°29'07.73" (109.485481)	LONGITUDE = 109°29'05.27" (109.484797)

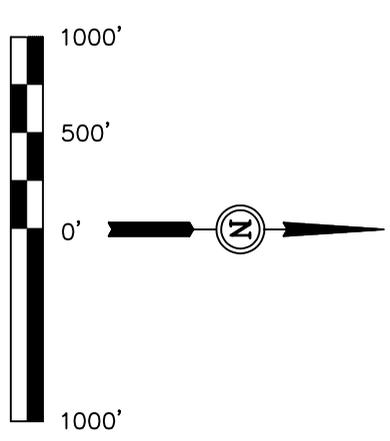
Kerr-McGee Oil & Gas Onshore LP
 Well location, NBU #922-31F2S, located as shown in the NE 1/4 SW 1/4 of Section 31, T9S, R22E, S.L.B.&M., Uintah County, Utah.

BASIS OF ELEVATION

TWO WATER TRIANGULATION STATION LOCATED IN THE NW 1/4 OF SECTION 1, T10S, R21E, S.L.B.&M. TAKEN FROM THE BIG PACK MTN NE QUADRANGLE, UTAH, UINTAH COUNTY, 7.5 MINUTE SERIES (TOPOGRAPHICAL MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 5238 FEET.

BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.



CERTIFICATE
 THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

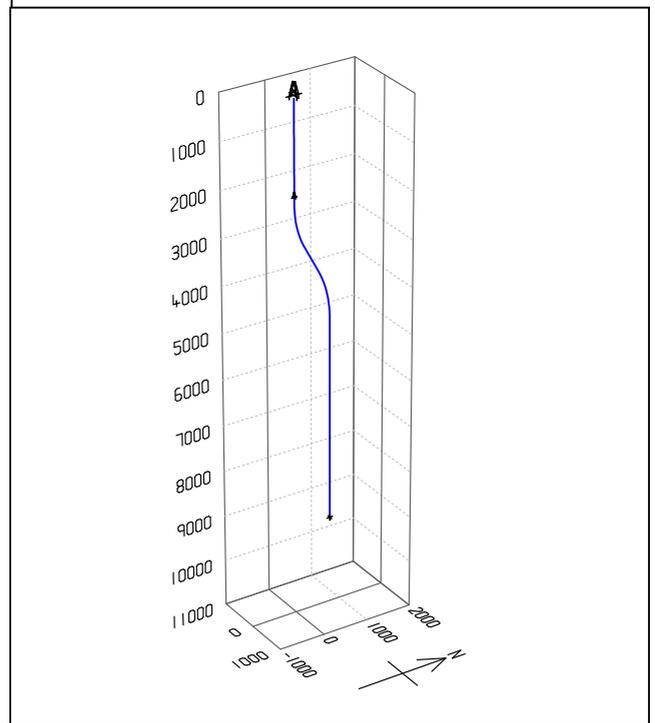
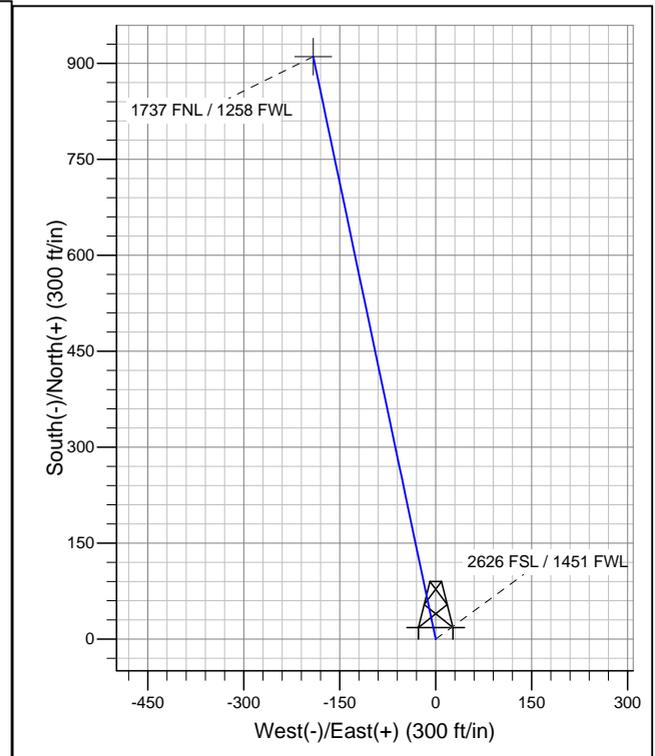
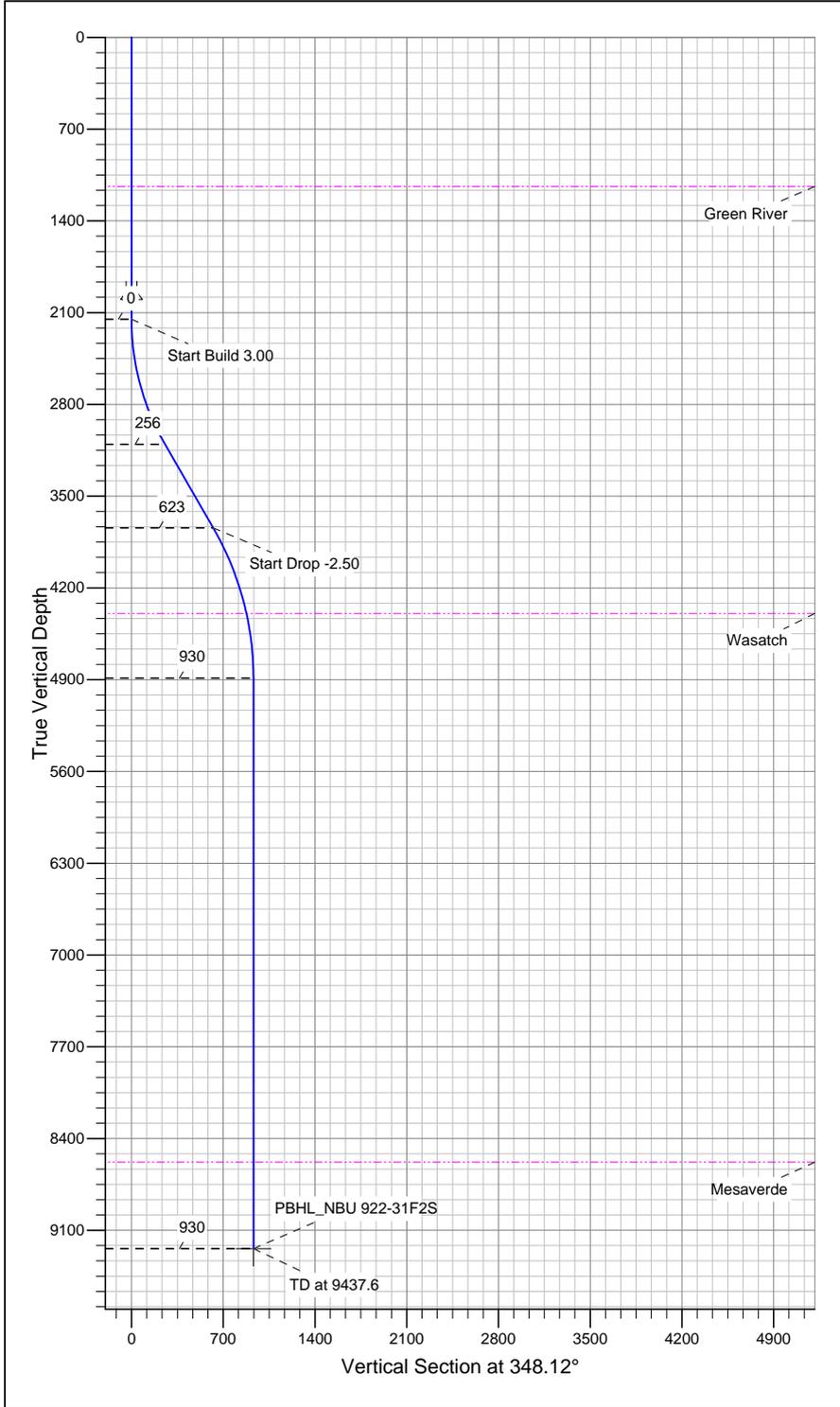


UINTAH ENGINEERING & LAND SURVEYING
 85 SOUTH 200 EAST - VERNAL, UTAH 84078
 (435) 789-1017

SCALE	DATE SURVEYED:	DATE DRAWN:
1" = 1000'	11-19-08	12-05-08
PARTY	REFERENCES	
L.K. C.K. D.P.	G.L.O. PLAT	
WEATHER	FILE	
COOL	Kerr-McGee Oil & Gas Onshore LP	



Well Name: P_NBU 922-31F2S
 Surface Location: UINTAH_NBU 922-31K PAD
 NAD 1927 (NADCON CONUS) Universal Transverse Mercator (US Survey Feet)
 UTAH - UTM (feet), NAD27, Zone 12N
 Ground Elevation: 4841.0
 Northing 14526925.45 Easting 2064816.83 Latitude 39.992514°N Longitude 109.484797°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	2150.0	0.00	0.00	2150.0	0.0	0.0	0.00	0.00	0.0
3	3150.0	30.00	348.12	3104.9	250.4	-52.7	3.00	348.12	255.9
4	3885.1	30.00	348.12	3741.6	610.1	-128.3	0.00	0.00	623.4
5	5085.1	0.00	0.00	4887.5	910.6	-191.6	2.50	180.00	930.5
6	9437.6	0.00	0.00	9240.0	910.6	-191.6	0.00	0.00	930.5



Azimuths to True North
 Magnetic North: 11.33°

Magnetic Field
 Strength: 52570.6snT
 Dip Angle: 65.93°
 Date: 4/15/2009
 Model: IGRF200510

ROCKIES - PLANNING

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

UINTAH_NBU 922-31K PAD

P_NBU 922-31F2S

P_NBU 922-31F2S

Plan: Plan #1 04-15-09 ZJRA6

Standard Planning Report - Geographic

15 April, 2009

APC Planning Report - Geographic

Database: apc_edmp	Local Co-ordinate Reference: Well P_NBU 922-31F2S
Company: ROCKIES - PLANNING	TVD Reference: WELL @ 4841.0ft (Original Well Elev)
Project: UTAH - UTM (feet), NAD27, Zone 12N	MD Reference: WELL @ 4841.0ft (Original Well Elev)
Site: UINTAH_NBU 922-31K PAD	North Reference: True
Well: P_NBU 922-31F2S	Survey Calculation Method: Minimum Curvature
Wellbore: P_NBU 922-31F2S	
Design: Plan #1 04-15-09 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 922-31K PAD				
Site Position:		Northing:	14,526,925.45ft	Latitude:	39.992514°N
From:	Lat/Long	Easting:	2,064,816.83ft	Longitude:	109.484797°W
Position Uncertainty:	0.0 ft	Slot Radius:	"	Grid Convergence:	0.97 °

Well	P_NBU 922-31F2S					
Well Position	+N/-S	0.0 ft	Northing:	14,526,925.45 ft	Latitude:	39.992514°N
	+E/-W	0.0 ft	Easting:	2,064,816.83 ft	Longitude:	109.484797°W
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,841.0ft

Wellbore	P_NBU 922-31F2S				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	4/15/2009	11.33	65.93	52,571

Design	Plan #1 04-15-09 ZJRA6			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	9,240.0	0.0	0.0	348.12

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	
2,150.0	0.00	0.00	2,150.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,150.0	30.00	348.12	3,104.9	250.4	-52.7	3.00	3.00	0.00	348.12	
3,885.1	30.00	348.12	3,741.6	610.1	-128.3	0.00	0.00	0.00	0.00	
5,085.1	0.00	0.00	4,887.5	910.6	-191.6	2.50	-2.50	0.00	180.00	
9,437.6	0.00	0.00	9,240.0	910.6	-191.6	0.00	0.00	0.00	0.00	PBHL_NBU 922-31

APC Planning Report - Geographic

Database: apc_edmp	Local Co-ordinate Reference: Well P_NBU 922-31F2S
Company: ROCKIES - PLANNING	TVD Reference: WELL @ 4841.0ft (Original Well Elev)
Project: UTAH - UTM (feet), NAD27, Zone 12N	MD Reference: WELL @ 4841.0ft (Original Well Elev)
Site: UINTAH_NBU 922-31K PAD	North Reference: True
Well: P_NBU 922-31F2S	Survey Calculation Method: Minimum Curvature
Wellbore: P_NBU 922-31F2S	
Design: Plan #1 04-15-09 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	14,526,925.45	2,064,816.83	39.992514°N	109.484797°W	
1,138.0	0.00	0.00	1,138.0	0.0	0.0	14,526,925.45	2,064,816.83	39.992514°N	109.484797°W	
Green River										
2,000.0	0.00	0.00	2,000.0	0.0	0.0	14,526,925.45	2,064,816.83	39.992514°N	109.484797°W	
Surface Casing										
2,150.0	0.00	0.00	2,150.0	0.0	0.0	14,526,925.45	2,064,816.83	39.992514°N	109.484797°W	
3,150.0	30.00	348.12	3,104.9	250.4	-52.7	14,527,174.91	2,064,759.91	39.993201°N	109.484985°W	
3,885.1	30.00	348.12	3,741.6	610.1	-128.3	14,527,533.27	2,064,678.14	39.994189°N	109.485255°W	
4,587.8	12.43	348.12	4,394.0	858.0	-180.5	14,527,780.21	2,064,621.79	39.994870°N	109.485441°W	
Wasatch										
5,085.1	0.00	0.00	4,887.5	910.6	-191.6	14,527,832.63	2,064,609.83	39.995014°N	109.485481°W	
8,778.6	0.00	0.00	8,581.0	910.6	-191.6	14,527,832.63	2,064,609.83	39.995014°N	109.485481°W	
Mesaverde										
9,437.6	0.00	0.00	9,240.0	910.6	-191.6	14,527,832.63	2,064,609.83	39.995014°N	109.485481°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 922-31F2	-	0.00	0.00	9,240.0	910.6	-191.6	14,527,832.63	2,064,609.83	39.995014°N	109.485481°W
- plan hits target center										
- Point										

Casing Points						
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")		
2,000.0	2,000.0	Surface Casing	9-5/8	12-1/4		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
8,778.6	8,581.0	Mesaverde		0.00		
4,587.8	4,394.0	Wasatch		0.00		
1,138.0	1,138.0	Green River		0.00		

NBU 922-31F2S

Pad: NBU 922-31K

Surface: 2,626' FSL, 1,451' FWL (NE/4SW/4)

BHL: 1,737' FNL 1,258' FWL (SE/4NW/4)

Sec. 31 T9S R22E

Uintah, Utah

Mineral Lease: ML23607

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	1,138'	
Birds Nest	1,478'	Water
Mahogany	1,944'	Water
Wasatch	4,394'	Gas
Mesaverde	7,038'	Gas
MVU2	7,993'	Gas
MVL1	8,581'	Gas
TVD	9,240'	
TD	9,438'	

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

Please refer to the attached Drilling Program.

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

Please refer to the attached Drilling Program.

5. **Drilling Fluids Program:**

Please refer to the attached Drilling Program.

6. **Evaluation Program:**

Please refer to the attached Drilling Program.

7. **Abnormal Conditions:**

Maximum anticipated bottomhole pressure calculated at 9,438' TD, approximately equals 5,469 psi (calculated at 0.59 psi/foot).

Maximum anticipated surface pressure equals approximately 3,436 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'						
						3520	2020	453000
SURFACE	9-5/8"	0 to 2,150	36.00	J-55	LTC	0.97	2.01	7.45
						7,780	6,350	201,000
PRODUCTION	4-1/2"	0 to 9,438	11.60	I-80	LTC	2.20	1.14	2.10

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

2) MASP (Prod Casing) = Pore Pressure at TD - (0.22 psi/ft-partial evac gradient x TD)
 (Burst Assumptions: TD = 11.6 ppg) 0.22 psi/ft = gradient for partially evac wellbore
 (Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoyn.Fact. of water)
MASP 3,436 psi

3) Maximum Anticipated Bottom Hole Pressure (MABHP) = Pore Pressure at TD
 (Burst Assumptions: TD = 11.6 ppg) 0.59 psi/ft = bottomhole gradient
 (Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoyn.Fact. of water)
MABHP 5,469 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 (1)	200	20 gals sodium silicate + Premium cmt + 2% CaCl + 0.25 pps flocele	50		15.60	1.18
	TOP OUT CMT (2)	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
SURFACE		NOTE: If well will circulate water to surface, option 2 will be utilized					
Option 2	LEAD	1500	65/35 Poz + 6% Gel + 10 pps gilsonite +.25 pps Flocele + 3% salt BWOW	360	35%	12.60	1.81
	TAIL	500	Premium cmt + 2% CaCl + 0.25 pps flocele	180	35%	15.60	1.18
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
PRODUCTION	LEAD	3,888'	Premium Lite II + 3% KCl + 0.25 pps celloflake + 5 pps gilsonite + 10% gel + 0.5% extender	370	40%	11.00	3.38
	TAIL	5,550'	50/50 Poz/G + 10% salt + 2% gel +.1% R-3	1360	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

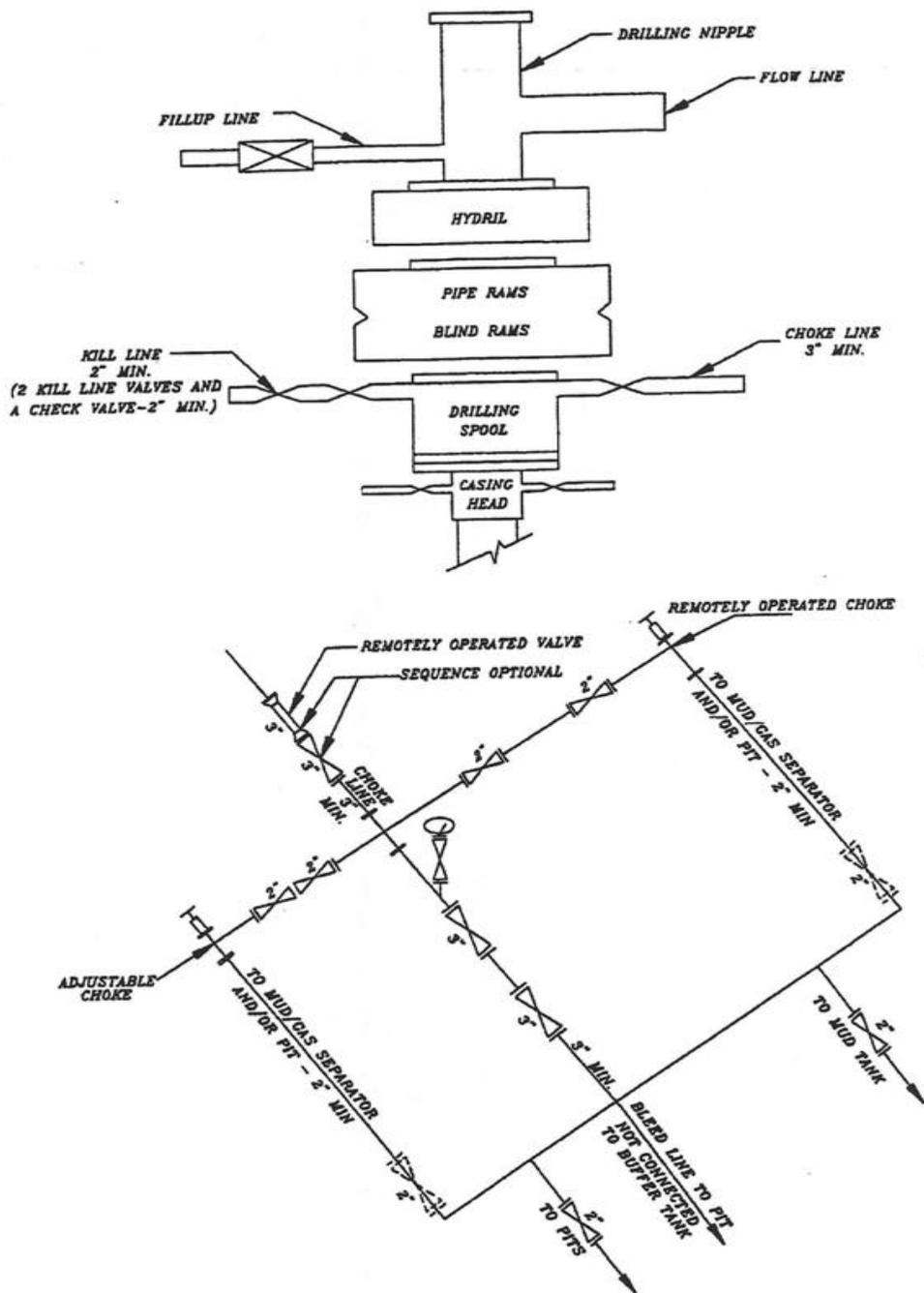
SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe
PRODUCTION	Float shoe, 1 jt, float collar. No centralizers will be used.

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 / Grant Schluender
DRILLING SUPERINTENDENT: _____ **DATE:** _____
 John Merkel / Lovel Young

EXHIBIT A NBU 922-31F2S



SCHMATIC DIAGRAM OF 5,000 PSI BOP STACK

Kerr-McGee Oil & Gas Onshore LP

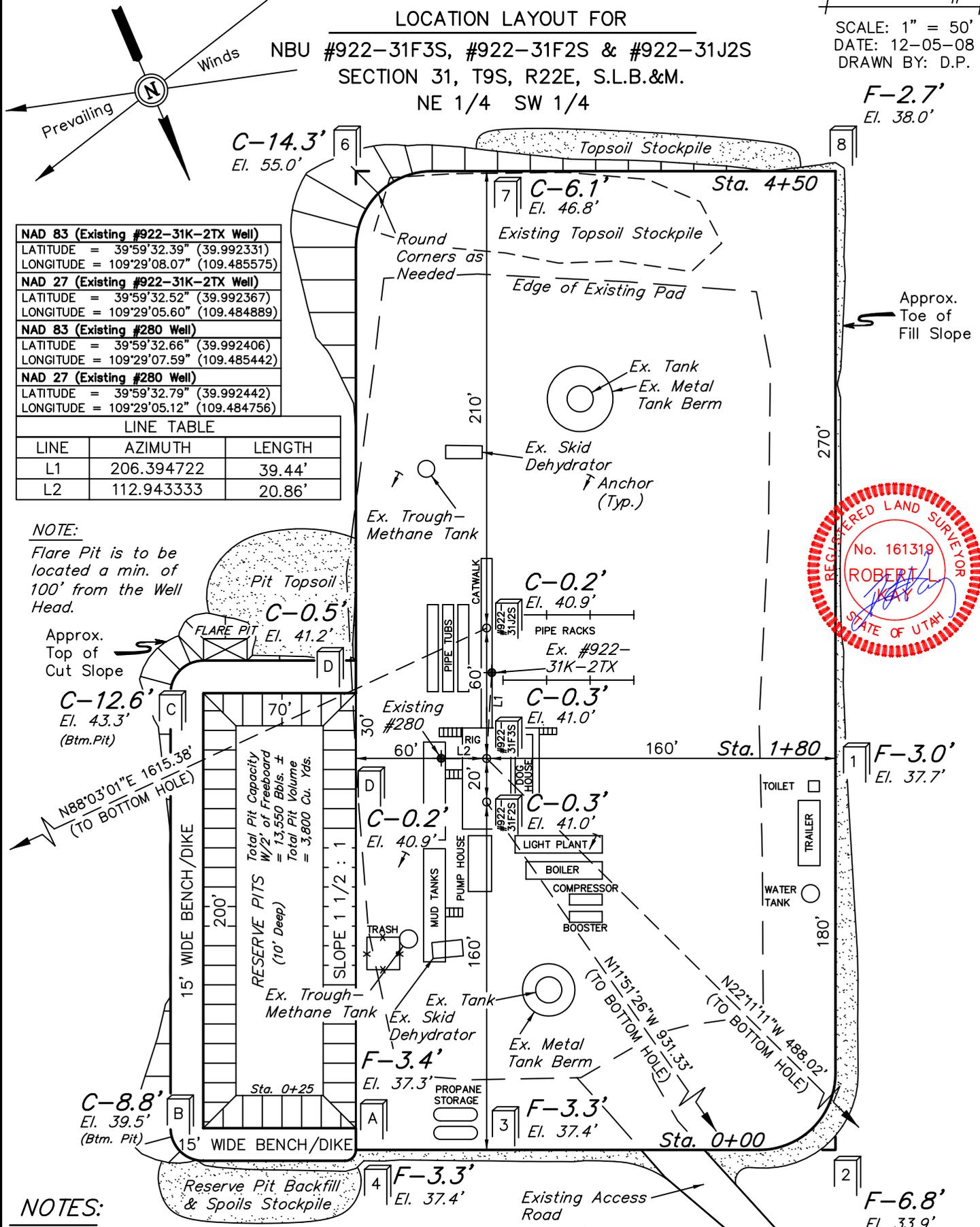
FIGURE #1

LOCATION LAYOUT FOR

NBU #922-31F3S, #922-31F2S & #922-31J2S
SECTION 31, T9S, R22E, S.L.B.&M.
NE 1/4 SW 1/4

SCALE: 1" = 50'
DATE: 12-05-08
DRAWN BY: D.P.

F-2.7'
El. 38.0'



NAD 83 (Existing #922-31K-2TX Well)		
LATITUDE = 39°59'32.39" (39.992331)		
LONGITUDE = 109°29'08.07" (109.485575)		
NAD 27 (Existing #922-31K-2TX Well)		
LATITUDE = 39°59'32.52" (39.992367)		
LONGITUDE = 109°29'05.60" (109.484889)		
NAD 83 (Existing #280 Well)		
LATITUDE = 39°59'32.66" (39.992406)		
LONGITUDE = 109°29'07.59" (109.485442)		
NAD 27 (Existing #280 Well)		
LATITUDE = 39°59'32.79" (39.992442)		
LONGITUDE = 109°29'05.12" (109.484756)		

LINE TABLE		
LINE	AZIMUTH	LENGTH
L1	206.394722	39.44'
L2	112.943333	20.86'

NOTE:

Flare Pit is to be located a min. of 100' from the Well Head.

Approx. Top of Cut Slope

C-12.6'
El. 43.3'
(Btm. Pit)

N88°03'01"E 1615.38'
(TO BOTTOM HOLE)

Pit Topsoil
C-0.5'
El. 41.2'

RESERVE PITS
(10' Deep)
SLOPE 1 1/2 : 1
Total Pit Capacity
W/2' of Freeboard
= 13,550 Bbls. ±
Total Pit Volume
= 3,800 Cu. Yds.

C-8.8'
El. 39.5'
(Btm. Pit)

Reserve Pit Backfill & Spoils Stockpile

NOTES:

Elev. Ungraded Ground At NBU #922-31F3S Loc. Stake = 4841.0'

FINISHED GRADE ELEV. AT NBU #922-31F3S LOC. STAKE = 4840.7' UTAH ENGINEERING & LAND SURVEYING
85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017

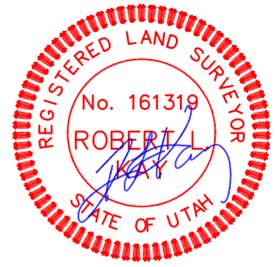
Kerr-McGee Oil & Gas Onshore LP

FIGURE #2

TYPICAL CROSS SECTIONS FOR

**NBU #922-31F3S, #922-31F2S & #922-31J2S
SECTION 31, T9S, R22E, S.L.B.&M.
NE 1/4 SW 1/4**

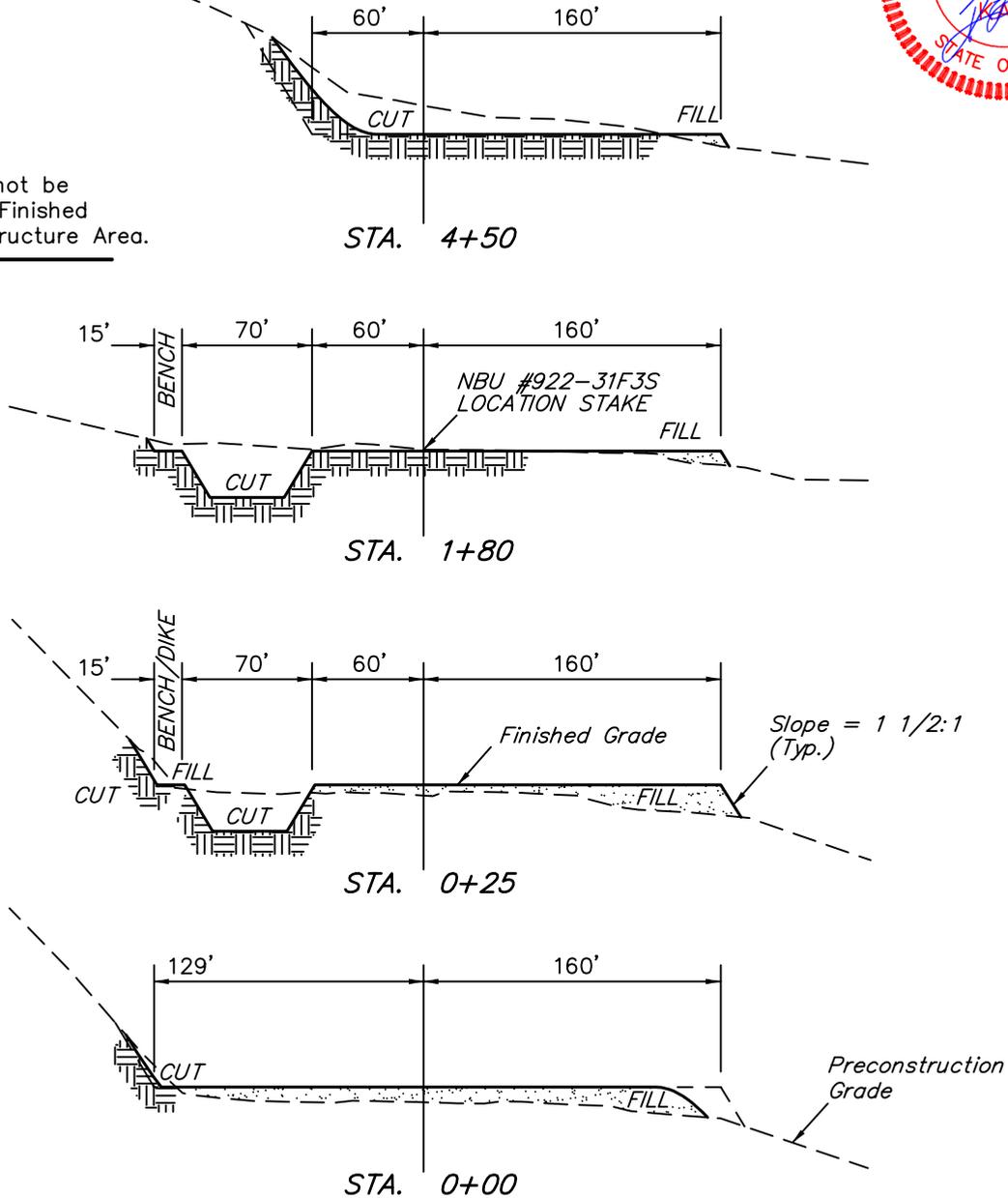
X-Section
Scale
1" = 100'
1" = 20'



DATE: 12-05-08
DRAWN BY: D.P.

NOTE:

Topsoil should not be Stripped Below Finished Grade on Substructure Area.



APPROXIMATE ACREAGES

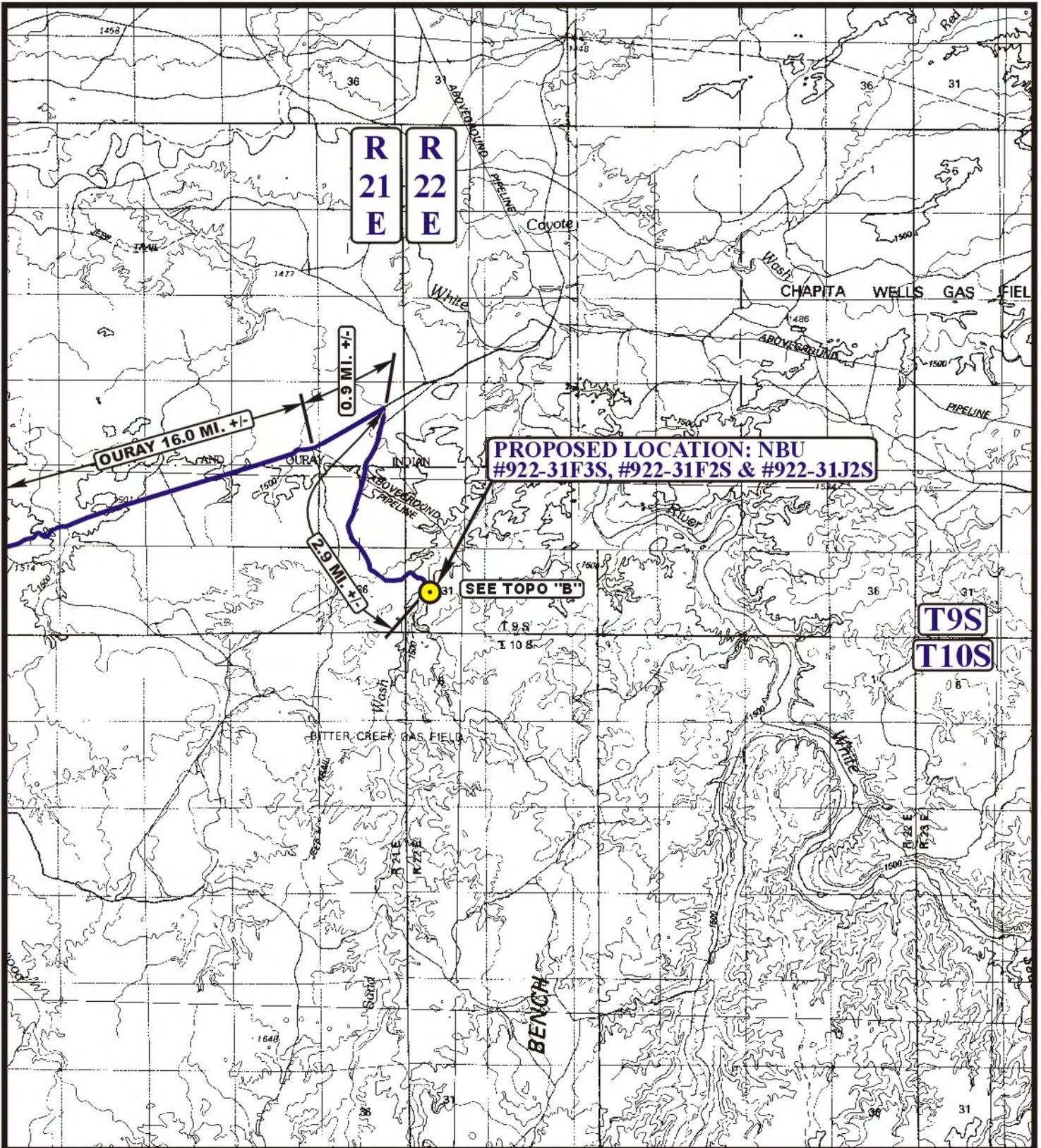
EXISTING WELL SITE DISTURBANCE = ± 1.505 ACRES
NEW CONSTRUCTION WELL SITE DISTURBANCE = ± 2.205 ACRES
TOTAL = ± 3.710 ACRES

* NOTE:
FILL QUANTITY INCLUDES
5% FOR COMPACTION

APPROXIMATE YARDAGES

CUT
(6") Topsoil Stripping = 1,170 Cu. Yds.
(New Construction Only)
Remaining Location = 6,450 Cu. Yds.
TOTAL CUT = 7,620 CU.YDS.
FILL = 4,430 CU.YDS.

EXCESS MATERIAL = 3,190 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.) = 3,070 Cu. Yds.
EXCESS UNBALANCE = 120 Cu. Yds.
(After Interim Rehabilitation)



LEGEND:

 PROPOSED LOCATION

Kerr-McGee Oil & Gas Onshore LP

NBU #922-31F3S, #922-31F2S & #922-31J2S

SECTION 31, T9S, R22E, S.L.B.&M.

NE 1/4 SW 1/4



Utah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813



TOPOGRAPHIC
MAP

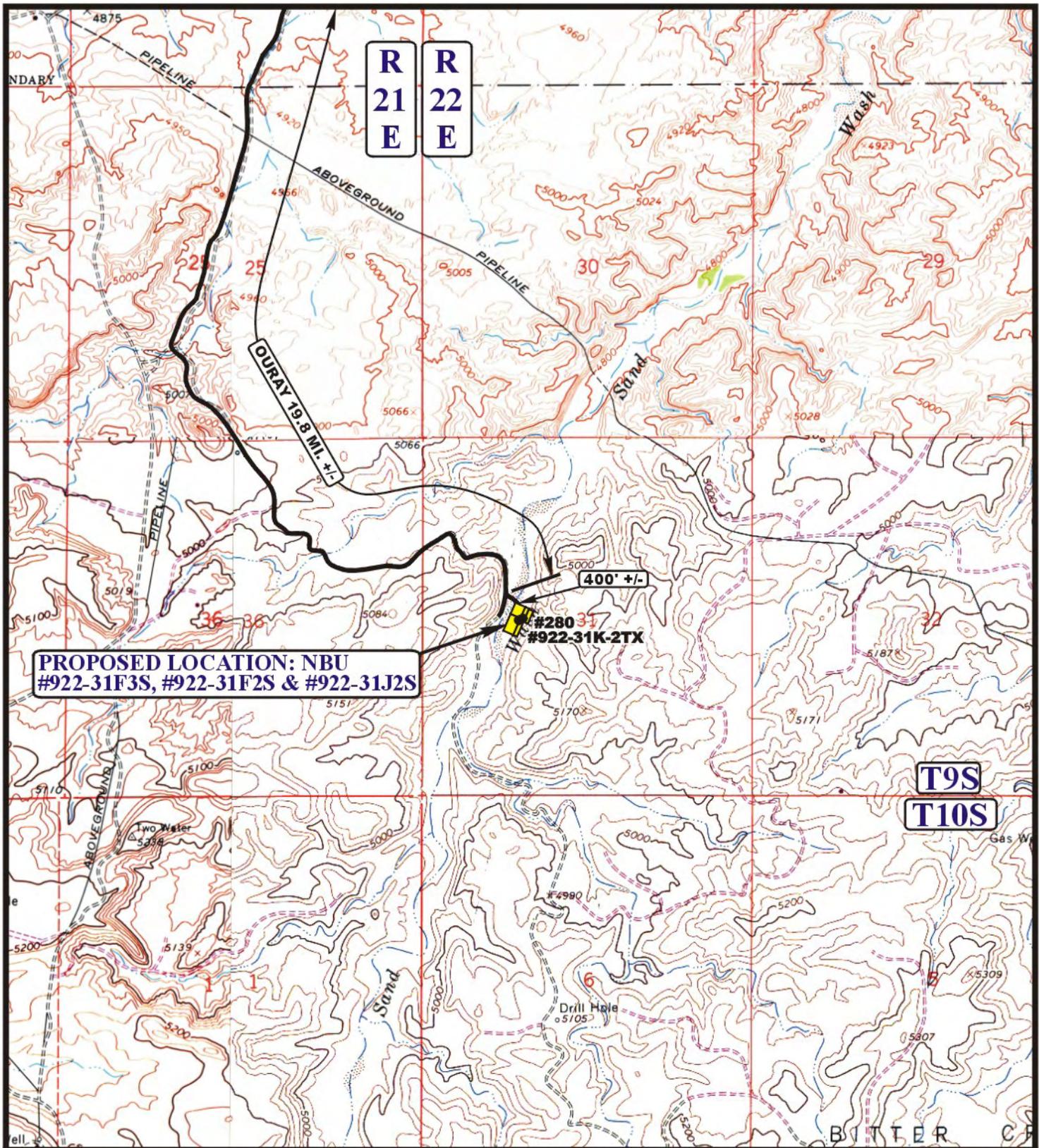
12 05 08
MONTH DAY YEAR

SCALE: 1:100,000

DRAWN BY: D.P.

REVISED: 00-00-00





**PROPOSED LOCATION: NBU
#922-31F3S, #922-31F2S & #922-31J2S**

400' +/-

**#28031
#922-31K-2TX**

**T9S
T10S**

LEGEND:

————— EXISTING ROAD

Kerr-McGee Oil & Gas Onshore LP

**NBU #922-31F3S, #922-31F2S & #922-31J2S
SECTION 31, T9S, R22E, S.L.B.&M.
NE 1/4 SW 1/4**

U&L S **Utah Engineering & Land Surveying**
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813



TOPOGRAPHIC MAP **12 05 08**
MONTH DAY YEAR
SCALE: 1" = 2000' DRAWN BY: D.P. REVISED: 00-00-00 **B TOPO**

Kerr-McGee Oil & Gas Onshore LP

NBU #922-31F3S, #922-31F2S, & #922-31J2S

LOCATED IN UINTAH COUNTY, UTAH
SECTION 31, T9S, R22E, S.L.B.&M.

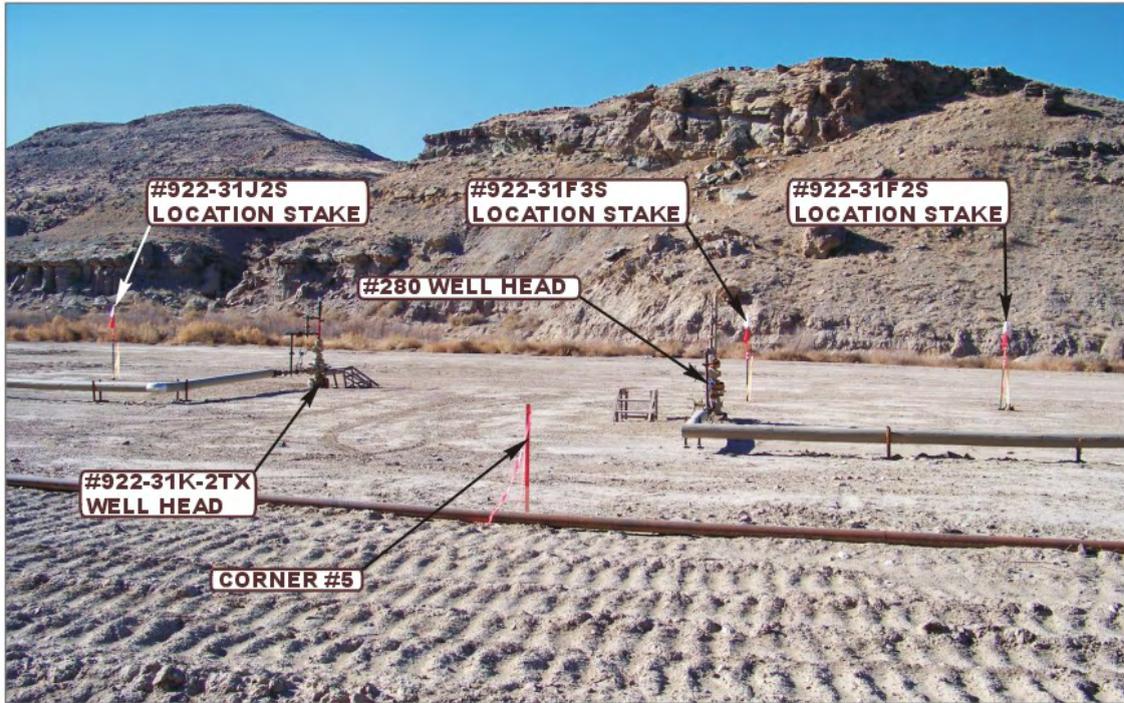


PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKES

CAMERA ANGLE: NORTHWESTERLY



PHOTO: VIEW OF EXISTING ACCESS

CAMERA ANGLE: SOUTHEASTERLY



- Since 1964 -

UELS Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

LOCATION PHOTOS	12	05	08	PHOTO
	MONTH	DAY	YEAR	
TAKEN BY: D.K.	DRAWN BY: D.P.	REVISED: 00-00-00		

Kerr-McGee Oil & Gas Onshore LP
NBU #922-31F3S, #922-31F2S & #922-31J2S
SECTION 31, T9S, R22E, S.L.B.&M.

PROCEED IN A WESTERLY DIRECTION FROM VERNAL, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 14.0 MILES TO THE JUNCTION OF STATE HIGHWAY 88; EXIT LEFT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 17.0 MILES TO OURAY, UTAH; PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 6.9 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHEAST; TURN LEFT AND PROCEED IN A SOUTHEASTERLY, THEN EASTERLY DIRECTION APPROXIMATELY 5.0 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHWEST; TURN LEFT AND PROCEED IN A NORTHWESTERLY DIRECTION APPROXIMATELY 0.3 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHEAST; TURN RIGHT AND PROCEED IN A NORTHEASTERLY DIRECTION APPROXIMATELY 3.8 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHEAST; PROCEED IN A NORTHEASTERLY DIRECTION APPROXIMATELY 0.9 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHWEST; TURN RIGHT AND PROCEED IN A SOUTHWESTERLY, THEN SOUTHEASTERLY DIRECTION APPROXIMATELY 2.9 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHEAST; TURN LEFT AND PROCEED IN A SOUTHEASTERLY DIRECTION APPROXIMATELY 400' TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 50.8 MILES.

Kerr-McGee Oil & Gas Onshore LP

NBU 922-31F2S

Surface: 2,626' FSL, 1,451' FWL (NE/4SW/4)
BHL: 1,737' FNL 1,258' FWL (SE/4NW/4)
Mineral Lease: ML23607

NBU 922-31F3S

Surface: 2,607' FSL, 1,443' FWL (NE/4SW/4)
BHL: 2,215' FNL 1,258' FWL (SE/4NW/4)
Mineral Lease: ML23607

NBU 922-31J2S

Surface: 2,552' FSL, 1,420' FWL (NE/4SW/4)
BHL: 2,611' FSL 1,837' FEL (NW/4SE/4)
Mineral Lease: UO1207A

Section 31 Township 9 South Range 22 East
Pad: NBU 922-31K
Uintah, Utah
Surface: State

ONSHORE ORDER NO. 1

MULTI-POINT SURFACE USE & OPERATIONS PLAN

Directional Drilling:

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

1. Existing Roads:

Refer to Topo Map A for directions to the location.

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

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

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

2. Planned Access Roads:

Approximately ± 0.0 mi. ($\pm 0'$) of new access road is proposed. Please refer to the attached Topo Map B.

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

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

The access road was centerline flagged during time of staking.

Surfacing material may be necessary, depending upon weather conditions.

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

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

Please refer to Topo Map C.

4. Location of Existing & Proposed Facilities:

The following guidelines will apply if the well is productive.

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

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

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

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

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

5. Location and Type of Water Supply:

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

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

No water well is to be drilled on this lease.

6. Source of Construction Materials:

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

Any gravel will be obtained from a commercial source.

7. Methods of Handling Waste Materials:

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

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

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

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

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

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

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

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

Kerr-McGee Oil & Gas Onshore LP
NBU 922-31F2S/ 31F3S/ 31J2S

Page 4
Surface Use and Operations Plan

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

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

8. Ancillary Facilities:

None are anticipated.

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

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

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

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

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

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

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

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

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

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

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

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

10. Plans for Reclamation of the Surface:

Producing Location:

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

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

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

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

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

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

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

Dry Hole/Abandoned Location:

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

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

Kerr-McGee Oil & Gas Onshore LP
NBU 922-31F2S/ 31F3S/ 31J2S

Page 6
Surface Use and Operations Plan

11. Surface/Mineral Ownership:

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

12. Other Information:

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

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

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

Kerr-McGee Oil & Gas Onshore LP
NBU 922-31F2S/ 31F3S/ 31J2S

Page 7
Surface Use and Operations Plan

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

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

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

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

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

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

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

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

Kathy Schneebeck Dulnoan

May 7, 2009
Date

CLASS I REVIEW OF KERR-MCGEE OIL AND GAS
ONSHORE LP'S 46 PROPOSED WELL LOCATIONS
(T9S, R22E, SEC. 29, 30, 31, 32, 33, 34; T10S, R22E, SEC. 4)
UINTAH COUNTY, UTAH

CLASS I REVIEW OF KERR-MCGEE OIL AND GAS
ONSHORE LP'S 46 PROPOSED WELL LOCATIONS
(T9S, R22E, SEC. 29, 30, 31, 32, 33, 34; T10S, R22E, SEC. 4)
UINTAH COUNTY, UTAH

By:

Nicole Shelnut

Prepared For:

Bureau of Land Management
Vernal Field Office
and
State of Utah
School & Institutional Trust Lands Administration

Prepared Under Contract With:

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

Prepared By:

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

MOAC Report No. 08-356

February 26, 2009

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

Public Lands Policy Coordination Office
Archaeological Survey Permit No. 117

INTRODUCTION

A Class I literature review was completed by Montgomery Archaeological Consultants, Inc. (MOAC) in February 2009 of Kerr-McGee Onshore's 46 proposed NBU well locations in Township 9S, Range 22E Sections 29, 30, 31, 32, 33, 34; Township 10S, Range 22E, Section 4. The project area is situated west of the White River in the Bitter Creek Gas Field, Uintah County, Utah. The wells are designated NBU 922-29P Directional Pad, NBU 920-29P, NBU 922-29P2DS, NBU 922-29I3DS, NBU 922-29P3AS, NBU 922-29M Directional Pad, NBU 922-29M2CS, NBU 922-29M3CS, NBU 922-29M4DS, NBU 184 (NBU 922-30N) Directional Pad, NBU 922-30N2S, NBU 280, NBU 922-31K-2TX Directional Pad, NBU 922-31F2S, NBU 922-31F3S, NBU 922-31J2S, (NBU 921-31I) Directional Pad, NBU 922-31J3AS, NBU 922-31O1AS, NBU 922-31I3CS, NBU 922-31I4AS, CIGE 106D (NBU 922-32D) Directional Pad, NBU 922-32F3T, NBU 922-32L1S, NBU 922-32K1S, NBU 922-32F2S, NBU 922-32J3 Directional Pad, NBU 922-32J4CS, NBU 922-32IT, NBU 282 Directional Pad, NBU 922-32P1BS, (NBU 922-33D) Directional Pad, NBU 922-33E2DS, NBU 922-33E3AS, NBU 922-33E3DS, NBU 922-33F3DS, NBU 922-33K2, (NBU 1022-4B) Directional Pad, NBU 922-33P2S, NBU 922-33O4S, NBU 922-33N4S, NBU 922-33P3S, (NBU 922-34E) Directional Pad, NBU 922-34C3BS, NBU 922-34D2CS, NBU 922-34D3BS, and (NBU 922-34O) Directional Pad, NBU 922-34P3CS. This document was implemented at the request of Ms. Raleen White, Kerr-McGee Onshore LP, Denver, Colorado.

The purpose of this Class I review is to identify, classify, and evaluate the previously conducted cultural resource inventories and archaeological sites in the project area in order to comply with Section 106 of 36 CFR 800, the National Historic Preservation Act of 1966 (as amended). Also, the inventory was implemented to attain compliance with a number of federal and state mandates, including the National Environmental Policy Act of 1969, the Archaeological and Historic Conservation Act of 1972, the Archaeological Resources Protection Act of 1979, the American Indian Religious Freedom Act of 1978, and the Utah State Antiquities Act of 1973 (amended 1990).

The project area in which Kerr-McGee Onshore's 46 proposed NBU well locations occur was previously inventoried by MOAC in 2007 for the Class III inventory of Township 9 South, Range 22 East (Montgomery and Dunn 2008) and the Class III inventory of Township 10 South, Range 22 East (Montgomery 2008). A file search was completed by consulting MOAC's Class I existing data review of 459 square miles (293,805 acres) covering the Greater NBU study area between Bonanza and Ouray in Uintah County, northeastern Utah (Patterson et al. 2008). Kerr-McGee Oil & Gas Onshore LP proposes to explore and develop oil and natural gas resources throughout the area. Record searches were performed for this Class I project by Marty Thomas at the Utah State Historic Preservation Office (SHPO) on various dates between June 14, 2006 and January 27, 2007. The results of this Class I data review and Class III inventory indicated that no previously recorded sites occur in the current project area.

DESCRIPTION OF THE PROJECT AREA

The project area is situated west of the White River on both sides of Sand Wash in the Uinta Basin. The legal description is Township 9S, Range 22E, Sections 29, 30, 31, 32, 33, 34; Township 10S, Range 22E, Sections 3 and 4 (Figure 1, Table 1). Land status is public land administered by the Bureau of Land Management (BLM) Vernal Field Office and State of Utah School & Institutional Trust Lands Administration (SITLA).

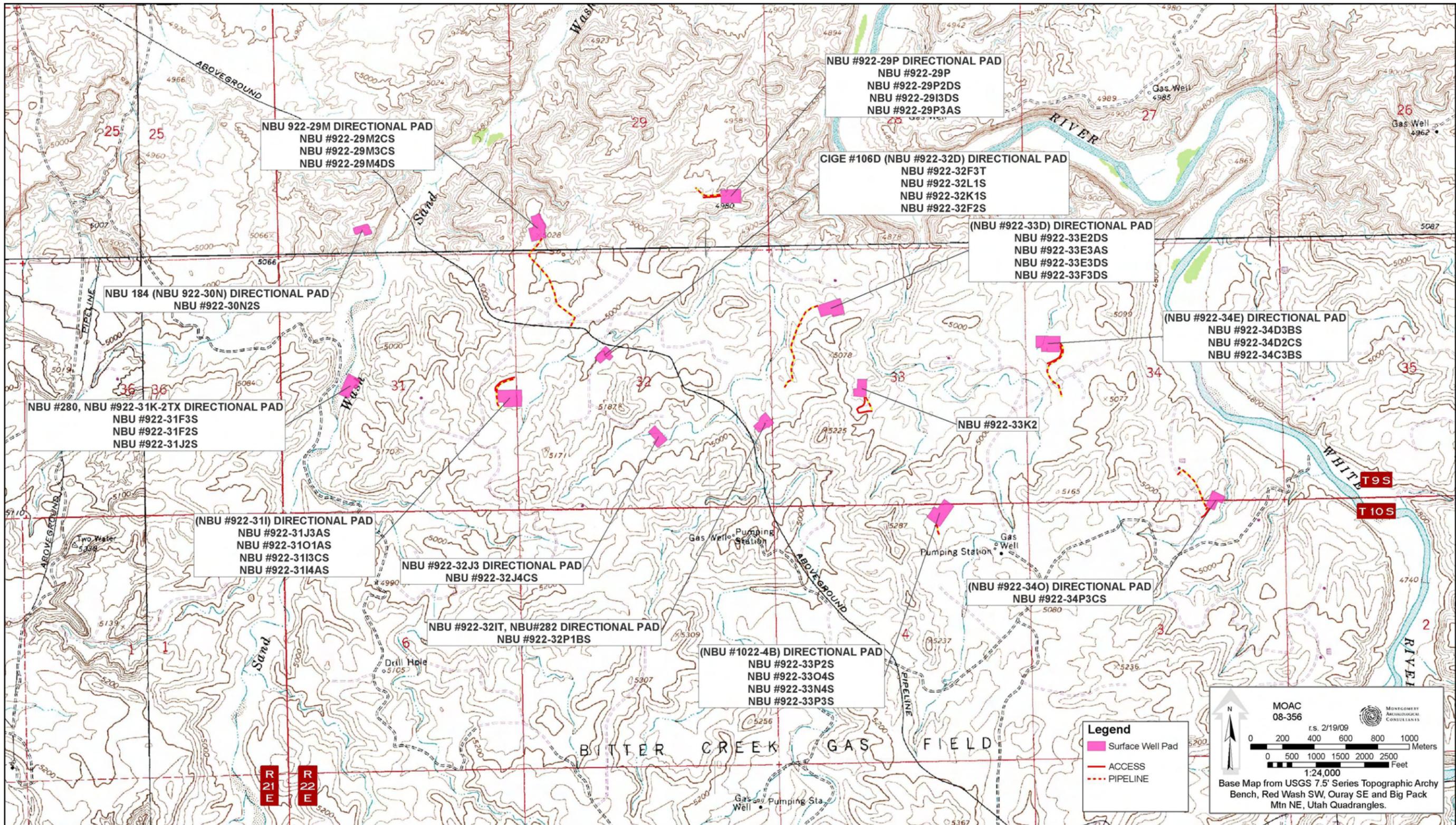


Figure 1. Kerr-McGee Oil and Gas Onshore LP's Proposed NBU Well Locations in Uintah County, Utah.

Table 1. Kerr-McGee Onshore's 46 NBU Well Locations.

Well Designation	Legal Description	Access/Pipeline Corridor	Cultural Resources
NBU 922-29P Directional Pad NBU 922-29P NBU 922-29P2DS, NBU 922-29I3DS, NBU 922-29P3AS	SE/SE Sec. 29, T9S, R22E	Access: 368 Pipeline: 577	None
NBU 922-29M Directional Pad NBU 922-29M2CS, NBU 922-29M3CS, NBU 922-29M4DS	SW/SW Sec. 29, T9S, R22E	Pipeline: 2296	None
NBU 922-30N Directional Pad NBU 922-30N2S	SE/SW Sec. 30, T9S, R22E	None	None
NBU 280, NBU 922-31K-2TX Directional Pad NBU 922-31F2S, NBU 922-31F3S, NBU 922-31J2S	NE/SW Sec. 31, T9S, R22E	Access: 690 Pipeline: 277	None
(NBU 921-31I) Directional Pad NBU 922-31J3AS, NBU 922-31O1AS, NBU 922-31I3CS, NBU 922-31I4AS	NE/SE Sec. 31, T9S, R22E	Access: 550 ft Pipeline: 815 ft	None
CIGE 106D (NBU 922-32D) Directional Pad NBU 922-32F3T, NBU 922-32L1S, NBU 922-32K1S, NBU 922-32F2S	SE/NW Sec. 32, T9S, R22E	None	None
NBU 922-32J3 Directional Pad NBU 922-32J4CS	NW/SE Sec. 32, T9S, R22E	None	None
NBU 922-32IT, NBU 282 Directional Pad NBU 922-32P1BS	NE/SE Sec.32, T9S, R22E	None	None
(NBU 922-33D) Directional Pad NBU 922-33E2DS, NBU 922-33E3AS, NBU 922-33E3DS, NBU 922-33F3DS	CT/NW Sec. 33, T9S, R22E	Pipeline: 2009 ft	None
NBU 922-33K2	NE/SW Sec. 33, T9S, R22E	Access: 690 Pipeline: 277	None
(NBU 922-34E) Directional Pad NBU 922-34C3BS, NBU 922-34D2CS, NBU 922-34D3BS	SW/NW Sec. 34, T9S, R22E	Access: 537 ft Pipeline: 1356 ft	None
(NBU 922-34O) Directional Pad NBU 922-34P3CS	SW/SE Sec. 34, T9S, R22E	Access: 263 ft Pipeline: 1120 ft	None

Well Designation	Legal Description	Access/Pipeline Corridor	Cultural Resources
(NBU 1022-4B) Directional Pad NBU 922-33P2S, NBU 922-33O4S, NBU 922-33N4S, NBU 922-33P3S	NW/NE Sec. 4, 10S, R22E	Access: 67 ft Pipeline: 196 ft	None

The study area lies within the Uinta Basin physiographic unit, a distinctly bowl-shaped geologic structure (Stokes 1986:231). The Uinta Basin ecosystem is within the Green River drainage, considered to be the northernmost extension of the Colorado Plateau. The geology is comprised of Tertiary age deposits, which include Paleocene age deposits and Eocene age fluvial and lacustrine sedimentary rocks. The Uinta Formation, which is predominate in the project area, occurs as eroded outcrops (formed by fluvial deposited, stream laid interbedded sandstone and mudstone), and is known for its prolific paleontological localities. Specifically, the inventory area is situated west of the White River on both sides of Sand Wash in Uintah County, Utah. Elevation ranges from 4900 to 5040 ft asl. The project occurs within the Upper Sonoran Desert Shrub Association which includes sagebrush, shadscale, greasewood, mat saltbush, snakeweed, rabbitbrush, and prickly pear cactus. Modern disturbances include livestock grazing, roads, and oil/gas development.

CLASS I RESULTS AND RECOMMENDATIONS

The Class I literature review of Kerr-McGee Onshore's 46 proposed well locations and associated pipeline corridors in Township 9S, Range 22E and Township 10S, Range 22E resulted in the location of no cultural resources. Based on the findings, a determination of "no adverse impact" is recommended for the undertaking pursuant to Section 106, CFR 800.

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**Paleontological Assessment for
Anadarko Petroleum Corp.**

NBU #922-31F3S, 31F2S, 31J2S

Archy Bench Quadrangle
Uintah County, Utah

Prepared for

Anadarko Petroleum Corp.
and
School and Institutional Trust Land
Administration

Prepared by

SWCA Environmental Consultants

03/16/2009
SWCA #UT09-14314-02

**Paleontological Assessment for Anadarko Petroleum Corp.
NBU #922-31F3S, 31F2S, 31J2S Proposed Extension of Existing Well Pad**

Prepared for

Anadarko Petroleum Corp.

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1099 18th St. #1200
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and

State of Utah

School & Institutional Trust Lands Administration

675 East 500 South, Suite 500
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Prepared by:

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Utah State Permit 07-363**

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SWCA #UT09-14314-02

03/16/09

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1.0 PROJECT SUMMARY

- Paleontological assessment conducted at the request of Anadarko Petroleum Corp. and the State of Utah School & Institutional Trust Lands Administration (SITLA). Performed by SWCA Environmental Consultants.
 - Utah State Permit 07-363
- Paleontological records search and field survey for the expansion of a pre-existing well pad to accommodate three new wells.
- Field survey of proposed well pad and access route completed on 03/03/09 within NE ¼ SW ¼ of Section 31, T9S, R22E in Uintah County, Utah (USGS 7.5 Minute Archy Bench quadrangle).
 - 100-foot survey buffer around well pad.
- Geology
 - Geologic Units (mapped and observed):
 - Lower unit of the Uinta Formation (PFYC Class 5)
- Paleontology
 - No previous localities known in APE.
 - No new fossil localities discovered in area.
- Recommendation
 - **Clearance without further mitigation for well pad.**
 - If any subsurface bones or other potential fossils are encountered during construction anywhere within the project area, work in the immediate vicinity should cease, the BLM should be notified, and a qualified and BLM-permitted paleontologist should inspect the location before work continues.
- Distribution of Survey Report
 - Hard copies sent SITLA and Anadarko Petroleum Corp. Hard copy and electronic copies on file at the SWCA Vernal office.

2.0 INTRODUCTION

At the request of Anadarko Petroleum Corp. and the Bureau of Land Management SWCA Environmental Consultants conducted a paleontological records search and field survey for the expansion of a preexisting well pad (NBU# 922-31K-2TX) to accommodate three new wells (NBU#922-31F3S, 31F2S, 31J2S).

The proposed well pad expansion is located in Section 31, T9S, R22E in Uintah County, Utah (USGS 7.5 Minute Archy Bench quadrangle; See Map 1).

2.1 Laws, Regulations and Standards

Various laws, regulations, and standards govern how fossils on public lands maybe collected and preserved for future generations. The School and Institutional Trust Lands Administration (Utah State Owned Property) requires a permit and repository agreement with Utah Museum of Natural History for the curation and storage of all “critical paleontological resources” found on Trust Lands (Utah Division of Administrative Rules 807). Furthermore, the state of Utah requires oil, gas and hydrocarbon lessees to provide a paleontological surveys, when requested, prior to project approval (Utah Division of Administrative Rules 850-21-700). A paleontological survey helps to ensure that proposed land use projects do not inadvertently damage or destroy “critical” paleontological resources on state trust lands. This report was prepared in order to describe the known paleontological resources in the area of potential effect for this project, and includes mitigation recommendations.

3.0 METHODS

The paleontological survey and evaluation procedures for this assessment were conducted according to State guidelines under Utah State Permit 07-363.

3.1 Personnel

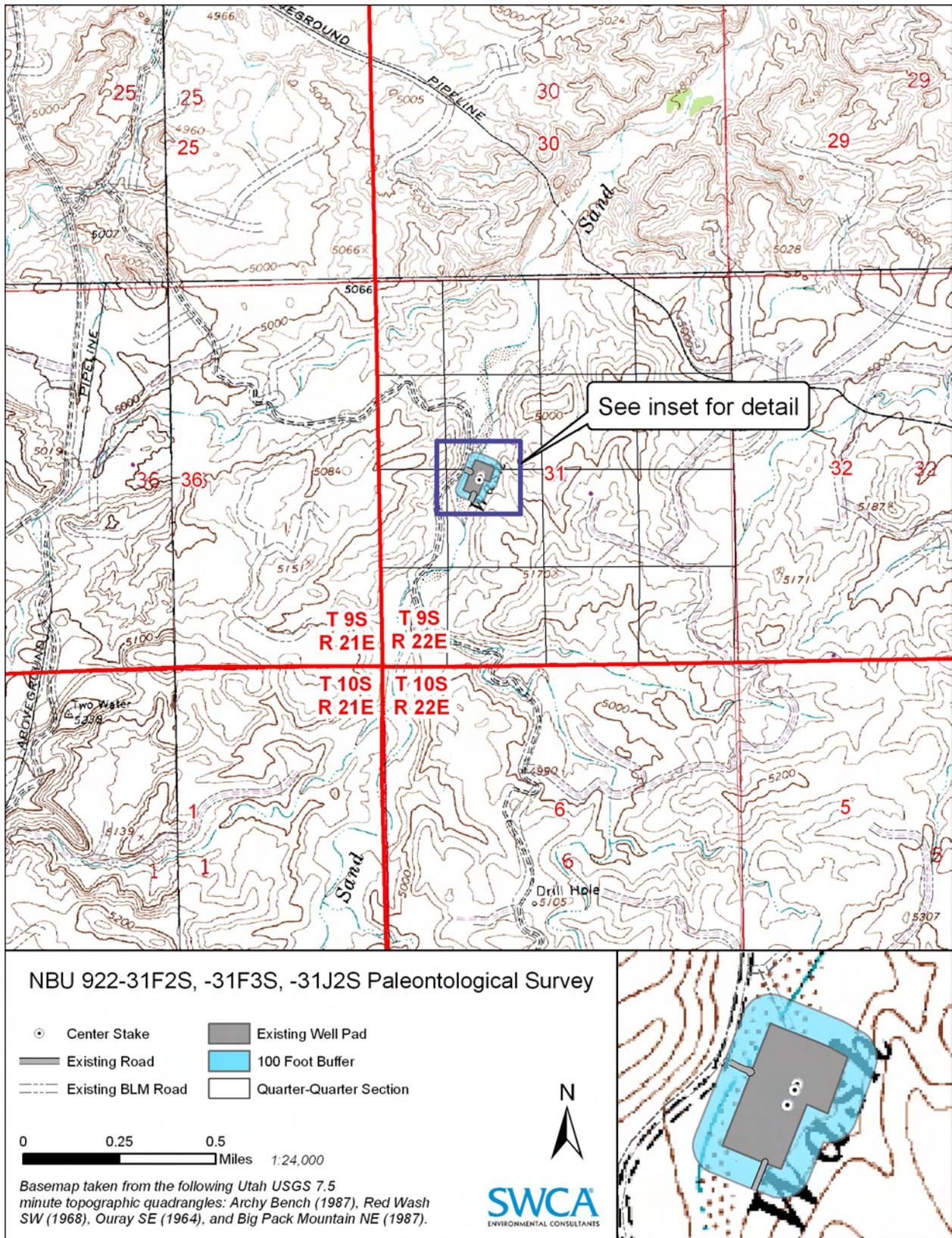
Benjamin J.Burger and Justin Strauss completed the field survey, conducted the file search and prepared the final report. Dr. Paul Murphey Principal Investigator on the BLM permit under which this survey was conducted reviewed the final report.

3.2 Records Search Methods

Records searches were conducted in order to 1) determine whether any previously recorded fossil localities occur within the project areas; 2) assess the potential for disturbance of these localities during construction; and 3) evaluate the paleontological sensitivity within the area of potential effect (APE). Electronic paleontological records maintained by the Utah Geological Survey, Paleontology Department were searched in order to determine the presence of previously documented fossil localities within the project APE.

3.3 Resource Assessment Methods

Geological units are assigned a Potential Fossil Yield Classification System (PFYC) number by the BLM Regional Paleontologists based upon the known paleontology resources from the geological unit and the potential for future significant fossils to be discovered.



Map 1. Location of Anadarko Petroleum Corp. Proposed 3 wells to be drilled NBU 922-31F3S, 31F2S, and 31 J2S (on existing well pad NBU#922-31K-2TX).

3.4 Field Methods

The survey was designed to 1) determine the surface presence of previously unknown significant vertebrate fossils and/or noteworthy occurrences of invertebrate, plant, or trace fossils; 2) evaluate the condition of documented paleontological localities and the potential for disturbance of these localities during the proposed construction; and 3) evaluate potential adverse impacts to subsurface paleontological resources during construction.

The paleontological field survey consisted of the area within the staked expansion of the well pad plus a 100-foot-wide buffer around the well pad. The APE was inspected for 1) surface fossils; 2) exposures of potentially fossiliferous rocks; and 3) areas in which fossiliferous rocks will be exposed or otherwise impacted during construction. The survey was 100% pedestrian of outcrop.

A paleontological locality documents the location, identification and description of a scientifically significant fossil(s) along with its geologic context. In addition, however, we record the presence of highly weathered, fragmentary or otherwise unidentifiable fossils as non-significant fossil occurrences which typically consist of fragments of turtle shell, unidentifiable bone and tooth fragments, and unidentifiable plant fossils in order to communicate the presence of fossils in a manner that does not trigger mitigation measures. Typically, fossil locality forms and maps are provided only for significant fossil localities which are either collected at the time of discovery or recommended for avoidance and/or later mitigation.

3.5 Distribution of Data

Copies of this report will be submitted to BLM and Anadarko Petroleum Corp. Any newly recorded locality data will be submitted to the Utah Geological Survey, State Paleontologist. A hard-copy file will be retained at SWCA Environmental Consultants, Vernal office, along with relevant field notes, maps, and other data.

4.0 GEOLOGY AND PALEONTOLOGY

The East-West trending Uinta Mountains were uplifted during the Rocky Mountain-forming Laramide orogeny (Rasmussen et al. 1999) in the Paleocene Epoch (Stokes 1986), exposing the Paleozoic-age rocks in the core of the mountains and Mesozoic-age rocks along their flanks. In conjunction with the uplift, the southerly-adjacent synclinal Uinta Basin formed (Rasmussen et al. 1999). From the Paleocene to the middle Eocene, sediments from freshwater lakes and later from river channels, river deltas and floodplains filled the basin with sediments and accompanying fossils (Stokes 1986, Townsend 2004). From oldest to youngest, these rock units include the Wasatch, Green River, Uinta and Duchesne River formations. Collectively, these units represent the primary source of middle Eocene-aged vertebrate, invertebrate and plant fossils from Utah and Colorado, and are thus of great scientific importance. Locally, Pleistocene- and Holocene-aged sediments deposited by rivers, streams, gravity, and wind overlie the bedrock geologic units.

The project APE contains one mapped geologic unit (Rowley et al 1995): Eocene-age lower Uinta Formation.

4.1 Uinta Formation

The middle Eocene Uinta Formation preserves a rich fossil record extending from about 46.5 to 40 million years ago (Prothero 1996). During this period, Earth's climate slowly cooled from the previously intense warm period of the early Eocene (Zachos et al. 2001). Many fossil mammals from the Uinta Formation represent a mix of modern and ancient forms (Scott and Osborn 1890; Peterson 1919; Robinson et al. 2004; Townsend 2004).

Fossil mammals known from the Uinta Formation include the carnivorous mammals *Mesonyx* and *Harpagolestes*, members of the Mesonychidae, an extinct family of mammals distantly related to whales and even-toed hoofed mammals. Mesonychids exhibit large sharp teeth and claws with the superficial appearance of modern wolves (Scott 1888; Peterson 1931). The Uinta Formation also produces remains of large six horned, saber toothed beasts call *Uintatheres*. As a member of the long extinct mammalian order Dinocerata, *Uintathere* fossils are featured in many museum exhibits (Wheeler 1961). Another large but uncommon mammal fossil known from the Uinta Formation is the early chalicothere *Eomorpus*. Long extinct, chalicotheres are a group of perissodactyl (odd toed ungulate) mammals that featured long forelegs equipped with claws used to strip vegetation for food, yet retained a horse like skull. A small fossil mammal known from the Uinta Formation is *Apatemys*, an arboreal animal with long anterior incisors adapted to feed on bark grubs and other insects. The Uinta Formation also preserves some of the last remaining early primates in North America (Townsend, 2004), including the omomyid primates *Macrotarsius*, *Ourayia*, *Trogolemur* and the more recently described *Chipetaia* (Rasmussen 1996). Primates would eventually vanish from North America as the climate continued to cool into the Oligocene Epoch (about 35 million years ago; Townsend 2004). The small bodied hyaenodontid creodonts, a sister group to modern carnivores co-occur with early ancestors of modern cats and dogs including *Procynodictis*, *Tapocyon* and *Prodaphaenus* in the Uinta Formation (Flynn and Galiano 1982, Townsend 2004). Other fossil mammals known from the Uinta Formation include a great diversity of rodents, representing six families (Robinson et al. 2004), and the earliest North American rabbit *Mytonolagus* (Dawson 1970). The Uinta Formation also preserves an excellent record of the early diversification of Artiodactyls (even toed ungulates) including the early camel *Poebrodon* and the deer-like *Leptotragulus* (Gazin 1955). Remains of Perissodactyls are equally diverse, including the early rhino *Amynodon*, the tapiriod *Colodon*, early horse *Epihippus* (Granger 1908), as well numerous large brontotheres (Riggs 1912; Osborn 1929).

More common than mammal fossils, reptile remains from the Uinta Formation include a rich record of turtles including *Baena*, *Echmatemys* and *Trionyx*. Fossil teeth, bones and osteoderms of ancient crocodiles are common throughout the formation.

Because of its diverse and locally abundant mammalian fossils, the Uinta Formation was designated as the stratotype for the Uintan North American Land Mammal Age (Wood et al. 1940). Subsequently, Uintan aged strata have been documented at other locations in North America using the exceptional fossil record of the Uinta Formation in the Uinta Basin for comparison (Flynn 1986, Walsh 1996; Townsend 2004; Murphey and Evanoff 2007).

The following museums have fossils from the Uinta Formation in their collections:

American Museum of Natural History, New York, New York.
Carnegie Museum of Natural History, Pittsburgh, Pennsylvania.
Smithsonian National Museum of Natural History, Washington, D.C.
Vernal Field House of Natural History, Vernal, Utah.
Yale Peabody Museum, New Haven, Connecticut.

Smaller collections are known from:

Brigham Young University Earth Science Museum, Provo, Utah.
Utah Museum of Natural History, Salt Lake City, Utah.
Museum of Comparative Zoology, Harvard University, Cambridge, Massachusetts.
Field Museum of Natural History, Chicago, Illinois.
University of Colorado Museum of Natural History, Boulder, Colorado.

Lithologically, the Uinta Formation consists of greenish-gray, reddish-brown, yellow, grayish-orange, and purple fluvial and lacustrine shale marlstone, siltstone, and sandstone beds which are locally tuffaceous (Cashion 1973; Dane 1954; Rowley et al. 1985). In general terms, the Uinta Formation conformably overlies and interfingers with the Green River Formation in the Uinta and Piceance Creek Basins, and is overlain by the Duchesne River Formation in the Uinta Basin. Despite its historical and scientific importance to vertebrate paleontology, the detailed stratigraphy of the Uinta Formation is complex and not yet fully understood.

Named by Marsh (1871), geologists have subdivided the Uintan Formation from stratigraphically lowest to highest into three horizons A, B, and C. The A and B horizons represents the Wagonhound Member of the Uinta Formation, and the C horizon represents the Myton Member. The mudstone and claystone-dominated horizons (Uinta B and C) contain many well preserved fossil remains, while fossils recovered from the sandstone dominated horizon (Uinta A) are less well preserved and rare. The specific location of these subunit boundaries has shifted slightly with almost each successive publication on the stratigraphy of the area, resulting in a well-understood broad picture for which the stratigraphic details are hazy and the biostratigraphy unresolved (Walsh 1996). The most recent stratigraphic and paleontologic work in the Uinta Formation has included important efforts to better characterize and document the lithostratigraphy, biostratigraphy paleoecology, and paleoenvironments of the Uinta Formation and time-equivalent strata (see Rasmussen et al. 1999; Townsend 2004; Walsh 1996; Townsend et al. 2006). Documentation of where fossils are recovered within the Uinta Formation remains essential for understanding how life and the environment changed during this long interval of time.

5.0 RESULTS

The following section presents the results of the records search and field survey conducted for the Anadarko Petroleum Corp. for the expansion of a preexisting well pad.

5.1 Previously Documented Localities

The nearest important fossil locality is located 0.38 miles toward the north-west direction from the proposed pad extension. This locality yielded remains of the agriochoerid artiodactyl *Protoreodon*, brontothere postcranial elements, and abundant turtle bone and shell fragments. Twelve previously recorded fossil localities are reported within a 1-mile radius of the proposed well pad extension, most of which are located above the Sand Wash Creek where the well is located. None of these previously recorded fossil localities are located within the APE.

5.2 Paleontological Sensitivities

The paleontological sensitivity of the one mapped geologic unit (Rowley et al 1995) in the project APE has been classified according to the PFYC by the BLM and is summarized in Table 1.

Table 1. Paleontological Sensitivities of Geologic Units Within the Project APE.

Geologic Unit	Map Symbol*	Age	Typical Fossils	PFYC
Uinta Formation, lower part	Tul	Eocene	Locally abundant plants (leaves, seeds, wood); invertebrates (insects, mollusks); and a highly diverse and scientifically important vertebrate fauna (reptiles, mammals)	Class 5

* Rowley et al 1995

5.3 Field Survey

922-31F3S, 31F2S, 31J2S	Well pad extension on preexisting well pad		
Location:	NE ¼ SW ¼ Section 31, T9S, R22E		
Surveyed on:	3/3/2009	By:	Ben Burger and Justin Strauss
Survey Remarks:	100% pedestrian survey of existing well pad with proposed 3 new wells and new pit.		
Photos:	Figures 1-5		
Geologic Formation(s):	Uinta Fm, lower Mbr	Eocene	PFYC Class 5
Reference:	Rowley et al 1995		
Topography:	Located within Sand Wash, against the eastern wall.		
Bedrock Exposure Status:	Extensive bedrock exposure along eastern side of pad forming a large cliff.		
Geologic Description:	Coarsed grained fluvial sandstone, lag deposits up to 1 cm diameter, dark brown to black clasts, interbedded with gray-green and red-brown mudstones and claystones.		
Fossil Status:	None		
Fossil Description:	N/A		
Recommendation:	Immediate paleontological clearance. However, if any subsurface bones or other potential fossils are encountered during construction anywhere within the project area, work in the immediate vicinity should cease, the BLM should be notified, and a qualified and BLM-permitted paleontologist should inspect the location <i>before</i> work continues.		



Figure 1. View from center stake, facing north.



Figure 2. View from center stake facing east. Note extensive badlands exposures forming large cliff against well pad's eastern edge.



Figure 3. View from center stake, facing south.



Figure 4. View from center stake, facing west.

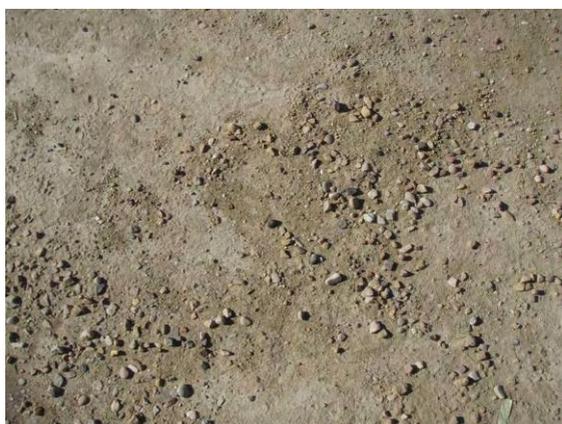


Figure 5. View of ground at center stake.

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720-929-6000

May 5, 2009

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

Re: Directional Drilling R649-3-11
NBU 922-31F2S
T9S-R22E
Section 31: SENW
Surface: 2626' FSL, 1451' FWL
Bottom Hole: 1737' FNL, 1258' FWL
Uintah County, Utah

Dear Mrs. Mason:

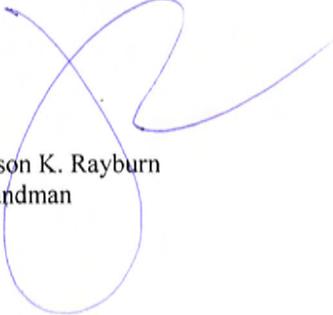
Pursuant to the filing of Kerr-McGee Oil & Gas Onshore LP's (Kerr-McGee) Application for Permit to Drill regarding the above referenced well, we are hereby submitting this letter in accordance with Oil & Gas Conservation Rule R649-3-11 pertaining to the Exception to Location and Siting of Wells.

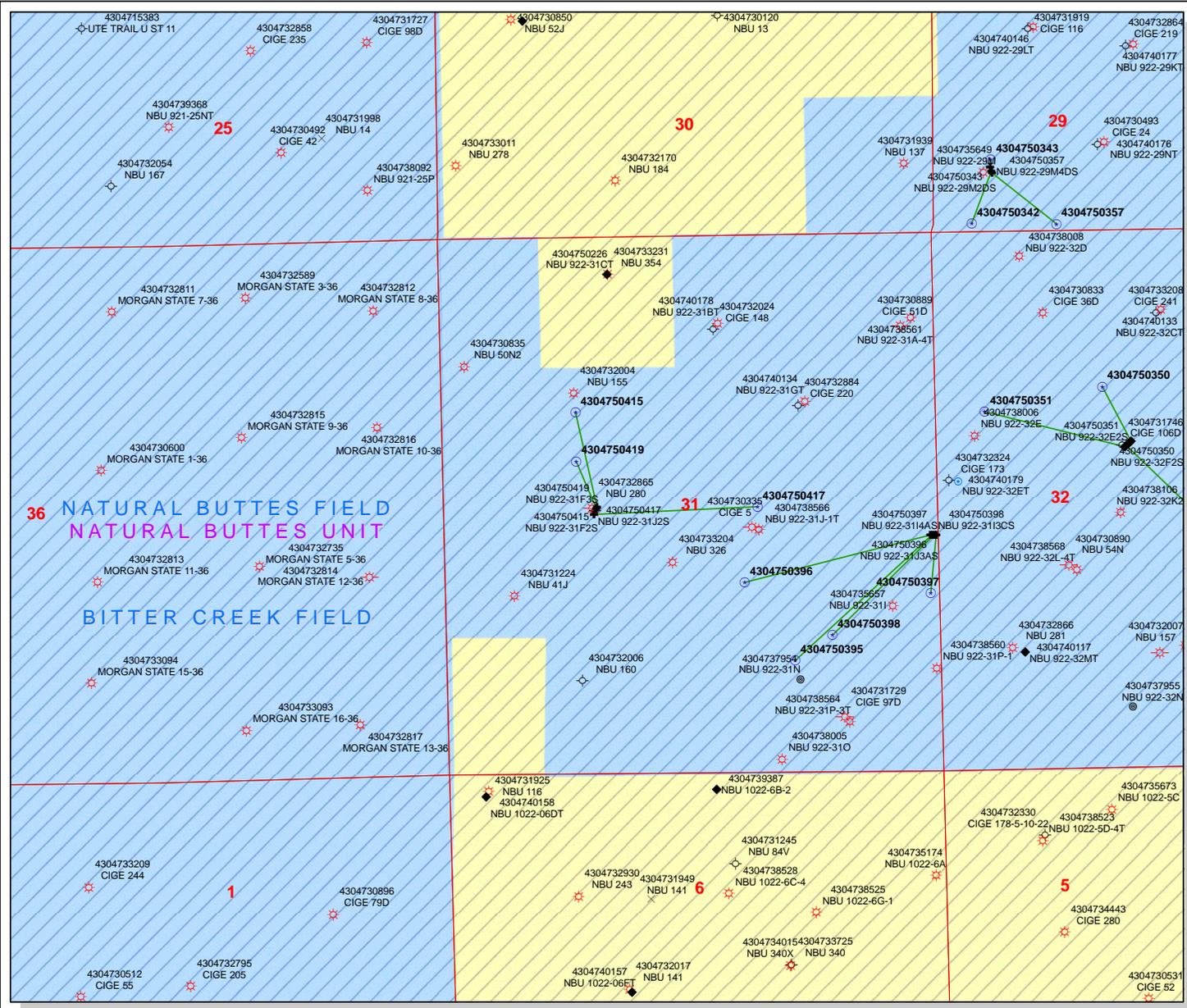
- Kerr-McGee's NBU 922-31F2S located within the Natural Buttes Unit area.
- Kerr-McGee is permitting this well as a directional well in order to minimize surface disturbance. Locating the well at the surface location and directionally drilling from this location, Kerr-McGee will be able to utilize the 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

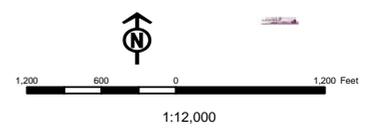

Jason K. Rayburn
Landman



API Number: 4304750415
Well Name: NBU 922-31F2S
Township 09.0 S Range 22.0 E Section 31
Meridian: SLBM
 Operator: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Map Prepared:
 Map Produced by Diana Mason

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



From: Jim Davis
To: Bonner, Ed; Mason, Diana
Date: 6/1/2009 8:12 AM
Subject: Well approvals. 3 for Anadarko.

CC: Garrison, LaVonne
The following wells have been approved by SITLA including arch and paleo clearance.

NBU 922-31F2S (4304750415)
NBU 922-31J2S (4304750417)
NBU 922-31f3S (4304750419)

-Jim

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

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)

June 5, 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)		
43-047-50415	NBU 922-31F2S Sec 31	T09S R22E 2626 FSL 1451 FWL BHL Sec 31 T09S R22E 1737 FNL 1258 FWL
43-047-50417	NBU 922-31J2S Sec 31	T09S R22E 2552 FSL 1420 FWL BHL Sec 31 T09S R22E 2611 FSL 1837 FEL
43-047-50419	NBU 922-31F3S Sec 31	T09S R22E 2607 FSL 1443 FWL BHL Sec 31 T09S R22E 2215 FNL 1258 FWL
43-047-50428	NBU 1022-18I4BS Sec 18	T10S R22E 0213 FSL 0292 FEL BHL Sec 18 T10S R22E 1690 FSL 0580 FEL
43-047-50429	NBU 1022-18O1AS Sec 18	T10S R22E 0231 FSL 0301 FEL BHL Sec 18 T10S R22E 1115 FSL 1400 FEL
43-047-50430	NBU 1022-18P1DS Sec 18	T10S R22E 0196 FSL 0283 FEL BHL Sec 18 T10S R22E 0855 FSL 0050 FEL
43-047-50431	NBU 1022-18P4AS Sec 18	T10S R22E 0178 FSL 0274 FEL BHL Sec 18 T10S R22E 0505 FSL 0050 FEL
43-047-50446	NBU 922-32J4CS Sec 32	T09S R22E 1453 FSL 2398 FEL BHL Sec 32 T09S R22E 1463 FSL 1902 FEL
43-047-50461	NBU 1022-24O2S Sec 24	T10S R22E 0684 FSL 2016 FEL

BHL Sec 24 T10S R22E 1060 FSL 2080 FEL

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:6-5-09

Well Name	KERR-MCGEE OIL & GAS ONSHORE, L.P. NBU 922-31F2S 43047504150		
String	Surf	Prod	
Casing Size(")	9.625	4.500	
Setting Depth (TVD)	2150	9240	
Previous Shoe Setting Depth (TVD)	20	2150	
Max Mud Weight (ppg)	8.3	11.6	
BOPE Proposed (psi)	500	5000	
Casing Internal Yield (psi)	3520	7780	
Operators Max Anticipated Pressure (psi)	5769	12.0	

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

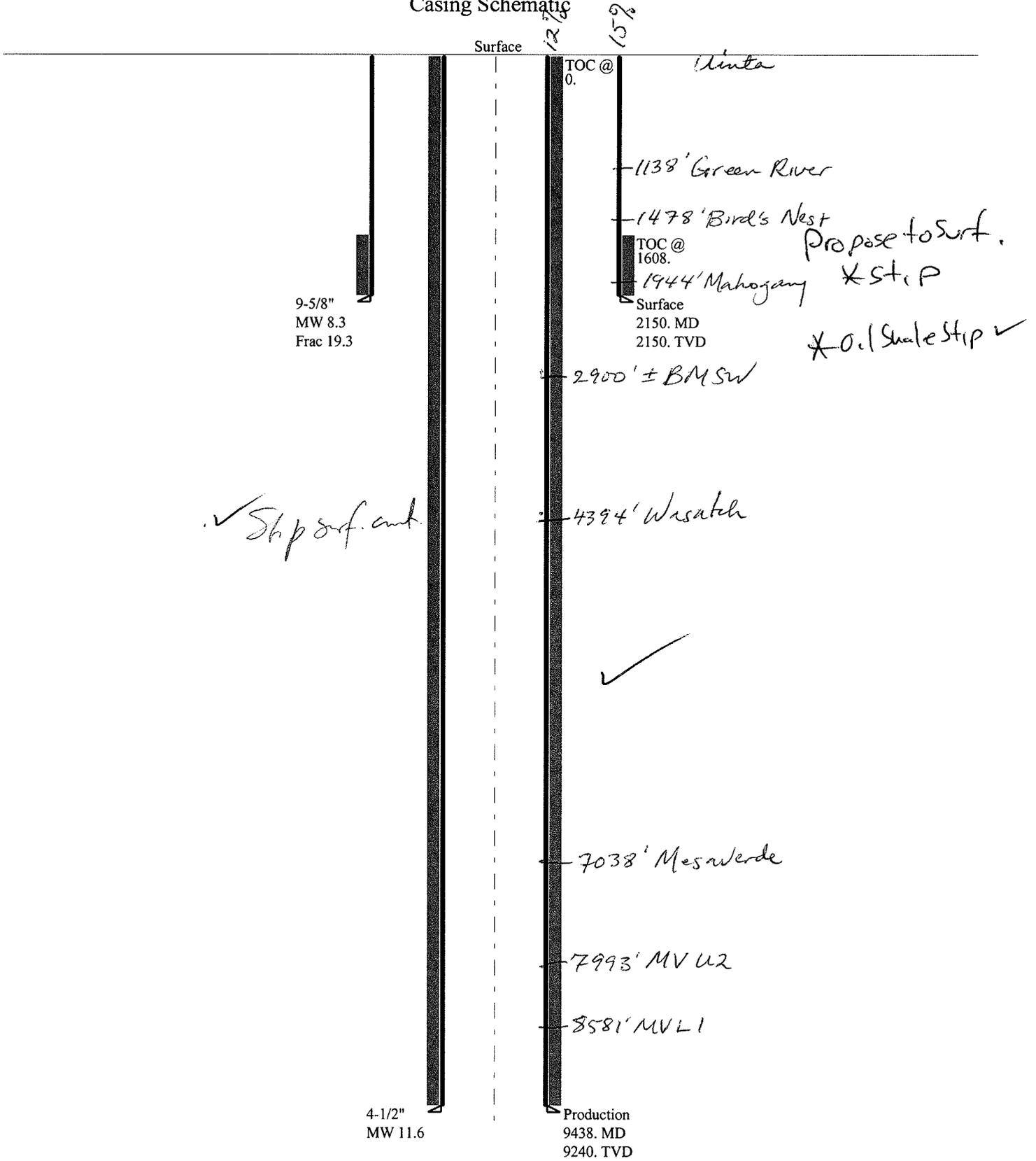
Calculations	Prod String	4.500	"
Max BPH (psi)	$.052 * \text{Setting Depth} * \text{MW} =$	5574	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	$\text{Max BHP} - (0.12 * \text{Setting Depth}) =$	4465	YES
MASP (Gas/Mud) (psi)	$\text{Max BHP} - (0.22 * \text{Setting Depth}) =$	3541	YES OK
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	$\text{Max BHP} - .22 * (\text{Setting Depth} - \text{Previous Shoe Depth}) =$	4014	NO Reasonable, note max allowed pressure
Required Casing/BOPE Test Pressure=		5000	psi
*Max Pressure Allowed @ Previous Casing Shoe=		2150	psi *Assumes 1psi/ft frac gradient

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

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

43047504150000 NBU 922-31F2S

Casing Schematic



Well name:	43047504150000 NBU 922-31F2S		
Operator:	KERR-MCGEE OIL & GAS ONSHORE, L.P.		
String type:	Surface	Project ID:	43-047-50415
Location:	UINTAH COUNTY		

Design parameters:

Collapse

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

Minimum design factors:

Collapse:

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
 Surface temperature: 74 °F
 Bottom hole temperature: 104 °F
 Temperature gradient: 1.40 °F/100ft
 Minimum section length: 100 ft
 Cement top: 1,608 ft

Burst

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

No backup mud specified.

Tension:

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

Tension is based on air weight.
 Neutral point: 1,885 ft

Non-directional string.

Re subsequent strings:

Next setting depth: 9,240 ft
 Next mud weight: 11,600 ppg
 Next setting BHP: 5,568 psi
 Fracture mud wt: 19,250 ppg
 Fracture depth: 2,150 ft
 Injection pressure: 2,150 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	2150	9.625	36.00	J-55	LT&C	2150	2150	8.796	17581

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	930	2020	2.171	2150	3520	1.64	77.4	453	5.85 J

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

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

Date: June 18, 2009
 Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 2150 ft, a mud weight of 8.33 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Well name:	43047504150000 NBU 922-31F2S		
Operator:	KERR-MCGEE OIL & GAS ONSHORE, L.P.		
String type:	Production	Project ID:	43-047-50415
Location:	UINTAH COUNTY		

Design parameters:

Collapse

Mud weight: 11.600 ppg
 Design is based on evacuated pipe.

Minimum design factors:

Collapse:

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
 Surface temperature: 74 °F
 Bottom hole temperature: 203 °F
 Temperature gradient: 1.40 °F/100ft
 Minimum section length: 100 ft
 Cement top: Surface

Burst

Max anticipated surface pressure: 3,535 psi
 Internal gradient: 0.220 psi/ft
 Calculated BHP 5,568 psi

No backup mud specified.

Tension:

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

Tension is based on air weight.
 Neutral point: 7,836 ft

Directional Info - Build & Drop

Kick-off point 2150 ft
 Departure at shoe: 931 ft
 Maximum dogleg: 3 °/100ft
 Inclination at shoe: 0 °

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	9438	4.5	11.60	I-80	LT&C	9240	9438	3.875	124582

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	5568	6360	1.142	5568	7780	1.40	107.2	212	1.98 J

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

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

Date: June 18, 2009
 Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 9240 ft, a mud weight of 11.6 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

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

ON-SITE PREDRILL EVALUATION

Utah Division of Oil, Gas and Mining

Operator KERR-MCGEE OIL & GAS ONSHORE, L.P.
Well Name NBU 922-31F2S
API Number 43047504150000 **APD No** 1532 **Field/Unit** NATURAL BUTTES
Location: 1/4,1/4 NESW **Sec** 31 **Tw** 9.0S **Rng** 22.0E 2626 FSL 1451 FWL
GPS Coord (UTM) **Surface Owner**

Participants

Floyd Bartlett (DOGM), Jim Davis (SITLA), Raleen White, Griz Oleen, Clay Einerson, Charles Chase and Tony Kzneck (Kerr McGee), Ben Williams (UDWR) and Kolby Kay (Timberline Engineering and Land Surveying).

Regional/Local Setting & Topography

The general area is the Natural Buttes Unit in the lower portion of the Sand Wash Drainage of Uintah, County, approximately 35 air miles and 51 road miles south of Vernal, Utah. Access is by State of Utah Highways, Uintah County and existing oilfield development roads to the site. Topography of the Sand Wash area is characterized by broad open flats dissected by numerous sub-drainages, which often become steep with ridges and draws with exposed sandstone layers. No perennial streams occur in the drainage. Individual draws or washes are ephemeral with spring runoff or flows from sometimes-intense summer rainstorms. No springs exist in the area. An occasional constructed pond occurs furnishing water for antelope or livestock.

The existing pad of the producing NBU 280 well will be extended on 3 sides to provide more width and length. Three additional directional wells will be drilled on the enlarged pad. They are the NBU 922-31F3S, NBU 922-31F2S and NBU 922-31J2S. The site is in the bottom of a canyon that runs to the north. It is surrounded on the east and west by hills with sandstone ledges. The defined drainage of the canyon is to the west beyond the location and contains tamarix vegetation. The surface of the existing location will be lowered 0.3 feet to obtain fill for enlarging the pad. The reserve pit will be cut into a slope on the northeast side of the location which has had significant previously excavation. A surface drainage ditch is needed on the east side of the pit extending north around the pit. The White River is approximately 3 miles down drainage.

Both the surface and minerals are owned by SITLA. Jim Davis represented SITLA at the pre-site investigation. Mr. Davis had no concerns pertaining to this location. The selected location appears to be a suitable site for drilling and operating additional wells.

Surface Use Plan

Current Surface Use

- Grazing
- Recreational
- Wildlife Habitat
- Existing Well Pad

New Road Miles	Well Pad	Src Const Material	Surface Formation
0	Width 305 Length 450	Onsite	UNTA

Ancillary Facilities N

Waste Management Plan Adequate?

Environmental Parameters

Affected Floodplains and/or Wetlands N

Flora / Fauna

Vegetation is a poor desert shrub type, which includes sagebrush, greasewood, cheatgrass, Russian thistle, tamarix, halogeton and spring annuals.

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

Soil Type and Characteristics

Deep sandy loam.

Erosion Issues N

Sedimentation Issues Y

A surface drainage ditch is needed on the east side of the pit extending north around the pit.

Site Stability Issues N

Drainage Diversion Required? Y

A surface drainage ditch is needed on the east side of the pit extending north around the pit.

Berm Required? N

Erosion Sedimentation Control Required? Y

A surface drainage ditch is needed on the east side of the pit extending north around the pit.

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

Reserve Pit

Site-Specific Factors

Site Ranking

Distance to Groundwater (feet)	>200	0	
Distance to Surface Water (feet)	>1000	0	
Dist. Nearest Municipal Well (ft)	>5280	0	
Distance to Other Wells (feet)		20	
Native Soil Type	Mod permeability	10	
Fluid Type	Fresh Water	5	
Drill Cuttings	Normal Rock	0	
Annual Precipitation (inches)		0	
Affected Populations			
Presence Nearby Utility Conduits	Not Present	0	
Final Score		35	1 Sensitivity Level

Characteristics / Requirements

The proposed reserve pit is 70' x 220' x 10' deep located in a cut on the northeast corner of the location. Kerr McGee plans a 30-mil liner with a double felt sub-liner.

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

Other Observations / Comments

Floyd Bartlett
Evaluator

5/20/2009
Date / Time

Application for Permit to Drill Statement of Basis

7/15/2009

Utah Division of Oil, Gas and Mining

Page 1

APD No	API WellNo	Status	Well Type	Surf Owner	CBM
1532	43047504150000	SITLA	GW	S	No
Operator	KERR-MCGEE OIL & GAS ONSHORE, L.P.		Surface Owner-APD		
Well Name	NBU 922-31F2S	Unit		NATURAL BUTTES	
Field	NATURAL BUTTES	Type of Work		DRILL	
Location	NESW 31 9S 22E S 2626 FSL 1451 FWL GPS Coord (UTM) 629369E 4427819N				

Geologic Statement of Basis

Kerr McGee proposes to set 2,150' of surface casing at this location. The depth to the base of the moderately saline water at this location is estimated to be at a depth of 2,900'. A search of Division of Water Rights records shows no water wells within a 10,000 foot radius of the center of section 31. The surface formation at this site is the Uinta Formation. The Uinta Formation is made up of interbedded shales and sandstones. The sandstones are mostly lenticular and discontinuous and should not be a significant source of useable ground water. Production casing cement should be brought to above the base of the moderately saline groundwater in order to isolate it from fresher waters uphole.

Brad Hill
APD Evaluator

6/3/2009
Date / Time

Surface Statement of Basis

The general area is the Natural Buttes Unit in the lower portion of the Sand Wash Drainage of Uintah, County, approximately 35 air miles and 51 road miles south of Vernal, Utah. Access is by State of Utah Highways, Uintah County and existing oilfield development roads to the site. Topography of the Sand Wash area is characterized by broad open flats dissected by numerous sub-drainages, which often become steep with ridges and draws with exposed sandstone layers. No perennial streams occur in the drainage. Individual draws or washes are ephemeral with spring runoff or flows from sometimes-intense summer rainstorms. No springs exist in the area. An occasional constructed pond occurs furnishing water for antelope or livestock.

The existing pad of the producing NBU 280 well will be extended on 3 sides to provide more width and length. Three additional directional wells will be drilled on the enlarged pad. They are the NBU 922-31F3S, NBU 922-31F2S and NBU 922-31J2S. The site is in the bottom of a canyon that runs to the north. It is surrounded on the east and west by hills with sandstone ledges. The defined drainage of the canyon is to the west beyond the location and contains tamarix vegetation. The surface of the existing location will be lowered 0.3 feet to obtain fill for enlarging the pad. The reserve pit will be cut into a slope on the northeast side of the location which has had significant previously excavation. A surface drainage ditch is needed on the east side of the pit extending north around the pit. The White River is approximately 3 miles down drainage.

Both the surface and minerals are owned by SITLA. Jim Davis represented SITLA at the pre-site investigation. Mr. Davis had no concerns pertaining to this location. The selected location appears to be a suitable site for drilling and operating additional wells.

Ben Williams of the Utah Division of Wildlife Resources also attended the pre-site. Mr. Williams stated no wildlife values would be significantly affected by drilling and operating the wells at this location.

Floyd Bartlett
Onsite Evaluator

5/20/2009
Date / Time

Application for Permit to Drill Statement of Basis

7/15/2009

Utah Division of Oil, Gas and Mining

Page 2

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

WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 5/11/2009

API NO. ASSIGNED: 43047504150000

WELL NAME: NBU 922-31F2S

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

PHONE NUMBER: 720 929-6156

CONTACT: Danielle Piernot

PROPOSED LOCATION: NESW 31 090S 220E

Permit Tech Review:

SURFACE: 2626 FSL 1451 FWL

Engineering Review:

BOTTOM: 1737 FNL 1258 FWL

Geology Review:

COUNTY: UINTAH

LATITUDE: 39.99254

LONGITUDE: -109.48466

UTM SURF EASTINGS: 629369.00

NORTHINGS: 4427819.00

FIELD NAME: NATURAL BUTTES

LEASE TYPE: 3 - State

LEASE NUMBER: ML23607

PROPOSED PRODUCING FORMATION(S): WASATCH-MESA VERDE

SURFACE OWNER: 3 - State

COALBED METHANE: NO

RECEIVED AND/OR REVIEWED:

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

Commingle Approved

LOCATION AND SITING:

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

Comments: Presite Completed

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



JON M. HUNTSMAN, JR.
Governor

GARY R. HERBERT
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

Well Name: NBU 922-31F2S
API Well Number: 43047504150000
Lease Number: ML23607
Surface Owner: STATE
Approval Date: 8/5/2009

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 the production from the Wasatch formation and the Mesaverde formation in this well is allowed.

General:

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

Conditions of Approval:

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

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

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

Surface casing shall be cemented to the surface.

Additional Approvals:

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

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

Notification Requirements:

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

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

Contact Information:

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

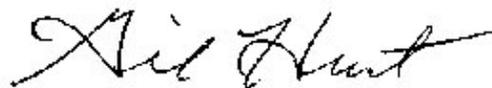
- Carol Daniels 801-538-5284 - office
- Dustin Doucet 801-538-5281 - office
801-733-0983 - after office hours
- Dan Jarvis 801-538-5338 - office
801-942-0871 - after office hours

Reporting Requirements:

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

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

Approved By:



Gil Hunt
Associate Director, Oil & Gas

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: ML23607
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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: 7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
--	--

1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: NBU 922-31F2S
------------------------------------	--

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047504150000
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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: 2626 FSL 1451 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NESW Section: 31 Township: 09.0S Range: 22.0E Meridian: S	COUNTY: UINTAH STATE: UTAH
---	---

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

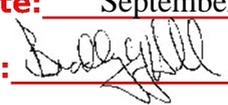
TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 9/14/2009 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<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 checked="" 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: Frac Factory Pit Refurb

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

Kerr-McGee Oil & Gas Onshore, LP is requesting to refurb the existing pit on this pad for completion operations. The refurb pit will be relined per the requirements in the COA of the APD. Upon completion of the wells on this pad KMG is also requesting to utilize this pit as a staging pit to be utilized for other completion operations in the area. There will be 2 - 400 bbl upright skim tanks placed on location. The trucks will unload water into these tank before the water is placed into the refurbished pit. The purpose of the skim tanks is to collect any hydro-carbons that may have been associated with the other completion operations before releasing into the pit. We plan to keep this pit open for 1 year. During this time the attached well location completion fluids will be recycled in this pit and utilized for other frac jobs in the area.

Approved by the Utah Division of Oil, Gas and Mining

Date: September 22, 2009

By: 

NAME (PLEASE PRINT) Raleen White	PHONE NUMBER 720 929-6666	TITLE Sr. Regulatory Analyst
SIGNATURE N/A		DATE 9/14/2009



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Sundry Conditions of Approval Well Number 43047504150000

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

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

Date: September 22, 2009

By: 

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: ML23607
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: 7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: NBU 922-31F2S
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047504150000
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: 2626 FSL 1451 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NESW Section: 31 Township: 09.0S Range: 22.0E Meridian: S	9. FIELD and POOL or WILDCAT: NATURAL BUTTES COUNTY: Uintah STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input checked="" type="checkbox"/> SPUD REPORT Date of Spud: 10/7/2009	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<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" 36.7# SCHEDULE 10 PIPE. CMT W/28 SX READY MIX. SPUD WELL LOCATION ON 10/07/2009 AT 16:00 HRS.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
 October 12, 2009

NAME (PLEASE PRINT) Andy Lytle	PHONE NUMBER 720 929-6100	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 10/8/2009	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: ML23607
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: 7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: NBU 922-31F2S	
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047504150000	
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: 2626 FSL 1451 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NESW Section: 31 Township: 09.0S Range: 22.0E Meridian: S	COUNTY: UINTAH STATE: UTAH	

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input 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: 10/15/2009	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<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 10/13/2009. DRILLED 12-1/4" SURFACE HOLE TO 2140'. RAN 9-5/8" 36# J-55 SURFACE CSG. START FLUSH 140 BBLS OF H2O, PUMP 20 BBLS OF GEL WATER. PUMP 200 SX CLASS G HI FILL LEAD CMT @ 11.0 PPG, 3.82 YIELD. CIRC THROUGHOUT. PUMP 200 SX CLASS PREM TAIL @ 15.8 PPG, 1.15 YIELD. DROP PLUG ON FLY, DISPLACE W/150 BBLS OF H2O, LIFT PRESSURE 230, BUMP PLUG 900 PSI, CHECK FLOAT, FLOAT HELD. 15 BBLS GEL WATER TO PIT. WATER FELL. PUMP SAME TAIL CMT (150 SX) 30.7 BBLS DOWN 1" DISPLACE OUT GEL WATER AND LEAD CMT W/15.8# 4% CALC2 TAIL CMT. CEMENT FELL. WILL TOP OUT ON NEXT JOB. WORT.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
 October 19, 2009

NAME (PLEASE PRINT) Andy Lytle	PHONE NUMBER 720 929-6100	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 10/16/2009	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: ML23607
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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: 7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
--	--

1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: NBU 922-31F2S
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2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047504150000
---	---

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: 2626 FSL 1451 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NESW Section: 31 Township: 09.0S Range: 22.0E Meridian: S	COUNTY: UINTAH STATE: UTAH
---	---

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER:
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:			
<input type="checkbox"/> SPUD REPORT Date of Spud:			
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 11/14/2009			

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

FINISHED DRILLING FROM 2140' TO 9343' ON 11/12/2009. RAN 4-1/2" 11.6# I-80 PRODUCTION CSG. PUMP 40 BBLs FRESH WATER. LEAD CMT W/460 SX CLASS G ECONOCHEM @ 12.0 PPG, 2.25 YIELD. TAILED CMT W/1350 SX CLASS G 50/50 POZ MIX @ 14.3 PPG, 1.26 YIELD. DROPPED PLUG & DISPLACED W/144 BLS FRESH WATER W/0.1 GAL/BBL ALDACIDE @ 2680 PSI. BUMPED PLUG @ 3117 PSI. GOOD RETURNS DURING CMT & DISPLACEMENT W/15 BBLs WATER BACK TO SURFACE. NO CMT TO SURFACE. R/DN. CLEAN RIG TANKS. RELEASE ENSIGN 146 RIG ON 11/14/2009 AT 23:59 HRS.

Accepted by the
 Utah Division of
 Oil, Gas and Mining
FOR RECORD ONLY
 November 16, 2009

NAME (PLEASE PRINT) Andy Lytle	PHONE NUMBER 720 929-6100	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 11/16/2009	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
5. LEASE DESIGNATION AND SERIAL NUMBER: ML23607	

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

1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: NBU 922-31F2S
------------------------------------	--

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047504150000
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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: 2626 FSL 1451 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NESW Section: 31 Township: 09.0S Range: 22.0E Meridian: S	COUNTY: Uintah
STATE: UTAH	

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input 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 style="width: 50px;" type="text"/>
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:			
<input type="checkbox"/> SPUD REPORT Date of Spud:			
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 8/28/2010			

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

THE SUBJECT WELL WAS PLACED ON PRODUCTION ON AUGUST 28, 2010 AT 8:47 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
 August 30, 2010

NAME (PLEASE PRINT) Gina Becker	PHONE NUMBER 720 929-6086	TITLE Regulatory Analyst II
SIGNATURE N/A	DATE 8/30/2010	

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

AMENDED REPORT FORM 8
(highlight changes)

WELL COMPLETION OR RECOMPLETION REPORT AND LOG	5. LEASE DESIGNATION AND SERIAL NUMBER: ML23607
	6. IF INDIAN, ALLOTTEE OR TRIBE NAME

1a. TYPE OF WELL: OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> DRY <input type="checkbox"/> OTHER _____	7. UNIT or CA AGREEMENT NAME: UTU63047A
b. TYPE OF WORK: NEW WELL <input checked="" type="checkbox"/> HORIZ. LATS. <input type="checkbox"/> DEEP-EN <input type="checkbox"/> RE-ENTRY <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> OTHER _____	8. WELL NAME and NUMBER: NBU 922-31F2S

2. NAME OF OPERATOR: KERR MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 4304750415
---	-------------------------------------

3. ADDRESS OF OPERATOR: P.O. BOX 173779 CITY DENVER STATE CO ZIP 80217	PHONE NUMBER: (720) 929-6100	10. FIELD AND POOL, OR WILDCAT: NATURAL BUTTES
--	--	--

4. LOCATION OF WELL (FOOTAGES) AT SURFACE: NESW 2626 FSL 1451 FWL S31,T9S,R22E AT TOP PRODUCING INTERVAL REPORTED BELOW: SENW 1718 FNL 1251 FWL S31, T9S, R22E AT TOTAL DEPTH: SENW 17⁶⁰ FNL 124⁶ FWL S31, T9S, R22E	11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NESW 31 9S 22E S
	12. COUNTY: UINTAH 13. STATE: UTAH

14. DATE SPURRED: 10/7/2009	15. DATE T.D. REACHED: 11/12/2009	16. DATE COMPLETED: 8/28/2010	ABANDONED <input type="checkbox"/> READY TO PRODUCE <input checked="" type="checkbox"/>	17. ELEVATIONS (DF, RKB, RT, GL): 4840 GL
---------------------------------------	---	---	---	---

18. TOTAL DEPTH: MD 9,343 TVD 9,219.20	19. PLUG BACK T.D.: MD 9,316 TVD 9,192.3	20. IF MULTIPLE COMPLETIONS, HOW MANY? *	21. DEPTH BRIDGE MD PLUG SET: TVD
---	---	--	--------------------------------------

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each) ✓ CBL/GR-HVL-TRIPLE COMBO	23. WAS WELL CORED? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> (Submit analysis) WAS DST RUN? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> (Submit report) DIRECTIONAL SURVEY? NO <input type="checkbox"/> YES <input checked="" type="checkbox"/> (Submit copy)
---	---

24. CASING AND LINER RECORD (Report all strings set in well)									
HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
20"	14" STL	36.7#		40		28			
12 1/4"	9 5/8" J-55	36#		2,125		550			
7 7/8"	4 1/2" I-80	11.6#		9,337		1,810			

25. TUBING RECORD								
SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 3/8"	8,693							

26. PRODUCING INTERVALS					27. PERFORATION RECORD				
FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)	INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS	
(A) WASATCH	7,190	7,192			7,190 7,192	0.36	8	Open <input checked="" type="checkbox"/>	Squeezed <input type="checkbox"/>
(B) MESAVERDE	7,239	9,221			7,239 9,221	0.36	172	Open <input checked="" type="checkbox"/>	Squeezed <input type="checkbox"/>
(C)								Open <input type="checkbox"/>	Squeezed <input type="checkbox"/>
(D)								Open <input type="checkbox"/>	Squeezed <input type="checkbox"/>

28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.	
DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
7190 - 9221	PUMP 11,354 BBLs SLICK H2O & 451,935 LBS 30/50 SAND

RECEIVED
OCT 13 2010
DIV. OF OIL, GAS & MINING

29. ENCLOSED ATTACHMENTS: <input type="checkbox"/> ELECTRICAL/MECHANICAL LOGS <input type="checkbox"/> GEOLOGIC REPORT <input type="checkbox"/> DST REPORT <input checked="" type="checkbox"/> DIRECTIONAL SURVEY <input type="checkbox"/> SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION <input type="checkbox"/> CORE ANALYSIS <input type="checkbox"/> OTHER: _____	30. WELL STATUS: PROD
--	---------------------------------

31. INITIAL PRODUCTION

INTERVAL A (As shown in item #26)

DATE FIRST PRODUCED: 8/28/2010		TEST DATE: 9/11/2010		HOURS TESTED: 24		TEST PRODUCTION RATES: →	OIL - BBL: 25	GAS - MCF: 2,608	WATER - BBL: 468	PROD. METHOD: FLOWING
CHOKE SIZE: 18/64	TBG. PRESS. 1,662	CSG. PRESS. 2,107	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL - BBL: 25	GAS - MCF: 2,608	WATER - BBL: 468	INTERVAL STATUS: PROD

INTERVAL B (As shown in item #26)

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

INTERVAL C (As shown in item #26)

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

INTERVAL D (As shown in item #26)

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

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

33. SUMMARY OF POROUS ZONES (Include Aquifers):

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

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
GREEN RIVER	1,189				
BIRD'S NEST	1,451				
MAHOGANY	1,914				
WASATCH	4,493	7,226			
MESAVERDE	7,226	9,343	TD		

34. FORMATION (Log) MARKERS:

35. ADDITIONAL REMARKS (Include plugging procedure)

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

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

NAME (PLEASE PRINT) ANDREW LYTLE

TITLE REGULATORY ANALYST

SIGNATURE 

DATE 10/5/2010

This report must be submitted within 30 days of

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

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

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

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

Phone: 801-538-5340

Fax: 801-359-3940

1 General

1.1 Customer Information

Company	US ROCKIES REGION
Representative	
Address	

1.2 Well Information

Well	NBU 922-31F2S RED	Wellbore No.	OH
Well Name	NBU 922-31F2S	Common Name	NBU 922-31F2S
Project	UTAH-UINTAH	Site	NBU 922-31K PAD
Vertical Section Azimuth	348.12 (°)	North Reference	True
Origin N/S		Origin E/W	
Spud Date	10/14/2009	UWI	NE/SW/0/9/S/22/E/31/0/0/26/PM/S/2,626.00/W/0/1,451.00/0/0
Active Datum	RKB @4,855.01ft (above Mean Sea Level)		

2 Survey Name

2.1 Survey Name: Survey #1

Survey Name	Survey #1	Company	WEATHERFORD
Started	10/14/2009	Ended	
Tool Name	MWD	Engineer	JOSH MONROE

2.1.1 Tie On Point

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)
10.00	0.00	0.00	10.00	0.00	0.00

2.1.2 Survey Stations

Date	Type	MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Build (°/100ft)	Turn (°/100ft)	TFace (°)
10/14/2009	Tie On	10.00	0.00	0.00	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/14/2009	NORMAL	155.00	0.57	69.29	155.00	0.26	0.67	0.11	0.39	0.39	0.00	69.29
	NORMAL	185.00	0.39	84.68	185.00	0.32	0.92	0.12	0.73	-0.60	51.30	151.92
	NORMAL	215.00	0.59	56.60	215.00	0.41	1.15	0.17	1.02	0.67	-93.60	295.18
	NORMAL	245.00	0.59	84.49	244.99	0.51	1.43	0.21	0.95	0.00	92.97	103.94
	NORMAL	335.00	0.87	350.93	334.99	1.23	1.78	0.84	1.20	0.31	-103.96	233.44
	NORMAL	425.00	1.76	333.87	424.97	3.15	1.07	2.86	1.07	0.99	-18.96	327.57
	NORMAL	505.00	2.69	322.82	504.90	5.75	-0.61	5.75	1.27	1.16	-13.81	329.65
	NORMAL	595.00	3.38	336.69	594.78	9.86	-2.94	10.26	1.11	0.77	15.41	53.85
	NORMAL	685.00	3.50	347.07	684.62	14.98	-4.60	15.60	0.70	0.13	11.53	84.30
	NORMAL	775.00	3.63	347.82	774.44	20.44	-5.82	21.20	0.15	0.14	0.83	20.11
	NORMAL	865.00	3.56	347.57	864.27	25.95	-7.02	26.84	0.08	-0.08	-0.28	192.50
	NORMAL	955.00	3.38	345.32	954.10	31.25	-8.29	32.29	0.25	-0.20	-2.50	215.99
	NORMAL	1,045.00	3.19	347.45	1,043.95	36.26	-9.51	37.44	0.25	-0.21	2.37	148.34
	NORMAL	1,135.00	3.25	345.70	1,133.81	41.18	-10.68	42.49	0.13	0.07	-1.94	300.52
	NORMAL	1,225.00	2.94	338.95	1,223.68	45.80	-12.14	47.32	0.53	-0.34	-7.50	226.28
	NORMAL	1,315.00	2.88	346.57	1,313.57	50.16	-13.50	51.86	0.43	-0.07	8.47	102.61
	NORMAL	1,405.00	2.81	348.20	1,403.46	54.52	-14.47	56.33	0.12	-0.08	1.81	131.68
	NORMAL	1,495.00	2.50	344.82	1,493.36	58.57	-15.44	60.49	0.39	-0.34	-3.76	205.11
	NORMAL	1,585.00	3.19	354.82	1,583.25	62.96	-16.18	64.94	0.94	0.77	11.11	40.79
	NORMAL	1,675.00	3.31	357.70	1,673.10	68.05	-16.51	69.99	0.23	0.13	3.20	55.13

2.1.2 Survey Stations (Continued)

Date	Type	MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Build (°/100ft)	Turn (°/100ft)	TFace (°)
10/15/2009	NORMAL	1,765.00	2.88	356.20	1,762.97	72.90	-16.76	74.79	0.49	-0.48	-1.67	189.92
	NORMAL	1,855.00	2.44	355.82	1,852.88	77.07	-17.05	78.93	0.49	-0.49	-0.42	182.11
	NORMAL	1,945.00	2.13	353.95	1,942.80	80.64	-17.37	82.49	0.35	-0.34	-2.08	192.59
	NORMAL	2,035.00	2.50	350.20	2,032.73	84.24	-17.88	86.11	0.44	0.41	-4.17	335.86
11/7/2009	NORMAL	2,095.00	2.79	348.19	2,092.67	86.96	-18.40	88.88	0.51	0.48	-3.35	341.26
	NORMAL	2,187.00	2.69	331.59	2,184.56	91.05	-19.89	93.19	0.87	-0.11	-18.04	254.58
	NORMAL	2,232.00	2.69	327.70	2,229.51	92.87	-20.95	95.19	0.41	0.00	-8.64	268.06
	NORMAL	2,277.00	3.38	328.20	2,274.45	94.89	-22.22	97.43	1.53	1.53	1.11	2.45
	NORMAL	2,322.00	4.00	336.57	2,319.36	97.46	-23.54	100.21	1.82	1.38	18.60	45.21
	NORMAL	2,368.00	4.50	348.57	2,365.23	100.70	-24.53	103.59	2.21	1.09	26.09	66.73
	NORMAL	2,413.00	5.22	354.45	2,410.07	104.47	-25.08	107.39	1.94	1.60	13.07	37.63
	NORMAL	2,459.00	6.00	351.95	2,455.85	108.93	-25.62	111.87	1.78	1.70	-5.43	341.36
	NORMAL	2,504.01	7.00	352.82	2,500.56	113.98	-26.29	116.95	2.23	2.22	1.93	6.06
	NORMAL	2,549.01	7.81	359.32	2,545.19	119.76	-26.67	122.68	2.59	1.80	14.44	49.22
	NORMAL	2,594.01	8.69	7.20	2,589.72	126.19	-26.28	128.89	3.18	1.96	17.51	56.05
	NORMAL	2,640.01	10.04	5.35	2,635.11	133.63	-25.47	136.01	3.01	2.93	-4.02	346.52
	NORMAL	2,686.01	10.81	2.70	2,680.35	141.93	-24.90	144.01	1.97	1.67	-5.76	326.78
	NORMAL	2,730.01	11.56	0.20	2,723.51	150.46	-24.69	152.32	2.03	1.70	-5.68	325.88
	NORMAL	2,776.01	13.13	358.20	2,768.45	160.29	-24.83	161.97	3.54	3.41	-4.35	343.79
	NORMAL	2,821.01	14.75	356.95	2,812.12	171.12	-25.30	172.66	3.66	3.60	-2.78	348.86
	NORMAL	2,867.01	15.97	356.21	2,856.48	183.28	-26.03	184.72	2.69	2.65	-1.61	350.52
NORMAL	2,912.01	16.56	353.70	2,899.68	195.83	-27.14	197.23	2.04	1.31	-5.58	308.80	
NORMAL	2,957.01	17.31	350.70	2,942.73	208.82	-28.93	210.30	2.56	1.67	-6.67	309.20	
NORMAL	3,003.01	17.31	347.32	2,986.64	222.25	-31.54	223.98	2.19	0.00	-7.35	268.39	
11/8/2009	NORMAL	3,049.01	17.44	345.07	3,030.54	235.58	-34.81	237.70	1.49	0.28	-4.89	279.88
	NORMAL	3,093.01	18.38	343.95	3,072.41	248.62	-38.43	251.21	2.28	2.14	-2.55	339.34
	NORMAL	3,139.01	17.94	343.82	3,116.12	262.39	-42.41	265.50	0.96	-0.96	-0.28	185.20
	NORMAL	3,184.01	17.31	343.57	3,159.01	275.47	-46.23	279.09	1.41	-1.40	-0.56	186.73
	NORMAL	3,229.01	17.56	344.82	3,201.94	288.44	-49.91	292.54	1.00	0.56	2.78	56.87
	NORMAL	3,275.01	17.58	346.10	3,245.80	301.89	-53.39	306.41	0.84	0.04	2.78	87.65
	NORMAL	3,319.01	18.00	345.70	3,287.69	314.92	-56.67	319.84	0.99	0.95	-0.91	343.59
	NORMAL	3,365.01	19.13	345.70	3,331.30	329.11	-60.28	334.48	2.46	2.46	0.00	0.00
	NORMAL	3,410.01	19.31	344.45	3,373.79	343.43	-64.10	349.27	1.00	0.40	-2.78	293.03
	NORMAL	3,456.01	18.37	342.07	3,417.33	357.65	-68.37	364.07	2.64	-2.04	-5.17	218.15
	NORMAL	3,501.01	18.06	341.70	3,460.07	371.02	-72.74	378.05	0.74	-0.69	-0.82	200.28
	NORMAL	3,546.01	18.25	342.70	3,502.83	384.37	-77.03	392.00	0.81	0.42	2.22	59.10
	NORMAL	3,591.01	17.56	342.45	3,545.65	397.57	-81.17	405.77	1.54	-1.53	-0.56	186.24
	NORMAL	3,636.01	16.38	341.32	3,588.69	410.06	-85.25	418.82	2.72	-2.62	-2.51	195.08
	NORMAL	3,681.01	15.13	339.70	3,632.00	421.57	-89.32	430.93	2.94	-2.78	-3.60	198.61
	NORMAL	3,726.01	15.50	342.37	3,675.40	432.81	-93.18	442.72	1.77	0.82	5.93	63.61
	NORMAL	3,771.01	15.88	347.20	3,718.73	444.55	-96.37	454.86	3.02	0.84	10.73	76.11
	NORMAL	3,816.01	15.50	349.32	3,762.05	456.46	-98.84	467.03	1.53	-0.84	4.71	124.55
	NORMAL	3,861.01	15.81	348.95	3,805.38	468.39	-101.13	479.17	0.72	0.69	-0.82	341.97
	NORMAL	3,909.01	16.88	350.45	3,851.44	481.68	-103.54	492.67	2.40	2.23	3.12	22.25
	NORMAL	3,954.01	16.82	351.00	3,894.51	494.55	-105.64	505.70	0.38	-0.13	1.22	110.89
	NORMAL	3,999.01	16.81	349.70	3,937.59	507.38	-107.83	518.71	0.84	-0.02	-2.89	267.85
	NORMAL	4,044.01	16.75	350.57	3,980.67	520.18	-110.05	531.69	0.57	-0.13	1.93	103.85
	NORMAL	4,089.01	16.88	351.20	4,023.75	533.03	-112.11	544.70	0.50	0.29	1.40	54.80
	NORMAL	4,134.01	18.25	352.07	4,066.65	546.47	-114.09	558.25	3.10	3.04	1.93	11.26
	NORMAL	4,181.01	19.19	351.45	4,111.16	561.40	-116.25	573.30	2.04	2.00	-1.32	347.75
	NORMAL	4,226.01	19.56	350.45	4,153.61	576.14	-118.60	588.21	1.10	0.82	-2.22	317.65
	NORMAL	4,271.01	19.25	349.70	4,196.06	590.87	-121.18	603.16	0.88	-0.69	-1.67	218.44
	NORMAL	4,316.01	17.88	348.82	4,238.71	604.94	-123.84	617.48	3.11	-3.04	-1.96	191.14
	NORMAL	4,361.01	17.25	348.57	4,281.61	618.26	-126.50	631.06	1.41	-1.40	-0.56	186.71
	NORMAL	4,406.01	17.63	347.95	4,324.55	631.46	-129.25	644.55	0.94	0.84	-1.38	333.65
	NORMAL	4,451.01	18.62	347.83	4,367.31	645.15	-132.19	658.55	2.20	2.20	-0.27	357.78
NORMAL	4,496.01	18.50	348.57	4,409.97	659.17	-135.11	672.87	0.59	-0.27	1.64	117.35	

2.1.2 Survey Stations (Continued)

Date	Type	MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Build (°/100ft)	Turn (°/100ft)	TFace (°)
11/8/2009	NORMAL	4,543.01	19.50	349.82	4,454.41	674.20	-137.98	688.17	2.30	2.13	2.66	22.74
	NORMAL	4,588.01	20.19	352.32	4,496.74	689.29	-140.34	703.42	2.43	1.53	5.56	52.07
	NORMAL	4,633.01	20.44	351.82	4,538.94	704.76	-142.50	719.00	0.68	0.56	-1.11	324.99
	NORMAL	4,678.01	21.31	351.20	4,580.99	720.62	-144.87	735.01	1.99	1.93	-1.38	345.46
	NORMAL	4,723.01	20.69	350.82	4,623.00	736.55	-147.39	751.12	1.41	-1.38	-0.84	192.21
	NORMAL	4,769.01	19.88	351.70	4,666.14	752.31	-149.81	767.04	1.88	-1.76	1.91	159.77
	NORMAL	4,815.01	18.75	350.82	4,709.56	767.35	-152.12	782.23	2.54	-2.46	-1.91	194.03
	NORMAL	4,861.01	17.88	350.95	4,753.22	781.62	-154.41	796.67	1.89	-1.89	0.28	177.37
	NORMAL	4,905.01	17.31	351.32	4,795.17	794.77	-156.46	809.95	1.32	-1.30	0.84	169.07
	NORMAL	4,951.01	15.84	350.51	4,839.25	807.72	-158.53	823.06	3.23	-3.20	-1.76	188.55
	NORMAL	4,997.01	14.38	348.82	4,883.66	819.52	-160.67	835.04	3.31	-3.17	-3.67	195.98
	NORMAL	5,041.01	13.38	348.57	4,926.38	829.87	-162.74	845.60	2.28	-2.27	-0.57	183.31
	NORMAL	5,087.01	12.69	348.95	4,971.19	840.05	-164.77	855.97	1.51	-1.50	0.83	173.10
	NORMAL	5,133.01	12.06	349.32	5,016.12	849.73	-166.62	865.83	1.38	-1.37	0.80	173.01
	NORMAL	5,177.01	11.56	349.95	5,059.19	858.59	-168.25	874.83	1.17	-1.14	1.43	165.85
	NORMAL	5,221.01	11.13	349.45	5,102.33	867.10	-169.79	883.48	1.00	-0.98	-1.14	192.64
	NORMAL	5,268.01	10.25	348.95	5,148.52	875.67	-171.42	892.20	1.88	-1.87	-1.06	185.77
	NORMAL	5,315.01	9.31	347.82	5,194.83	883.49	-173.03	900.18	2.04	-2.00	-2.40	190.98
	NORMAL	5,359.01	8.06	342.70	5,238.33	889.91	-174.70	906.81	3.34	-2.84	-11.64	209.22
	NORMAL	5,404.01	6.94	337.94	5,282.94	895.44	-176.66	912.63	2.84	-2.49	-10.58	206.67
	NORMAL	5,450.01	6.06	337.95	5,328.65	900.27	-178.61	917.75	1.91	-1.91	0.02	179.93
11/9/2009	NORMAL	5,496.01	4.81	334.82	5,374.44	904.26	-180.34	922.02	2.79	-2.72	-6.80	191.79
	NORMAL	5,542.01	4.19	330.70	5,420.30	907.48	-181.99	925.50	1.52	-1.35	-8.96	205.49
	NORMAL	5,586.01	4.06	327.95	5,464.18	910.20	-183.60	928.50	0.54	-0.30	-6.25	235.32
	NORMAL	5,630.01	3.81	325.20	5,508.08	912.72	-185.26	931.31	0.71	-0.57	-6.25	215.68
	NORMAL	5,676.01	3.75	323.82	5,553.98	915.19	-187.02	934.09	0.24	-0.13	-3.00	235.91
	NORMAL	5,722.01	3.38	322.32	5,599.89	917.47	-188.74	936.68	0.83	-0.80	-3.26	193.40
	NORMAL	5,768.01	2.88	318.95	5,645.82	919.42	-190.33	938.91	1.16	-1.09	-7.33	198.53
	NORMAL	5,858.01	2.49	315.30	5,735.72	922.51	-193.19	942.52	0.47	-0.43	-4.06	201.86
	NORMAL	5,948.01	1.88	313.20	5,825.66	924.91	-195.64	945.38	0.68	-0.68	-2.33	186.43
	NORMAL	6,038.01	1.56	306.20	5,915.62	926.65	-197.70	947.50	0.42	-0.36	-7.78	209.82
	NORMAL	6,130.01	1.06	300.32	6,007.59	927.82	-199.45	949.00	0.56	-0.54	-6.39	192.12
	NORMAL	6,220.01	0.56	284.95	6,097.58	928.35	-200.59	949.76	0.60	-0.56	-17.08	195.93
	NORMAL	6,310.01	0.50	248.82	6,187.58	928.32	-201.38	949.90	0.37	-0.07	-40.14	242.09
	NORMAL	6,402.01	0.44	221.45	6,279.58	927.91	-201.99	949.62	0.25	-0.07	-29.75	241.63
	NORMAL	6,492.01	0.63	220.07	6,369.57	927.28	-202.54	949.11	0.21	0.21	-1.53	355.43
	NORMAL	6,582.01	0.75	192.32	6,459.57	926.32	-202.98	948.27	0.39	0.13	-30.83	275.52
	NORMAL	6,674.01	0.38	8.07	6,551.57	926.04	-203.07	948.00	1.23	-0.40	191.03	178.57
	NORMAL	6,764.01	0.25	41.07	6,641.56	926.48	-202.90	948.40	0.24	-0.14	36.67	141.36
	NORMAL	6,855.01	0.32	168.48	6,732.56	926.38	-202.71	948.27	0.56	0.08	140.01	150.23
	NORMAL	6,946.01	0.25	138.32	6,823.56	925.98	-202.53	947.84	0.18	-0.08	-33.14	230.42
	NORMAL	7,037.01	0.69	142.70	6,914.56	925.40	-202.07	947.17	0.48	0.48	4.81	6.86
	NORMAL	7,128.01	0.88	142.57	7,005.55	924.41	-201.31	946.05	0.21	0.21	-0.14	359.40
	NORMAL	7,218.01	1.31	151.45	7,095.54	922.95	-200.40	944.44	0.51	0.48	9.87	26.02
11/10/2009	NORMAL	7,308.01	1.24	135.05	7,185.51	921.36	-199.22	942.64	0.41	-0.08	-18.22	251.02
	NORMAL	7,399.01	0.38	335.32	7,276.51	920.94	-198.65	942.11	1.76	-0.95	-175.53	184.71
	NORMAL	7,490.02	0.44	330.20	7,367.51	921.52	-198.95	942.73	0.08	0.07	-5.63	326.01
	NORMAL	7,581.02	0.31	330.57	7,458.50	922.03	-199.24	943.30	0.14	-0.14	0.41	179.12
	NORMAL	7,672.02	0.25	263.20	7,549.50	922.22	-199.56	943.55	0.35	-0.07	-74.03	227.18
	NORMAL	7,762.02	0.14	170.34	7,639.50	922.09	-199.74	943.46	0.33	-0.12	-103.18	208.55
	NORMAL	7,852.02	0.44	124.82	7,729.50	921.79	-199.44	943.10	0.40	0.33	-50.58	298.19
	NORMAL	7,942.02	0.69	147.32	7,819.50	921.13	-198.86	942.34	0.37	0.28	25.00	53.21
	NORMAL	8,034.02	1.06	153.70	7,911.49	919.91	-198.18	941.00	0.42	0.40	6.93	17.96
	NORMAL	8,126.02	1.06	165.82	8,003.47	918.32	-197.60	939.33	0.24	0.00	13.17	96.06
	NORMAL	8,218.02	1.45	163.34	8,095.45	916.38	-197.06	937.32	0.43	0.42	-2.70	350.83
	NORMAL	8,306.02	1.00	211.20	8,183.43	914.65	-197.13	935.64	1.22	-0.51	54.39	136.41
	NORMAL	8,397.02	1.06	204.45	8,274.42	913.21	-197.89	934.39	0.15	0.07	-7.42	292.91

2.1.2 Survey Stations (Continued)

Date	Type	MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Build (°/100ft)	Turn (°/100ft)	TFace (°)
11/11/2009	NORMAL	8,488.02	1.25	198.82	8,365.40	911.50	-198.56	932.86	0.24	0.21	-6.19	326.32
	NORMAL	8,579.02	1.31	205.20	8,456.38	909.62	-199.33	931.17	0.17	0.07	7.01	70.38
	NORMAL	8,669.02	1.32	211.72	8,546.35	907.81	-200.31	929.60	0.17	0.01	7.24	89.44
	NORMAL	8,760.02	1.50	212.45	8,637.33	905.91	-201.50	927.99	0.20	0.20	0.80	6.06
	NORMAL	8,850.02	1.88	219.07	8,727.29	903.77	-203.06	926.22	0.47	0.42	7.36	30.53
	NORMAL	8,941.02	2.19	204.95	8,818.23	901.04	-204.74	923.88	0.65	0.34	-15.52	294.54
	NORMAL	9,031.02	2.31	193.70	8,908.16	897.72	-205.89	920.87	0.51	0.13	-12.50	279.53
11/12/2009	NORMAL	9,122.02	2.64	185.68	8,999.08	893.85	-206.53	917.22	0.52	0.36	-8.81	309.56
	NORMAL	9,258.02	3.44	170.32	9,134.89	886.71	-206.16	910.16	0.83	0.59	-11.29	306.64
	NORMAL	9,293.02	3.94	165.20	9,169.81	884.51	-205.67	907.91	1.71	1.43	-14.63	324.04
11/14/2009	NORMAL	9,343.02	3.94	165.20	9,219.70	881.19	-204.80	904.47	0.00	0.00	0.00	0.00

US ROCKIES REGION
Operation Summary Report

Well: NBU 922-31F2S RED		Spud Conductor: 10/7/2009		Spud Date: 10/14/2009	
Project: UTAH-UINTAH		Site: NBU 922-31K PAD		Rig Name No: ENSIGN 146/146, PROPETRO/	
Event: DRILLING		Start Date: 9/28/2009		End Date: 11/14/2009	
Active Datum: RKB @4,855.01ft (above Mean Sea Level)		UWI: NE/SW/0/9/S/22/E/31/0/0/26/PM/S/2,626.00/W/0/1,451.00/0/0			

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
10/13/2009	15:00 - 19:00	4.00	MIRU	01	A	P		MIR
	19:00 - 0:00	5.00	MIRU	24	A	P		HSM RIG UP ON 922 31 K 2TX P/U SPEAR LATCH ON TO 4.5 CASING P/U 25K , WELDER CUT CONDUCTOR PIPE OFF BEAT WELL HEAD DOWN TO RELEASE SLIPS PERHEAT NEW HEAD WELD ON SAME, TEST TO 1000 PSI for 15 MINS SET SLIP W/ 40K
10/14/2009	0:00 - 1:00	1.00	MIRU	01	A	P		DRESS CONDUCTOR, INSTALL AIR BOWL AND BOWIE LINE, INSTALL AIR COMPRESSOR AND AIR BOOSTER, RIG UP PUMPS, BUILD DITCH.P/U AIR HAMMER.
	1:00 - 3:00	2.00	DRLSUR	02	A	P		P/U AIR HAMMER DRL 44'-180'
	3:00 - 7:00	4.00	DRLSUR	06	A	P		TOH L/D HAMMER, P/U HUNTING 1.83 DEGREE BENT HOUSE MOTOR, M/U HC507Z BIT 1ST RUN P/U DIRECTIONAL TOOLS, SCRIBE DIRECTIONAL TOOLS.
	7:00 - 0:00	17.00	DRLSUR	02	D	P		DRILL SLIDE 180'- 1720' (1540', 90.5'/HR) WOB 15K-22K, ROT 45, GPM 650, DH RPM 104, ON/OFF PSI 1700/1400, UP/DOWN/ROT 65/57/62 3K DRAG. FULL CIRC.
10/15/2009	0:00 - 6:00	6.00	DRLSUR	02	D	P		DRILL SLIDE 1720'- 2140' (420', 70'/HR) TD 10/15/2009 06:00 WOB 15K-22K, ROT 45, GPM 650, DH RPM 104, ON/OFF PSI 1750/1450, UP/DOWN/ROT 68/62/65 3K DRAG. FULL CIRC.
	6:00 - 7:00	1.00	CSG	05	F	P		CLEAN HOLE CIRC W/ PUMP. SWEEP HOLE W/ POLYMER SWEEPS. FULL CIRC THROUGH OUT.
	7:00 - 9:30	2.50	CSG	06	D	P		LAY DOWN DRILL STRING, LD DIRECTIONAL TOOLS, LD MUD MOTOR AND BIT #1,
	9:30 - 12:30	3.00	CSG	12	C	P		RUN 48 JTS OF 9-5/8", 36#, J-55, LT&C CSG AND LAND @ 2114' KB, BAFFLE PLATE IN TOP OF FIRST JT LANDED @ 2068' KB, FILL CSG 600' AND 1500'. RUN 200' OF 1" PIPE DOWN BACKSIDE OF CSG. 20 BBLS FLOW THROUGH OUT END OF CSG JOB.
	12:30 - 13:00	0.50	RDMO	01	E	P		RIG DOWN RIG. RELEASE RIG 10/15/2009 13:00. FIX DITCH FOR CEMENTERS.
	13:00 - 15:30	2.50	CSG	12	E	P		RIG UP CEMENTERS, INSPECT TRUCK FOR VISABLE PROBLEMS. HOLD SAFETY MEETING W PROPETRO CEMENTERS, START FLUSH 140 BBLS OF H2O, PUMP 20 BBLS OF GEL WATER, PUMP 200 SX (149.6 BBLS) OF 11# 3.82 YD 23 GAL/SK HI FILL LEAD CEMENT. CIRC THROUGH OUT. PUMP 200 SX (41 BBLS) OF 15.8#, 1.15 YD, 5 GAL/SK PREMIUM TAIL 2% CALC. DROP PLUG ON FLY, DISPLACE W/ 159.6 BBLS OF H2O, LIFT PRESSURE 230, BUMP PLUG 900 PSI, CHECK FLOAT. FLOAT HELD. 15 BBLS OF GEL WATER TO PIT. WATER FELL. PUMP SAME TAIL CEMENT (150 SX) 30.7 BBLS DOWN 1" DISPLACE OUT GEL WATER AND LEAD CEMENT W/ 15.8# 4% CALC2 TAIL CEMENT. CEMENT FELL. WILL TOP OUT ON NEXT JOB.
11/4/2009	0:00 - 6:00	6.00	RDMO	01	E	P		RIG DOWN
	6:00 - 10:00	4.00	RDMO	08	A	Z		WORK ON BLOCK GUIDE - BINDING UP IN DERRICK
	10:00 - 18:00	8.00	RDMO	01	E	P		CONTINUE RIGGING DOWN PREPARING TO LAY DERRICK OVER, MOVE APPROX. 20% OF RIG OFF LOCATION

US ROCKIES REGION
Operation Summary Report

Well: NBU 922-31F2S RED		Spud Conductor: 10/7/2009		Spud Date: 10/14/2009	
Project: UTAH-UINTAH			Site: NBU 922-31K PAD		Rig Name No: ENSIGN 146/146, PROPETRO/
Event: DRILLING			Start Date: 9/28/2009		End Date: 11/14/2009
Active Datum: RKB @4,855.01ft (above Mean Sea Level)			UWI: NE/SW/0/9/S/22/E/31/0/0/26/PM/S/2,626.00/W/0/1,451.00/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation	
11/5/2009	18:00 - 0:00	6.00	RDMO	21	C	P		WAIT ON DAYLIGHT	
	0:00 - 6:00	6.00	RDMO	21	C	P		WAIT ON DAYLIGHT	
	6:00 - 15:00	9.00	RDMO	01	E	P		FINISH UNSTINGING BLOCKS MOVE OUT BACK YARD, DERRICK, & SUB	
	15:00 - 18:00	3.00	RDMO	01	B	P		SET MUD TANKS, 80 % OF BACK YARD, SUB, & GAS BUSTER	
11/6/2009	18:00 - 0:00	6.00	RDMO	21	C	Z		WAIT ON DAYLIGHT, DO TO PROBLEMS GETTING DERRICK OFF SUB, DROPPING MUD TANK	
	0:00 - 6:00	6.00	MIRU	21	C	Z		WAITING ON DAYLIGHT DO TO PROBLEMS GETTING DERRICK OFF SUB & DROPPING MUD TANK	
	6:00 - 22:00	16.00	MIRU	01	B	P		FINISH SETTING RIG IN, RIG UP, RAISE DERRICK CENTER SUB OVER HOLE, CONTINUE TO RIG UP	
11/7/2009	22:00 - 0:00	2.00	MIRU	14	A	P		NIPPLE UP BOP	
	0:00 - 1:00	1.00	DRLPRO	14	A	P		NIPPLE UP BOP	
	1:00 - 6:00	5.00	DRLPRO	15	A	P		TEST BOP RAMS, HCR, CHOKE, KILLINE, TOPDRIVE TO 5000 PSI, ANN 2500 PSI, CASING 1500 PSI	
	6:00 - 7:00	1.00	DRLPRO	24	A	P		WORKED ON WEAR BUSHING & INSTALLED	
	7:00 - 7:30	0.50	DRLPRO	07	A	P		RIG SERVICE	
	7:30 - 10:00	2.50	DRLPRO	06	A	P		P/U DIRECTIONAL TOOLS, SCRIBE MUD MOTOR TO MWD P/U BHA RIH	
	10:00 - 10:30	0.50	DRLPRO	08	A	Z		REPAIR HYDROLIC LEAK NEXT TO FILTER HOUSING	
	10:30 - 12:00	1.50	DRLPRO	06	A	P		P/U DRILL PIPE RIH	
	12:00 - 13:30	1.50	DRLPRO	22	O	X		HAD TO RAISE RIG 4" TO GET ROTATING HEAD IN PLACE	
	13:30 - 14:30	1.00	DRLPRO	06	A	P		FINISH RUNNING PIPE TAG CMT. @ 2030 FT.	
	14:30 - 15:30	1.00	DRLPRO	02	F	P		DRILL CMT., FLOAT & SHOE TO 2150 FT.	
	15:30 - 0:00	8.50	DRLPRO	02	C	P		DRILL & SLIDE F/ 2150 TO 3007 - 857 FT. 101 FPH. DRILLING W/ WATER, WOB 18, RPM 45, MMRPM 102, TQ 4.9 / 2.9 GPM 486 - SLIDES 2237-2249 2282-2294 2327-2342 2373-2388 2418-2433 2463-2478 2509-2526 2554-2564 2591-2599 2599-2611 2644-2654 22680-2700 2735-2745 2770-2792 2826-2838 2859-2881 2917-2930 2962-2977	
	11/8/2009	0:00 - 15:00	15.00	DRLPRO	02	C	P		DRILL & SLIDE F/ 3007 TO 4457 - 1450 FT. 97 FPH, DRILLING W/ WATER, WOB 19, RPM 45, MMRPM 102, TQ 6.9 / 4.8 GPM 486 - SLIDES 3007-3022 3053-3070 3098-3115 3143-3155 3189-3206 3234-3251 3279-3296 3325-3345 3369-3389 3415-3432 3460-3475 3506-3526 3551-3571 3596-3616 3641-3666 3687-3717 3732-3762 3777-3802 3823-3848 3868-3898 3913-3938 3959-3979 4004-4029 4049-4074 4095-4125 4140-4165 4185-4205 4231-4246 4276-4291 4321-4339 4366-4391 4411-4436
		15:00 - 15:30	0.50	DRLPRO	07	A	P		RIG SERVICE
15:30 - 0:00		8.50	DRLPRO	02	C	P		DRILL & SLIDE F/ 4457 TO 5474 FT. - 1017 FT. 119 FPH, DRILLING W/ WATER, WOB 19, RPM 45, MMRPM 102, TQ 10.7/8.4, GPM 486 - SLIDES 4457-4477 4502-4517 4547-4567 4593-4608 4638-4650 4683-4691 4955-4965 5228-5236 5318-5328 5364-5372 5454-5464	
0:00 - 11:30		11.50	DRLPRO	02	C	P		DRILL/SLIDE F/ 5474 TO 6361 - 887 FT. 77 FPH, VIS 42, MW 9.1, WOB 18, RPM 45, MMRPM 102, TQ 10.1/8.6 GPM 486 - SLIDES 5500-5508 5590-5600	
11/9/2009	11:30 - 12:00	0.50	DRLPRO	07	A	P		RIG SERVICE	

US ROCKIES REGION
Operation Summary Report

Well: NBU 922-31F2S RED	Spud Conductor: 10/7/2009	Spud Date: 10/14/2009
Project: UTAH-UINTAH	Site: NBU 922-31K PAD	Rig Name No: ENSIGN 146/146, PROPETRO/
Event: DRILLING	Start Date: 9/28/2009	End Date: 11/14/2009
Active Datum: RKB @4,855.01ft (above Mean Sea Level)		UWI: NE/SW/0/9/S/22/E/31/0/0/26/PM/S/2,626.00/W/0/1,451.00/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	12:00 - 0:00	12.00	DRLPRO	02	C	P		DRILL/SLIDE F/ 6361 TO 7223 - 862 FT. 71 FPH. VIS 42, MW 9.4, WOB 21, RPM 45, MMRPM 102, TQ 12.3/9.9 GPM 486 - SLIDES 6633-6649 SHAKE OUT LCM - BG GAS 15-2290, CONN 595-5610
11/10/2009	0:00 - 1:30	1.50	DRLPRO	02	C	P		DRILL F/ 7223 TO 7284 - 61 FT. 40 FPH, VIS 40, MW 9.3, WOB 21, RPM 45, MMRPM 102, TQ 12.3/9.9 GPM 486 - SLIDES 7268-7278
	1:30 - 4:00	2.50	DRLPRO	05	A	X		LOST RETURNS, PUMPED PREMIX OVER , MIX UP NEW MUD & LCM, BY PASS SHAKERS TOTAL LOSS 400 BBLs.
	4:00 - 11:30	7.50	DRLPRO	02	C	P		DRILL /F/ 7284 TO 7643 - 359 FT. 48 FPH., VIS 39, MW 9.7, LCM 6%, WOB 20, RPM 45, MMRPM 102, TQ 10.3/6, GPM 486
	11:30 - 12:00	0.50	DRLPRO	07	A	P		RIG SERVICE
	12:00 - 13:30	1.50	DRLPRO	05	A	X		LOST RETURNS PUMPED SWEEP GOT PARTIAL RETURNS, MIX LCM & BUILD VOL, TOTAL LOSS 280 BBLs
	13:30 - 0:00	10.50	DRLPRO	02	C	P		DRILL F/ 7643 TO 8269 - 626 FT. 60 FPH, VIS 41, MW 10.4, LCM 25%, WOB 21, RPM 45, MMRPM 88, TQ 14/12, GPM 420
11/11/2009	0:00 - 7:00	7.00	DRLPRO	02	D	P		DRILL F/ 8269 TO 8532' (263' @ 37.6fph) MW 10.0, VIS 40, LCM 15%, WOB 18, RPM 45, MM RPM 102, TQ 12, GPM 486
	7:00 - 7:30	0.50	DRLPRO	05	A	P		P/UP CIRC @ REDUCED RATE - TRANSFER MUD F/UPRIGHT TANK & BUILD VOLUME - LOST 200 BBLs MUD
	7:30 - 10:30	3.00	DRLPRO	02	D	P		DRLG F/8532' TO 8631' (99' @ 33fph)
	10:30 - 11:30	1.00	DRLPRO	05	A	P		CIRC @ REDUCED RATE BUILD VOLUME - LOST 150 BBLs MUD
	11:30 - 14:00	2.50	DRLPRO	02	D	P		DRLG F/8631' TO 8719' (88' @ 35.2fph) MW 10.7, VIS 40, LCM 25%, WOB 18, RPM 45, MM RPM 102, TQ 12, GPM 486
	14:00 - 14:30	0.50	DRLPRO	07	A	P		RIG SER
	14:30 - 0:00	9.50	DRLPRO	02	D	P		DRLG F/8719' TO 9000' (281' @ 31.2fph) MW 11.4, VIS 40, LCM 30%, WOB 19/20, RPM 45, MM RPM 93, TQ 12, GPM 441
11/12/2009	0:00 - 9:00	9.00	DRLPRO	02	D	P		DRLG F/9000' TO 9220' (220' @ 24.4fph) MW 11.6, VIS 40, LCM 335, WOB 22, RPM 45, MM RPM 93, TQ 12, GPM 441
	9:00 - 13:00	4.00	DRLPRO	05	A	P		LOSSING RETURNS - CIRC @ REDUCED RATE - BUILD VOLUME - WAIT ON 750 BBLs MUD FROM ENSIGN 139
	13:00 - 22:00	9.00	DRLPRO	02	D	P		DRLG F/9220' TO 9343' (123' @ 13.7fph) MW 11.9, VIS 40, LCM 35%, WOB 26, RPM 45, MM RPM 93, TQ 12, GPM 441 - TD WELL @ 9343' MD, 9220' TVD
	22:00 - 23:30	1.50	DRLPRO	05	A	P		CIRC
	23:30 - 0:00	0.50	DRLPRO	06	A	P		POOH W/TRIP
11/13/2009	0:00 - 12:00	12.00	DRLPRO	06	E	P		W/TRIP TO 9 5/8 CSG SHOE @ 2100' - TIGHT ON POOH @ 4300', TIGHT ON RIH @ 3870 & 4300 - WASH F/9080' TO 9343' - NO FILL
	12:00 - 14:00	2.00	DRLPRO	05	A	P		CIRC
	14:00 - 22:30	8.50	DRLPRO	06	A	P		POOH F/LOGS - RACK BACK DIRECTIONAL BHA, TIGHT @ 4300'
	22:30 - 23:00	0.50	DRLPRO	14	B	P		RETRIEVE WEARBUSHING
	23:00 - 0:00	1.00	DRLPRO	11	D	P		HPJSM, R/UP WEATHERFORD TOOLS & EQUIPMENT - RIH W/TRIPLE COMBO TO LOGGERS TD @ 9340'
11/14/2009	0:00 - 6:30	6.50	DRLPRO	11	D	P		WEATHERFORD TOOLS & EQUIPMENT - RIH W/TRIPLE COMBO TO LOGGERS TD @ 9340'

US ROCKIES REGION
Operation Summary Report

Well: NBU 922-31F2S RED		Spud Conductor: 10/7/2009		Spud Date: 10/14/2009	
Project: UTAH-UINTAH		Site: NBU 922-31K PAD		Rig Name No: ENSIGN 146/146, PROPETRO/	
Event: DRILLING		Start Date: 9/28/2009		End Date: 11/14/2009	
Active Datum: RKB @4,855.01ft (above Mean Sea Level)		UWI: NE/SW/0/9/S/22/E/31/0/0/26/PM/S/2,626.00/W/0/1,451.00/0/0			

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	6:30 - 15:30	9.00	CSG	12	C	P		HPJSM, R/UP FRANKS - RUN 221 JTS & 1 MARKER 4.5" 11.60 I-80 BTC PROD CASING FLOAT SHOE @ 9338', FLOAT COLLAR @ 9315' CIRC
	15:30 - 16:30	1.00	CSG	05	A	P		
	16:30 - 19:00	2.50	CSG	12	E	P		HPJSM, R/UP HALLIBURTON, TEST LINES 5000 PSI, CEMENT 4.5 PROD CASING, PUMPED 40 BBLS FRESH WATER, 460 SKS LEAD 12.0 PPG 2.25 YIELD, 1350 SKD TAIL 14.3 PPG 1.26 YIELD, DROPPED PLUG & DISPLACED W/144 BBLS FRESH WATER W/.01 gal/bbl CLAYFIX II & 0.01 gal/bbl ALDACIDE G @ 2680 PSI, BUMPED PLUG @ 3117 PSI, FLOATS HELD W/1.5 BBL RETURN, GOOD RETURNS DURING CMT & DISPLACEMENT W/15 BBLS WATER BACK TO SURFACE - NO CMT TO SURFACE - R/DN HALLIBURTON
	19:00 - 19:30	0.50	CSG	12	C	P		L/OUT LANDING JT - INSTALL PACKOFF ASSY
	19:30 - 0:00	4.50	CSG	14	A	P		N/DN BOPE - CLEAN RIG TANKS - TRANSFER 1100 BBLS MUD TO SECONDARY TANKS - RELEASE RIG @ 23:59 HRS 11/14/09

US ROCKIES REGION
Operation Summary Report

Well: NBU 922-31F2S RED		Spud Conductor: 10/7/2009		Spud Date: 10/14/2009				
Project: UTAH-UINTAH		Site: NBU 922-31K PAD		Rig Name No: LEED 733/733				
Event: COMPLETION		Start Date: 8/6/2010		End Date: 8/26/2010				
Active Datum: RKB @4,855.01ft (above Mean Sea Level)		UWI: NE/SW/0/9/S/22/E/31/0/0/26/PM/S/2,626.00/W/0/1,451.00/0/0						
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
8/6/2010	8:00 - 10:00	2.00	COMP	33	D	P		OPEN WELL 0#. ND WH, NU FRAC VALVES. MIRU B&C QUICK TEST. PSI TEST CSG & BOTH FRAC VALVES T/ 7000#. GOOD TEST. BLEED OFF PSI. MOVE OVER T/ NEXT WELL ON PSD.
8/11/2010	15:33 - 18:00	2.45	COMP	37	B	P		PERF STG 1)PU 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 120 DEG PHASING. RIH PERF F/ 8939'-40', 3 SPF, 3 HOLES. 8969'-70', 3 SPF, 3 HOLES. 9033'-34', 3 SPF, 3 HOLES. 9167'-70', 3 SPF, 9 HOLES. 9220'-21', 3 SPF, 3 HOLES. POOH, SWI FN.
8/12/2010	6:30 - 6:45	0.25	COMP	48		P		HSM.

US ROCKIES REGION
Operation Summary Report

Well: NBU 922-31F2S RED		Spud Conductor: 10/7/2009		Spud Date: 10/14/2009	
Project: UTAH-UINTAH			Site: NBU 922-31K PAD		Rig Name No: LEED 733/733
Event: COMPLETION			Start Date: 8/6/2010		End Date: 8/26/2010
Active Datum: RKB @4,855.01ft (above Mean Sea Level)			UWI: NE/SW/0/9/S/22/E/31/0/0/26/PM/S/2,626.00/W/0/1,451.00/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	6:45 - 18:00	11.25	COMP	36	B	P		<p>FRAC STG 1)WHP 1697 PSI, BRK 4166 PSI @ 5.1 BPM. ISIP 2918 PSI, FG .76. PUMP 100 BBLS @ 49 BPM @ 5600 PSI = 100% HOLES OPEN. ISIP 2843 PSI, FG .75, NPI -75 PSI. MP 6624 PSI, MR 52.8 BPM, AP 5226 PSI, AR 50 BPM, PMP 1370 BBLS SW & 43,888 LBS OF 30/50 SND & 5,000 LBS OF 20/40 SLC SND. TOTAL PROP 48,888 LBS, SWI, X-OVER FOR WL.</p> <p>PERF STG 2)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 120 DEG PHASING. RIH SET CBP @ 8898' P/U PERF F/ 8722'-24', 3 SPF, 6 HOLES. 8742'-44', 3 SPF, 6 HOLES. 8801'-02', 3 SPF, 3 HOLES. 8866'-68', 3 SPF, 6 HOLES. 21 HOLES. POOH, X-OVER FOR FRAC.</p> <p>FRAC STG 2)WHP 1343 PSI, BRK 3487 PSI @ 5.1 BPM. ISIP 2606 PSI, FG .74. PUMP 100 BBLS @ 50 BPM @ 5506 PSI = 100% HOLES OPEN. ISIP 2804 PSI, FG .76, NPI 198 PSI. MP 5823 PSI, MR 50.3 BPM, AP 5295 PSI, AR 49.9 BPM, PMP 1050 BBLS SW & 35,371 LBS OF 30/50 SND & 5,000 LBS OF 20/40 SLC SND. TOTAL PROP 40,371 LBS, SWI, X-OVER FOR WL.</p> <p>PERF STG 3)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 120 DEG PHASING. RIH SET CBP @ 8671' P/U PERF F/ 8501'-03', 3 SPF, 6 HOLES. 8554'-56', 3 SPF, 6 HOLES. 8584'-85', 3 SPF, 3 HOLES. 8607'-08', 3 SPF, 3 HOLES. 8639'-41', 3 SPF, 6 HOLES. 24 HOLES. POOH. X-OVER FOR FRAC CREW.</p> <p>FRAC STG 3)WHP 1250 PSI, BRK 2888 PSI @ 5.1 BPM. ISIP 2296 PSI, FG .71. PUMP 100 BBLS @ 50.3 BPM @ 5650 PSI = 79% HOLES OPEN. ISIP 2810 PSI, FG .77, NPI 514 PSI. MP 5797 PSI, MR 53.5 BPM, AP 5062 PSI, AR 50.1 BPM, PMP 2160 BBLS SW & 79,576 LBS OF 30/50 SND & 5,000 LBS OF 20/40 SLC SND. TOTAL PROP 84,576 LBS, SWI, X-OVER FOR WL.</p> <p>PERF STG 4)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 120 DEG PHASING. RIH ATTM T/ SET CBP. PLUB WOULD NOT SET. POOH W/ CBP & GUNS. MAKE REPAIRS. RIH SET CBP @ 8460' P/U PERF F/ 8200'-01', 3 SPF, 3 HOLES. 8236'-37', 3 SPF, 3 HOLES. 8258'-59', 3 SPF, 3 HOLES. 8295'-96', 3 SFP, 3 HOLES. 8308'-09', 3 SPF, 3 HOLES. 8401'-02', 3 SPF, 3 HOLES. 8429'-30', 3 SPF, 3 HOLES. 21 HOLES. POOH, X-OVER FOR FRAC.</p>

US ROCKIES REGION
Operation Summary Report

Well: NBU 922-31F2S RED		Spud Conductor: 10/7/2009	Spud Date: 10/14/2009
Project: UTAH-UINTAH		Site: NBU 922-31K PAD	Rig Name No: LEED 733/733
Event: COMPLETION		Start Date: 8/6/2010	End Date: 8/26/2010
Active Datum: RKB @4,855.01ft (above Mean Sea Level)		UWI: NE/SW/0/9/S/22/E/31/0/0/26/PM/S/2,626.00/W/0/1,451.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
								<p>FRAC STG 4)WHP 1328 PSI, BRK 2706 PSI @ 5.4 BPM. ISIP 2122 PSI, FG .70. PUMP 100 BBLS @ 49.2 BPM @ 4820 PSI = 100% HOLES OPEN. ISIP 2469 PSI, FG .74, NPI 347 PSI. MP 5128 PSI, MR 49.4 BPM, AP 4663 PSI, AR 49.1 BPM, PMP 1205 BBLS SW & 44,524 LBS OF 30/50 SND & 5,000 LBS OF 20/40 SLC SND. TOTAL PROP 48,524 LBS, SWI, X-OVER FOR WL.</p> <p>PERF STG 5)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 120 DEG PHASING. RIH SET CBP @ 8143' P/U PERF F/ 7922'-24', 3 SPF, 6 HOLES. 7946'-47', 3 SPF, 3 HOLES. 8054'-56', 3 SPF, 6 HOLES. 8112'-13', 3 SPF, 3 HOLES. 24 HOLES. POOH, SWIFN.</p>

US ROCKIES REGION
Operation Summary Report

Well: NBU 922-31F2S RED		Spud Conductor: 10/7/2009	Spud Date: 10/14/2009
Project: UTAH-UINTAH		Site: NBU 922-31K PAD	Rig Name No: LEED 733/733
Event: COMPLETION		Start Date: 8/6/2010	End Date: 8/26/2010
Active Datum: RKB @4,855.01ft (above Mean Sea Level)		UWI: NE/SW/0/9/S/22/E/31/0/0/26/PM/S/2,626.00/W/0/1,451.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
8/13/2010	8:00 - 18:00	10.00	COMP	36	B	P		<p>FRAC STG 5)WHP 1664 PSI, BRK 3640 PSI @ 5.0 BPM. ISIP 2409 PSI, FG .74. PUMP 100 BBLS @ 50.3 BPM @ 5130 PSI = 91% HOLES OPEN. ISIP 2559 PSI, FG .76, NPI 621 PSI. MP 5215 PSI, MR 50.4 BPM, AP 4808 PSI, AR 49.6 BPM, PMP 624 BBLS SW & 15,200 LBS OF 30/50 SND & 5,000 LBS OF 20/40 SLC SND. TOTAL PROP 20,200 LBS, SWI ,X-OVER FOR WL.</p> <p>PERF STG 6)PU 4 1/2 8K HAL CBP & 3 1/8 EXO GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 7898' P/U PERF F/ 7677'-79', 4 SPF, 8 HOLES. 7790'-92', 4 SPF, 8 HOLES. 7866'-68', 4 SPF, 8 HOLES. 24 HOLES. POOH, X-OVER FOR FRAC CREW.</p> <p>FRAC STG 6)WHP 2185 PSI, BRK 3017 PSI @ 4.7 BPM. ISIP 2207 PSI, FG .72. PUMP 100 BBLS @ 50 BPM @ 5150 PSI = 83% HOLES OPEN. ISIP 2538 PSI, FG .77, NPI 331 PSI. MP 5787 PSI, MR 50.1 BPM, AP 4689 PSI, AR 50 BPM, PMP 672 BBLS SW & 19,501 LBS OF 30/50 SND & 5,000 LBS OF 20/40 SLC SND. TOTAL PROP 24,501 LBS, SWI X-OVER FOR WL.</p> <p>PERF STG 7)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 120 DEG PHASING. RIH SET CBP @ 7575' P/U PERF F/ 7342'-43', 3 SPF, 3 HOLES. 7373'-74', 3 SPF, 3 HOLES. 7403'-04', 3 SPF, 3 HOLES. 7430'-31', 3 SPF, 3 HOLES. 7465'-66', 3 SPF, 3 HOLES. 7501'-02', 3 SPF, 3 HOLES. 7544'-45', 3 SPF, 3 HOLES. 21 HOLES. POOH, X-OVER FOR FRAC CREW.</p> <p>FRAC STG 7)WHP 716 PSI, BRK 2889 PSI @ 5.0 BPM. ISIP 1647 PSI, FG .66. PUMP 100 BBLS @ 50.1 BPM @ 4817 PSI = 90% HOLES OPEN. ISIP 1943 PSI, FG .70, NPI 296 PSI. MP 6249 PSI, MR 50.9 BPM, AP 4331 PSI, AR 49.9 BPM, PMP 2121 BBLS SW & 79,825 LBS OF 30/50 SND & 5,000 LBS OF 20/40 SLC SND. TOTAL PROP 84,825LBS, SWI,X-OVER FOR WL</p> <p>PERF STG 8)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 7298' P/U PERF F/ 7266'-68' 4 SPF. GUN WENT DEAD SHORT. POOH. REPAIR GUN. FOUND ALL 3 GUNS HAD SHOT AT THE SAME TIME. CALL FOR NEW GUN. ((HOLES ARE F/ 7766'-54', 4 SPF. 24 HOLES.)) BUILD NEW GUN. RIH PERF F/ 7239'-41', 4 SPF, 8 HOLES. 7190'-92', 4 SPF, 8 HOLES. POOH. X-OVER FOR FRAC CREW.</p>

US ROCKIES REGION
Operation Summary Report

Well: NBU 922-31F2S RED		Spud Conductor: 10/7/2009		Spud Date: 10/14/2009	
Project: UTAH-UINTAH			Site: NBU 922-31K PAD		Rig Name No: LEED 733/733
Event: COMPLETION			Start Date: 8/6/2010		End Date: 8/26/2010
Active Datum: RKB @4,855.01ft (above Mean Sea Level)			UWI: NE/SW/0/9/S/22/E/31/0/0/26/PM/S/2,626.00/W/0/1,451.00/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
								FRAC STG 8)WHP=1137# PSI, BRK=2790# PSI @ 5.0 BPM. ISIP=1606# PSI, FG .66. PUMP 100 BBLS @ 56.0 BPM @ 4460 PSI = 96% HOLES OPEN. ISIP 2276 PSI, FG .76, NPI 670 PSI. MP 6496 PSI, MR 56.1 BPM, AP 4333 PSI, AR 54.6 BPM, PMP 2152 BBLS SW & 95,050 LBS OF 30/50 SND & 5,000 LBS OF 20/40 SLC SND. TOTAL PROP 100,050 LBS, SWI, X-OVER FOR WL. PU 4 1/2 8K HAL CBP. RIH SET CBP @ 7140'. POOH. SWIFWE DONE FRACING THIS WELL. TOTAL SAND 451,935# TOTAL CLFL 11,354 BBL. TOTAL SCALE = 1012 GAL TOTAL BIO =240 GAL
8/26/2010	14:30 - 16:00	1.50	COMP	30	A	P		MOVE OVER FROM 31F3S. RUSU. ND WH. NU BOP. RU FLOOR AND TBG EQUIP. SPOT TBG TRAILER
	16:00 - 18:30	2.50	COMP	31	I	P		MU 3-7/8" BIT, POBS, 1.87" XN AND RIH AS MEAS AND PU 131-JTS 2-3/8" L-80 TBG. EOT 4152'. SDFN
8/27/2010	6:30 - 6:45	0.25	COMP	48		P		JSA- PU TBG. D/O PLUGS. LD TBG. LAND HANGER.
	6:45 - 8:30	1.75	COMP	31	I	P		CONT RIH AS MEAS AND PU TBG. TAG AT 7135' W/ 225-JTS IN. RU DRLG EQUIP. FILL TBG AND P-TEST TO 3000#. GOOD.

US ROCKIES REGION
Operation Summary Report

Well: NBU 922-31F2S RED		Spud Conductor: 10/7/2009		Spud Date: 10/14/2009	
Project: UTAH-UINTAH			Site: NBU 922-31K PAD		Rig Name No: LEED 733/733
Event: COMPLETION			Start Date: 8/6/2010		End Date: 8/26/2010
Active Datum: RKB @4,855.01ft (above Mean Sea Level)			UWI: NE/SW/0/9/S/22/E/31/0/0/26/PM/S/2,626.00/W/0/1,451.00/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	8:30 - 15:30	7.00	COMP	44	C	P		<p>EST CIRC AND D/O 8 PLUGS.</p> <p>#1- C/O 10' SAND TO CBP AT 7140'. D/O IN 10 MIN. 50# INC. RIH. #2- C/O 30' SAND TO CBP AT 7298'. D/O IN 8 MIN. 100# INC. RIH. #3- C/O 60' SAND TO CBP AT 7575'. D/O IN 10 MIN. 100# INC. RIH. #4- C/O 45' SAND TO CBP AT 7898'. D/O IN 10 MIN. 50# INC. RIH. #5- C/O 40' SAND TO CBP AT 8143'. D/O IN 8 MIN. 100# INC. RIH. #6- C/O 20' SAND TO CBP AT 8460'. D/O IN 10 MIN. 100# INC. RIH. #7- C/O 30' SAND TO CBP AT 8671'. D/O IN 10 MIN. 100# INC. RIH. #8- C/O 20' SAND TO CBP AT 8898'. D/O IN 8 MIN. 100# INC. RIH. PBTD- C/O ' SAND TO PBTD AT 9315' (94' RATHOLE) W/ 294-JTS IN. CIRC CLEAN.</p> <p>RD PWR SWIVEL. POOH AS LD 20-JTS. PU 7" 5K HANGER. LUB IN AND LAND 274-JTS W/ EOT AT 8693.31'. RD FLOOR. ND BOP. NU WH. PMP OFF BIT AT 2100#. SHUT WELL IN FOR 30 MIN AND TURN OVER TO FLOW BACK.</p> <p>TBG DETAIL KB 15.00 299 JTS DELIVERED 7" 5K HANGER 1.00 25 JTS RETURNED 274-JTS 2-3/8" L-80 8675.11 LOAD 11,354 BBLs 1.87" XN (FE POBS) 2.20 RCVR 3,281 BBLs EOT 8693.31 LTR 8,023 BBLs</p>
8/28/2010	7:00 -			33	A			<p>7 AM FLBK REPORT: CP 3100#, TP 2550#, 20/64" CK, 45 BWPH, HVY SAND, LIGHT GAS TTL BBLs RECOVERED: 4101 BBLs LEFT TO RECOVER: 7253</p>
	9:47 -		PROD	50				<p>WELL TURNED TO SALES @ 0847 HR ON 8/28/2010 - 3200 MCFD, 960 BWPD, CP 3100#, FTP 2450#, CK 20/64"</p>
8/29/2010	7:00 -			33	A			<p>7 AM FLBK REPORT: CP 3100#, TP 2350#, 20/64" CK, 35 BWPH, HVY SAND, - GAS TTL BBLs RECOVERED: 5008 BBLs LEFT TO RECOVER: 6346</p>
8/30/2010	7:00 -			33	A			<p>7 AM FLBK REPORT: CP 3025#, TP 2250#, 20/64" CK, 35 BWPH, LIGHT SAND, - GAS TTL BBLs RECOVERED: 5893 BBLs LEFT TO RECOVER: 5461</p>
8/31/2010	7:00 -			33	A			<p>7 AM FLBK REPORT: CP 2900#, TP 2150#, 20/64" CK, 27 BWPH, TRACE SAND, - GAS TTL BBLs RECOVERED: 6633 BBLs LEFT TO RECOVER: 4721</p>
9/11/2010	7:00 -							<p>WELL IP'D ON 9/11/10 - 2608 MCFD, 25 BOPD, 468 BWPD, CP 2107#, FTP 1662#, CK 18/64", LP 138#, 24 HRS</p>

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: ML23607
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: 7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: NBU 922-31F2S
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047504150000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6515 Ext
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2626 FSL 1451 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NESW Section: 31 Township: 09.0S Range: 22.0E Meridian: S	9. FIELD and POOL or WILDCAT: NATURAL BUTTES COUNTY: UINTAH STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 3/8/2011 <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: 50px;" type="text"/>

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

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

Approved by the Utah Division of Oil, Gas and Mining

Date: 03/09/2011

By: *Derek Duff*

NAME (PLEASE PRINT) Gina Becker	PHONE NUMBER 720 929-6086	TITLE Regulatory Analyst II
SIGNATURE N/A		DATE 3/8/2011

WORKORDER #: 88119367

3/1/11

Name: NBU 922-31F2S - 922-31K PAD
Surface Location: NESW SEC.31, T9S, R22E
Uintah County, UT

API: 4304750415 **LEASE#:** ML 23607

ELEVATIONS: 4840' GL 4859' KB

TOTAL DEPTH: 9343' **PBTD:** 9316'

SURFACE CASING: 9 5/8", 36# J-55 @ 2125'

PRODUCTION CASING: 4 1/2", 11.6#, I-80 @ 9337'
TOC @ 898' per CBL

PERFORATIONS: Wasatch 7190' - 7192'
Mesaverde 7239' - 9221'

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:

1189' Green River
1451' Bird's Nest
1914' Mahogany
4493' Wasatch
7226' Mesaverde

NBU 922-31F2S – 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 laying down extra tubing.
5. Rig up wireline service. RIH and set CBP @ ~7140'. Dump bail 4 sx cement on top of plug. POOH and RD wireline service. TIH w/ tubing and seating nipple. Land tubing ±60' above cement. RDMO.
6. Monitor well pressures. If surface casing is dead. MIRU. ND WH and NU BOP. POOH w/ tubing.
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 7 3/8" overshot with 4 1/2" right hand standard wicker grapple, 1 - 4 3/4" drill collar with 3 1/2" IF threads, pup joint, manual bumper sub, and crossovers. If casing cut is deeper than ±30' utilize >7000 ft-lb torque pipe as needed. 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. Ensure that tongs are safely anchored to rig and that all personnel are at a safe working distance from the tongs during torque-up and torque release. After initial make-up, place pipe torque to neutral and mark pipe. Place ±7000 ft-lbs on casing a second time, count turns, then return pipe torque to neutral and count turns. Repeat if torque-up turns do not equal torque release turns. Once torque-in equals torque-out, release overshot, POOH, and lay down.
4. TIH w/ skirted mill and dress off the fish top for approximately 1/2 hour. TOO. H.
5. PU & RIH w/ 4 1/2" 10k external casing patch on 4 1/2" P-110 casing. Ensure that sliding sleeve assembly shifts ±3' and casing tags no-go portion of patch. NOTE: Shear pins will shear at 3500 to 4500 lbs.
6. Latch fish, PU to 100,000# tension. RU B&C. Cycle pressure test to 7,000# / 9,000# psi.
7. Install slips. Land casing w/ 80,000# tension.
8. Cut-off and dress 4 1/2" casing stub.
9. NUWH. PU 3 7/8" bit, POBS and RIH. D/O cement and plug ~7090'. Clean out to PBTD (9316').
10. POOH, land tbg and pump off POBS.
11. 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 1/2" overshot. RIH, latch fish. Pick string weight to neutral.
4. MIRU casing crew and wireline services. RIH and shoot string shot at casing collar @ ± 46'.
5. Back-off casing, POOH.

6. PU new casing joint with buttress threads and 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. Ensure that tongs are safely anchored to rig and that all personnel are at a safe working distance from the tongs during torque-up and torque release. After initial make-up, place pipe torque to neutral and mark pipe. Place ± 7000 ft-lbs on casing a second time, count turns, then return pipe torque to neutral and count turns. Repeat if torque-up turns do not equal torque release turns. Once torque-in equals torque-out go to step 7.
7. PU 100,000# tension string weight. RU B&C. Cycle pressure test to 7,000# / 9,000# psi.
8. Install slips. Land casing w/ 80,000# tension.
9. Cut-off and dress 4 1/2" casing stub.
10. NUWH. PU 3 7/8" bit, POBS and RIH. D/O cement and plug ~7090'. Clean out to PBTD (9316').
11. POOH, land tbg and pump off POBS.
12. NUWH, RDMO. Turn well over to production ops.



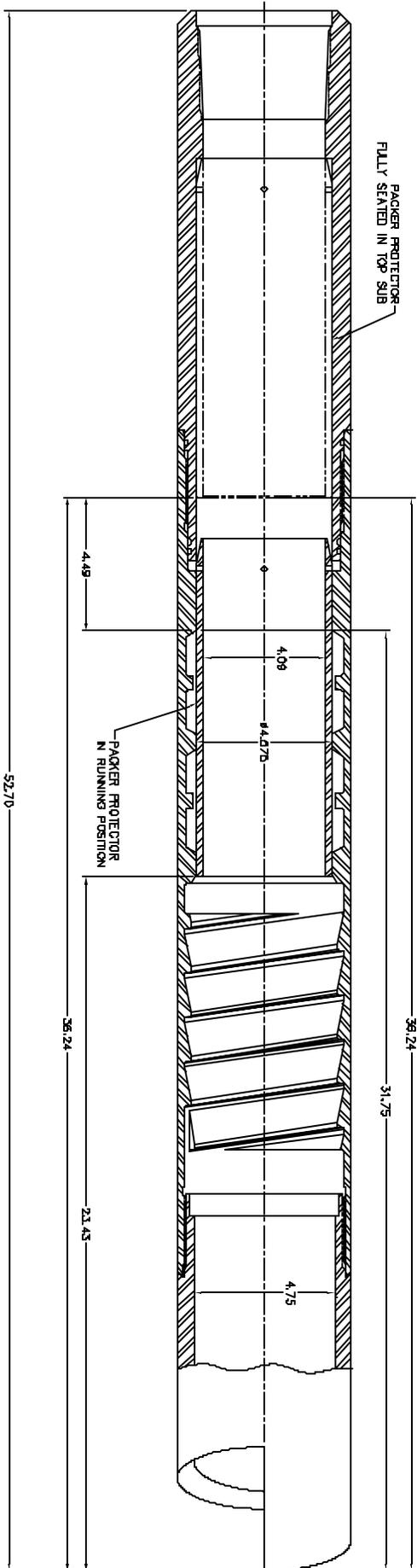
Logan High Pressure Casing Patches Assembly Procedure

All parts should be thoroughly greased before being assembled.

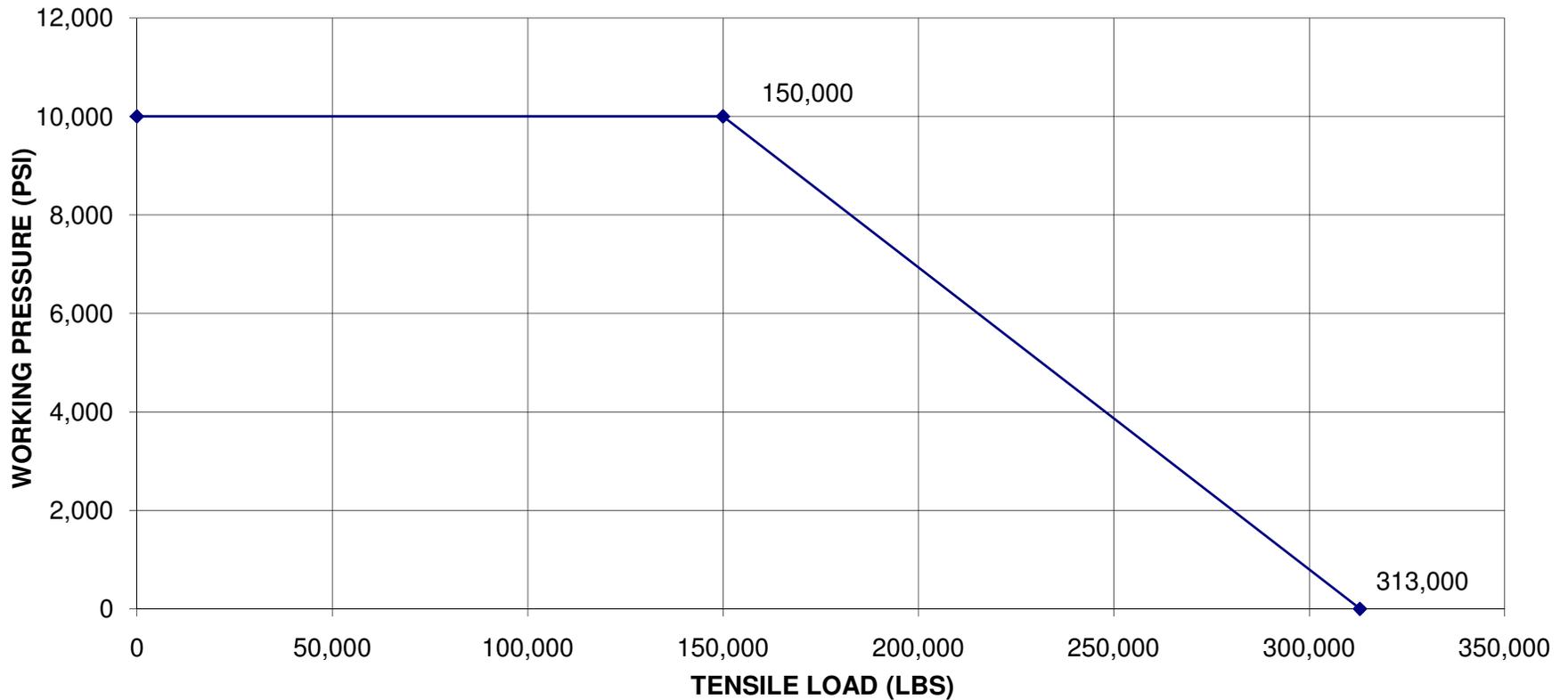
1. Install all four Logan Type “L” Packers in the spaces provided in the Casing Patch Bowl. Refer to diagram provided for proper installation.
2. Install Packer Protector from the Basket Grapple end of the Bowl. The beveled end of the Packer Protector goes in first. Carefully push the Packer Protector 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
		5. LEASE DESIGNATION AND SERIAL NUMBER: ML23607
SUNDRY NOTICES AND REPORTS ON WELLS		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
1. TYPE OF WELL Gas Well		8. WELL NAME and NUMBER: NBU 922-31F2S
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		9. API NUMBER: 43047504150000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6515 Ext	9. FIELD and POOL or WILDCAT: NATURAL BUTTES
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2626 FSL 1451 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NESW Section: 31 Township: 09.0S Range: 22.0E Meridian: S		COUNTY: UINTAH
		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start: <input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 5/9/2011 <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 checked="" 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 type="text" value="Wellhead Repair"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.		
<p>The operator has concluded wellhead/casing repairs on the subject well location. Please see the attached chronological history for details of the operations.</p> <p style="text-align: right;">Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY</p>		
NAME (PLEASE PRINT) Gina Becker	PHONE NUMBER 720 929-6086	TITLE Regulatory Analyst II
SIGNATURE N/A		DATE 5/9/2011

US ROCKIES REGION
Operation Summary Report

US ROCKIES REGION								
Operation Summary Report								
Well: NBU 922-31F2S RED			Spud Conductor: 10/7/2009			Spud Date: 10/14/2009		
Project: UTAH-UINTAH			Site: NBU 922-31K PAD			Rig Name No: MILES-GRAY 1/1		
Event: WELL WORK EXPENSE			Start Date: 3/18/2011			End Date: 3/24/2011		
Active Datum: RKB @4,855.00ft (above Mean Sea Leve			UWI: NE/SW/0/9/S/22/E/31/0/0/26/PM/S/2,626.00/W/0/1,451.00/0/0					
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
3/21/2011	7:00 - 7:15	0.25	WO/REP	48		P		JSA-SAFETY MEETING, ROAD RIG, RIG UP
	7:15 - 10:30	3.25	WO/REP	30	A	P		ROAD RIG FROM NBU 921-14K TO LOC, MIRU SERVICE UNIT,
	10:30 - 12:00	1.50	WO/REP	30	F	P		200# ON WELL, PUMP 50 BBLS DN TBG, PUMP 75 BBLS DN CSG, N/D WH, N/U BOPS AND TBG EQUIP,
	12:00 - 14:30	2.50	WO/REP	31	I	P		TOOH W/ 2 3/8" L-80 TBG, 274 JTS 2 3/8" L-80 TBG.
	14:30 - 16:30	2.00	WO/REP	34	I	P		R/U CUTTER WIRELINE RIH W/ GAUGE RING TO 7200', RIH W/ BAKER 10K CBP, SET CBP @ 7140', RIH W/ DUMP BAILER, DUMP 4 SACKS CEMENT ON TOP OF CBP, R/D WIRELINE
3/22/2011	16:30 - 17:30	1.00	WO/REP	30		P		FILL CSG W/ WTR, N/D BOPS, N/U WH, SWIFN
	7:00 - 7:15	0.25	WO/REP	48		P		JSA-SAFETY MEETING W/ WEATHERFORD, FRANKS CSG AND RIG CREW, CSG AND WELL HEAD REPAIR W/ PRESSURE TESTING CSG,
	7:15 - 14:00	6.75	WO/REP	30		P		NO PRESSURE ON WELL, TOP CSG OFF W/ WTR, N/D CSG SPOOL. PULL PACKING OUT, R/U POWER SWIVEL, RIH W/ INSIDE CUTTER, CUT 4 1/2" CSG OFF, LAY DN CSG HANGER AND 10' CSG, R/U CSG TONGS AND WIRELINE, RIH W OVERSHOT, LATCH ONTO 4 1/2" CSG, PUT 3 TURN LEFT SHOT STRING SHOT OFF @ 3 COLLARS DN, BACK CSG OFF @ 820', SCREWED BACK INTO CSG W/ 12 TURNS, THEN 18 MORE TURNS BEFORE TORQUE UP TO 7000#, RELEASE OVERSHOT, LAY DN TOOLS,
	14:00 - 15:30	1.50	WO/REP	31		P		P/U 4 1/2" PACKER RIH 30' SET W/ 10 PULLED UP, R/U B & C QUICK TEST, PRESSURE TEST CSG TO 1000# FOR 15 MIN OK, R/D TESTER, RELEASE PACKER TOOH LAY PACKER DN,
	15:30 - 17:30	2.00	WO/REP	30		P		R/U POWER SWIVEL, RIH W/ INSIDE CUTTER FOR CSG, CUT CSG OFF @ 36' BELOW SURFACE, P/O LAY DN CUTTER, P/U SPEAR RIH LATCH INTO CSG, PULLED CUT OFF CSG OUT LAY DN, R/D POWER SWIVEL,
3/23/2011	17:30 - 19:30	2.00	WO/REP	30		P		P/U 1 JT 4 1/2" CSG W/ LOGAN PATCH, RIH LATCH ONTO CSG, PULLED UP TO 100,000#, PRESSURE TEST 4 1/2" CSG W/ LOW TEST 1000# FOR 15 MIN, MIDDLE TEST 3500# FOR 15 MIN, HIGH TEST 7000# HOLD FOR 2 MIN STARTED TO BLEED OFF W/ WTR COMING UP SURFACE, RETEST TO 7000# W/ BLEED OFF UP SURFACE. NO TEST, POSSIBLE PATCH LEAKING OR NOT ALL THE WAY OVER CSG, SDFN,
	7:00 - 7:15	0.25	WO/REP	48		P		JSA-SAFETY MEETING, TEST CSG
	7:15 - 9:00	1.75	WO/REP	30		P		NO PRESSURE ON WELL, TRY TO BEAT DN ON CSG TO PUSH PATCH ON DN OVER CSG, P/U 6 1/4" DRILL COLLAR AND BUMPER SUB, SCREW INTO 4 1/2" CSG, BEAT DN ON BUMPER SUB W/ PUSHING CSG ON DN @ 1 1/2' OVER CSG, LAY DN TOOLS, PULLED 100,000# ON CSG SLACK OFF TO 80,000#,

US ROCKIES REGION
Operation Summary Report

Well: NBU 922-31F2S RED	Spud Conductor: 10/7/2009	Spud Date: 10/14/2009
Project: UTAH-UINTAH	Site: NBU 922-31K PAD	Rig Name No: MILES-GRAY 1/1
Event: WELL WORK EXPENSE	Start Date: 3/18/2011	End Date: 3/24/2011
Active Datum: RKB @4,855.00ft (above Mean Sea Leve		
UWI: NE/SW/0/9/S/22/E/31/0/0/26/PM/S/2,626.00/W/0/1,451.00/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	9:00 - 11:00	2.00	WO/REP	33	C	P		R/U B&C QUICK TEST TO CSG, LOW TEST TO 1000# HOLD FOR 15 MIN, OK, MIDDLE TEST TO 3500# BLEED OFF 14# IN 15 MIN, HIGH TEST 7000#, BLEED OFF 45# IN 30 MIN, SMALL AMOUNT OF BUBBLE IN SURFACE CSG, BLEED PRESSURE DN TO 5500#, HOLD FOR 10 MIN , OK, BLEED PRESSURE DN TO 4500#, HOLD FOR 10 MIN, OK, PRESSURE BACK UP TO 7000# BLEED OFF 35 # IN 30 MIN W/ NO SIGN OF LEAK IN SURFACE CSG,
	11:00 - 12:00	1.00	WO/REP	30		P		PUT WEATHERFORD C-21 SLIPS IN HEAD, LAND 4 1/2" CSG IN SPOOL W/ SLIPS W/ 80,000#, cut 4 1/2" CSG STUB OFF,
	12:00 - 13:00	1.00	WO/REP	33	C	P		R/U TESTER TO SURFACE CSG, PRESSURE TEST SURFACE W/ LOW TEST 200# FOR 15 MIN, BLEED OFF 100# IN 15 MIN, HIGH TEST 500#, BLEED OFF 50# IN 30 MIN, NO SIGN OF LEAK INTO 4 1/2" CSG, R/D TESTER,
	13:00 - 15:30	2.50	WO/REP	30		P		N/U NEW WEATHERFORD CSG HEAD AND TBG SPOOL,
	15:30 - 17:30	2.00	WO/REP	31	I	P		N/U BOPS AND TBG EQUIP, P/U 3 7/8" BIT W/ POBS, TIH TO 5000', W BROACH TBG IN HOLE, SWI SDFN
3/24/2011	7:00 - 7:15	0.25	WO/REP	48		P		JSA-SAFETY MEETING, DRILL OUT W/ FOAM,
	7:15 - 9:00	1.75	WO/REP	31	I	P		NO PRESSURE ON WELL, TIH W 2 3/8" L-80 TBG W/ BROACH TBG IN HOLE, TAG UP @ 7100',
	9:00 - 14:00	5.00	WO/REP	44	C	P		R/U POWER SWIVEL AND FOAM/ N2 UNIT, PRESSURE TEST BOPS TO 3000# OK, ESTB CIRC W/ N2/ FOAM UNIT DN TBG OUT CSG TO TK, DRILL OUT CEMENT FROM 7100' TO 7140', CIRC CEMENT OUT, DRILL OUT CBP IN 5 MIN, NO PRESSURE INCREASE, RIH TAG FILL 9245', C/O FILL FROM 9245' TO 9292' PBD, CIRC WELL CLEAN,
	14:00 - 17:00	3.00	WO/REP	31	I	P		R/D POWER SWIVEL, P/O LAY DN 20 JTS ON TRAILER, LAND TBG IN WELL HEAD W/ TBG HANGER, EOT @ 8686.54', N/D BOPS, N/U WH, PUMP BIT OFF @ 1600 #, SHUT WELL IN W/ SICP = 1200 #, SITP =300 #, R/D SERVICE UNIT, 40 BBLS WTR LTR KB = 15.00' HANGER = .83' 274 JTS 2 3/8" L-80 TBG = 8667.51' XN -NIPPLE 1.875 = 2.20' EOT = 8685.54'

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
		5. LEASE DESIGNATION AND SERIAL NUMBER: ML23607
SUNDRY NOTICES AND REPORTS ON WELLS		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
1. TYPE OF WELL Gas Well		8. WELL NAME and NUMBER: NBU 922-31F2S
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		9. API NUMBER: 43047504150000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6511	9. FIELD and POOL or WILDCAT: NATURAL BUTTES
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2626 FSL 1451 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NESW Section: 31 Township: 09.0S Range: 22.0E Meridian: S		COUNTY: UINTAH STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start: <input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 2/17/2012 <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PLUG BACK <input checked="" type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> WILDCAT WELL DETERMINATION <input type="checkbox"/> OTHER OTHER: <input type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.		
THE SUBJECT WELL WAS PLACED BACK ON PRODUCTION ON 02/17/2012 AT 1100 HRS.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY February 28, 2012		
NAME (PLEASE PRINT) Sheila Wopsock	PHONE NUMBER 435 781-7024	TITLE Regulatory Analyst
SIGNATURE N/A		DATE 2/22/2012

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

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

Well Name: **NBU 922-31F2S**

Api No: **43-047-50415** Lease Type: **STATE**

Section **31** Township **09S** Range **22E** County **UINTAH**

Drilling Contractor **PETE MARTIN DRILLING** RIG # **BUCKET**

SPUDDED:

Date **10/07/2009**

Time **8:00 AM**

How

Drilling will Commence:

Reported by **KENNY**

Telephone # **(435) 828-1691**

Date **10/07/2009** Signed **CHD**

ENTITY ACTION FORM

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

Well 1

API Number	Well Name	QQ	Sec	Twp	Rng	County
4304750417	NBU 922-31J2S	NESW	31	9S	22E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date	
B	99999	2900	10/7/2009		10/13/09	
Comments: MIRU PETE MARTIN BUCKET RIG. <i>WSTMVD</i> SPUD WELL LOCATION ON 10/07/2009 AT 13:30 HRS. <i>BHL = NWSE</i>						

Well 2

API Number	Well Name	QQ	Sec	Twp	Rng	County
4304750415	NBU 922-31F2S	NESW	31	9S	22E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date	
B	99999	2900	10/7/2009		10/13/09	
Comments: MIRU PETE MARTIN BUCKET RIG. <i>WSTMVD</i> SPUD WELL LOCATION ON 10/07/2009 AT 16:00 HRS. <i>BHL = SENW</i>						

Well 3

API Number	Well Name	QQ	Sec	Twp	Rng	County
4304750419	NBU 922-31F3S	NESW	31	9S	22E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date	
B	99999	2900	10/8/2009		10/13/09	
Comments: MIRU PETE MARTIN BUCKET RIG. <i>WSTMVD</i> SPUD WELL LOCATION ON 10/08/2009 AT 09:00 HRS. <i>BHL = SENW</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
OCT 08 2009

ANDY LYTLE

Name (Please Print)

Signature

REGULATORY ANALYST

Title

10/8/2009

Date