					ST DEPARTMENT DIVISION C		URAL RES				AMENI	FC DED REPOR	RM 3	
		AF	PPLICATION FO		1. WELL NAME and NUMBER NBU 921-20L1BS									
2. TYPE O	F WORK	DRILL NEW WELL	REENTER	P&A WELL	. DEEPEN	WELL ()			3. FIELD OR WILDCA	T NATURAL	.BUTTES		
4. TYPE O	F WELL				hane Well: NO					5. UNIT or COMMUNI	TIZATION NATURAL		ENT NAM	ΛE
6. NAME (OF OPERATOR		KERR-MCGEE OIL							7. OPERATOR PHONE				
8. ADDRE	SS OF OPERAT		P.O. Box 173779							9. OPERATOR E-MAII	L	anadarko	20.00	
	AL LEASE NUM		F.O. BOX 173778	11. MI	NERAL OWNERS	SHIP				12. SURFACE OWNER		anauarko		
	_, INDIAN, OR S	UTÚ0575	KIV	FED	ERAL (III) INC	DIAN 🔵	STATE () FEE(2		DIAN 📵			EE 💮
		OWNER (if box 12								14. SURFACE OWNE		`		
15. ADDR	ESS OF SURFA	CE OWNER (if box	12 = 'fee')							16. SURFACE OWNE	R E-MAIL	(if box 12	! = 'fee')	
		R TRIBE NAME			TEND TO COMM IPLE FORMATIO		RODUCTION	NFROM		19. SLANT				
(if box 12 = 'INDIAN') Ute Tribe YES (Submit Commingling Application) NO VERTICAL DIRECTIONAL HORIZONTAL												TAL 🔵		
20. LOC/	ATION OF WELI	-		FOOTAGE	ES	QTR	R-QTR	SECT	TION	TOWNSHIP	RA	ANGE	М	ERIDIAN
LOCATIO	N AT SURFACI		24	10 FSL 79	FWL	NV	wsw	20	0	9.0 S	2	1.0 E		S
Top of U	ppermost Prod	lucing Zone	239	6 FSL 819	9 FWL	NV	wsw	20	0	9.0 S	2	1.0 E		S
At Total	Depth		239	6 FSL 819	9 FWL	NV	NWSW 20			9.0 S	1.0 E		S	
21. COUN	ITY	UINTAH		22. DIS	STANCE TO NEA	REST LEA 819		eet)		23. NUMBER OF ACR	ES IN DRI 16		IT	
					STANCE TO NEA ied For Drilling		leted)	POOL		26. PROPOSED DEPT MD:	H 11387	TVD: 112	:99	
27. ELEV	ATION - GROUN			28. BC	OND NUMBER	WVP00	29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE 43-8496					LE		
		4818			Hole, Casing	. and Ce		rmation			43-0	7430		
String	Hole Size	Casing Size	Length	Weight	Grade & T		Max Mu			Cement		Sacks	Yield	Weight
Surf	11	8.625	0 - 2840	28.0	J-55 L1	Г&С	0.	.2		Type V		180	1.15	15.8
Prod	7.875	4.5	0 - 11387	11.6	HCP-110	LTOC	12	E	Dro	Class G nium Lite High Stre	nath	270 350	3.38	15.8
Fiou	7.073	4.5	0 - 11307	11.0	TICF-110	LIAC	12	.5	FIE	50/50 Poz	ilgui	1630		14.3
					A	TTACHN	MENTS						<u> </u>	
	VEF	RIFY THE FOLLO	WING ARE AT	ACHED I	IN ACCORDAN	ICE WITH	H THE UTA	AH OIL AI	ND GAS	CONSERVATION G	ENERA	L RULES		
≥ w	ELL PLAT OR M	AP PREPARED BY	LICENSED SURVE	YOR OR E	NGINEER		№ сом	PLETE DR	ILLING PI	.AN				
AF	FIDAVIT OF STA	ATUS OF SURFACE	OWNER AGREEM		FORM	/ 5. IF OPE	RATOR IS	OTHER THAN THE L	EASE OW	NER				
DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED) TOPOGRAPHICAL MAP														
NAME C	ara Mahler			TITLE	Regulatory Analy	rst I			PHONE	720 929-6029				
SIGNATU	IRE			DATE	11/27/2012				EMAIL	cara.mahler@anadarko	o.com			
API NUMBER ASSIGNED 43047533450000														
									rern	it Manager				

Kerr-McGee Oil & Gas Onshore. L.P.

 NBU 921-20L1BS

 Surface:
 2410 FSL / 79 FWL
 NWSW

 BHL:
 2396 FSL / 819 FWL
 NWSW

Section 20 T9S R21E

Unitah County, Utah Mineral Lease: UTU 0575

ONSHORE ORDER NO. 1

DRILLING PROGRAM

1. & 2.a <u>Estimated Tops of Important Geologic Markers:</u> <u>Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations:</u>

<u>Formation</u>	<u>Depth</u>	<u>Resource</u>
Uinta	0 - Surface	
Green River	1,617'	
Birds Nest	1,883'	Water
Mahogany	2,386'	Water
Wasatch	4,980'	Gas
Mesaverde	8,014'	Gas
Sego	10,261'	Gas
Castlegate	10,331'	Gas
Blackhawk	10,699'	Gas
TVD =	11,299'	
TD =	11,387'	

2.c Kerr McGee Oil & Gas Onshore LP (Kerr McGee) may elect to drill to (i) the Blackhawk formation (part of the Mesaverde Group), (ii) to a shallower depth within the Mesaverde Group, or (iii) to the Wasatch Formation. If Kerr McGee drills to the Blackhawk formation, please refer to Blackhawk as the bottom formation. The attached Blackhawk Drilling Program includes Total Vertical Depth, Total Depth, and appropriate casing and cement programs for the deeper formation.

If Kerr-McGee drills to a shallower depth in the Mesaverde Group or to the Wasatch Formation, please refer to the attached Wasatch/Mesaverde Drilling Program which includes Total Vertical Depth, Total Depth, and appropriate casing and cement programs for the shallower formations.

3. <u>Pressure Control Equipment</u> (Schematic Attached)

Please refer to the attached Blackhawk Drilling Program and the Wasatch/Mesaverde Drilling Program

4. Proposed Casing & Cementing Program:

Please refer to the attached Blackhawk Drilling Program and the Wasatch/Mesaverde Drilling Program

5. <u>Drilling Fluids Program</u>:

Please refer to the attached Blackhawk Drilling Program and the Wasatch/Mesaverde Drilling Program

6. Evaluation Program:

Please refer to the attached Blackhawk Drilling Program and the Wasatch/Mesaverde Drilling Program

7. Abnormal Conditions:

7.a Blackhawk (Part of Mesaverde Group)

Maximum anticipated bottom hole pressure calculated at 11299' TVD, approximately equals 7,231 psi (0.64 psi/ft = actual bottomhole gradient)

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

Maximum anticipated surface pressure equals approximately 4,730 psi (bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot, per Onshore Order No. 2).

Per Onshore Order No. 2 - Max Anticipated Surf. Press.(MASP) = (Pore Pressure at next csg point-(0.22 psi/ft-partial evac gradient x TVD of next csg point))

7.b Wasach Formation/Mesaverde Group

Maximum anticipated bottom hole pressure calculated at 10261' TVD, approximately equals 6,259 psi (0.61 psi/ft = actual bottomhole gradient)

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

Maximum anticipated surface pressure equals approximately 4,029 psi (bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot, per Onshore Order No. 2).

Per Onshore Order No. 2 - Max Anticipated Surf. Press.(MASP) = (Pore Pressure at next csg point-(0.22 psi/ft-partial evac gradient x TVD of next csg point))

8. Anticipated Starting Dates:

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

9. Variances:

Please refer to the attached Blackhawk Drilling Program and the Wasatch/Mesaverde 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 Rird'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 for the first 200 feet, then will drill a 11 inch hole to just above the Bird's Nest interval with an air hammer. The hammer is then tripped and replaced with a 11 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 8-5/8 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 blooic 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 blooic 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.

Variance for FIT Requirements

KMG also respectfully requests a variance to Onshore Order 2, Section III, Part Bi, for the pressure integrity test (PIT, also known as a formation integrity test (FIT)). This well is not an exploratory well and is being drilled in an area where the formation integrity is well known. Additionally, when an FIT is run with the mud weight as required, the casing shoe frequently breaks down and causes subsequent lost circulation when drilling the entire depth of the well.

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:

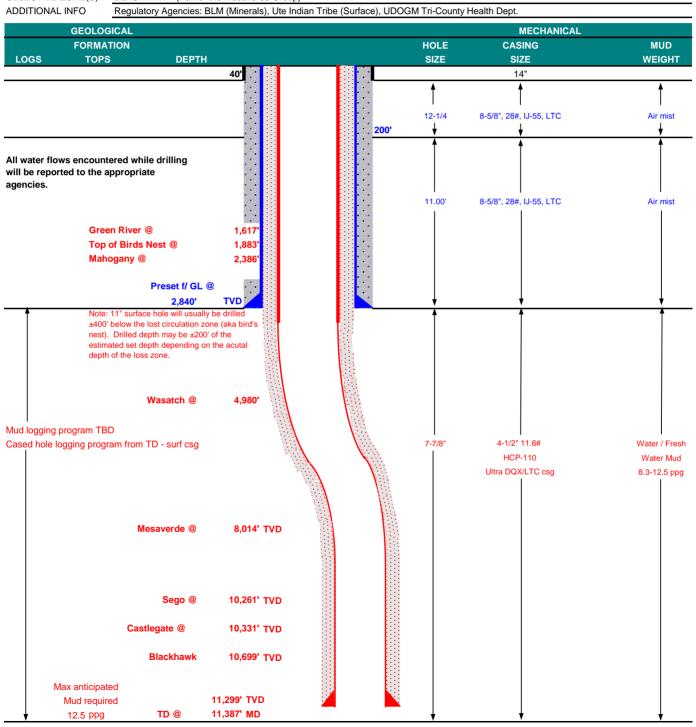
Please refer to the attached Blackhawk Drilling Program and the Wasatch/Mesaverde Drilling Program

RECEIVED: November 27, 2012



KERR-McGEE OIL & GAS ONSHORE LP Blackhawk Drilling Program

COMPANY NAME KER	R-McGEE OIL 8	GAS ONSHORE	E LP		DATE	July 13, 20	12		
WELL NAME NB	J 921-20L1B	S			TD	11,299'	TVD	11,387' MD	
FIELD Natural Butte	S	COUNTY	Uintah S	STATE Utal	h	FINIS	HED ELEVATION_	4,818'	
SURFACE LOCATION	NWSW	2410 FSL	79 FWL	Sec 20	T 9S	R 21E			
	Latitude:	40.020869	Longitude:	-109.584	4728		NAD 83		
BTM HOLE LOCATION	NWSW	2396 FSL	819 FWL	Sec 20	T 9S	R 21E			
	Latitude:	40.020829	Longitude:	-109.582	2086		NAD 83		
OBJECTIVE ZONE(S)	BLACKHAWK	(Part of the Mesa	verde Group)	•	•		•		
ADDITIONAL INFO	Regulatory Age	encies: BLM (Min	erals), Ute India	an Tribe (Su	rface), U	DOGM Tri-Cou	nty Health Dept.		





KERR-McGEE OIL & GAS ONSHORE LP Blackhawk Drilling Program

CASING PROGRAI	<u>VI</u>	DESIGN FACTORS									
										LTC	DQX
	SIZE	INT	ERVA	L	WT.	GR.	CPLG.	BURST	COLLAPSE	TEN	ISION
CONDUCTOR	14"	(0-40'								
								3,390	1,880	348,000	N/A
SURFACE	8-5/8"	0	to	2,840	28.00	IJ-55	LTC	1.89	1.41	5.00	N/A
								10,690	8,650	279,000	367,174
PRODUCTION	4-1/2"	0	to	5,000	11.60	HCP-110	DQX	1.19	1.18		3.44
	4-1/2"	5,000	to	11,387'	11.60	HCP-110	LTC	1.19	1.18	4.65	

Surface Casing:

(Burst Assumptions: TD = 12.5 ppg) 0.73 psi/ft = frac gradient @ surface shoe

Fracture at surface shoe with 0.1 psi/ft gas gradient above

(Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

Production casing:

(Burst Assumptions: Pressure test with 8.4ppg @ 9000 psi) 0.64 psi/ft = bottomhole gradient

(Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE	LEAD	500'	Premium cmt + 2% CaCl	180	60%	15.80	1.15
Option 1			+ 0.25 pps flocele				
TOP OUT CM	T (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt	270	0%	15.80	1.15
			+ 2% CaCl + 0.25 pps flocele				
SURFACE			NOTE: If well will circulate water	to surface, o	ption 2 will b	oe utilized	
Option 2	LEAD	2,340'	65/35 Poz + 6% Gel + 10 pps gilsonite	220	35%	11.00	3.82
			+ 0.25 pps Flocele + 3% salt BWOW				
	TAIL	500'	Premium cmt + 2% CaCl	150	35%	15.80	1.15
			+ 0.25 pps flocele				
TOP (OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.80	1.15
PRODUCTION	LEAD	4,477'	Premium Lite II +0.25 pps	350	35%	12.00	3.38
			celloflake + 5 pps gilsonite + 10% gel				
			+ 0.5% extender				
	TAIL	6,910'	50/50 Poz/G + 10% salt + 2% gel	1,630	35%	14.30	1.31
			+ 0.1% R-3				

^{*}Substitute caliper hole volume plus 0% excess for LEAD 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. 15 centralizers for a Mesaverde and 20 for a Blackhawk well.

centralizer on the first 3 joints and one every third joint thereafter.

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' min	imum intervals.

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

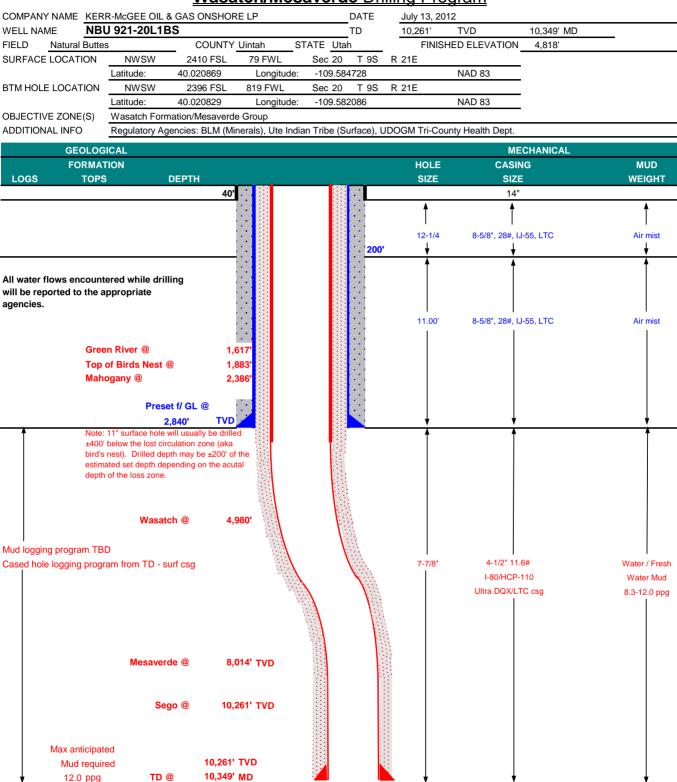
DRILLING ENGINEER:		DATE:	
	Nick Spence / Danny Showers / Travis Hansell		
DRILLING SUPERINTENDEN	T:	DATE:	

Kenny Gathings / Lovel Young

^{*}Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained



KERR-McGEE OIL & GAS ONSHORE LP Wasatch/Mesaverde Drilling Program





KERR-McGEE OIL & GAS ONSHORE LP Wasatch/Mesaverde Drilling Program

CASING PROGRA	<u>M</u>	DESIGN FACTORS									
										LTC	DQX
	SIZE	INTI	ERVA	L	WT.	GR.	CPLG.	BURST	COLLAPSE	TEN	ISION
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								3,390	1,880	348,000	N/A
SURFACE	8-5/8"	0	to	2,840	28.00	IJ-55	LTC	1.89	1.41	5.00	N/A
								7,780	6,350		267,035
PRODUCTION	4-1/2"	0	to	5,000	11.60	I-80	DQX	1.11	0.99		2.72
								10,690	8,650	223,000	
	4-1/2"	5,000	to	10,349'	11.60	HCP-110	LTC	1.53	1.35	4.40	

Surface Casing:

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Fracture at surface shoe with 0.1 psi/ft gas gradient above

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		celloflake + 5 pps gilsonite + 10% gel				
		+ 0.5% extender				
TAIL	5,870'	50/50 Poz/G + 10% salt + 2% gel	1,390	35%	14.30	1.31
		+ 0.1% R-3				

^{*}Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained

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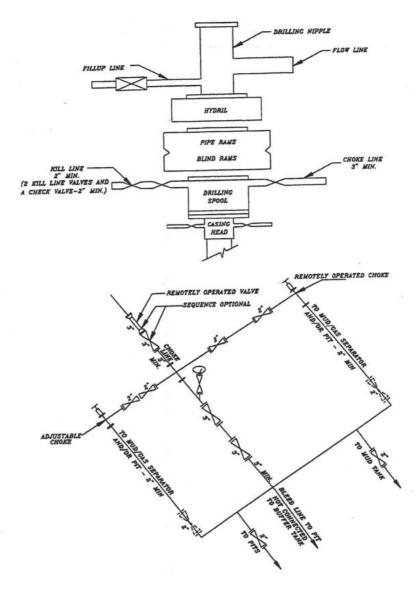
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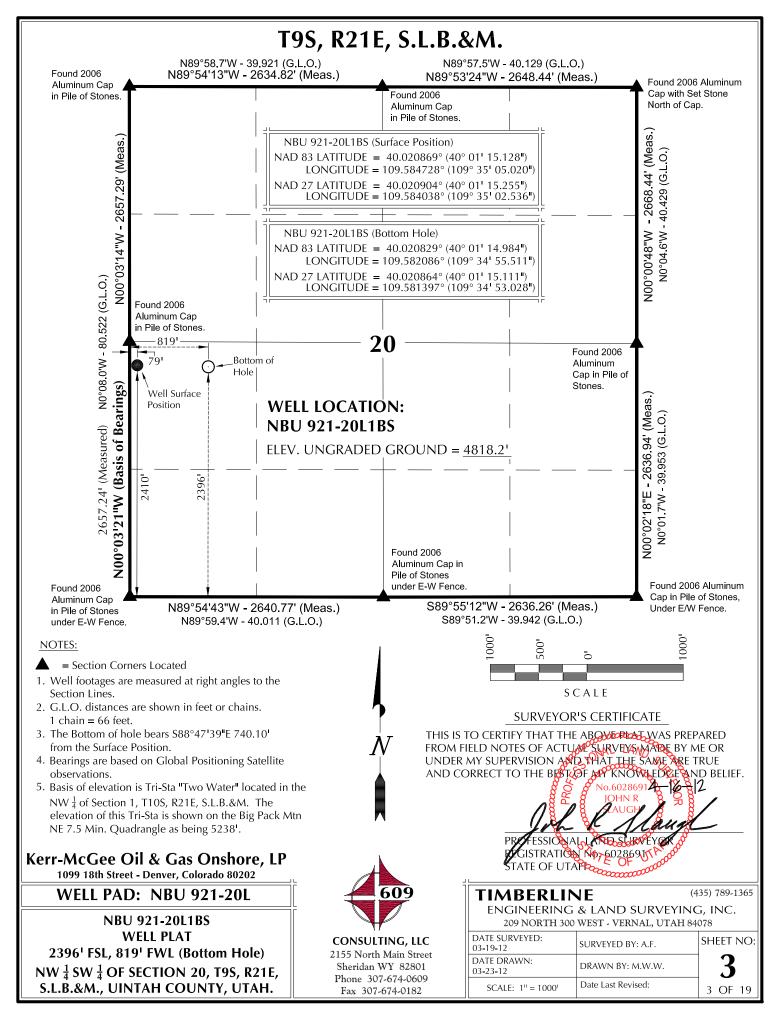
DRILLING ENGINEER:		DATE:
	Nick Spence / Danny Showers / Travis Hansell	
DRILLING SUPERINTENDENT:		DATE:
	Kenny Gathings / Lovel Young	

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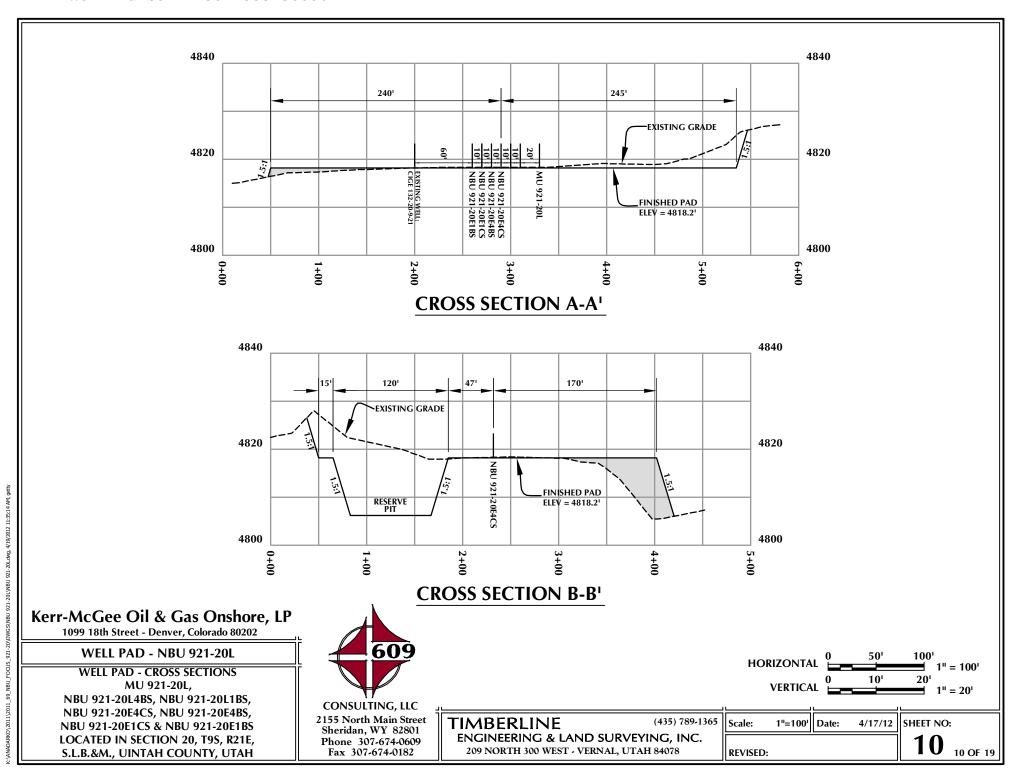
EXHIBIT A NBU 921-20L1BS

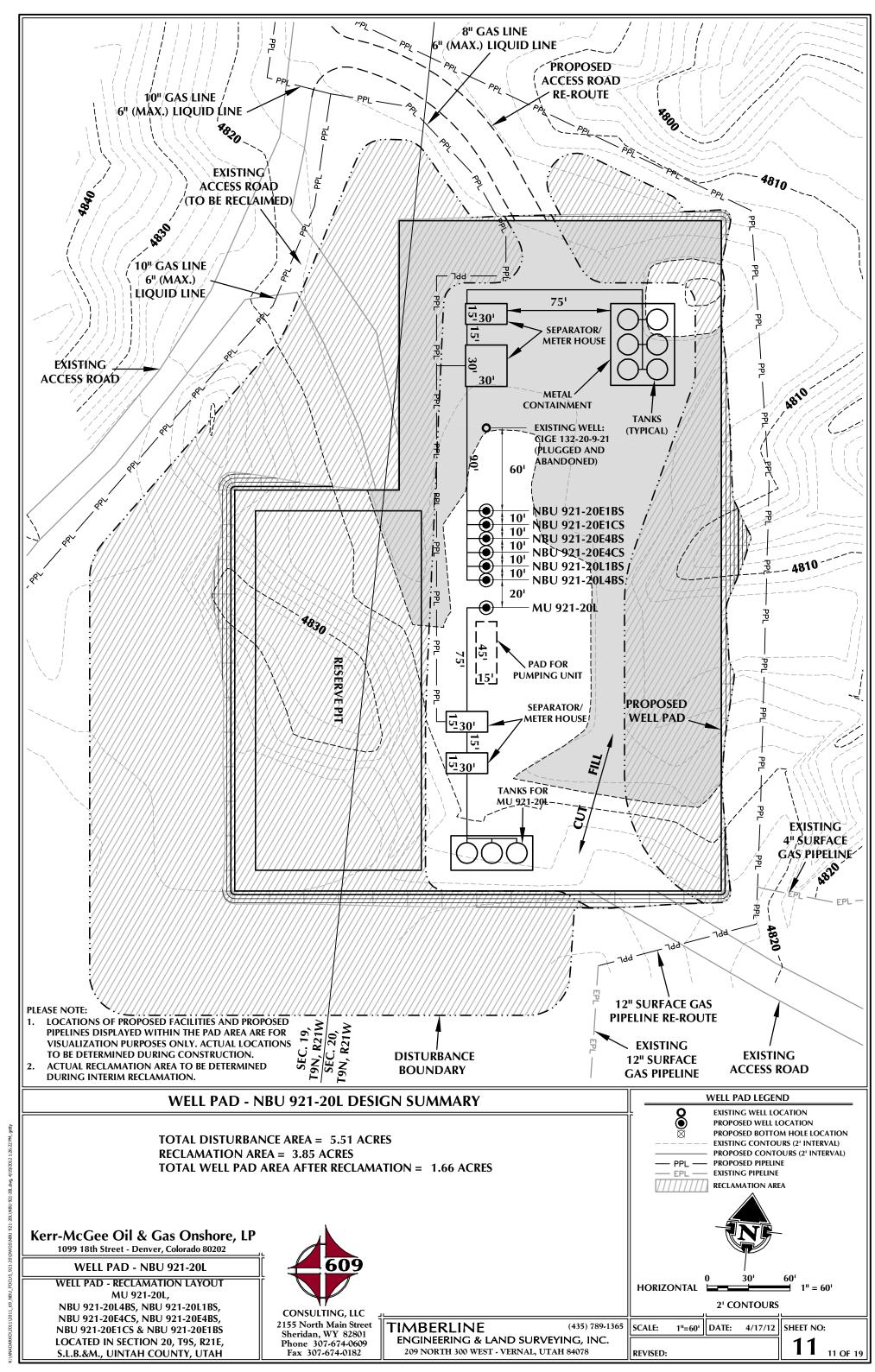


SCHEMATIC DIAGRAM OF 5,000 PSI BOP STACK



			SURFA	ACE POSITIC				BOTTOM HOLE								
WELL NAME	N/ LATITUDE	AD83 LONGIT	LIDE	NAI LATITUDE	D27 LONG	ITUDE	FOOTAGES	LATII	NAE	D83 LONGI	TUDE	NAI LATITUDE	D27 LONGITUDE	FOOTAGES		
MU	40°01'14.834		1.977" 40	0°01'14.961"			2381 FSL	LAIII	ODE	LONGI	TODE	LATITODE	LONGHODE	TOOTAGES		
921-20L NBU	40.020787° 40°01'15.030	109.5847 ¹ 0" 109°35'05		0.020822° 0°01'15.158"	109.584 109°35'		82' FWL 2401' FSL	40°01'	D8 463#	109°34'5	E FOAII	40°01'08.590"	109°34'53.021"	1736' FSL		
921-20L4BS	40.020842°	109.58472	24° 40	0.020877°	109.584		80' FWL	40.019	018°	109.5820	085°	40.019053°	109.581395°	818' FWL		
NBU 921-20L1BS	40°01'15.128 40.020869°	3" 109°35'05 109.584 <i>72</i>		0°01'15.255" 0.020904°	109°35'0		2410' FSL 79' FWL	40°01'' 40.020		109°34'5 109.5820		40°01'15.111" 40.020864°	109°34'53.028" 109.581397°	2396' FSL 819' FWL		
NBU	40°01'15.226	5" 109°35'05	5.033" 40	0°01'15.353"	109°35'	02.549"	2420' FSL	40°01'	18.485"	109°34'5	55.522"	40°01'18.612"	109°34'53.038"	2564' FNL		
921-20E4CS NBU	40.020896° 40°01'15.324	109.58473 1" 109°35'05		0.020931° 0°01'15.451"	109.584 109°35'		78' FWL 2430' FSL	40.021 40°01'2		109.5820 109°34'5		40.021837° 40°01'21.883"	109.581399° 109°34'53.048"	819' FWL 2233' FNL		
921-20E4BS NBU	40.020923° 40°01'15.423	109.58473		0.020959°	109.584	045°	77' FWL	40.022	710°	109.5820	092°	40.022745°	109.581402°	819' FWL		
921-20E1CS	40.020951°	3" 109°35'05 109.58473		0°01'15.550" 0.020986°	109°35'0 109.584		2440' FSL 76' FWL	40.023		109°34'5 109.5820		40°01'25.153" 40.023654°	109°34'53.057" 109.581405°	1902' FNL 819' FWL		
NBU 921-20E1BS	40°01'15.521 40.020978°	109°35'05 109.58474		0°01'15.648" 0.021013°	109°35'0		2450' FSL 75' FWL	40°01'2 40.024		109°34'5 109.5820		40°01'28.423" 40.024562°	109°34'53.067" 109.581407°	1571' FNL 819' FWL		
CIGE	40°01'16.110)" 109°35'05	5.159" 40	0°01'16.237"	109°35'0	02.675"	2510' FSL	10.021	327	109.3020	097	40.024302	109.30140/	OISTVVL		
132-20-9-21	40.021142°	109.58476	66° 40	0.021177°	109.584		- From Surface	Dosition	to Post	om Holo						
WELL NAME	NORTH	EAST	WELL		ORTH	EAS		NAME	NOR		EAST	WELL NAM	1E NORTH	EAST		
NBU 221 221 4PC	-665.7'	738.5'	NBU	NADC -	15.6'	739.	91 NBU	05466	328.	.9'	740.6¹	NBU	649.91	741.4'		
921-20L4BS WELL NAME	NORTH	EAST	921-20 WELL	DL1BS	ORTH	EAS	921-2	UE4CS				921-20E4B	<u>, </u>			
NBU	971.0'	742.1	NBU 921-20	1	292.0	742.					1					
921-20E1CS			921-20	1 103							/ 3	122. 139. 159. 16 Rear 139. 159. 16 Rear 139. 160. 160. 160. 160. 160. 160. 160. 160	1	/		
							009'15"W 353.84583°			,	/ 35 ³ /	127. 1591° 2000 1591° 2000 1591° 2000 1591° 2000 1591° 2000 1591° 2000 1591° 2000 1591° 2000 1591° 2000 1591° 2000 1591° 2000 1591° 2000 15000 1500° 2000 1500° 2000 1500° 2000 1500° 2000 1500° 2000 1500° 20				
							5"V 745			/	25 July	/200 017°	202			
							3.8			ž / N	33/33	8129	183 (e)			
					1		35	,	$\mathring{\mathcal{S}}$ $\mathring{\mathcal{S}}$			1/23/	Ho.			
					1		$N06^{\circ}09^{1}5^{"W}$ AZ = 353.8458	9	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	% ^T /		by 12 Sotton	Ì			
	EXISTING	WELL: (CIGE 1	32-20-9-	21 (Dry	Hole I	Marker) ↓ <	~ \(\oldsymbol{O}_{\	4/2	~ /	4	VO KOD	1			
D	ASIS OF BEA	DINICS IS T	-LIE \\/E6	CT I INIE	1		•	1/29.42.35.35.30.30.25.35.35.35.35.35.35.35.35.35.35.35.35.35	5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		/	1272 159170 RD 48.759170 RD 45331401				
	OF THE SW $\frac{1}{4}$				1		Ì	$\angle \left(\frac{2}{3} \left(\frac{1}{3} \right) \right)$	/8 ⁰ /	/	/	05583	37			
S.	.L.B.&M. WF	HICH IS TAI	KEN FRO	MC			1	\$3,76		_/	Ŋ.	1=66.03 - 8	10.5			
l a	GLOBAL POS Observatio				1		1	`/ /	/		٠, د	03'2 40m'	401C)			
						2051	\ \DC */	. / /	/		400	7=66.05583 7=66.05583 03'21"E-8 To Bottom!	1			
7				8° 60.0' N B			5 T	<i>;</i>		/			1			
A 7				0° 70.0' NE 7° 80.0' NI				<i>′</i>	/				1			
/V				9° 90.0' N								1.20583°	1			
				2° 100.0' N			21	- —				9"E - 740.1	$\frac{0}{1} - \frac{1}{1}$			
				6° 109.9' N			= 1 4			(1	o Bot	tom Hole)				
I M	۸.	to Friet M	/11 252	3.84556° 13	0.01.841	11021	20.									
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Kerr-Mc0	Gee Oil 8th Street - D									S C A L I	E					
	L PAD -	,			Ī	4	609		11	MBE		INE	(4	35) 789-1365		
	L PAD INT				L [1			11	NGINE	EERIN	G & LAND	SURVEYING			
	WELLS - N	AU 921-20L	-,			:		_	DAT			000 WEST - VEF	RNAL, UTAH 84			
	J 921-20L4BS J 921-20E4C S	*	,	· I	l		ULTING, LL orth Main Stre		03-19			SURVEYED E	BY: A.F.	SHEET NO:		
NBU	921-20E1CS	& NBU 921	1-20E1B	s		Sherid	an WY 8280	1	DATE 03-23	E DRAWN: 3-12	:	DRAWN BY:	: M.W.W.	8		
	ATED IN SEC .&M., UINTA						307-674-060 307-674-0182			CALE: 1" =	= 60'	Date Last Re	vised:	8 OF 19		
. 3.L.B.	.cxivi., UIINTA	III COONT	і, ОТАП			rax 3	1014-0182		ـــاكـــــــــــــــــــــــــــــــــ					U UI 17		





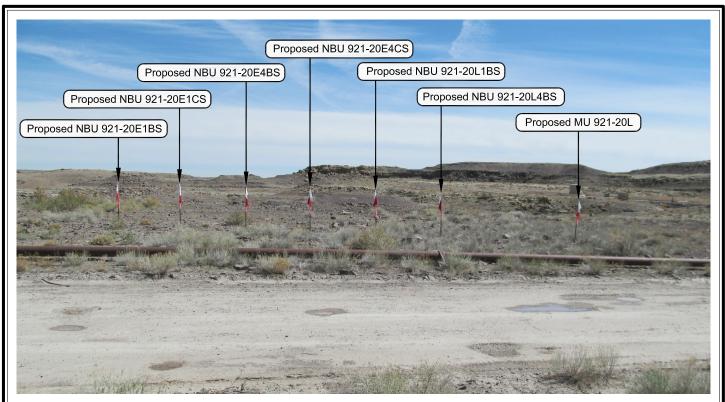


PHOTO VIEW: FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: EASTERLY



PHOTO VIEW: FROM BEGINNING OF PROPOSED ROAD

CAMERA ANGLE: SOUTHEASTERLY

(435) 789-1365

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

WELL PAD - NBU 921-20L

LOCATION PHOTOS MU 921-20L, NBU 921-20L4BS, NBU 921-20L1BS, NBU 921-20E4CS, NBU 921-20E4BS, NBU 921-20E1CS & NBU 921-20E1BS LOCATED IN SECTION 20, T9S, R21E, S.L.B.&M., UINTAH COUNTY, UTAH.



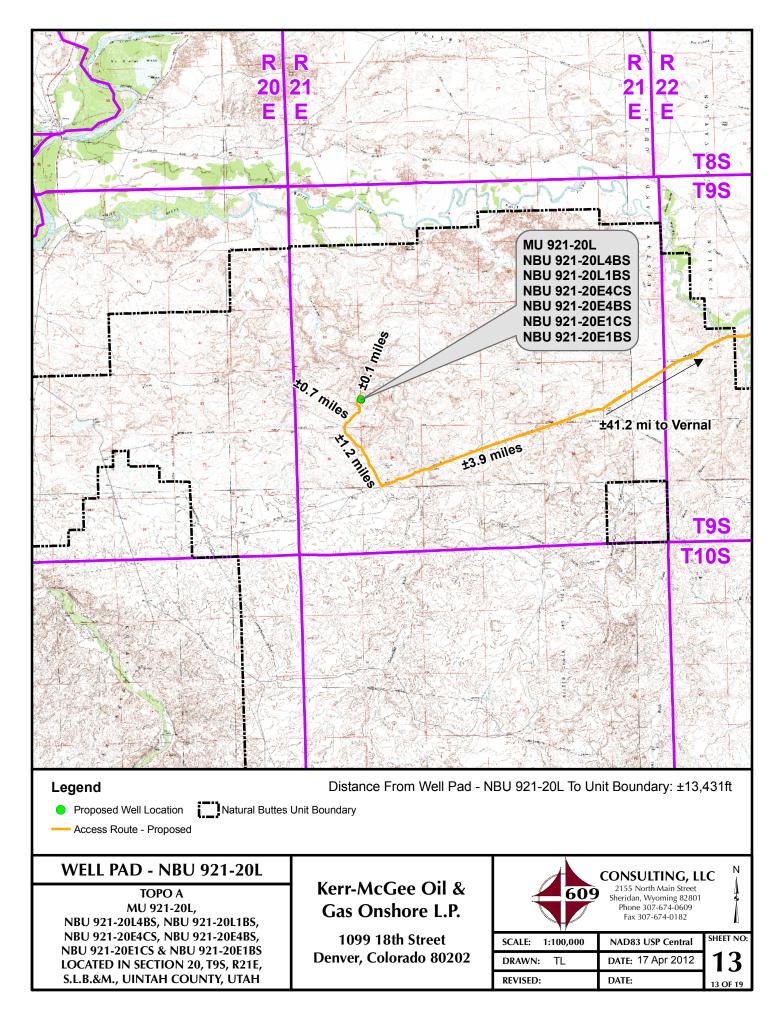
CONSULTING, LLC 2155 North Main Street Sheridan WY 82801 Phone 307-674-0609

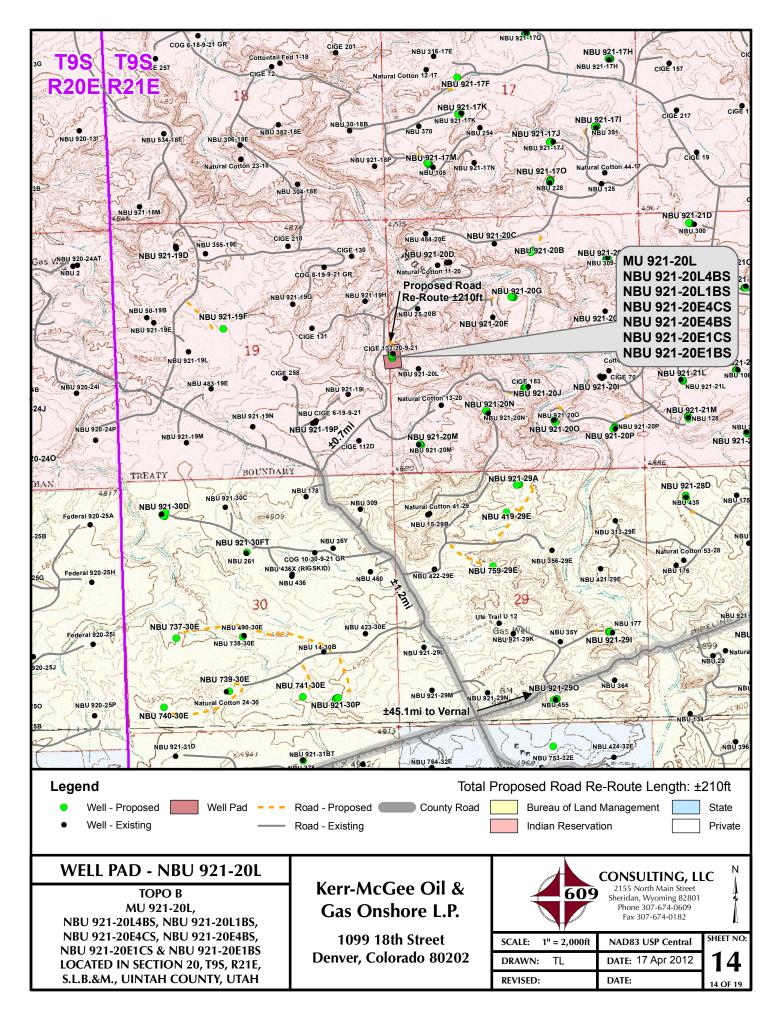
Fax 307-674-0182

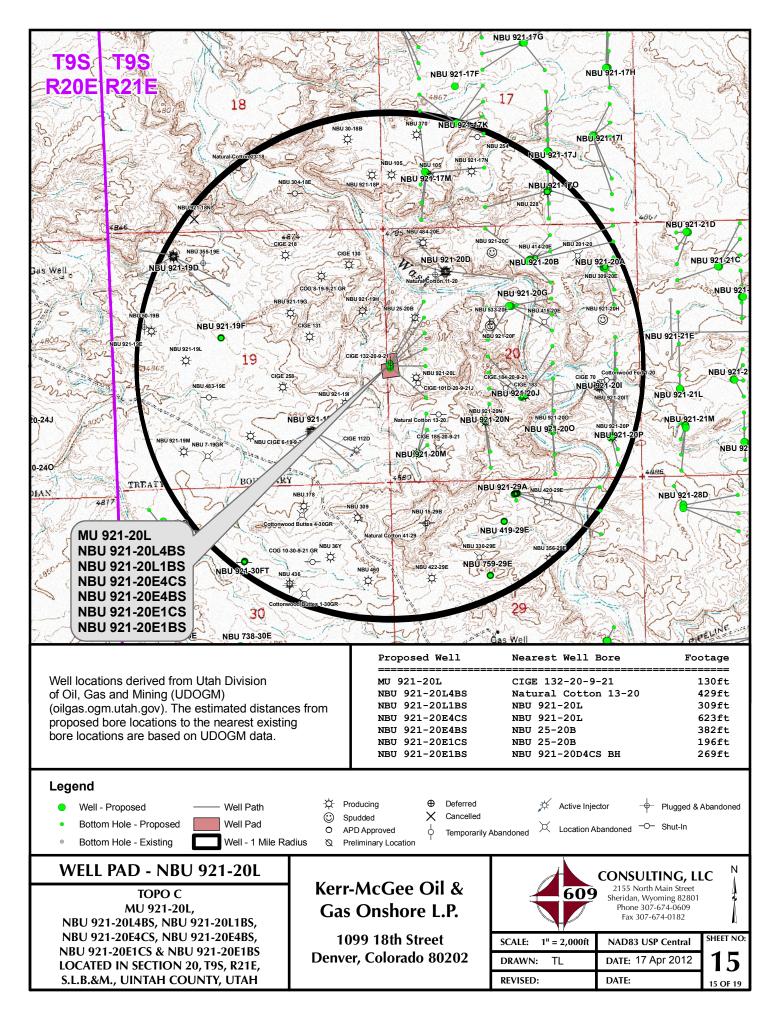
IIMBEKLINE
ENGINEERING & LAND SURVEY
209 NORTH 300 WEST - VERNAL, UTA

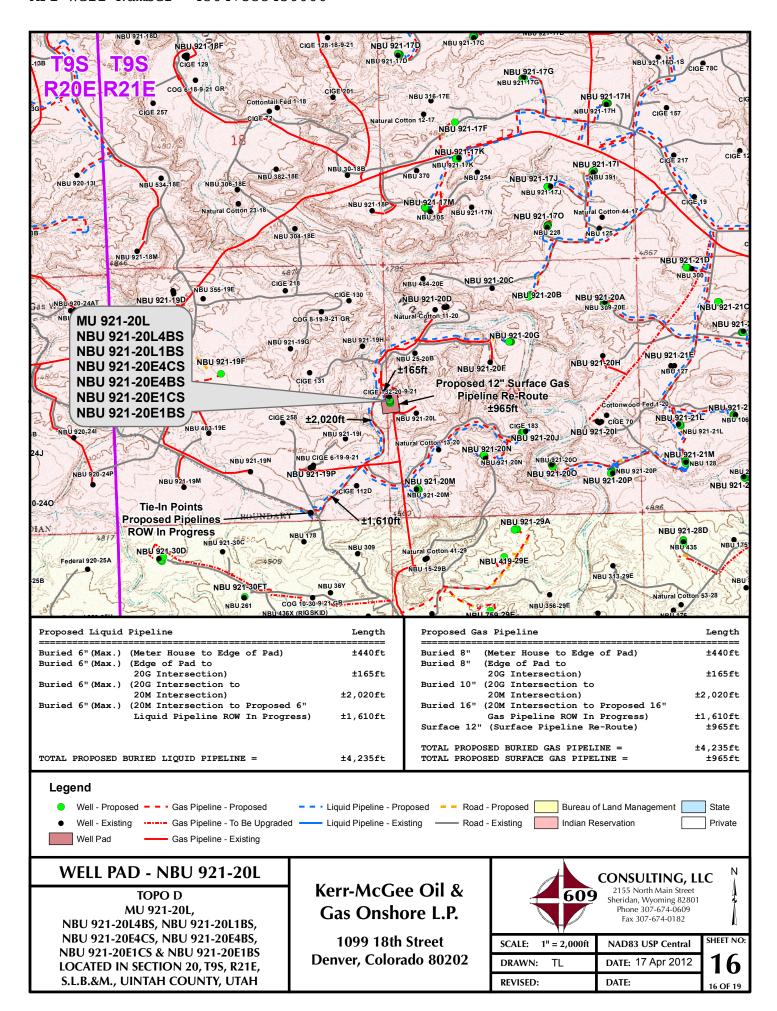
YING, INC. H 84078

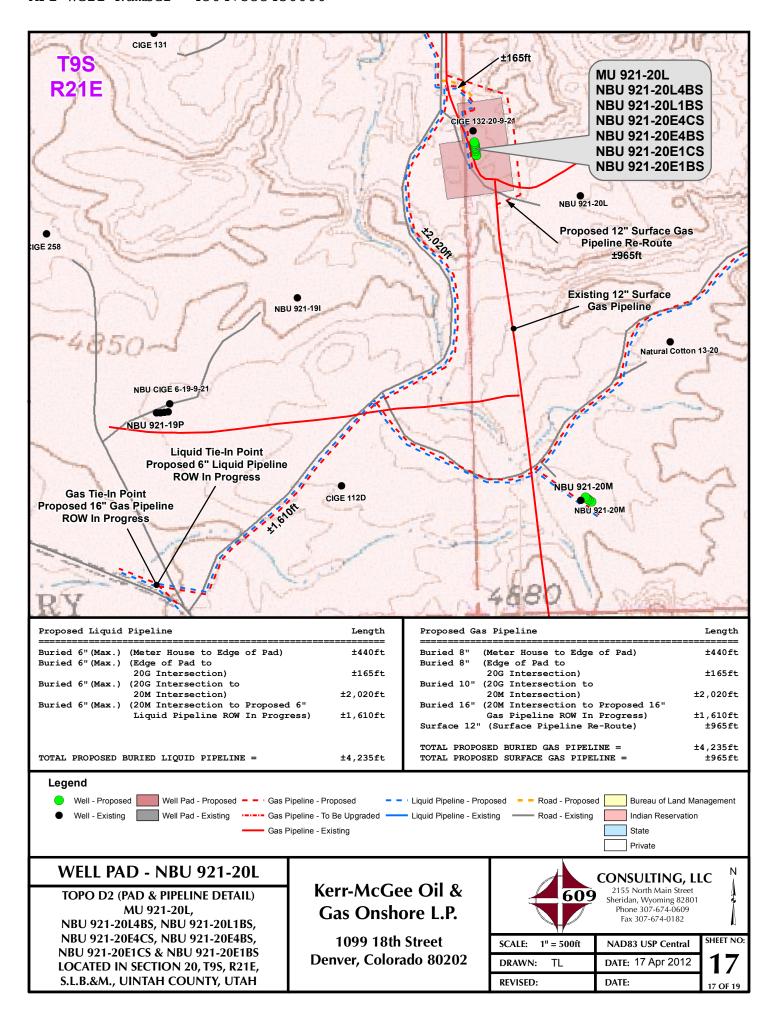
DATE PHOTOS TAKEN: 03-19-12	PHOTOS TAKEN BY: A.F.	SHEET NO:
DATE DRAWN: 03-23-12	DRAWN BY: M.W.W.	12
Date Last Revised:		12 OF 19

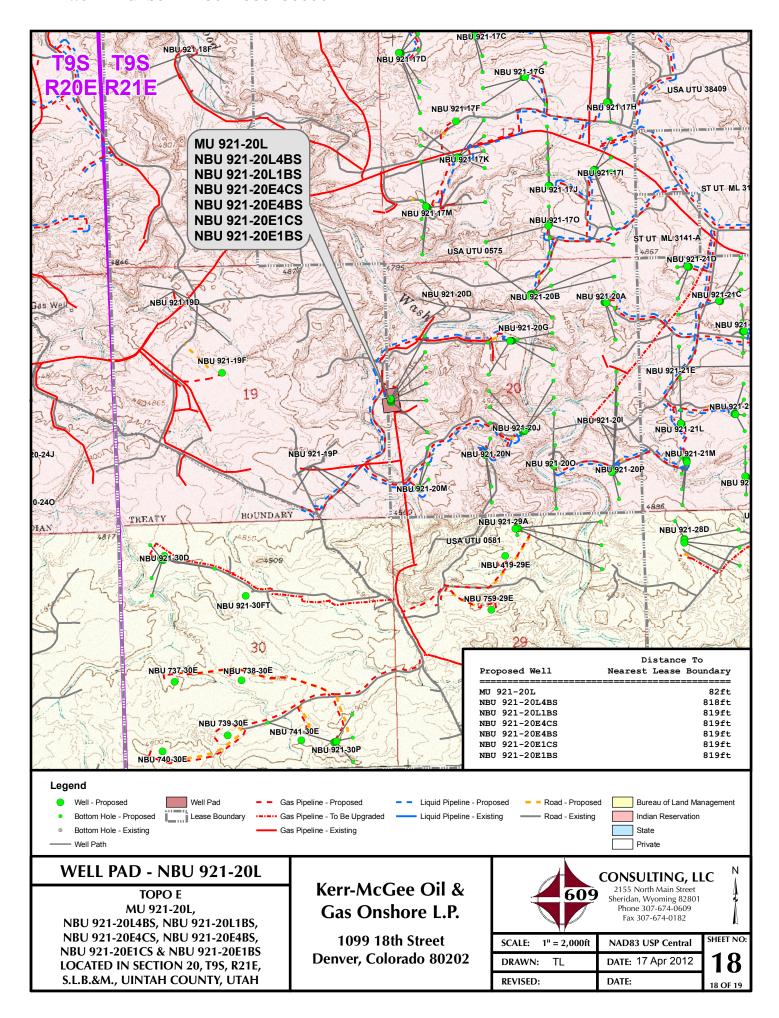












Kerr-McGee Oil & Gas Onshore, LP WELL PAD - NBU 921-20L WELLS - MU 921-20L, NBU 921-20L4BS, NBU 921-20L1BS, NBU 921-20E4CS, NBU 921-20E4BS, NBU 921-20E1CS & NBU 921-20E1BS Section 20, T9S, R21E, S.L.B.&M.

From the intersection of U.S. Highway 40 and 500 East Street in Vernal, Utah, proceed in an easterly, then southerly direction along U.S. Highway 40 approximately 3.3 miles to the junction of State Highway 45. Exit right and proceed in a southerly direction along State Highway 45 approximately 20.2 miles to the junction of the Glen Bench Road (County B Road 3260). Exit right and proceed in a southwesterly direction along the Glen Bench Road approximately 17.7 miles to a Class D County Road to the southwest. Exit right and proceed in a southwesterly direction along the Class D County Road approximately 3.9 miles to a second Class D County Road to the northwest. Exit right and proceed in a northwesterly direction along the second Class D County Road approximately 1.2 miles to a Tribal Road to the northeast. Exit right and proceed in a northeasterly, then northerly direction along the Tribal Road approximately 0.7 miles to the proposed access road to the southeast. Follow road flags in a southeasterly direction approximately 210 feet to the proposed well location.

Total distance from Vernal, Utah to the proposed well location is approximately 47.0 miles in a southerly direction.

SHEET 19 OF 19

API Well Number: 43047P5oject50TOAHO UTM (feet), NAD27, Zone 12N

Scientific Drilling

750

1500

2250

3000

3750

4500

5250

6000

6750

7500

8250

9000

9750

10500-

11250

-750

SEGO

CASTLEGATE

BLACKHAWK

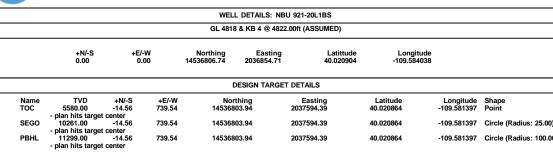
11299.00

True Vertical Depth (1500 ft/in)

Site: NBU 921-20L PAD Well: NBU 921-20L1BS

Wellbore: OH

Design: PLAN #1 PERMIT



SEGO_NBU 921-20L1BS

PBHL NBU 921-20L1BS

TD at 11387.14

2250

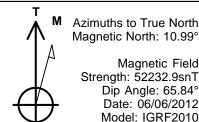
3000

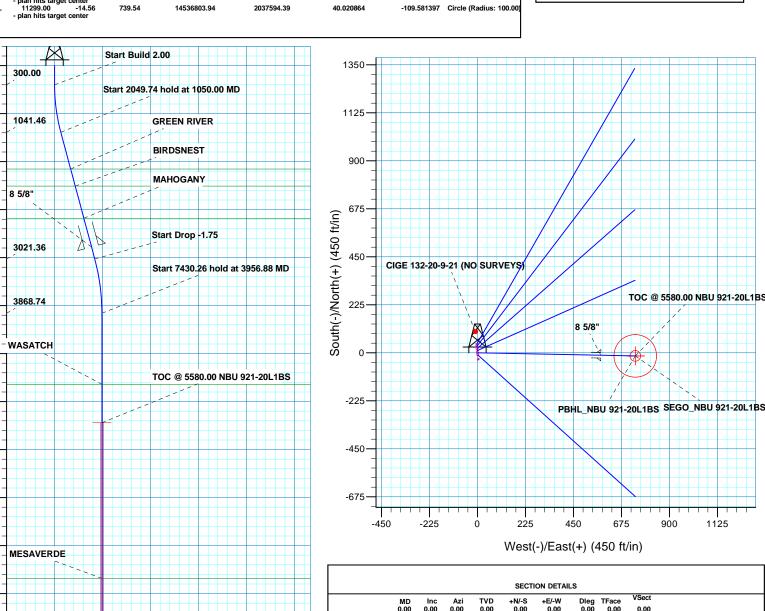
3750

1500

Vertical Section at 91.13° (1500 ft/in)







				SEC	TION	DETAIL	.s				
MD 0.00 300.00 1050.00 3099.74 3956.88 11387.14	Inc 0.00 0.00 15.00 15.00 0.00 0.00	91.13 0.00	TVD 0.00 300.00 1041.46 3021.36 3868.74 1299.00	+N/-S 0.00 0.00 -1.92 -12.36 -14.56	62	E/-W 0.00 0.00 97.60 28.00 39.54 39.54	0.00 0.00 2.00 0.00	TFace 0.00 0.00 91.13 0.00 180.00 0.00	VSect 0.00 0.00 97.62 628.13 739.69 739.69	PBHL_NBU 921-20L1BS	
							F	ORMAT	ON TOP	DETAILS	
PROJECT DETAILS: Geodetic System: Univers Datum: NAD 19 Ellipsoid: Clarke Zone: Zone 12 Location: System Datum:Mean S	al Trans 27 (NADO 1866 2N (114 V	verse M CON CC	ercator (U NUS)			188 238 498	7.00 3.00 6.00 0.00 4.00 1.00	164 192 244 506 810 1034 1041	Path 15.84 11.22 11.97 18.14 19.14 19.14 19.14	Formation GREEN RIVER BIRDSNEST MAHOGANY WASATCH MESAVERDE SEGO CASTLEGATE BLACKHAWK	
				CA	SING	DETAIL	s				
			TVD 2836.00	290	MD 07.84		Name 8 5/8				
							Plan: PL	AN #1 P	ERMIT (N	BU 921-20L1BS/OH)	

RECEIVED:

Plan: PLAN #1 PERMIT (NBU 921-20L1BS/OH)

Created By: Gabe Kendall Date: 23:35, June 06 2012

API Well Number: 43047533450000



US ROCKIES REGION PLANNING

UTAH - UTM (feet), NAD27, Zone 12N NBU 921-20L PAD NBU 921-20L1BS

OH

Plan: PLAN #1 PERMIT

Standard Planning Report

06 June, 2012



API Well Number: 43047533450000



SDIPlanning Report



Database: EDM 5000.1 Single User Db Company: US ROCKIES REGION PLAI

US ROCKIES REGION PLANNING
UTAH - UTM (feet), NAD27, Zone 12N

 Site:
 NBU 921-20L PAD

 Well:
 NBU 921-20L1BS

Wellbore: OH

Project:

Geo Datum: Map Zone:

Design: PLAN #1 PERMIT

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well NBU 921-20L1BS

GL 4818 & KB 4 @ 4822.00ft (ASSUMED) GL 4818 & KB 4 @ 4822.00ft (ASSUMED)

True

Minimum Curvature

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

Map System: Universal Transverse Mercator (US Survey Feet)

NAD 1927 (NADCON CONUS) Zone 12N (114 W to 108 W) System Datum:

Mean Sea Level

Site NBU 921-20L PAD

Northing: 14,536,796.93 usft Site Position: Latitude: 40.020877 From: Lat/Long Easting: 2,036,855.98 usft Longitude: -109.584034 **Position Uncertainty:** 0.00 ft Slot Radius: **Grid Convergence:** 0.91 13.200 in

Well NBU 921-20L1BS, 2410 FSL 79 FWL

 Well Position
 +N/-S
 9.83 ft
 Northing:
 14,536,806.75 usft
 Latitude:
 40.020904

 +E/-W
 -1.12 ft
 Easting:
 2,036,854.70 usft
 Longitude:
 -109.584038

Position Uncertainty 0.00 ft Wellhead Elevation: Ground Level: 4,818.00 ft

Wellbore ОН Magnetics **Model Name** Sample Date Declination Dip Angle Field Strength (nT) (°) (°) IGRF2010 06/06/12 10.99 65.84 52.233

PLAN #1 PERMIT Design **Audit Notes:** Version: Phase: PLAN Tie On Depth: 0.00 **Vertical Section:** Depth From (TVD) +N/-S +E/-W Direction (ft) (ft) (ft) (°) 0.00 0.00 0.00 91.13

lan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,050.00	15.00	91.13	1,041.46	-1.92	97.60	2.00	2.00	0.00	91.13	
3,099.74	15.00	91.13	3,021.36	-12.36	628.00	0.00	0.00	0.00	0.00	
3,956.88	0.00	0.00	3,868.74	-14.56	739.54	1.75	-1.75	0.00	180.00	
11,387.14	0.00	0.00	11,299.00	-14.56	739.54	0.00	0.00	0.00	0.00 PE	3HL_NBU 921-20L1





Database: ED Company: US Project: UT

EDM 5000.1 Single User Db US ROCKIES REGION PLANNING UTAH - UTM (feet), NAD27, Zone 12N

NBU 921-20L PAD NBU 921-20L1BS

Wellbore: OH

Site:

Well:

Design: PLAN #1 PERMIT

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well NBU 921-20L1BS

GL 4818 & KB 4 @ 4822.00ft (ASSUMED) GL 4818 & KB 4 @ 4822.00ft (ASSUMED)

True

ign:	PLAN #1 PER	.1V11 1							
nned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00 100.00 200.00 300.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 100.00 200.00 300.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
Start Build 2.		0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	2.00	91.13	399.98	-0.03	1.74	1.75	2.00	2.00	0.00
500.00 600.00 700.00	4.00 6.00 8.00	91.13 91.13 91.13	499.84 599.45 698.70	-0.14 -0.31 -0.55	6.98 15.69 27.87	6.98 15.69 27.88	2.00 2.00 2.00	2.00 2.00 2.00	0.00 0.00 0.00
800.00 900.00	10.00 12.00	91.13 91.13	797.47 895.62	-0.86 -1.23	43.51 62.59	43.52 62.60	2.00 2.00	2.00 2.00	0.00 0.00
1,000.00 1,050.00	14.00 15.00	91.13 91.13	993.06 1,041.46	-1.67 -1.92	85.08 97.60	85.10 97.62	2.00 2.00	2.00 2.00	0.00 0.00
Start 2049.74	hold at 1050.00	MD							
1,100.00 1,200.00 1,300.00	15.00 15.00 15.00	91.13 91.13 91.13	1,089.76 1,186.35 1,282.94	-2.18 -2.69 -3.19	110.53 136.41 162.29	110.56 136.44 162.32	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
1,400.00 1,500.00 1,600.00 1,645.84	15.00 15.00 15.00 15.00	91.13 91.13 91.13 91.13	1,379.54 1,476.13 1,572.72 1,617.00	-3.70 -4.21 -4.72 -4.96	188.17 214.04 239.92 251.78	188.20 214.08 239.97 251.83	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
GREEN RIVE		01.10	1,017.00	1.00	201.10	201.00	0.00	0.00	0.00
1,700.00	15.00	91.13	1,669.31	-5.23	265.80	265.85	0.00	0.00	0.00
1,800.00 1,900.00 1,921.22	15.00 15.00 15.00	91.13 91.13 91.13	1,765.91 1,862.50 1,883.00	-5.74 -6.25 -6.36	291.67 317.55 323.04	291.73 317.61 323.10	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
2,000.00	15.00	91.13	1,959.09	-6.76	343.43	343.49	0.00	0.00	0.00
2,100.00 2,200.00	15.00 15.00	91.13 91.13	2,055.68 2,152.28	-7.27 -7.78	369.30 395.18	369.38 395.26	0.00	0.00	0.00 0.00
2,300.00 2,300.00 2,400.00 2,441.97	15.00 15.00 15.00	91.13 91.13 91.13	2,345.46 2,386.00	-7.76 -8.29 -8.80 -9.01	421.06 446.93 457.79	421.14 447.02 457.88	0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
MAHOGANY									
2,500.00 2.600.00	15.00 15.00	91.13 91.13	2,442.05 2,538.65	-9.31 -9.82	472.81 498.69	472.90 498.78	0.00	0.00	0.00
2,700.00 2,800.00 2,900.00 2,907.84	15.00 15.00 15.00 15.00	91.13 91.13 91.13 91.13	2,635.24 2,731.83 2,828.42 2,836.00	-10.33 -10.84 -11.34 -11.38	524.57 550.44 576.32 578.35	524.67 550.55 576.43 578.46	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
3,000.00 3,099.74	15.00 15.00	91.13 91.13	2,925.02 3,021.36	-11.85 -12.36	602.20 628.00	602.31 628.13	0.00 0.00	0.00 0.00	0.00 0.00
Start Drop -1		04.15	0.004.51	40.55	202	200 15	4 ==		0.55
3,100.00 3,200.00 3,300.00	15.00 13.25 11.50	91.13 91.13 91.13	3,021.61 3,118.58 3,216.26	-12.36 -12.84 -13.27	628.07 652.46 673.88	628.19 652.59 674.01	1.75 1.75 1.75	-1.75 -1.75 -1.75	0.00 0.00 0.00
3,400.00 3,500.00 3,600.00 3,700.00	9.75 8.00 6.25 4.50	91.13 91.13 91.13 91.13	3,314.54 3,413.34 3,512.57 3,612.12	-13.63 -13.93 -14.18 -14.36	692.31 707.72 720.12 729.47	692.44 707.86 720.26 729.61	1.75 1.75 1.75 1.75	-1.75 -1.75 -1.75 -1.75	0.00 0.00 0.00 0.00
3,800.00 3,900.00	2.75 1.00	91.13 91.13	3,711.92 3,811.86	-14.48 -14.55	735.79 739.05	735.93 739.19	1.75 1.75	-1.75 -1.75	0.00 0.00





Database: Company: Project: EDM 5000.1 Single User Db US ROCKIES REGION PLANNING

UTAH - UTM (feet), NAD27, Zone 12N NBU 921-20L PAD

 Site:
 NBU 921-20L PAD

 Well:
 NBU 921-20L1BS

Wellbore: OH

Design: PLAN #1 PERMIT

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well NBU 921-20L1BS

GL 4818 & KB 4 @ 4822.00ft (ASSUMED) GL 4818 & KB 4 @ 4822.00ft (ASSUMED)

True

0.00 at 3956.88 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	Vertical Depth (ft) 3,868.74 3,911.86 4,011.86 4,111.86 4,211.86 4,311.86 4,511.86 4,611.86 4,711.86 4,911.86 5,111.86 5,211.86 5,311.86 5,511.86 5,511.86 5,511.86 5,511.86 5,511.86 5,511.86 5,711.86 5,711.86 5,711.86	+N/-S (ft) -14.56	+E/-W (ft) 739.54	Vertical Section (ft) 739.69	Dogleg Rate (°/100ft) 1.75 0.00 0.00 0.00 0.00 0.00 0.00 0.00	Build Rate (°/100ft) -1.75 0.00 0.00 0.00 0.00 0.00 0.00 0.00	Turn Rate (°/100ft) -160.21 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00 at 3956.88 0.00 0.00 0.00 0.00 0.00 0.00 0.00	(°) 0.00 8 MD 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	Depth (ft) 3,868.74 3,911.86 4,011.86 4,111.86 4,311.86 4,411.86 4,511.86 4,611.86 4,911.86 4,911.86 5,111.86 5,1186 5,1186 5,1186 5,511.86 5,511.86 5,580.00	-14.56 -14.56	739.54 739.54	739.69 739.69	Rate (°/100ft) 1.75 0.00 0.00 0.00 0.00 0.00 0.00 0.00	Rate (°/100ft) -1.75 0.00 0.00 0.00 0.00 0.00 0.00 0.00	Rate (°/100ft) -160.21 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00 at 3956.88 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 8 MD 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	3,868.74 3,911.86 4,011.86 4,111.86 4,211.86 4,311.86 4,511.86 4,611.86 4,711.86 4,911.86 4,911.86 5,111.86 5,211.86 5,311.86 5,311.86 5,511.86 5,511.86 5,580.00	-14.56 -14.56	739.54 739.54	739.69 739.69	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	-1.75 0.00 0.00 0.00 0.00 0.00 0.00 0.00	-160.21 0.00 0.00 0.00 0.00 0.00 0.00 0.00
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0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	4,011.86 4,111.86 4,211.86 4,311.86 4,411.86 4,511.86 4,611.86 4,711.86 4,911.86 4,980.00 5,011.86 5,111.86 5,211.86 5,311.86 5,411.86 5,511.86 5,511.86 5,511.86	-14.56 -14.56 -14.56 -14.56 -14.56 -14.56 -14.56 -14.56 -14.56 -14.56 -14.56 -14.56 -14.56 -14.56 -14.56 -14.56 -14.56 -14.56	739.54 739.54 739.54 739.54 739.54 739.54 739.54 739.54 739.54 739.54 739.54 739.54 739.54 739.54 739.54 739.54 739.54	739.69 739.69 739.69 739.69 739.69 739.69 739.69 739.69 739.69 739.69 739.69 739.69 739.69 739.69 739.69	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
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0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 L1BS	5,211.86 5,311.86 5,411.86 5,511.86 5,580.00 5,611.86 5,711.86	-14.56 -14.56 -14.56 -14.56 -14.56 -14.56	739.54 739.54 739.54 739.54 739.54 739.54 739.54	739.69 739.69 739.69 739.69 739.69	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 L1BS 0.00 0.00	5,311.86 5,411.86 5,511.86 5,580.00 5,611.86 5,711.86	-14.56 -14.56 -14.56 -14.56 -14.56	739.54 739.54 739.54 739.54 739.54 739.54	739.69 739.69 739.69 739.69	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
0.00 0.00 0.00 BU 921-201 0.00 0.00 0.00	0.00 0.00 0.00 L1BS 0.00 0.00	5,411.86 5,511.86 5,580.00 5,611.86 5,711.86	-14.56 -14.56 -14.56 -14.56	739.54 739.54 739.54 739.54 739.54	739.69 739.69 739.69	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
0.00 0.00 BU 921-201 0.00 0.00 0.00	0.00 0.00 L1BS 0.00 0.00	5,511.86 5,580.00 5,611.86 5,711.86	-14.56 -14.56 -14.56 -14.56	739.54 739.54 739.54 739.54	739.69 739.69 739.69	0.00 0.00	0.00	0.00
0.00 BU 921-201 0.00 0.00 0.00	0.00 L1BS 0.00 0.00	5,580.00 5,611.86 5,711.86	-14.56 -14.56 -14.56	739.54 739.54 739.54	739.69 739.69	0.00	0.00	0.00
0.00 0.00 0.00 0.00	0.00 0.00	5,611.86 5,711.86	-14.56 -14.56	739.54 739.54	739.69	0.00	0.00	0.00
0.00 0.00 0.00	0.00 0.00	5,711.86	-14.56	739.54				
0.00 0.00	0.00	5,711.86	-14.56	739.54				
0.00					739.69			
	0.00	5.811.86	_1/ 56	700 54		0.00	0.00	0.00
በ በበ		-,5		739.54	739.69	0.00	0.00	0.00
0.00	0.00	5,911.86	-14.56	739.54	739.69	0.00	0.00	0.00
0.00	0.00	6,011.86	-14.56	739.54	739.69	0.00	0.00	0.00
0.00	0.00	6,111.86	-14.56	739.54	739.69	0.00	0.00	0.00
0.00	0.00	6,211.86	-14.56	739.54	739.69	0.00	0.00	0.00
0.00	0.00	6,311.86	-14.56	739.54	739.69	0.00	0.00	0.00
0.00	0.00	6,411.86	-14.56	739.54	739.69	0.00	0.00	0.00
0.00	0.00	6 F11 96	14 56	720 54	720.60	0.00	0.00	0.00
0.00	0.00	6,511.86	-14.56	739.54 739.54	739.69 739.69	0.00 0.00	0.00 0.00	0.00
	0.00	6,611.86	-14.56					0.00
0.00	0.00	6,711.86	-14.56	739.54	739.69	0.00	0.00	0.00
0.00	0.00	6,811.86	-14.56	739.54	739.69	0.00	0.00	0.00
0.00	0.00	6,911.86	-14.56	739.54	739.69	0.00	0.00	0.00
0.00	0.00	7,011.86	-14.56	739.54	739.69	0.00	0.00	0.00
0.00	0.00	7,111.86	-14.56	739.54	739.69	0.00	0.00	0.00
0.00	0.00	7,211.86	-14.56	739.54	739.69	0.00	0.00	0.00
0.00	0.00	7,311.86	-14.56	739.54	739.69	0.00	0.00	0.00
0.00	0.00	7,411.86	-14.56	739.54	739.69	0.00	0.00	0.00
0.00	0.00	7,511.86	-14.56	739.54	739.69	0.00	0.00	0.00
								0.00
								0.00
								0.00
		7,911.86	-14.56	739.54	739.69	0.00	0.00	0.00
0.00	0.00							
								0.00 0.00
0.00	0.00		-14.50	139.54	739.09	0.00	0.00	0.00
		0,014.00				0.00	0.00	0.00
0.00 0.00	0.00 0.00		-14 56	730 54	730 60	() ()()		0.00
0.00	0.00	8,014.00 8,111.86 8,211.86	-14.56 -14.56	739.54 739.54	739.69 739.69	0.00	0.00	0.00
	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 7,111.86 0.00 0.00 7,211.86 0.00 0.00 7,311.86 0.00 0.00 7,411.86 0.00 0.00 7,511.86 0.00 0.00 7,611.86 0.00 0.00 7,711.86 0.00 0.00 7,811.86 0.00 0.00 7,911.86 0.00 0.00 8,011.86	0.00 0.00 7,111.86 -14.56 0.00 0.00 7,211.86 -14.56 0.00 0.00 7,311.86 -14.56 0.00 0.00 7,411.86 -14.56 0.00 0.00 7,511.86 -14.56 0.00 0.00 7,611.86 -14.56 0.00 0.00 7,711.86 -14.56 0.00 0.00 7,811.86 -14.56 0.00 0.00 7,911.86 -14.56 0.00 0.00 8,011.86 -14.56	0.00 0.00 7,111.86 -14.56 739.54 0.00 0.00 7,211.86 -14.56 739.54 0.00 0.00 7,311.86 -14.56 739.54 0.00 0.00 7,411.86 -14.56 739.54 0.00 0.00 7,511.86 -14.56 739.54 0.00 0.00 7,611.86 -14.56 739.54 0.00 0.00 7,711.86 -14.56 739.54 0.00 0.00 7,811.86 -14.56 739.54 0.00 0.00 7,911.86 -14.56 739.54 0.00 0.00 8,011.86 -14.56 739.54	0.00 0.00 7,111.86 -14.56 739.54 739.69 0.00 0.00 7,211.86 -14.56 739.54 739.69 0.00 0.00 7,311.86 -14.56 739.54 739.69 0.00 0.00 7,411.86 -14.56 739.54 739.69 0.00 0.00 7,511.86 -14.56 739.54 739.69 0.00 0.00 7,611.86 -14.56 739.54 739.69 0.00 0.00 7,711.86 -14.56 739.54 739.69 0.00 0.00 7,811.86 -14.56 739.54 739.69 0.00 0.00 7,911.86 -14.56 739.54 739.69 0.00 0.00 8,011.86 -14.56 739.54 739.69 0.00 0.00 8,014.00 -14.56 739.54 739.69	0.00 0.00 7,111.86 -14.56 739.54 739.69 0.00 0.00 0.00 7,211.86 -14.56 739.54 739.69 0.00 0.00 0.00 7,311.86 -14.56 739.54 739.69 0.00 0.00 0.00 7,411.86 -14.56 739.54 739.69 0.00 0.00 0.00 7,511.86 -14.56 739.54 739.69 0.00 0.00 0.00 7,611.86 -14.56 739.54 739.69 0.00 0.00 0.00 7,711.86 -14.56 739.54 739.69 0.00 0.00 0.00 7,811.86 -14.56 739.54 739.69 0.00 0.00 0.00 7,911.86 -14.56 739.54 739.69 0.00 0.00 0.00 7,911.86 -14.56 739.54 739.69 0.00 0.00 0.00 8,011.86 -14.56 739.54 739.69 0.00 0.00	0.00 0.00 7,111.86 -14.56 739.54 739.69 0.00 0.00 0.00 0.00 7,211.86 -14.56 739.54 739.69 0.00 0.00 0.00 0.00 7,311.86 -14.56 739.54 739.69 0.00 0.00 0.00 0.00 7,411.86 -14.56 739.54 739.69 0.00 0.00 0.00 0.00 7,511.86 -14.56 739.54 739.69 0.00 0.00 0.00 0.00 7,611.86 -14.56 739.54 739.69 0.00 0.00 0.00 0.00 7,711.86 -14.56 739.54 739.69 0.00 0.00 0.00 0.00 7,811.86 -14.56 739.54 739.69 0.00 0.00 0.00 0.00 7,811.86 -14.56 739.54 739.69 0.00 0.00 0.00 0.00 7,911.86 -14.56 739.54 739.69 0.00 0.00





Database: Company: Project: EDM 5000.1 Single User Db US ROCKIES REGION PLANNING

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

 Site:
 NBU 921-20L PAD

 Well:
 NBU 921-20L1BS

Wellbore: OH

Design: PLAN #1 PERMIT

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

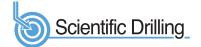
Survey Calculation Method:

Well NBU 921-20L1BS

GL 4818 & KB 4 @ 4822.00ft (ASSUMED) GL 4818 & KB 4 @ 4822.00ft (ASSUMED)

True

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
8,500.00	0.00	0.00	8,411.86	-14.56	739.54	739.69	0.00	0.00	0.00
8,600.00	0.00	0.00	8,511.86	-14.56	739.54	739.69	0.00	0.00	0.00
8,700.00	0.00	0.00	8,611.86	-14.56	739.54	739.69	0.00	0.00	0.00
8,800.00	0.00	0.00	8,711.86	-14.56	739.54	739.69	0.00	0.00	0.00
8,900.00	0.00	0.00	8,811.86	-14.56	739.54	739.69	0.00	0.00	0.00
9,000.00	0.00	0.00	8,911.86	-14.56	739.54	739.69	0.00	0.00	0.00
9,100.00	0.00	0.00	9,011.86	-14.56	739.54	739.69	0.00	0.00	0.00
9,200.00	0.00	0.00	9,111.86	-14.56	739.54	739.69	0.00	0.00	0.00
9,300.00	0.00	0.00	9,211.86	-14.56	739.54	739.69	0.00	0.00	0.00
9,400.00	0.00	0.00	9,311.86	-14.56	739.54	739.69	0.00	0.00	0.00
9,500.00	0.00	0.00	9,411.86	-14.56	739.54	739.69	0.00	0.00	0.00
9,600.00	0.00	0.00	9,511.86	-14.56	739.54	739.69	0.00	0.00	0.00
9,700.00	0.00	0.00	9,611.86	-14.56	739.54	739.69	0.00	0.00	0.00
9,800.00	0.00	0.00	9,711.86	-14.56	739.54	739.69	0.00	0.00	0.00
9,900.00	0.00	0.00	9,811.86	-14.56	739.54	739.69	0.00	0.00	0.00
10,000.00	0.00	0.00	9,911.86	-14.56	739.54	739.69	0.00	0.00	0.00
10,100.00	0.00	0.00	10,011.86	-14.56	739.54	739.69	0.00	0.00	0.00
10,200.00	0.00	0.00	10,111.86	-14.56	739.54	739.69	0.00	0.00	0.00
10,300.00	0.00	0.00	10,211.86	-14.56	739.54	739.69	0.00	0.00	0.00
10,349.14	0.00	0.00	10,261.00	-14.56	739.54	739.69	0.00	0.00	0.00
SEGO - SEG	O_NBU 921-20L	1BS							
10,400.00	0.00	0.00	10,311.86	-14.56	739.54	739.69	0.00	0.00	0.00
10,419.14	0.00	0.00	10,331.00	-14.56	739.54	739.69	0.00	0.00	0.00
CASTLEGAT									
10,500.00	0.00	0.00	10,411.86	-14.56	739.54	739.69	0.00	0.00	0.00
10,600.00	0.00	0.00	10,511.86	-14.56	739.54	739.69	0.00	0.00	0.00
10,700.00	0.00	0.00	10,611.86	-14.56	739.54	739.69	0.00	0.00	0.00
10,787.14	0.00	0.00	10,699.00	-14.56	739.54	739.69	0.00	0.00	0.00
BLACKHAW									
10,800.00	0.00	0.00	10,711.86	-14.56	739.54	739.69	0.00	0.00	0.00
10,900.00	0.00	0.00	10,811.86	-14.56	739.54	739.69	0.00	0.00	0.00
11,000.00	0.00	0.00	10,911.86	-14.56	739.54	739.69	0.00	0.00	0.00
11,100.00	0.00	0.00	11,011.86	-14.56	739.54	739.69	0.00	0.00	0.00
11,200.00	0.00	0.00	11,111.86	-14.56	739.54	739.69	0.00	0.00	0.00
11,300.00	0.00	0.00	11,211.86	-14.56	739.54	739.69	0.00	0.00	0.00
11,387.14	0.00	0.00	11,299.00	-14.56	739.54	739.69	0.00	0.00	0.00





EDM 5000.1 Single User Db Database: Company: Project:

US ROCKIES REGION PLANNING UTAH - UTM (feet), NAD27, Zone 12N

NBU 921-20L PAD Site: Well: NBU 921-20L1BS ОН

Wellbore:

Design: PLAN #1 PERMIT Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well NBU 921-20L1BS

GL 4818 & KB 4 @ 4822.00ft (ASSUMED) GL 4818 & KB 4 @ 4822.00ft (ASSUMED)

True

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
TOC @ 5580.00 NBU 92 - plan hits target cer - Point		0.00	5,580.00	-14.56	739.54	14,536,803.94	2,037,594.38	40.020864	-109.581397
SEGO_NBU 921-20L1B - plan hits target cer - Circle (radius 25.0	nter	0.00	10,261.00	-14.56	739.54	14,536,803.94	2,037,594.38	40.020864	-109.581397
PBHL_NBU 921-20L1BS - plan hits target cer - Circle (radius 100.	nter	0.00	11,299.00	-14.56	739.54	14,536,803.94	2,037,594.38	40.020864	-109.581397

Casing Points						
	Measured	Vertical		Casing	Hole	
	Depth	Depth		Diameter	Diameter	
	(ft)	(ft)	Name	(in)	(in)	
	2,907.84	2,836.00 8 5/8"		8.625	11.000	

Formations								
	Measured Depth (ft)	Vertical Depth (ft)	Nan	ne	Lithology	Dip (°)	Dip Direction (°)	
	1,645.84	1,617.00	GREEN RIVER					
	1,921.22	1,883.00	BIRDSNEST					
	2,441.97	2,386.00	MAHOGANY					
	5,068.14	4,980.00	WASATCH					
	8,102.14	8,014.00	MESAVERDE					
	10,349.14	10,261.00	SEGO					
	10,419.14	10,331.00	CASTLEGATE					
	10,787.14	10,699.00	BLACKHAWK					

Plan Annotations				
Measured	l Vertical	Local Co	ordinates	
Depth	Depth	+N/-S	+E/-W	
(ft)	(ft)	(ft)	(ft)	Comment
300.	00 300.00	0.00	0.00	Start Build 2.00
1,050.0	00 1,041.46	-1.92	97.60	Start 2049.74 hold at 1050.00 MD
3,099.	74 3,021.36	-12.36	628.00	Start Drop -1.75
3,956.8	3,868.74	-14.56	739.54	Start 7430.26 hold at 3956.88 MD
11,387.	11,299.00	-14.56	739.54	TD at 11387.14

Surface Use Plan of Operations 1 of 12

MU 921-20L/ NBU 921-20E1BS/ 921-20E1CS/ 921-20E4BS NBU 921-20E4CS/ 921-20L1BS/ 921-20L4BS Kerr-McGee Oil Gas Onshore, L.P.

Kerr-McGee Oil & Gas Onshore. L.P.

NBU 921-20L Pad

<u>API #</u>	<u> </u>	MU 921-20L		
	Surface:	2381 FSL / 82 FWL	NWSW	Lot
	BHL:	2381 FSL / 82 FWL	NWSW	Lot
<u>API #</u>	<u>. I</u>	NBU 921-20E1BS		
	Surface:	2450 FSL / 75 FWL	NWSW	Lot
	BHL:	1571 FNL / 819 FWL	SWNW	Lot
<u>API #</u>	ļ	NBU 921-20E1CS		
	Surface:	2440 FSL / 76 FWL	NWSW	Lot
	BHL:	1902 FNL / 819 FWL	SWNW	Lot
API #	ı	NBU 921-20E4BS		
	Surface:	2430 FSL / 77 FWL	NWSW	Lot
	BHL:	2233 FNL / 819 FWL	SWNW	Lot
<u>API #</u>	1	NBU 921-20E4CS		
	Surface:	2420 FSL / 78 FWL	NWSW	Lot
	BHL:	2564 FNL / 819 FWL	SWNW	Lot
<u>API #</u>	1	NBU 921-20L1BS		
	Surface:	2410 FSL / 79 FWL	NWSW	Lot
	BHL:	2396 FSL / 819 FWL	NWSW	Lot
<u>API #</u>	1	NBU 921-20L4BS		
	Surface:	2401 FSL / 80 FWL	NWSW	Lot
	BHL:	1736 FSL / 818 FWL	NWSW	Lot

This Surface Use Plan of Operations (SUPO) or 13-point plan provides site-specific information for the above-referenced wells.

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

An on-site meeting was held on May 8, 2012. Present were:

- · David Gordon, Melissa Wardle, Tyler Cox BLM;
- Bucky Secakuku BIA;
- · Brad Pinecoose Ute Indian Tribe;
- · Amy Ackman Montgomery Archeological Consultants Inc.;
- Scott Carson Smiling Lake Consulting;
- · John Slaugh, Mitch Batty Timberline Engineering & Land Surveying, Inc.;
- · Danielle Piernot, Raleen White, Doyle Holmes, Rod Anderson, Charles Chase Kerr-McGee
- · Tim Horgan-Kobelski Grasslands Consulting, Inc.
- Justin Strauss SWCA Environmental Consultants

A. Existing Roads:

Existing roads consist of county and improved/unimproved access roads (two-tracks). In accordance with Onshore Order #1, Kerr-McGee will, in accordance with BMPs, improve or maintain existing roads in a condition that is the same as or better than before operations began. New or reconstructed proposed access roads are discussed in Section B.

Surface Use Plan of Operations 2 of 12

MU 921-20L/ NBU 921-20E1BS/ 921-20E1CS/ 921-20E4BS NBU 921-20E4CS/ 921-20L1BS/ 921-20L4BS Kerr-McGee Oil Gas Onshore, L.P.

The existing roads will be maintained in a safe and usable condition. Maintenance for existing roads will continue until final abandonment and reclamation of well pads and/or other facilities, as applicable. Road maintenance will include, but is not limited to, blading, ditching, and/or culvert installation and cleanout. To ensure safe operating conditions, gravel surfacing will be performed where excessive rutting or erosion may occur. Dust control will be performed as necessary to ensure safe operating conditions.

Roads, gathering lines and electrical distribution lines will occupy common disturbance corridors where possible. Where available, roadways will be used as the staging area and working space for installation of gathering lines. All disturbances located in the same corridor will overlap each other to the maximum extent possible, while maintaining safe and sound construction and installation practices. Unless otherwise approved or requested in site specific documents, in no case will the maximum disturbance widths of the access road and utility corridors exceed the widths specified in Part D of this document.

Please refer to Topo B, for existing roads.

B. New or Reconstructed Access Roads:

All new or reconstructed roads will be located, designed, and maintained to meet the standards of the BIA.

Each new well pad or pad expansion may require construction of a new access road and/or de-commissioning of an older road. Plans, routes, and distances for new roads and road improvements are provided in design packages, exhibits and maps for a project. Project-specific maps are submitted to depict the locations of existing, proposed, and/or decommissioned and include the locations for supporting structures, including, but not limited to, culverts, bridges, low water crossings, range infrastructure, and haul routes, as per OSO 1. Designs for cuts and fills, including spoils source and storage areas, are provided with the road designs, as necessary.

Where safety objectives can be met. As applicable, Kerr-McGee may use unimproved and/or two-track roads for lease operations, to lessen total disturbance.

Road designs will be based on the road safety requirements, traffic characteristics, environmental conditions, and the vehicles the road is intended to carry. Generally, newly constructed unpaved lease roads will be crowned and ditched with the running surfaces of the roads approximately 12-18 feet wide and a total road corridor width not to exceed 45 feet, except where noted in the road design for a specific project. Maximum grade will generally not exceed 8%. Borrow ditches will be back sloped 3:1 or less. Construction BMPs will be employed to control onsite and offsite erosion.

Where topography would direct storm water runoff to an access road or well pad, drainage ditches or other common drainage control facilities, such as V- or wing-ditches, will be constructed to divert surface water runoff. Drainage features, including culverts, will be constructed or installed prior to commencing other operations, including drilling or facilities placement. Riprap will be placed at the inlet and outlet at the culvert(s), as necessary.

Prior to construction, new access road(s) will be staked according to the requirements of OSO 1. Construction activity will not be conducted using frozen or saturated materials or during periods when significant watershed damage (e.g. rutting, extensive sheet soil erosion, formation of rills/gullies, etc.) is likely to occur. Vegetative debris will not be placed in or under fill embankments.

New road maintenance will include, but is not limited to, blading, ditching, culvert installation and cleanout, gravel surfacing where excessive rutting or erosion may occur and dust control, as necessary to ensure safe operating conditions. All vehicular traffic, personnel movement, construction/restoration operations will be confined to the approved area and to existing roadways and/or access routes.

Snow removal will be conducted on an as-needed basis to accommodate safe travel. Snow removal will occur as necessary throughout the year, as will necessary drainage ditch construction. Removed snow may be stored on permitted well pads to reduce hauling distances and/or at the aerial extent of approved disturbance boundaries to facilitate snow removal for the remainder of the season.

If a county road crossing or encroachment permit is needed, it will be obtained prior to construction.

Surface Use Plan of Operations 3 of 12

MU 921-20L/ NBU 921-20E1BS/ 921-20E1CS/ 921-20E4BS NBU 921-20E4CS/ 921-20L1BS/ 921-20L4BS Kerr-McGee Oil Gas Onshore, L.P.

The following segments will require a ROW to be submitted under a different cover to the Ute Indian Tribe.

 $\pm 210'~(0.04~miles)$ – Section 20 (NW/4 SW/4) T9S R21E – On lease UTU0575 Ute Indian Tribe surface, road re-route from the edge of the pad to the existing road to the north. Please refer to Topo B.

C. Location of Existing Wells:

A) Refer to Topo Map C.

D. Location of Existing and/or Proposed Facilities:

This pad will expand the existing pad for the CIGE 132-20-9-21, which is a plugged and abandoned well according to Utah Division of Oil, Gas and Mining (UDOGM) records on June 28, 2012. Gathering (pipeline) infrastructure will be utilized to collect and transport gas and fluids from the wells which are owned and operated by Kerr McGee Oil and Gas Onshore LP (Kerr-McGee).

Should the well(s) prove productive, production facilities will be installed on the disturbed portion of each well pad. A berm will be constructed completely around production components (typically excluding dehy's and/or separators) that contain fluids (i.e. production tanks, produced liquids tanks). The berms will generally be constructed of compacted subsoil or corrugated metal, and will hold the capacity of the largest tank and have sufficient freeboard to accommodate a 25 year rainfall event. This includes pumping units. Aboveground structures constructed or installed onsite for 6 months or longer, will be painted a flat, non-reflective, earth-tone color chosen at the onsite (typically Shadow Gray). A production facility layout is provided as part of a project-specific APD, ROW or NOS submission.

GAS GATHERING

Please refer to Topo D2- Pad and Pipeline Detail.

The gas gathering pipeline material: Steel line pipe. Surface = Bare pipe. Buried = Coated with fusion bonded epoxy coating (or equivalent). The total gas gathering pipeline distance from the meter to the tie in point is $\pm 5,200$ ' and the individual segments are broken up as follows:

The following segments will require a ROW to be submitted under a different cover to the Ute Indian Tribe.

- ±4,235' (0.8 miles) Section 20 and Section 19 T9S R21E– On-lease UTU0575 and UTU0581 Ute Indian Tribe Surface, New 8", 10" and 16" buried gas gathering pipeline from the meter to a proposed 16" gas pipeline. Please refer to Topo D2 Pad and Pipeline Detail.
- $\pm 965^{\circ}$ (0.2 miles) Section 20 and Section 19 T9S R21E– On-lease UTU0575 and UTU0581 Ute Indian Tribe Surface, Re-route 12" surface gas gathering pipeline. Please refer to Topo D2 Pad and Pipeline Detail.

LIQUID GATHERING

Please refer to Topo D2- Pad and Pipeline Detail.

The total liquid gathering pipeline distance from the separator to the tie in point is $\pm 4,235$ ° and the individual segments are broken up as follows:

The following segments will require a ROW to be submitted under a different cover to the Ute Indian Tribe.

±4,235' (0.8 miles) – Section 20 and Section 19 T9S R21E- On-lease UTU0575 and UTU0581 Ute Indian Tribe Surface, New 6" buried liquid gathering pipeline from the separator to a proposed 6" liquid pipeline. Please refer to Topo D2 - Pad and Pipeline Detail.

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Pipeline Gathering Construction

Gathering (pipeline) infrastructure will be utilized to collect and transport gas and fluids from the wells which are owned and operated by Kerr McGee. Gas gathering pipeline(s,) gas lift, or liquids pipelines may be constructed to lie on the surface or be buried. Where the pipeline is adjacent to the road or well pad, the road and/or well pad will be utilized for construction activities and staging. The area of disturbance during construction from the edge of road or well pad will typically be 30' in width. Where pipelines run cross country, the width of disturbance will typically be 45 ft for buried lines and 30 ft for surface lines. In addition, Kerr-McGee requests for a permanent 30' disturbance width that will be maintained for the portion adjacent to the road. The need for the 30' permanent disturbance width is for maintenance and repairs. Cross country permanent disturbance width also are required to be 30ft.

Above-ground installation will generally not require clearing of vegetation or blading of the surface, except where safety considerations necessitate earthwork. In some surface pipeline installation instances pipe cannot be constructed where it will lay. In these cases where an above-ground pipeline is constructed parallel and adjacent to a road, it will be welded/fused on the road and then lifted from the road to the pipeline route. In other cases where a pipeline route is not parallel and adjacent to a road (cross-country between sites), it will be welded/fused in place at a well pad, access road, or designated work area and pulled between connection locations with a suitable piece of equipment.

Buried pipelines will generally be installed parallel and adjacent to existing and/or newly constructed roads and within the permitted disturbance corridor. Buried pipelines may vary from 2 inches (typically fuel gas lines) to 24 inches (typically transportation lines) in diameter, but 6 to 16 inches is typical for a buried gas line. The diameter of liquids pipelines may vary from 2 inches to 12 inches, but 6 inches is the typical diameter. Gas lift lines may vary from 2 to 12 inches in diameter, but 6-inch diameter pipes are generally used for gas lift. If two or more pipelines are present (gas gathering, gas lift, and fluids), they will share a common trench where possible.

Typically, to install a buried pipeline, topsoil will be removed, windrowed and placed on the non-working side of the route for later reclamation. Because working room is limited, the spoil may be spread out across the working side and construction will take place on the spoil. The working side of the corridor will be used for pipe stringing, bending, welding and equipment travel. Small areas on the working side displaying ruts or uneven ground will be groomed to facilitate the safe passage of equipment. After the pipelines are installed, spoil will be placed back into the trench, and the topsoil will be redistributed over the disturbed corridor prior to final reclamation. Typical depth of the trench will be 6 feet, but depths may vary according to site-specific conditions (presence of bedrock, etc.). The proposed trench width for the pipeline would range from 18-48 inches.

The pipeline will be welded along the proposed route and lowered into place. Trenching equipment will cut through the soil or into the bedrock and create good backfill, eliminating the need to remove large rocks. The proposed buried pipeline will be visually and radiographically inspected and the entire pipeline will be pneumatically or hydrostatically tested before being placed into service. Routine vehicle traffic will be prevented from using pipeline routes as travel ways by posting signs at the route's intersection with an access road.

The liquid gathering lines will be made of polyethylene or a composite polyethylene/steel or polyethylene/fiberglass that is not subject to internal or external pipe corrosion. The content of the produced fluids to be transferred by the liquid gathering system will be approximately 92% produced water and 8% condensate. Trunk line valve connections for the water gathering system will be below ground but accessible from the surface in order to prevent freezing during winter time.

If pipelines or roads encounter a drainage that could be subject to flooding or surface water during extreme precipitation events, Kerr-McGee will apply all applicable Army Corps mandates as well as the BLM's Hydraulic Considerations for Pipeline Crossings of Stream Channels (BLM Technical Note 423, April 2007). In addition, all stream and drainage crossings will be evaluated to determine the need for stream alteration permits from the State of Utah Division of Water Rights and if necessary, required permits will be secured. Similarly, where a road or pipeline crossing exists the pipe will be butt welded and buried to a depth between 24 and 48 inches or more. Dirt roads will be cut and restored to a condition equivalent to the existing condition. All Uintah County road encroachment and crossing permits, where applicable, will be obtained prior to crossing construction. In no case will pressure testing of pipelines result in discharge of liquids to the surface.

Pipeline signs will be installed along the route to indicate the pipeline proximity, ownership, and to provide emergency contact phone numbers. Above ground valves and lateral T's will be installed at various locations for production integrity and safety purposes.

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Upon completion of the proposed buried pipeline, the entire area of disturbance will be reclaimed to the standards proposed in the Green River District Reclamation Guidelines. Please refer to section J for more details regarding final reclamation.

When no longer deemed necessary by the operator, Kerr-McGee or it's successor will consult with the Vernal BIA Office before terminating of the use of the pipeline(s).

The Anadarko Completions Transportation System (ACTS) information:

Kerr-McGee will use either a closed loop drilling system that will require one pit and one storage area to be constructed on the drilling pad or a traditional drilling operation with one pit. The storage area will be used to contain only the de-watered drill cuttings and will be lined and reclaimed according to traditional pit closure standards. The pit will be constructed to allow for completion operations. The completion operations pit is lined and will be used for the wells drilled on the pad or used as part of our Anadarko Completions Transportation (ACTS) system which is discussed in more detail below. Using the closed loop drilling system will allow Kerr-McGee to decrease the amount of disturbance/footprint on location compared to a single large drilling/completion pit.

If Kerr-McGee does not use a closed loop system, it will construct a drilling reserve pit to contain drill cuttings and for use in completion operations. Depending on the location of the pit, its relation to future drilling locations, the reserve/completion pit will be utilized for the completion of the wells on that pad and/or be used as part of our ACTS system.

Kerr-McGee will use ACTS to optimize the completion processes for multiple pads across the project area which may include up to a section of development. ACTS will facilitate management of frac fluids by utilizing existing reserve pits and temporary, surface-laid aluminum liquids transfer lines between frac locations. The pit will be refurbished as follows when a traditional drill pit is used: mix and pile up drill cuttings with dry dirt, bury the original liner in the pit, walk bottom of pit with cat. Kerr-McGee will reline the pit with a 30 mil liner and double felt padding. The refurbished pit will be the same size or smaller as specified in the originally approved ROW/APD. The pit refurb will be done in a normal procedure and there will be no modification to the pit.

All four sides of the completions pit will be fenced in according to standard pit fencing procedures. Netting will be installed over all pits.

The collected hydrocarbons will be treated and sold at approved sales facilities. A loading rack with drip containment will also be installed where water trucks would unload and load to prevent damage caused from pulling hoses in and out of the pit.

ACTS will require temporarily laying multiple 6" aluminum water transfer lines on the surface between either existing or refurbished reserve pits. The temporary aluminum transfer lines will be utilized to transport frac fluid being injected and/or recovered during the completion process and will be laid adjacent to existing access roads or pipeline corridors. Upon completion of the frac operation, the liquids transfer lines will be flushed with fresh water and purged with compressed air. The contents of the transfer lines will be flushed into a water truck for delivery to another ACTS location or a reserve pit.

The temporary ACTS lines will be permitted under a separate cover to the Ute Indian Tribe.

The volume of frac fluid transported through a water transfer line will vary, but volume is projected to be approximately 1.75 bbls per 50-foot joint. Although the maximum working pressure is 125 psig, the liquids transfer lines will be operated at a pressure of approximately 30 to 40 psig. Kerr-McGee requests to keep the netted pit open for one year from first production of the first produced well on the pad. During this time the surrounding well location completion fluids may be recycled in this pit and utilized for other frac jobs in the area. After one year Kerr-McGee will backfill the pit and reclaim. If the pit is not needed for an entire year it will be backfilled and reclaimed earlier. Kerr-McGee understands that due to the temporary nature of this system, BIA considers this a casual use situation; therefore, no permanent ROW or temporary use plan will need to be issued by the BIA.

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E. Location and Types of Water Supply:

Water for drilling and completion operations will be obtained from the following sources:

Permit # 49-2307	JD Field Services	Green River- Section 15, T2N, R22E
Permit # 49-2321	R.N. Industries	White River- Section 2, T10S, R24E
Permit # 49-2319	R.N. Industries	White River- Various Sources
Permit # 49-2320	R.N. Industries	Green River- Section 33, T8S, R23E

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.

F. Construction Materials:

Construction operations will typically be completed with native materials found on location. Construction materials that must be imported to the site (mineral material aggregate, soils or materials suitable for fill/surfacing) will be obtained from a nearby permitted source (described in site-specific documents). No construction materials will be removed from Tribal lands without prior approval from the BIA. A source location other than an on-location construction site will be designated either via a map or narrative within the project specific materials provided to the BIA.

G. Methods for Handling Waste:

All wastes subject to regulation will be handled in compliance with applicable laws to minimize the potential for leaks or spills to the environment. Kerr-McGee also maintains a Spill Control and Countermeasure Plan, which includes notification requirements, including the BIA, for all reportable spills of oil, produced liquids, and hazardous materials.

Any accidental release, such as a leak or spill in excess of the reportable quantity, as established by 40 CFR Part 117.3, will be reported as per the requirements of CERCLA, Section 102 B. If a release involves petroleum hydrocarbons or produced liquids, Kerr-McGee will comply with the notification requirements of NTL-3A. Drill cuttings and/or drilling fluids will be contained in the reserve/frac pit whether a closed loop system is used or not. Cuttings will be buried in pit(s) upon closure. Unless specifically approved by the BIA, no oil or other oil-based drilling additives, chromium/metals-based, or saline muds will be used during drilling. Only fresh water (as specified above), biodegradable polymer soap, bentonite clay, and/or non-toxic additives will be used in the mud system.

Pits will be constructed to minimize the accumulation of surface precipitation runoff into the pit (via appropriate placement of subsoil storage areas and/or construction of berms, ditches, etc.). Should unexpected liquid petroleum hydrocarbons (crude oil or condensate) be encountered during drilling, completions or well testing, liquid petroleum hydrocarbons will either be contained in test tanks on the well site or evacuated by vacuum trucks and transported to an approved disposal/sales facility. Should petroleum hydrocarbons unexpectedly be released into a pit, they will be removed as soon as practical but in no case will they remain longer than 72 hours unless an alternate is approved by the BIA. Should timely removal not be feasible, the pit will be netted as soon as practical. Similarly, hydrocarbon removal will take place prior to the closure of the pit, unless authorization is provided for disposal via alternate pit closure methods (e.g. solidification).

The reserve and/or fracture stimulation pit will be lined with an impermeable liner. The liner will be a synthetic material 30 mil or thicker. The bottom and side walls of the pit will be void of any sharp rocks that could puncture the liner. The liner will be installed over smooth fill subgrade that is free of pockets, loose rocks, or other materials (i.e. sand, sifted dirt, bentonite, straw, etc.) that could damage the liner. After evaporation and when dry, the reserve pit liners will be cut off, ripped and/or folded back (as safety considerations allow) as near to the mud surface as possible and buried on location or hauled to a landfill prior to backfilling the pit with a minimum of five feet of soil material.

Where necessary and if conditions (freeboard, etc.) allow, produced liquids from newly completed wells may be temporarily disposed of into pits for a period not to exceed 90 days as per Onshore Order Number 7 (OSO 7). Subsequently, permanent approved produced water disposal methods will be employed in accordance with OSO 7 and/or as described in a Water Management Plan (WMP). Otherwise, fluids disposal locations and associated haul routes, for ROW consideration, are typically depicted on Topo A of individual projects. Revisions to the water source or method of transportation will be subject to written approval from the BIA.

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Any additional pits necessary for subsequent operations, such as temporary flare or workover pits, will be contained within the originally approved well pad and disturbance boundaries. Such temporary pits will be backfilled and reclaimed within 180 days of completion of work at a well location.

Pits containing drilling cuttings, mud, and/or completions fluids will be allowed to dry. Any free fluids remaining after one year from reaching total depth, date of completion, and/or determination of inactivity will be removed (as weather conditions allow) to an approved site and the pit reclaimed. Installation and operation of any sprinklers, pumps, and equipment will ensure that water spray or mist does not drift.

No garbage or non-exempt substances as defined by Resource Conservation and Recovery Act (RCRA) subtitle C will be placed in the reserve pit. All refuse (trash and other solid waste including cans, paper, cable, etc.) generated during construction, drilling, completion, and well testing activities will be contained in an enclosed receptacle, removed from the drill locations promptly, and transported to an approved disposal facility. Immediately after removal of the drilling rig, all debris and other waste materials not contained within trash receptacles will be collected and removed from the well location

For the protection of livestock and wildlife, all open pits (excluding flare pits) will be fenced to prevent wildlife or livestock entry. Total height of pit fencing will be at least 42 inches and corner posts will be cemented and/or braced in such a manner as to keep the fence tight at all times. Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any 2 fence posts shall be no greater than 16 feet. Siphons, catchments, and absorbent pads will be installed to keep hydrocarbons produced by the drilling rig or other equipment on location from entering the reserve pit. Hydrocarbons, contaminated pads, and/or soils will be disposed of in accordance with state and federal requirements.

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

Materials Management

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

Hazardous materials may be contained in some grease or lubricants, solvents, acids, paint, and herbicides, among others as defined above. Kerr-McGee maintains a file, per 29 CFR 1910.1200 (g) containing current Material Safety Data Sheets (MSDS) for all chemicals, compounds, and/or substances that are used during the course of construction, drilling, completion, and production operations for this project. The transport, use, storage and handling of hazardous materials will follow procedures specified by federal and state regulations. Transportation of hazardous materials to the well location is regulated by the Department of Transportation (DOT) under 49 CFR, Parts 171-180. DOT regulations pertain to the packing, container handling, labeling, vehicle placarding, and other safety aspects.

Potentially hazardous materials used in the development or operation of wells will be kept in limited quantities on well sites and at the production facilities for short periods of time. Chemicals meeting the criteria for being an acutely hazardous material/substance or meet the quantities criteria per BLM Instruction Memorandum No. 93-344 will not be used.

Chemicals subject to reporting under Title III of the Superfund Amendments and Reauthorization Act (SARA) in quantities of 10,000 pounds or more may be produced and/or stored at production facilities (crude oil/condensate, produced water). They may also be kept in limited quantities on drilling sites (barite, diesel fuel, cement, cottonseed hulls etc.) for short periods of time during drilling or completion activities.

Fluids disposal and pipeline/haul routes are depicted on Topo Map A.

Any produced water separated from recoverable condensate from the proposed well will be contained in a water tank and will then be transported by pipeline and/or truck to one of the pre-approved disposal sites:

API Well Number: 43047533450000

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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

Or to one of the following Kerr-McGee active Salt Water Disposal (SWD) wells:

NBU 159 SWD in Sec. 35 T9S R21E CIGE 112D SWD in Sec. 19 T9S R21E CIGE 114 SWD in Sec. 34 T9S R21E NBU 921-34K SWD in Sec. 34 T9S R21E NBU 921-33F SWD in Sec. 34 T9S R21E

H. Ancillary Facilities:

ancillary facilities are

I. Well Site Layout:

The location, orientation and aerial extent of each drill pad, reserve/completion/flare pit (for closed loop or non-closed loop operations), access road ingress/egress points, drilling rig, dikes/ditches, existing wells/infrastructure, proposed cuts and fills, and topsoil and spoil material stockpile locations are depicted on the exhibits for each project, where applicable. Site-specific conditions may require slight deviation in actual equipment depending on whether a closed loop system is used. Surface distance may be less if using closed loop. But in either case, the area of disturbance will not exceed the maximum disturbance outlined in the attached exhibits.

For the protection of livestock and wildlife, all open pits and cellars will be fenced to prevent wildlife or livestock entry. Total height of pit fencing will be at least 42 inches and corner posts will be cemented and/or braced in such a manner as to keep the fence tight at all times. Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any 2 fence posts shall be no greater than 16 feet.

Each well will utilize either a centralized tank battery, centralized fluids management system, or have tanks installed on its pad. Production/ Produced Liquid tanks will be constructed, maintained, and operated to prevent unauthorized surface or subsurface discharges of liquids and to prevent livestock or wildlife entry. The tanks will be kept reasonably free from surface accumulations of liquid hydrocarbons. The tanks are not to be used for disposal of liquids from additional sources without prior approval of BIA.

J. Plans for Surface Reclamation:

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

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

Interim Reclamation

Interim reclamation may include pit evaporation, fluid removal, pit solidification, re-contouring, ripping, spreading top soil, seeding, and/or weed control. Interim reclamation will be performed in accordance with OSO 1, or written notification will be provided to the BIA for approval. Where feasible, drilling locations, reserve pits, or access routes not utilized for production operations will be re-contoured to a natural appearance.

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

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

Final Reclamation

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

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

Reclamation of roads will be performed at the discretion of the BIA/Tribe. All unnecessary surface equipment and structures (e.g. cattle guards) and water control structures (e.g. culverts, drainage pipes) not needed to facilitate successful reclamation will be removed during final reclamation. Roads that will be reclaimed will be ripped to a depth of 18 inches where practical, re-contoured to approximate the original contour of the ground and seeded in accordance with the seeding specifications as proposed below in "Measures Common to Interim and Final Reclamation".

Upon successfully completing reclamation of a P&A location, a Final Abandonment Notice will be submitted to the BIA/Tribe.

Measures Common to Interim and Final Reclamation

Soil preparation will be conducted using a disk for areas in need of more soil preparation following site preparation. This will provide primary soil tillage to a depth no greater than 6 inches. Prior to reseeding, compacted areas will be scarified by ripping or chiseling to loosen compacted soils, promote water infiltration, and improve soil aeration and root penetration.

Seeding will occur year-round as conditions allow and will typically be accomplished through the use of a no-till rangeland style seed drill with a "picker box" in order to seed "fluffy" seed. Where drill seeding is not the preferred method, seed will be broadcast and then raked into the ground at double the rate of drill seeding. Seed mixes appropriate to the native plant community as determined and specified for each project location based on the site specific soils will be used for

re-vegetation. The seed mixes will be selected from a list provided by or approved by the BIA/Tribe or a specific seed mix will be proposed by Kerr-McGee to the BIA/Tribe and used after its approval. The selected specific seed mix for each well location and road segment will be utilized while performing interim and final reclamation for each project. All seed will be certified and tags will be maintained by Kerr-McGee. Every effort will be made to obtain "cheat grass free seed".

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Seed Mix to be used for Well Site, Access Road, and Pipeline (as applicable):

Indian Ricegrass (Nezpar)	3
Sandberg Bluegrass	0.75
Bottlebrush Squirreltail	1
Great Basin Wildrye	0.5
Crested Wheatgrass	1.5
Winterfat	0.25
Shadscale	1.5
Four-wing Saltbrush	0.75
Forage Kochia	0.25
Total	9.5

Additional soil amendments and/or stabilization may be required on sites with poor soils and/or excessive erosion potential. Where severe erosion can become a problem and/or the use of machinery is not practical, seed will be hand broadcast and raked with twice the specified amount of seed. Slopes will be stabilized using materials specifically designed to prevent erosion on steep slopes and hold seed in place so vegetation can become permanently established. These materials will include, but are not limited to: erosion control blankets, hydro-mulch, and/or bonded fiber matrix at a rate to achieve a minimum of 80 percent soil coverage.

Weed Control

Noxious weeds will be controlled in akk orihect areas un accordance with all applicable rules and regulations.

K. Surface/Mineral Ownership:

Ute Indian Tribe
United States of America
P.O. Box 70
Bureau of Land Management
988 South 7500 East Annex Building
Fort Duschesne, UT 84026
Vernal, UT 84078
(435) 722-4307
(435)781-4400

L. Other Information:

Onsite Specifics:

• No changes

Cultural and Paleontological Resources

All personnel are strictly prohibited from collecting artifacts, any paleontological specimens or fossils, and from disturbing any significant cultural resources in the area. If artifacts, fossils, or any culturally sensitive materials are exposed or identified in the area of construction, all construction operations that would affect the newly discovered resource will cease, and Kerr-McGee will provide immediate notification to the BIA.

Resource Reports:

A Class I literature survey report was completed on May 21, 2012 by Montgomery Archaeological Consultants, Inc (MOAC). For additional details please refer to report MOAC 12-152.

A paleontological reconnaissance survey was completed on April 10-16, 2012 by SWCA Environmental Consultants. For additional details please refer to report UT12-14314-101 and UT12-14314-122.

Biological field survey was completed on April 10-13, 2012 by Grasslands Consulting, Inc (GCI). For additional details please refer to report GCI-769 and GCI-776.

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Proposed Action Annual Emissions Tables:

Table 1: Proposed Action Annual Emissions (tons/year) ¹					
Pollutant	Development	Production	Total		
NOx	3.8	0.12	3.92		
CO	2.2	0.11	2.31		
VOC	0.1	4.9	5		
SO ₂	0.005	0.0043	0.0093		
PM_{10}	1.7	0.11	1.81		
PM _{2.5}	0.4	0.025	0.425		
Benzene	2.2E-03	0.044	0.046		
Toluene	1.6E-03	0.103	0.105		
Ethylbenzene	3.4E-04	0.005	0.005		
Xylene	1.1E-03	0.076	0.077		
n-Hexane	1.7E-04	0.145	0.145		
Formaldehyde	1.3E-02	8.64E-05	1.31E-02		

¹ Emissions include 1 producing well and associated operations traffic during the year in

which the project is developed

Table 2: Proposed Action versus 2012 WRAP Phase III Emissions Inventory Comparison						
Species	Proposed Action Production Emissions (ton/yr)	WRAP Phase III 2012 Uintah Basin Emission Inventory ^a (ton/yr)	to WRAP Phase			
NOx	27.44	16,547	0.17%			
VOC	35	127,495	0.03%			

a http://www.wrapair.org/forums/ogwg/PhaseIII_Inventory.html

Uintah Basin Data

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

Danielle Piernot Regulatory Analyst II Kerr-McGee Oil & Gas Onshore LP PO Box 173779 Denver, CO 80217-3779 (720) 929-6156 Tommy Thompson General Manager, Drilling Kerr-McGee Oil & Gas Onshore LP PO Box 173779 Denver, CO 80217-3779 (720) 929-6724

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

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

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

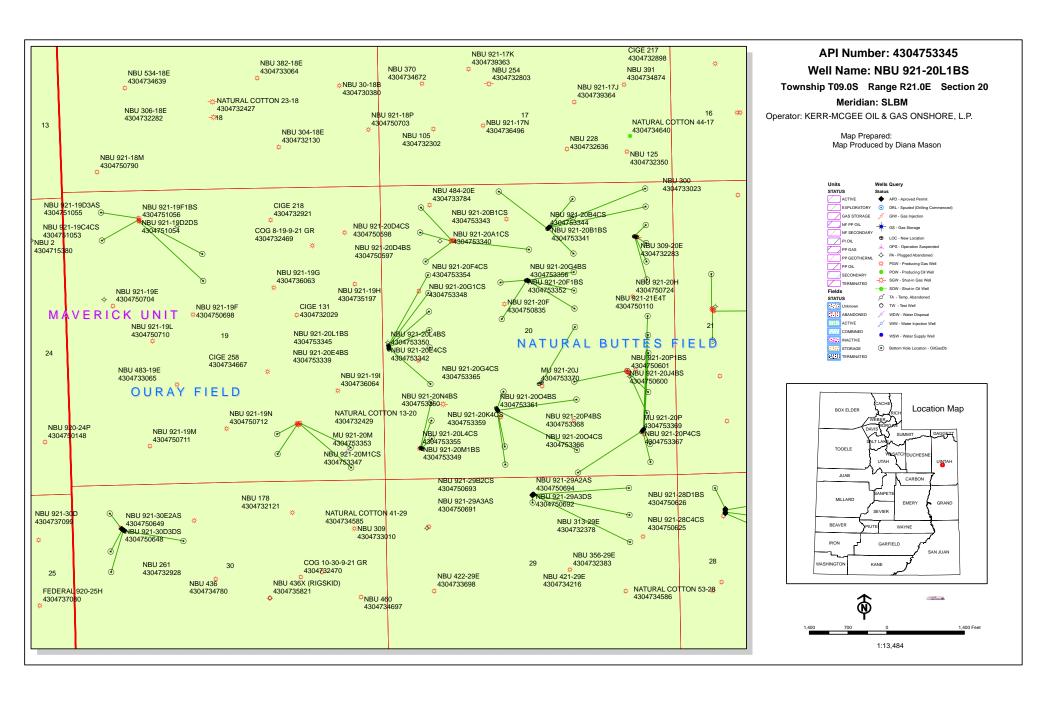
Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by Bureau of Land Management Nationwide Bond WYB000291.

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

Danielle Pierrot

June 22, 2012

Date



API Well Number: 43047533450000

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)

December 6, 2012

Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2012 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 2012 within the Natural Buttes Unit, Uintah County, Utah.

API # WELL NAME LOCATION

(Proposed PZ WASATCH-MESA VERDE)

NBU 921-20A PAD

BHL Sec 20 T09S R21E 0744 FNL 0491 FEL 43-047-53331 NBU 921-20A4CS Sec 20 T09S R21E 0951 FNL 0678 FEL BHL Sec 20 T09S R21E 1075 FNL 0491 FEL 43-047-53334 NBU 921-20H1BS Sec 20 T09S R21E 0950 FNL 0688 FEL BHL Sec 20 T09S R21E 1405 FNL 0491 FEL 43-047-53335 NBU 921-20H1CS Sec 20 T09S R21E 0948 FNL 0698 FEL BHL Sec 20 T09S R21E 1736 FNL 0491 FEL NBU 921-20L PAD 43-047-53333 NBU 921-20E1BS Sec 20 T09S R21E 2450 FSL 0075 FWL BHL Sec 20 T09S R21E 1571 FNL 0819 FWL 43-047-53336 NBU 921-20E1CS Sec 20 T09S R21E 2440 FSL 0076 FWL BHL Sec 20 T09S R21E 1902 FNL 0819 FWL 43-047-53339 NBU 921-20E4BS Sec 20 T09S R21E 2430 FSL 0077 FWL BHL Sec 20 T09S R21E 2233 FNL 0819 FWL 43-047-53342 NBU 921-20E4CS Sec 20 T09S R21E 2420 FSL 0078 FWL BHL Sec 20 T09S R21E 2564 FNL 0819 FWL Sec 20 T09S R21E 2410 FSL 0079 FWL 43-047-53345 NBU 921-20L1BS BHL Sec 20 T09S R21E 2396 FSL 0819 FWL BHL Sec 20 T09S R21E 1736 FSL 0818 FWL

RECEIVED: December 06, 2012

API # WELL NAME LOCATION

(Proposed PZ WASATCH-MESA VERDE)

NBU 921-20B I										
43-047-53337	NBU	921-20C1BS BHL	Sec Sec	20	T09S T09S	R21E R21E	0777	FNL FNL	2269 2136	FEL FWL
43-047-53338	NBU	921-20A1BS BHL								
43-047-53340	NBU	921-20A1CS BHL								
43-047-53341	NBU	921-20B1BS BHL								
43-047-53343	NBU	921-20B1CS BHL	Sec Sec	20 20	T09S T09S	R21E R21E	0738 0578	FNL FNL	2223 1808	FEL FEL
43-047-53344	NBU	921-20B4CS BHL	Sec Sec	20 20	T09S T09S	R21E R21E	0771 1240	FNL FNL	2261 1807	FEL FEL
NBU 921-20G I	PAD									
43-047-53346	NBU	921-20G1BS BHL	Sec	20	T09S	R21E	1706	FNL	2606	FWL
43-047-53348	NBU	921-20G1CS BHL								
43-047-53352	NBU	921-20F1BS BHL	Sec Sec	20 20	T09S T09S	R21E R21E	1702 1732	FNL FNL	2587 2126	FWL FWL
43-047-53354	NBU	921-20F4CS BHL								
43-047-53356	NBU	921-20G4BS BHL	Sec Sec	20 20	T09S T09S	R21E R21E	1710 2232	FNL FNL	2626 1806	FWL FEL
NBU 921-20M I	PAD									
43-047-53347	NBU	921-20M1CS BHL	Sec Sec	20	T09S T09S	R21E R21E	0575 0746	FSL FSL	0625 0818	FWL FWL
43-047-53349	NBU	921-20M1BS BHL								
43-047-53355	NBU	921-20L4CS BHL	Sec Sec	20 20	T09S T09S	R21E R21E	0587 1406	FSL FSL	0609 0818	FWL FWL
NBU 921-20N I	PAD	001 00-10-	_			-01-	1056			
43-047-53351	NBU	921-20N4CS BHL				R21E R21E				
43-047-53358	NBU	921-20J4CS BHL				R21E R21E				
43-047-53359	NBU	921-20K4CS BHL				R21E R21E				
43-047-53360	NBU	921-20N4BS BHL				R21E R21E				
43-047-53361	NBU	921-2004BS BHL				R21E R21E				

Page 2

API Well Number: 43047533450000

API # WELL NAME LOCATION

(Proposed PZ WASATCH-MESA VERDE) NBU 921-20P PAD BHL Sec 20 T09S R21E 2397 FNL 0491 FEL 43-047-53363 NBU 921-20I1BS Sec 20 T09S R21E 0850 FSL 0599 FEL BHL Sec 20 T09S R21E 2559 FSL 0491 FEL BHL Sec 20 T09S R21E 2229 FSL 0491 FEL BHL Sec 20 T09S R21E 0084 FSL 1804 FEL BHL Sec 20 T09S R21E 0249 FSL 0490 FEL 43-047-53368 NBU 921-20P4BS Sec 20 T09S R21E 0834 FSL 0612 FEL BHL Sec 20 T09S R21E 0579 FSL 0490 FEL NBU 921-20J PAD 43-047-53365 NBU 921-20G4CS Sec 20 T09S R21E 1726 FSL 2431 FEL BHL Sec 20 T09S R21E 2563 FNL 1806 FEL

Michael L. Coulthard Digitally signed by Michael L. coulthard Digitally signed by Michael L. coulthard or Diverse of Land Management, ou-Branch of District Diverse of Land Management, ou-Branch of District Division State 2012;12(69):94543-97070

bcc: File - Natural Buttes Unit

Division of Oil Gas and Mining

Central Files Agr. Sec. Chron Fluid Chron

MCoulthard:mc:12-6-12

Page 3

API Number	Well Name	Surface Location			
43-047-53330	NBU 921-20A4BS	Sec 20	T09S R21E	0947 FNL 0708 FEL	
43-047-53331	NBU 921-20A4CS	Sec 20	T09S R21E	0951 FNL 0678 FEL	
43-047-53333	NBU 921-20E1BS	Sec 20	T09S R21E	2450 FSL 0075 FWL	
43-047-53334	NBU 921-20H1BS	Sec 20	T09S R21E	0950 FNL 0688 FEL	
43-047-53335	NBU 921-20H1CS	Sec 20	T09S R21E	0948 FNL 0698 FEL	
43-047-53336	NBU 921-20E1CS	Sec 20	T09S R21E	2440 FSL 0076 FWL	
43-047-53337	NBU 921-20C1BS	Sec 20	T09S R21E	0777 FNL 2269 FEL	
43-047-53338	NBU 921-20A1BS	Sec 20	T09S R21E	0745 FNL 2231 FEL	
43-047-53339	NBU 921-20E4BS	Sec 20	T09S R21E	2430 FSL 0077 FWL	
43-047-53340	NBU 921-20A1CS	Sec 20	T09S R21E	0764 FNL 2253 FEL	
43-047-53341	NBU 921-20B1BS	Sec 20	T09S R21E	0751 FNL 2238 FEL	
43-047-53342	NBU 921-20E4CS	Sec 20	T09S R21E	2420 FSL 0078 FWL	
43-047-53343	NBU 921-20B1CS	Sec 20	T09S R21E	0738 FNL 2223 FEL	
43-047-53344	NBU 921-20B4CS	Sec 20	T09S R21E	0771 FNL 2261 FEL	
43-047-53345	NBU 921-20L1BS	Sec 20	T09S R21E	2410 FSL 0079 FWL	
43-047-53346	NBU 921-20G1BS	Sec 20	T09S R21E	1706 FNL 2606 FWL	
43-047-53347	NBU 921-20M1CS	Sec 20	T09S R21E	0575 FSL 0625 FWL	
43-047-53348	NBU 921-20G1CS	Sec 20	T09S R21E	1712 FNL 2636 FWL	
43-047-53349	NBU 921-20M1BS	Sec 20	T09S R21E	0581 FSL 0617 FWL	
43-047-53350	NBU 921-20L4BS	Sec 20	T09S R21E	2401 FSL 0080 FWL	
43-047-53351	NBU 921-20N4CS	Sec 20	T09S R21E	1256 FSL 2008 FWL	
43-047-53352	NBU 921-20F1BS	Sec 20	T09S R21E	1702 FNL 2587 FWL	
43-047-53354	NBU 921-20F4CS	Sec 20	T09S R21E	1704 FNL 2597 FWL	
43-047-53355	NBU 921-20L4CS	Sec 20	T09S R21E	0587 FSL 0609 FWL	
43-047-53356	NBU 921-20G4BS	Sec 20	T09S R21E	1710 FNL 2626 FWL	
43-047-53358	NBU 921-20J4CS	Sec 20	T09S R21E	1239 FSL 2019 FWL	
43-047-53359	NBU 921-20K4CS	Sec 20	T09S R21E	1265 FSL 2003 FWL	
43-047-53360	NBU 921-20N4BS	Sec 20	T09S R21E	1248 FSL 2014 FWL	
43-047-53361	NBU 921-2004BS	Sec 20	T09S R21E	1231 FSL 2024 FWL	
43-047-53362	NBU 921-20H4CS	Sec 20	T09S R21E	0842 FSL 0606 FEL	
43-047-53363	NBU 921-20I1BS	Sec 20	T09S R21E	0850 FSL 0599 FEL	
43-047-53364	NBU 921-20I1CS	Sec 20	T09S R21E	0857 FSL 0593 FEL	
43-047-53365	NBU 921-20G4CS	Sec 20	T09S R21E	1726 FSL 2431 FEL	
43-047-53366	NBU 921-2004CS	Sec 20	T09S R21E	0819 FSL 0625 FEL	
43-047-53367	NBU 921-20P4CS	Sec 20	T09S R21E	0827 FSL 0618 FEL	
43-047-53368	NBU 921-20P4BS	Sec 20	T09S R21E	0834 FSL 0612 FEL	

API Well Number: 43047533450000

WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 11/27/2012 API NO. ASSIGNED: 43047533450000

WELL NAME: NBU 921-20L1BS

OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P. (N2995) PHONE NUMBER: 720 929-6029

CONTACT: Cara Mahler

PROPOSED LOCATION: NWSW 20 090S 210E Permit Tech Review:

> SURFACE: 2410 FSL 0079 FWL **Engineering Review:**

> BOTTOM: 2396 FSL 0819 FWL Geology Review:

COUNTY: UINTAH

LATITUDE: 40.02081 LONGITUDE: -109.58463 UTM SURF EASTINGS: 620781.00 NORTHINGS: 4431026.00

FIELD NAME: NATURAL BUTTES LEASE TYPE: 1 - Federal

PROPOSED PRODUCING FORMATION(S): WASATCH-MESA VERDE **LEASE NUMBER: UTU**0575

SURFACE OWNER: 2 - Indian **COALBED METHANE: NO**

RECEIVED AND/OR REVIEWED: LOCATION AND SITING:

✓ PLAT R649-2-3.

Unit: NATURAL BUTTES Bond: FEDERAL - WYB000291

Potash R649-3-2. General

Oil Shale 190-5

Oil Shale 190-3 R649-3-3. Exception

Oil Shale 190-13 **Drilling Unit**

Board Cause No: Cause 173-14 Water Permit: 43-8496

Effective Date: 12/2/1999 **RDCC Review:**

Siting: Suspends General Siting **Fee Surface Agreement**

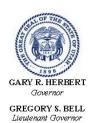
✓ Intent to Commingle R649-3-11. Directional Drill

Commingling Approved

Comments: Presite Completed

Stipulations:

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



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 921-20L1BS **API Well Number:** 43047533450000

Lease Number: UTU0575 Surface Owner: INDIAN Approval Date: 12/10/2012

Issued to:

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

Authority:

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

Duration:

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

Commingle:

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

General:

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

Conditions of Approval:

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

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

In accordance with the Order in Cause No. 190-5(b) dated October 28, 1982, the operator shall comply with the requirements of Rules R649-3-31 and R649-3-27 pertaining to Designated Oil Shale Areas. Additionally, the operators shall ensure that the surface and or production casing is properly cemented over the entire oil

shale section as defined by Rule R649-3-31. The Operator shall report the actual depth the oil shale is encountered to the division.

Notification Requirements:

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

• Within 24 hours following the spudding of the well - contact Carol Daniels at 801-538-5284

(please leave a voicemail message if not available)

submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website

at http://oilgas.ogm.utah.gov

Reporting Requirements:

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

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

Approved By:

For John Rogers Associate Director, Oil & Gas Form 3160-3 (August 2007) MEGEVI

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

AUG 23 2012

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

	BAVIONALI CALI	UTU0575			
	TO DRILL OR REENTER	6. If Indian, Allottee or Tribe Name			
1a. Type of Work: ☑ DRILL ☐ REENTER		7. If Unit or CA Agreement, Name and No. UTU63047A			
1b. Type of Well: ☐ Oil Well ☐ Gas Well ☐ Ot		8. Lease Name and Well No. NBU 921-20L1BS			
KERR MCGEE OIL&GAS ONSHOREMAIPDanielle	DANIELLE PIERNOT Piernot@anadarko.com	9. API Well No. 43-047-53345			
3a. Address PO BOX 173779 DENVER, CO 80202-3779	3b. Phone No. (include area code) Ph: 720-929-6156 Fx: 720-929-7156	10. Field and Pool, or Exploratory NATURAL BUTTES			
4. Location of Well (Report location clearly and in accorded	nnce with any State requirements.*)	11. Sec., T., R., M., or Blk. and Survey or Area			
At surface NWSW 2410FSL 79FWL 4	0.020869 N Lat, 109.584728 W Lon	Sec 20 T9S R21E Mer SLB			
At proposed prod. zone NWSW 2396FSL 819FWL					
14. Distance in miles and direction from nearest town or post APPROXIMATELY 47 MILES SOUTH OF VERI	office* NAL, UT	12. County or Parish UINTAH COUNTY 13. State UT			
 Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 	16. No. of Acres in Lease	17. Spacing Unit dedicated to this well			
819'	1600.00				
 Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. 	19. Proposed Depth	20. BLM/BIA Bond No. on file			
309'	11387 MD 11299 TVD	WYB000291			
21. Elevations (Show whether DF, KB, RT, GL, etc. 4818 GL	22. Approximate date work will start 02/01/2013	23. Estimated duration 60-90 DAYS RECEIVED			
	24. Attachments	MAY 0 3 2013			
The following, completed in accordance with the requirements of	f Onshore Oil and Gas Order No. 1, shall be attached to fl	nis form:			
 Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest System SUPO shall be filed with the appropriate Forest Service Office.) 	em Lands, the 5. Operator certification	DIV. OF OIL, GAS & MINING as unless covered by an existing bond on file (see ormation and/or plans as may be required by the			
25. Signature (Electronic Submission)	Name (Printed/Typed) DANIELLE PIERNOT Ph: 720-929-6156	Date 07/13/2012			
Title REGULATORY ANALYST II					
Approved by (Signature)	Name (Printed/Typed) Jerry Kenczka	MAY 0 1 2013			
Assistant Field Manager Lands & Mineral Resources	Office VERNAL FIELD OFFICE				
Application approval does not warrant or certify the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct perations thereon. Conditions of approval, if any, are attached. CONDITIONS OF APPROVAL ATTACHED					
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, m States any false, fictitious or fraudulent statements or representati	ake it a crime for any person knowingly and willfully to	make to any department or agency of the United			

Additional Operator Remarks (see next page)

Electronic Submission #142900 verified by the BLM Well Information System For KERR MCGEE OIL&GAS ONSHORE, LP, sent to the Vernal

NOTICE OF APPROVAL

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

12PPH 278414 2

NOS-4/25/12



UNITED STATES DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT VERNAL FIELD OFFICE** 170 South 500 East

VERNAL, UT 84078

(435) 781-4400



CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company: Well No: API No:

Kerr McGee Oil & Gas Onshore, LP

NBU 921-20L1BS

43-047-53345

Location: Lease No: NWSW, Sec. 20, T9S, R21E

UTU-0575 **Natural Butte**

Agreement:

OFFICE NUMBER:

(435) 781-4400

OFFICE FAX NUMBER:

(435) 781-3420

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

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

NOTIFICATION REQUIREMENTS

Location Construction (Notify Environmental Scientist)	-	Forty-Eight (48) hours prior to construction of location and access roads.
Location Completion (Notify Environmental Scientist)	_	Prior to moving on the drilling rig.
Spud Notice (Notify Petroleum Engineer)	-	Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to running casing and cementing all casing strings to: blm_ut_vn_opreport@blm.gov
BOP & Related Equipment Tests (Notify Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify Petroleum Engineer)	-	Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

SURFACE USE PROGRAM CONDITIONS OF APPROVAL (COAs)

- All new and replacement internal combustion gas field engines of less than or equal to 300 designrated horsepower must not emit more than 2 gms of NO_x per horsepower-hour. This requirement does not apply to gas field engines of less than or equal to 40 design-rated horsepower.
- All and replacement internal combustion gas field engines of greater than 300 design rated horsepower must not emit more than 1.0 gms of NO_x per horsepower-hour.
- If there is an active Gilsonite mining operation within 2 miles of the well location, operator shall notify the Gilsonite operator at least 48 hours prior to any blasting during construction.
- If paleontological materials are uncovered during construction, the operator is to immediately stop
 work and contact the Authorized Officer (AO). A determination will be made by the AO as to what
 mitigation may be necessary for the discovered paleontologic material before construction can
 continue.
- Paint facilities "Shadow Gray."
- Conduct a raptor survey prior to construction operations if such activities would take place during raptor nesting season (January 1 through September 30). If active raptor nests are identified during the survey, operations should be conducted according to the seasonal restrictions detailed in the Uinta-Basin-specific RMP guidelines and spatial offsets specified by the USFWS Utah Raptor Guidelines.
- If construction operations are not initiated prior to April 19, 2013, an additional biological survey for Uinta Basin hookless cactus should be conducted prior construction according to current USFWS protocol. Utilize cactus protection measures contained in the GNB BO for cacti within 300 feet of disturbance.
- Monitor construction with a permitted archaeologist.
- Monitor road re-route, well pad, and pipeline construction with a permitted paleontologist.
- Cut and bury old P&A marker.
- Re-route existing pipeline around pad.
- If quarter corner marker at Corner #8 needs to be moved for construction, resurvey and re-establish the marker.

CONDITIONS OF APPROVAL (COAs)

SITE SPECIFIC DOWNHOLE COAs:

- Surface casing cement shall be brought to surface.
- Production casing cement shall be brought 200' up and into the surface casing.

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

DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and <u>NOT</u> by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- Cement baskets shall not be run on surface casing.
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is
 encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal
 Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB

Page 4 of 6 Well: NBU 921-20L1BS 4/30/2013

or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.

- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM,
 Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- Please submit an electronic copy of all other logs run on this well in CD (compact disc) format to the Vernal BLM Field Office. This submission will supersede the requirement for submittal of paper logs to the BLM.
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

Page 5 of 6 Well: NBU 921-20L1BS 4/30/2013

OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- For information regarding production reporting, contact the Office of Natural Resources Revenue (ONRR) at www.ONRR.gov.
- Should the well be successfully completed for production, the BLM Vernal Field office must be
 notified when it is placed in a producing status. Such notification will be by written communication
 and must be received in this office by not later than the fifth business day following the date on
 which the well is placed on production. The notification shall provide, as a minimum, the following
 informational items:
 - Operator name, address, and telephone number.
 - Well name and number.
 - Well location (¼¼, Sec., Twn, Rng, and P.M.).
 - Date well was placed in a producing status (date of first production for which royalty will be paid).
 - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
 - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
 - o Unit agreement and/or participating area name and number, if applicable.
 - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs,

Page 6 of 6 Well: NBU 921-20L1BS 4/30/2013

core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover
 equipment shall be removed from a well to be placed in a suspended status without prior approval
 of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior
 approval of the BLM Vernal Field Office shall be obtained and notification given before resumption
 of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

Sundry Number: 42380 API Well Number: 43047533450000

	STATE OF UTAH		FORM 9
ι	DEPARTMENT OF NATURAL RESOUR DIVISION OF OIL, GAS, AND MI		5.LEASE DESIGNATION AND SERIAL NUMBER: UTU0575
SUNDR	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute Tr		
Do not use this form for pro current bottom-hole depth, I FOR PERMIT TO DRILL form	7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES		
1. TYPE OF WELL Gas Well			8. WELL NAME and NUMBER: NBU 921-20L1BS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ON	ISHORE, L.P.		9. API NUMBER: 43047533450000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th	h Street, Suite 600, Denver, CO, 8021	PHONE NUMBER: 720 929-	9. FIELD and POOL or WILDCAT: 5NATERAL BUTTES
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2410 FSL 0079 FWL			COUNTY: UINTAH
QTR/QTR, SECTION, TOWNSH Qtr/Qtr: NWSW Section:	HIP, RANGE, MERIDIAN: 20 Township: 09.0S Range: 21.0E Mer	ridian: S	STATE: UTAH
11. CHECI	K APPROPRIATE BOXES TO INDICA	TE NATURE OF NOTICE, REPOR	RT, OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
	ACIDIZE	ALTER CASING	CASING REPAIR
NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME
	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN	FRACTURE TREAT	☐ NEW CONSTRUCTION
	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK
✓ SPUD REPORT	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION
Date of Spud:	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON
9/5/2013			
DRILLING REPORT	TUBING REPAIR	☐ VENT OR FLARE ☐	☐ WATER DISPOSAL ☐
Report Date:	WATER SHUTOFF	SI TA STATUS EXTENSION	APD EXTENSION
	WILDCAT WELL DETERMINATION	OTHER	OTHER:
Spud well 09/05/20° X .250 wall con Anticipated surface	COMPLETED OPERATIONS. Clearly show 13 @ 07:30. Drill 24" condunductor pipe, cement with 8 spud date and surface cas	uctor hole to 40', run 14" 31 sacks ready mix. sing cement 10/01/2013.	Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY September 09, 2013
NAME (PLEASE PRINT) Doreen Green	PHONE NUMI 435 781-9758	BER TITLE Regulatory Analyst II	
SIGNATURE N/A		DATE 9/9/2013	

Sundry Number: 46327 API Well Number: 43047533450000

	STATE OF UTAH				FORM 9
ī	6	5.LEASE DESIGNATION AND SERIAL NO UTU0575	JMBER:		
SUNDR	6. IF INDIAN, ALLOTTEE OR TRIBE NAI Ute Tr	VE:			
Do not use this form for pro current bottom-hole depth, I FOR PERMIT TO DRILL form	7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES				
1. TYPE OF WELL Gas Well				8. WELL NAME and NUMBER: NBU 921-20L1BS	
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ON	ISHORE, L.P.			9. API NUMBER: 43047533450000	
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th	n Street, Suite 600, Denver, CO, 802		ONE NUMBER: 79 720 929-6	9. FIELD and POOL or WILDCAT: 5NATERAL BUTTES	
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2410 FSL 0079 FWL				COUNTY: UINTAH	
QTR/QTR, SECTION, TOWNSH Qtr/Qtr: NWSW Section:	HP, RANGE, MERIDIAN: 20 Township: 09.0S Range: 21.0E Mo	eridian:	S	STATE: UTAH	
11. CHECI	K APPROPRIATE BOXES TO INDIC	ATE N	ATURE OF NOTICE, REPOR	RT, OR OTHER DATA	
TYPE OF SUBMISSION			TYPE OF ACTION		
	ACIDIZE		ALTER CASING	CASING REPAIR	
NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS		CHANGE TUBING	CHANGE WELL NAME	
	CHANGE WELL STATUS		COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE	
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN	□ F	FRACTURE TREAT	☐ NEW CONSTRUCTION	
	OPERATOR CHANGE	F	PLUG AND ABANDON	PLUG BACK	
SPUD REPORT	PRODUCTION START OR RESUME	□ F	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION	
Date of Spud:	REPERFORATE CURRENT FORMATION		SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON	
	TUBING REPAIR		VENT OR FLARE	WATER DISPOSAL	
✓ DRILLING REPORT Report Date:	WATER SHUTOFF		SI TA STATUS EXTENSION	APD EXTENSION	
1/2/2014	WILDCAT WELL DETERMINATION		OTUED	OTHER	
40 DECODINE DRODOGED OF			officer to be the transfer of the second		
	to 10,370 ft. TD in Quarte			Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ON January 03, 2014	LY
NAME (PLEASE PRINT)	PHONE NUM	/BER	TITLE		
Kay E. Kelly	720 929 6582		Regulatory Analyst		
SIGNATURE N/A			DATE 1/2/2014		

RECEIVED: Jan. 02, 2014

Sundry Number: 49374 API Well Number: 43047533450000

	FORM 9		
	5.LEASE DESIGNATION AND SERIAL NUMBER: UTU0575		
SUNDR	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE		
	pposals to drill new wells, significantly reenter plugged wells, or to drill horizon n for such proposals.		7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES
1. TYPE OF WELL Gas Well			8. WELL NAME and NUMBER: NBU 921-20L1BS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ON	NSHORE, L.P.		9. API NUMBER: 43047533450000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18tl	h Street, Suite 600, Denver, CO, 8021	PHONE NUMBER: 7 3779 720 929-	9. FIELD and POOL or WILDCAT: 1NATURAL BUTTES
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2410 FSL 0079 FWL			COUNTY: UINTAH
QTR/QTR, SECTION, TOWNSH	HIP, RANGE, MERIDIAN: 20 Township: 09.0S Range: 21.0E Mer	idian: S	STATE: UTAH
11. CHEC	K APPROPRIATE BOXES TO INDICA	TE NATURE OF NOTICE, REPOR	RT, OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
	ACIDIZE	ALTER CASING	CASING REPAIR
NOTICE OF INTENT	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME
Approximate date work will start:	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN	FRACTURE TREAT	☐ NEW CONSTRUCTION
·	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK
SPUD REPORT	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION
Date of Spud:	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON
	TUBING REPAIR	VENT OR FLARE	WATER DISPOSAL
DRILLING REPORT Report Date:	WATER SHUTOFF	SI TA STATUS EXTENSION	APD EXTENSION
4/1/2014		OTHER	OTHER:
44 DESCRIPT PROPOSED OR	WILDCAT WELL DETERMINATION		
	COMPLETED OPERATIONS. Clearly show completing the well. Well TD		Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY April 03, 2014
			April 03, 2014
NAME (PLEASE PRINT) Teena Paulo	PHONE NUMB 720 929-6236	BER TITLE Staff Regulatory Specialist	
SIGNATURE		DATE	
N/A		4/1/2014	

Sundry Number: 49826 API Well Number: 43047533450000

	STATE OF UTAH			FORM 9
ı	i	5.LEASE DESIGNATION AND SERIAL NUMBER: UTU0575		
SUNDR	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE			
	posals to drill new wells, significantl reenter plugged wells, or to drill horiz n for such proposals.			7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES
1. TYPE OF WELL Gas Well				8. WELL NAME and NUMBER: NBU 921-20L1BS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ON	ISHORE, L.P.			9. API NUMBER: 43047533450000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th	h Street, Suite 600, Denver, CO, 802		NE NUMBER: 9 720 929-6	9. FIELD and POOL or WILDCAT: 110ATURAL BUTTES
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2410 FSL 0079 FWL				COUNTY: UINTAH
QTR/QTR, SECTION, TOWNSH	tip, range, meridian: 20 Township: 09.0S Range: 21.0E Me	eridian:	S	STATE: UTAH
11. CHECI	K APPROPRIATE BOXES TO INDIC.	ATE NA	ATURE OF NOTICE, REPOR	T, OR OTHER DATA
TYPE OF SUBMISSION			TYPE OF ACTION	
	ACIDIZE	A	LTER CASING	CASING REPAIR
NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS	□ c	HANGE TUBING	CHANGE WELL NAME
Approximate date work will start.	CHANGE WELL STATUS	□ c	OMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN	□ г	RACTURE TREAT	NEW CONSTRUCTION
4/8/2014	OPERATOR CHANGE	□ р	LUG AND ABANDON	PLUG BACK
SPUD REPORT	✓ PRODUCTION START OR RESUME		ECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION
Date of Spud:	REPERFORATE CURRENT FORMATION		IDETRACK TO REPAIR WELL	TEMPORARY ABANDON
	TUBING REPAIR		ENT OR FLARE	WATER DISPOSAL
DRILLING REPORT	WATER SHUTOFF		I TA STATUS EXTENSION	APD EXTENSION
Report Date:		ъ	I TA STATUS EXTENSION	
	WILDCAT WELL DETERMINATION	о 	OTHER	OTHER:
The NBU 921-20L	COMPLETED OPERATIONS. Clearly show 1BS was placed on production production from the completion. Producing from the completion of the compl	ction	04/08/2014 after a	epths, volumes, etc. Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY April 14, 2014
NAME (PLEASE PRINT) Doreen Green	PHONE NUN 435 781-9758	/BER	TITLE Regulatory Analyst II	
SIGNATURE	430 /01-8/00		DATE	
N/A			4/9/2014	

Sundry Number: 50762 API Well Number: 43047533450000

FORM APPROVED Form 3160-4 **UNITED STATES** (August 2007) DEPARTMENT OF THE INTERIOR OMB No. 1004-0137 Expires: July 31, 2010 BUREAU OF LAND MANAGEMENT Lease Serial No. UTU0575 WELL COMPLETION OR RECOMPLETION REPORT AND LOG 1a. Type of Well Oil Well **⊠** Gas Well 6. If Indian, Allottee or Tribe Name □ Dry □ Other b. Type of Completion New Well ■ Work Over Deepen □ Plug Back □ Diff. Resvr. 7. Unit or CA Agreement Name and No. UTU63047A Other 2. Name of Operator Contact: ILA BEALE KERR-MCGEE OIL AND GAS ONSH**GRE**ail: ila.beale@anadarko.com Lease Name and Well No. Contact: ILA BEALE NBU 921-20L1BS P.O. BOX 173779 9. API Well No. Phone No. (include area code) DENVER, CO 82017 Ph: 720-929-6000 43-047-53345 10. Field and Pool, or Exploratory 4. Location of Well (Report location clearly and in accordance with Federal requirements)* NATURAL BUTTES NWSW 2410FSL 79FWL 40.020869 N Lat, 109.584728 W Lon At surface 11. Sec., T., R., M., or Block and Survey or Area Sec 20 T9S R21E Mer SLB At top prod interval reported below NWSW 2406FSL 809FWL 12. County or Parish State NWSW 2382FSL 832FWL UINTĂH UT 14. Date Spudded 09/05/2013 16. Date Completed 15. Date T.D. Reached 17. Elevations (DF, KB, RT, GL)* 12/31/2013 □ D & A Ready to Prod. 4842 KB 04/08/2014 18. Total Depth: MD 10370 19. Plug Back T.D.: MD 10300 20. Depth Bridge Plug Set: MD TVD 10274 TVD 10204 TVD Type Electric & Other Mechanical Logs Run (Submit copy of each) RADIAL CBL/GR/CCL/TEMP **⊠** No Was well cored? 22. Yes (Submit analysis) Was DST run? ▼ No Yes (Submit analysis) Directional Survey? \square No ▼ Yes (Submit analysis) 23. Casing and Liner Record (Report all strings set in well) Bottom Stage Cementer No. of Sks. & Slurry Vol. Hole Size Size/Grade Wt. (#/ft.) Cement Top* Amount Pulled (MD) (MD) Type of Cement (BBL) Depth 24.000 14.000 STL 36.7 11.000 8.625 J55 28.0 24 2944 700 4.500 P-110 0 7.875 1873 11.6 24 10348 24. Tubing Record Size Depth Set (MD) Packer Depth (MD) Size Depth Set (MD) Packer Depth (MD) Size Depth Set (MD) Packer Depth (MD) 25. Producing Intervals 26. Perforation Record Top Bottom Perforated Interval Size No. Holes Perf. Status Formation A) 8173 1023 8173 TO 1023 0.400 216 **OPEN MESAVERDE** B) C) D) 27. Acid, Fracture, Treatment, Cement Squeeze, Etc Depth Interval Amount and Type of Material PUMP 12,977 BBLS SLICKWATER, 54 BBLS 15% HCL ACID, AND 267,916 LBS 30/50 SAND 28. Production - Interval A Oil Gravity Produced Date Production BBL MCF BBL Corr. API Gravity Tested 04/08/2014 04/24/2014 45.0 2708.0 363.0 FLOWS FROM WELL 24 Choke Tbg. Press Csg. 24 Hr. Oil Water Gas:Oil Well Status MCF BBL Rate BBL 1651 Ratio Size Flwg. Press 2090.0 45 2708 363 **PGW** 20/64 28a. Production - Interval B Water Gas Date First Oil Gas Oil Gravity Production Method Test Hours MCF BBL BBL Corr. API Produced Date Tested Production Gravity Choke 24 Hr. Water Gas:Oil Well Status Tbg. Press Csg. Oil Gas Size Press BBL Ratio Flwg. Rate

⁽See Instructions and spaces for additional data on reverse side)
ELECTRONIC SUBMISSION #244692 VERIFIED BY THE BLM WELL INFORMATION SYSTEM ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED **

28b. Prod	duction - Interv	al C										
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravit Corr. API		Gas Gravity	Production Meth	nod	
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio		Well Status			
28c. Proc	duction - Interv	al D										
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravit Corr. API		Gas Gravity	Production Meth	nod	
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio		Well Status	Status		
29. Dispo	osition of Gas(Sold, used	d for fuel, veni	ted, etc.)								
	mary of Porous	Zones (I	nclude Aquife	ers):					31.	Formation (Log)	Markers	
tests,	v all important including dept ecoveries.	zones of j h interva	porosity and c l tested, cushi	ontents the	reof: Coreo ne tool ope	d intervals and en, flowing and	l all drill-st d shut-in pr	em ressures				
Formation			Тор	Botton	ı	Description	ons, Conter	tents, etc.		Nam	e	Top Meas. Deptl
The surfa feet	tional remarks first 210 ft. of ace hole was o ? 5224 feet. I 10348 ft. Atta ey.	the surfa drilled wi DQX csc	ace hole was th an 11 in. b I was run froi	drilled wit bit. A DV to m surface	ool was pl to 5046 ft	laced in the v t.: LTC csa w	well from <i>t</i> as run fro	5221 m 5046		GREEN RIVER BIRD'S NEST MAHOGANY WASATCH MESAVERDE		1628 1931 2475 5106 8167
1. El	e enclosed attaclectrical/Mecha	nical Log				2. Geologic	•		3. DST	Report	4. Direction	nal Survey
5. Sı	andry Notice fo	r pluggir	g and cement	verification	1	6. Core An	alysis		7 Other	:		
	eby certify that	-	Elect	ronic Subn	nission #24	omplete and co 44692 Verifie E OIL AND G	ed by the B SAS ONSH	LM Well I ORE, sen	Information t to the Ver	System.	attached instruction	ons):
Signs	ature	(Electro	nic Submiss	ion)				Date 05/06				
	··	,	, , , , , , , , , , , , , , , , , , , ,									
Title 18 V	U.S.C. Section nited States any	1001 and	Title 43 U.S.	C. Section	1212, mak nents or re	te it a crime fo	or any perso as to any m	n knowing	ly and willfu	ılly to make to an	y department or a	gency
		, 110				1				-		

Sundry Number: 50762 API Well Number: 43047533450000

** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL **

						KIES RE					
				Opera	ition S	summa	ry Report				
Well: NBU 921-2	20L1BS BLUE			Spud Date: 10/19/2013							
Project: UTAH-U	IINTAH		Site: NBL	J 921-20L	. PAD			Rig Name No: PROPETRO 12/12, SST 8/8			
Event: DRILLING	3		Start Date	e: 9/24/20	13			End Date: 1/1/2014			
Active Datum: R Level)	KB @4,842.00usft	(above Mean Se	ea	UWI: NW/SW/0/9/S/21/E/20/0/0/26/PM/S/24				i10/W/0/79/0/0			
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation			
10/19/2013	0:00 - 2:00	2.00	MIRU	01	С	Р	60	PRE SPUD JOB SAFETY MEETING RIG DOWN CEMENT CREW FROW TOP OUT JOB.			
	2:00 - 2:30	0.50	MIRU	01	С	Р	60	REVIEW DIRECTIONAL PLANS AND PLATS AND VERIFY LAT/LONGS AND WELL ORDER VERIFY DIRECTIONAL DRILLERS PLAN IS THE MOST RECENT AND APPROVED VERSION REFERENCE WELLBORE DIAGRAMS FOR EXACT CASING DESIGN AND GENERAL OVERVIEW OF WELLBORE, PRIOR TO SPUD.			
	2:30 - 5:30	3.00	MIRU	01	С	Р	60	PRE SPUD JOB SAFETY MEETING SKID RIG 20' TO NBU 921-20L1BS, RIG UP SET MATTING BOARD, SET RIG IN PLACE, CATWALK, PIPE RACKS.			
	5:30 - 6:00	0.50	MIRU	23	С	Р	60	CREW CHANGE SAFETY MEETING.			
	6:00 - 6:30	0.50	MIRU	01	С	Р	60	PLACE BOTTOM HOLE ASSEMBLY, FINISH PICKING UP BHA AND MAKE UP 12 1/4" BAKER BIT.			
	8:00 - 0:00	1.50	DRISUR	02	В	Р	60	PICK UP NOV 1.83 DEGREE BENT MOTOR (RUN # 3) .17 REV/GAL PICK UP 12 1/4 DRILL BIT. SPUD @ 10/19/2013 06:30. DRILL 12.25" HOLE 40' TO 210' (166' @ 113 FPH). WEIGHT ON BIT 5-15 K. STROKES PER MINUTE=120, GALLONS PER MINUTE=491. PRESSURE ON/OFF (BOTTOM) 800/600. ROTARY RPM 55, MOTOR RPM 83, TOTAL RPM 138. UP/DOWN/ ROTATE 25/25/25 K. DRAG 0 K. CIRCULATE CLOSED LOOP SYSTEM WITH 8.3# WATER. RUNNING VOLUME THROUGH 2 CENTRIFUGE DE WATERING AND, RUNNING VOLUME OVER BOTH SHAKERS.			
	8:00 - 9:00	1.00	DRLSUR	06	Α	Р	230	PRE JOB SAFETY MEETING, CIRC 15 MINUTES AND, TRIP OUT TO CHANGE ASSEMBLY. BREAK 12 1/4" BIT.			
	9:00 - 10:00	1.00	DRLSUR	06	Α	Р	230	MAKE UP BAKER 11" BIT. PICK UP 8" DIRECTIONAL ASSEMBLY SCIBE MOTOR. INSTALL EM TOOL,			
	10:00 - 10:30	0.50	DRLSUR	06	Α	Р	230	TRIP IN HOLE.			

<u> Sundry Number: 50762 API Well Number: 43047533450000</u> **US ROCKIES REGION Operation Summary Report** Well: NBU 921-20L1BS BLUE Spud Date: 10/19/2013 Project: UTAH-UINTAH Site: NBU 921-20L PAD Rig Name No: PROPETRO 12/12, SST 8/8 **Event: DRILLING** End Date: 1/1/2014 Start Date: 9/24/2013 UWI: NW/SW/0/9/S/21/E/20/0/0/26/PM/S/2410/W/0/79/0/0 Active Datum: RKB @4,842.00usft (above Mean Sea P/U Date Time Duration Phase Code Sub MD From Operation Start-End (hr) Code (usft) 10:30 - 12:00 1.50 DRLSUR 02 Ρ 230 В DRILL 11" SURFACE HOLE FROM 210' TO 430' (220' @ 146 FPH). WEIGHT ON BIT 18-25 K. STROKES PER MINUTE=120. GALLONS PER MINUTE=491. PRESSURE ON/OFF(BOTTOM) 700/480. ROTARY RPM 55, MOTOR RPM 83, TOTAL RPM 138. UP/DOWN/ ROT 53/48/50 K. DRAG 3 K. FROM DIRECTIONAL PLAN WE ARE CURRENTLY 1.3' HIGH / 0.1' LEFT OF THE LINE WITH 20' OF SLIDE @ 6.08%. CIRCULATE CLOSED LOOP SYSTEM WITH 8.4# RUNNING VOLUME THROUGH 2 CENTRIFUGE DE WATERING AND, RUNNING VOLUME OVER BOTH SHAKERS. NO HOLE ISSUES. 12:00 - 17:30 5.50 **DRLSUR** 02 450 DRILL 11" SURFACE HOLE FROM 430' TO 1,060' (630' @ 114 FPH). WEIGHT ON BIT 18-25 K. STROKES PER MINUTE=120. GALLONS PER MINUTE=491. PRESSURE ON/OFF(BOTTOM) 1,050/770. ROTARY RPM 55, MOTOR RPM 83, TOTAL RPM 138. UP/DOWN/ ROT 60/50/55 K. DRAG 5 K. FROM DIRECTIONAL PLAN WE ARE CURRENTLY 7.1' HIGH / 1.4' RIGHTOF THE LINE WITH 53' OF SLIDE @ 7.70%. CIRCULATE CLOSED LOOP SYSTEM WITH 8.4# WATER. RUNNING VOLUME THROUGH 2 CENTRIFUGE DE WATERING AND. RUNNING VOLUME OVER BOTH SHAKERS. NO HOLE ISSUES. 17:30 - 18:00 0.50 **DRLSUR** 1080 RIG SERVICE AND CREW CHANGE SAFETY MEETING 18:00 - 0:00 6.00 **DRLSUR** 02 В Ρ 1080 DRILL 11" SURFACE HOLE FROM 1,060' TO 1,660' (600' @ 100 FPH). WEIGHT ON BIT 18-25 K. STROKES PER MINUTE=120. GALLONS PER MINUTE=491. PRESSURE ON/OFF(BOTTOM) 1,110/930. ROTARY RPM 55, MOTOR RPM 83, TOTAL RPM 138. UP/DOWN/ ROT 68/58/61 K. DRAG 5 K. FROM DIRECTIONAL PLAN WE ARE CURRENTLY 2.8' HIGH / 1.5' RIGHT OF THE LINE WITH 175' OF SLIDE @ 30.92%. CIRCULATE CLOSED LOOP SYSTEM WITH 8.4# WATER RUNNING VOLUME THROUGH 2 CENTRIFUGE DE WATERING AND. RUNNING VOLUME OVER BOTH SHAKERS. NO HOLE ISSUES.

<u> Sundry Number: 50762 API Well Number: 43047533450000</u> **US ROCKIES REGION Operation Summary Report** Well: NBU 921-20L1BS BLUE Spud Date: 10/19/2013 Project: UTAH-UINTAH Site: NBU 921-20L PAD Rig Name No: PROPETRO 12/12, SST 8/8 **Event: DRILLING** End Date: 1/1/2014 Start Date: 9/24/2013 UWI: NW/SW/0/9/S/21/E/20/0/0/26/PM/S/2410/W/0/79/0/0 Active Datum: RKB @4,842.00usft (above Mean Sea P/U Date Time Duration Phase Code Sub MD From Operation Start-End (hr) Code (usft) 10/20/2013 0:00 - 6:00 6.00 DRLSUR 02 Ρ 1680 В DRILL 11" SURFACE HOLE FROM 1.660' TO 2.110' (450' @ 75 FPH). WEIGHT ON BIT 18-25 K. STROKES PER MINUTE=120. GALLONS PER MINUTE=491. PRESSURE ON/OFF(BOTTOM) 1,220/1,040. ROTARY RPM 55, MOTOR RPM 83, TOTAL RPM 138. UP/DOWN/ ROT 71/60/65 K. DRAG 6 K. FROM DIRECTIONAL PLAN WE ARE CURRENTLY 4.1' HIGH / 1.7' LEFT OF THE LINE WITH 30' OF SLIDE @ 7.08%. CIRCULATE CLOSED LOOP SYSTEM WITH 8.4# RUNNING VOLUME THROUGH 2 CENTRIFUGE DE WATERING AND, RUNNING VOLUME OVER BOTH SHAKERS. NO HOLE ISSUES. 6.00 - 12:00 6.00 DRLSUR 02 2130 DRILL 11" SURFACE HOLE FROM 2,110' TO 2,590' (480' @ 80 FPH). WEIGHT ON BIT 18-25 K. STROKES PER MINUTE=120. GALLONS PER MINUTE=491. PRESSURE ON/OFF(BOTTOM) 1,380/1,190. ROTARY RPM 55, MOTOR RPM 83, TOTAL RPM 138. UP/DOWN/ ROT 89/59/72 K. DRAG 17 K. FROM DIRECTIONAL PLAN WE ARE CURRENTLY 6.3' HIGH / 4.1' LEFT OF THE LINE WITH 35' OF SLIDE @ 6.48%. CIRCULATE CLOSED LOOP SYSTEM WITH 8.4# WATER. RUNNING VOLUME THROUGH 2 CENTRIFUGE DE WATERING AND. RUNNING VOLUME OVER BOTH SHAKERS. NO HOLE ISSUES. 12:00 - 17:00 5.00 **DRLSUR** 02 В 2610 DRILL 11" SURFACE HOLE FROM 2,590' TO 2,955' TD (365' @ 73 FPH). WEIGHT ON BIT 18-25 K. STROKES PER MINUTE=120. GALLONS PER MINUTE=491. PRESSURE ON/OFF(BOTTOM) 1,551/1,310. ROTARY RPM 55, MOTOR RPM 83, TOTAL RPM 138. UP/DOWN/ ROT 94/65/78 K. DRAG 16 K. FROM DIRECTIONAL PLAN WE ARE CURRENTLY 1.2' HIGH / 3.1' LEFT OF THE LINE WITH 80' OF SLIDE @ 21.74%. CIRCULATE CLOSED LOOP SYSTEM WITH 8.4# WATER RUNNING VOLUME THROUGH 2 CENTRIFUGE DE WATERING AND, RUNNING VOLUME OVER BOTH SHAKERS. NO HOLE ISSUES.

<u> Sundry Number: 50762 API Well Number: 43047533450000</u> US ROCKIES REGION **Operation Summary Report** Well: NBU 921-20L1BS BLUE Spud Date: 10/19/2013 Project: UTAH-UINTAH Site: NBU 921-20L PAD Rig Name No: PROPETRO 12/12, SST 8/8 **Event: DRILLING** End Date: 1/1/2014 Start Date: 9/24/2013 UWI: NW/SW/0/9/S/21/E/20/0/0/26/PM/S/2410/W/0/79/0/0 Active Datum: RKB @4,842.00usft (above Mean Sea P/U Date Time Duration Phase Code Sub MD From Operation Start-End (hr) Code (usft) 17:00 - 19:00 2.00 DRLSUR 05 Ρ 2975 С CIRCULATE AND CONDITION HOLE. VOLUME IS CLEAN COMING OVER SHAKERS, 2-400 BBL UPRIGHT'S FULL AND 4-400 BBL UPRIGHTS EMPTY, 1,000 BBLS OF FRESH WATER ON LOCATION FOR CEMENT JOB. 19:00 - 23:00 4.00 **DRLSUR** 2975 06 D PRE JOB SAFETY MEETING, TRIP OUT OF HOLE, LAY DOWN DRILL STRING, BOTTOM HOLE ASSEMBLY. LAY DOWN DIRECTIONAL TOOLS, MOTOR AND, RIT CLEAR TOOL AREA. 23:00 - 0:00 1.00 2975 **CSGSUR** 01 В SPOT SURFACE CASING FOR 8 5/8" CASING RUN AND RIG UP TO RUN CASING. 10/21/2013 0:00 - 3:00 3.00 **CSGSUR** 12 С Ρ 2975 RUN 66 JOINTS OF 8-5/8". 28# J-55 LTC CASING. RAN 1 CENTRALIZER ON FIRST THREE JOINTS, AND EVERY OTHER JOINT FOR 2 JOINTS FOR A TOTAL OF 5 CENTRALIZERS. RUN A TOTAL OF 66 JOINTS. RUN CASING TO BOTTOM WITH NO PROBLEMS. SET FLOAT SHOE @ 2,923.81' KB. SET TOP OF BAFFLE PLATE @ 2,878.00 3:00 - 4:00 1.00 **CSGSUR** 01 В 2975 PRE JOB SAFETY MEETING WITH PRO PETRO CEMENTERS. RIG UP PRO PETRO CEMENT CREW, RAN 200' OF 1". PIPE DOWN BACK-SIDE OF CASING. 4:00 - 5:00 1.00 **CSGSUR** 12 Е Р 2975 PRESSURE TEST LINES TO 2,000 PSI. PUMP 150.0 BBLS OF WATER AHEAD CLEARING SHOF MIX AND PUMP 20 BBLS OF GEL WATER FLUSH AHEAD OF CEMENT MIX AND PUMP 300 SX OF PREMIUM LEAD CEMENT WITH 16% GEL, 10 LB/SX GILSONITE, 2 LB/SX GR-3, 3% SALT, & 0.25 LB/SX FLOCELE. 152.8 BBLS OF SLURRY MIXED @ 12.0 PPG WITH YIELD OF 2.86 CF/SX. MIX & PUMP 175 SX OF PREMIUM TAIL CEMENT WITH 2% CACL 2 & 0.25 LB/SX FLOCELE 35 8 BBL OF SLURRY MIXED @ 15.8 PPG WITH YIELD OF 1.15 CF/SX DROP PLUG ON FLY. DISPLACE WITH 179.5 BBLS OF FRESH WATER. PARTIAL RETURNS THROUGH OUT JOB. FINAL LIFT OF 710 PSI AT 3.5 BBL/MINUTE. BUMPED PLUG @ 710 PSI. HELD @ 1,020 PSI FOR 5 MINUTES WITHOUT BLEED OFF. TESTED FLOAT AND FLOAT HELD. **RELEASE** RIG @ 10/21/2013 05:00 SHUT DOWN AND WASH UP TOP JOB # 1: PUMP CEMENT DOWN ONE INCH PIPE WITH 175 SX PREMIUM CEMENT WITH 4% CACL2 & .25 LB/SX FLOCELE. 35.8 BBLS OF SLURRY MIXED AT 15.8 PPG WITH YIELD OF 1.15 CF/SX. CEMENT

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RETURNS TO SURFACE 3 BBLS

<u> Sundry Number: 50762 API Well Number: 43047533450000</u> US ROCKIES REGION **Operation Summary Report** Well: NBU 921-20L1BS BLUE Spud Date: 10/19/2013 Project: UTAH-UINTAH Site: NBU 921-20L PAD Rig Name No: PROPETRO 12/12, SST 8/8 **Event: DRILLING** End Date: 1/1/2014 Start Date: 9/24/2013 UWI: NW/SW/0/9/S/21/E/20/0/0/26/PM/S/2410/W/0/79/0/0 Active Datum: RKB @4,842.00usft (above Mean Sea Date P/U Time Duration Phase Code Sub MD From Operation Start-End (hr) Code (usft) 12/24/2013 14:00 - 15:30 MIRU3 Ρ 2975 RIG DOWN / PREPARE TO SKID 1.50 01 Ε 15:30 - 16:30 Р 1.00 MIRU3 С 2975 01 SKID RIG 10 FT. F/ NBU 921-20L4BS TO NBU 921-20L1BS 16:30 - 19:30 3.00 MIRU3 В Ρ 2975 RIG UP MUD LINES / RIG UP CAT WALK & V-DOOR SLIDE / CHANGE OUT ELEVATORS / CHANGE OUT KILL LINE VALVE / RIG UP FLOW LINE 19:30 - 20:30 1.00 **PRPSPD** Ρ 2975 NIPPLE UP BOP 14 Α 20:30 - 0:00 3 50 **PRPSPD** 15 Р 2975 HELD A SAFETY MEETING WITH A-1 TESTER, FILL THE TRUCK WITH WATER, RIGGED UP TESTER TESTING CASING AND CHOKE TO 1500 PSI FOR 30 MINUTES. TEST ANNULLAR TO 2500 PSI FOR 10 MIN AND 250 PSI FOR 5 MINUTES. TEST I-BOP VALVE, FLOOR VALVE, DART VALVE, PIPE AND BLIND RAMS, INSIDE AND OUTSIDE KILL LINE VALVES INSIDE OUTSIDE CHOKE LINE VALVE, HCR VALVE, CHOKE LINE, CHOKE MANIFOLD VALVES TO 5000 PSI FOR 10 MINUTES AND 250 PSI FOR 5 MINUTES. 12/25/2013 0:00 - 1:30 1.50 PRPSPD 2975 TESTING CASING AND CHOKE TO 1500 PSI FOR 30 MINUTES TEST ANNULLAR TO 2500 PSI FOR 10 MIN AND 250 PSI FOR 5 MINUTES. TEST I-BOP VALVE, FLOOR VALVE, DART VALVE, PIPE AND BLIND RAMS. INSIDE AND OUTSIDE KILL LINE VALVES INSIDE OUTSIDE CHOKE LINE VALVE. HCR VALVE. CHOKE LINE. CHOKE MANIFOLD VALVES TO 5000 PSI FOR 10 MINUTES AND 250 PSI FOR 5 MINUTES. 1:30 - 2:00 0.50 **PRPSPD** 14 В Р 2975 SET WEAR BUSHING 2:00 - 7:30 Ρ 5.50 **PRPSPD** 06 2975 MAKE UP BIT & MUD MOTOR / SCRIBE MOTOR / PICK UP MWD TOOL / PROGRAM TOOL / CHANGE OUT 1 NMDC / CHANGE OUT 1 HWDP / TRIP IN HOLE / INSTALL ROTATING HEAD RUBBER 7:30 - 8:30 **PRPSPD** 2975 SLIP & CUT DRILL LINE 1.00 09 Α 8:30 - 9:00 0.50 **PRPSPD** 06 Α Ρ 2975 TRIP IN HOLE / TAG CEMENT @ 2828' 9:00 - 9:30 0.50 **PRPSPD** 07 Α Р 2975 RIG SERVICE 9:30 - 10:00 0.50 DRLPRC Ρ 2975 02 DRILL SHOE TRACK WOB 8-15

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PUMP STROKES 80 GPM 337

MUD MOTOR RPM 54 ROTARY 40

Sundry	Number: ¹	50762	APT We	7]] <u>N</u>	Jumbe	r: 4	30475334	450000			
US ROCKIES REGION											
Operation Summary Report											
Well: NBU 921-20L1BS BLUE Spud Date: 10/19/2013											
Project: UTAH-U	JINTAH		Site: NBL	J 921-20L	PAD			Rig Name No: PROPETRO 12/12, SST 8/8			
Event: DRILLING	G		Start Date	e: 9/24/20	013			End Date: 1/1/2014			
Active Datum: R Level)	ea	UWI: NW/SW/0/9/S/21/E/20/0/0/26/PM/S/2410/W/0/79/0/0									
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation			
	10:00 - 18:00	8.00	DRLPRC	02	D	P	2975	DRILL SLIDE F/ 2975' - 3971' (996' @ 124.5' / HR) WEIGHT ON BIT 17-21 K. AVERAGE WOB 20K ROTARY RPM 60-70, MUD MOTOR RPM 93. STROKES PER MINUTE 140 GALLONS PER MINUTE 586 OFF/ON PSI 1280 / 1650 DIFFERENTIAL 370 TORQUE HIGH/LOW 5000 / 9000 OFF BOTTOM TORQUE 4000 STRING WEIGHT UP/DOWN/ROT 100 / 80 / 100. DRAG 0 K BOS DEWATER AS NEEDED WT 9 VIS 32. ////// DRILLING FLOWZAN ///// PUMP LCM SWEEPS TO HELP WITH LOSSES. USED 62 BBL. FLUID FOR HOLE VOLUME 0 BARRELS LOSSES @ 0 BBL/HR NO FLARE			

Sundry Number: 50762 API Well Number: 43047533450000 **US ROCKIES REGION Operation Summary Report** Spud Date: 10/19/2013 Well: NBU 921-20L1BS BLUE Project: UTAH-UINTAH Site: NBU 921-20L PAD Rig Name No: PROPETRO 12/12, SST 8/8 **Event: DRILLING** End Date: 1/1/2014 Start Date: 9/24/2013 UWI: NW/SW/0/9/S/21/E/20/0/0/26/PM/S/2410/W/0/79/0/0 Active Datum: RKB @4,842.00usft (above Mean Sea Date P/U Time Duration Phase Code Sub MD From Operation Start-End (hr) Code (usft) 18:00 - 0:00 6.00 **DRLPRC** 02 D Ρ 3971 DRILL SLIDE F/ 3971-4645' (674' @ 112' / HR) WEIGHT ON BIT 17-21 K. AVERAGE WOB 20K ROTARY RPM 60-70, MUD MOTOR RPM 93. STROKES PER MINUTE 140 GALLONS PER MINUTE 586 OFF/ON PSI 1280 / 1650 DIFFERENTIAL 370 TORQUE HIGH/LOW 5000 / 9000 OFF BOTTOM TORQUE 4000 STRING WEIGHT UP/DOWN/ROT 130/100/120 DRAG 0 K **BOS DEWATER AS NEEDED** WT 9 VIS 32. ///// DRILLING FLOWZAN ///// PUMP LCM SWEEPS TO HELP WITH LOSSES. USED 42 BBL. FLUID FOR HOLE VOLUME 0 BARRELS LOSSES @ 0 BBL/HR NO FLARE Bit Position @ Time of Report / REF PBHL 2013/12/26 North 9.13' West 30.92' 4,645' Start Time End Time Hours / Minutes Bit Position Update Start / Stop Times From 10:00 To 0:00 14:00 Actual On Bottom Drilling Time 11.08 14.00 Total Footage Drilled From 2875' To 4645' 1770' Total Footage Drilled Rotating 1570 Percent of Footage Rotated 88.70% Total Footage Drilled Sliding 100 Percent of Footage **Sliding 5.65%** Hours Total Time Rotate Drilling 8.83 Percent of Time Rotated 79.69% Total Time Slide Drilling 2.25 Percent of Time Sliding 20.31% Connection / Ream / Rig Time / Circulating 2.92 Percent Non-Drilling Time 20.86% Last Survey MD: 4579' Inc 0.5 Azm 86.2 TVD 4484.32' Projection to Bit from Last Survey

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MD: 4645' North 9.13' West 30.92' PBHL

<u> Sundry Number: 50762 API Well Number: 43047533450000</u> **US ROCKIES REGION Operation Summary Report** Spud Date: 10/19/2013 Well: NBU 921-20L1BS BLUE Project: UTAH-UINTAH Site: NBU 921-20L PAD Rig Name No: PROPETRO 12/12, SST 8/8 **Event: DRILLING** End Date: 1/1/2014 Start Date: 9/24/2013 UWI: NW/SW/0/9/S/21/E/20/0/0/26/PM/S/2410/W/0/79/0/0 Active Datum: RKB @4,842.00usft (above Mean Sea P/U Date Time Duration Phase Code Sub MD From Operation Start-End (hr) Code (usft) 12/26/2013 0:00 - 6:00 6.00 **DRLPRV** 02 В Ρ 4645 DRILL SLIDE F/ 4645 - 5177' (532' @ 88.6' / HR) WEIGHT ON BIT 17-21 K. AVERAGE WOB 20K ROTARY RPM 60-70, MUD MOTOR RPM 93. STROKES PER MINUTE 140 GALLONS PER MINUTE 586 OFF/ON PSI 1280 / 1650 DIFFERENTIAL 370 TORQUE HIGH/LOW 5000 / 9000 OFF BOTTOM TORQUE 4000 STRING WEIGHT UP/DOWN/ROT 130/100/120 DRAG 0 K **BOS DEWATER AS NEEDED** WT 9 VIS 32. ///// DRILLING FLOWZAN ///// PUMP LCM SWEEPS TO HELP WITH LOSSES. USED 38 BBL. FLUID FOR HOLE VOLUME 0 BARRELS LOSSES @ 0 BBL/HR NO FLARE Bit Position @ Time of Report / REF PBHL 2013/12/26 North 9.42' West 21.06' 5,113' Start Time End Time Hours / Minutes Bit Position Update Start / Stop Times From 0:00 To 5:00 5:00 Actual On Bottom Drilling Time 4.58 5.00 Total Footage Drilled From 4645' To 5113' 468' Total Footage Drilled Rotating 428 Percent of Footage Rotated 91.45% Total Footage Drilled Sliding 30 Percent of Footage Sliding 6.41% Hours Total Time Rotate Drilling 3.25 Percent of Time Rotated 70.96% Total Time Slide Drilling 1.33 Percent of Time Sliding Connection / Ream / Rig Time / Circulating 0.42 Percent Non-Drilling Time 8.40% Last Survey MD: 4960' Inc 1.7 Azm 96.0 TVD 4865.26' Projection to Bit from Last Survey

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MD: 5113' North 9.42' West 21.06' PBHL

				U	SROC	KIES RE	EGION	
				Opera	tion S	Summa	ry Report	
Nell: NBU 921-2	0L1BS BLUE						Spud Date: 10/	/19/2013
Project: UTAH-UI	NTAH		Site: NBL	J 921-20L	. PAD			Rig Name No: PROPETRO 12/12, SST 8/8
ent: DRILLING	1		Start Date	e: 9/24/20)13			End Date: 1/1/2014
Active Datum: Rh _evel)	KB @4,842.00usft (al	oove Mean S	ea	UWI: N\	N/SW/0/	9/S/21/E/2	0/0/0/26/PM/S/24	410/W/0/79/0/0
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	6:00 - 12:00	6.00	DRLPRV	02	В	P	5177	DRILL SLIDE F/ 5177-5780' (603' @ 100.5' / HR) WEIGHT ON BIT 17-21 K. AVERAGE WOB 20K ROTARY RPM 60-70, MUD MOTOR RPM 93. STROKES PER MINUTE 140 GALLONS PER MINUTE 586 OFF/ON PSI 1900/2300 DIFFERENTIAL 400 TORQUE HIGH/LOW 10000/8000 OFF BOTTOM TORQUE 4000 STRING WEIGHT UP/DOWN/ROT 130/100/120 DRAG 0 K BOS DEWATER AS NEEDED WT 9 VIS 32. ////// PUMP LCM SWEEPS TO HELP WITH LOSSES. USED 37 BBL. FLUID FOR HOLE VOLUME 0 BARRELS LOSSES @ 0 BBL/HR NO FLARE
	12:00 - 12:30	0.50	DRLPRV	08	Α	Р	5780	CHANGED OUT O-RING ON STAND PIPE

Sundry Number: 50762 API Well Number: 43047533450000 **US ROCKIES REGION Operation Summary Report** Spud Date: 10/19/2013 Well: NBU 921-20L1BS BLUE Project: UTAH-UINTAH Site: NBU 921-20L PAD Rig Name No: PROPETRO 12/12, SST 8/8 **Event: DRILLING** End Date: 1/1/2014 Start Date: 9/24/2013 UWI: NW/SW/0/9/S/21/E/20/0/0/26/PM/S/2410/W/0/79/0/0 Active Datum: RKB @4,842.00usft (above Mean Sea Date P/U Operation Time Duration Phase Code Sub MD From Start-End (hr) Code (usft) 12:30 - 16:00 3.50 **DRLPRV** 02 В Ρ 5780 DRILL SLIDE F/5780-6065' (285' @ 81.4' / HR) WEIGHT ON BIT 17-21 K. AVERAGE WOB 20K ROTARY RPM 60-70, MUD MOTOR RPM 93. STROKES PER MINUTE 140 GALLONS PER MINUTE 586 OFF/ON PSI 1280 / 1650 DIFFERENTIAL 370 TORQUE HIGH/LOW 5000 / 9000 OFF BOTTOM TORQUE 4000 STRING WEIGHT UP/DOWN/ROT 150/115/130 DRAG 20 K **BOS DEWATER AS NEEDED** WT 9 VIS 32. ///// DRILLING FLOWZAN //// PUMP LCM SWEEPS TO HELP WITH LOSSES. USED 33 BBL. FLUID FOR HOLE VOLUME 0 BARRELS LOSSES @ 0 BBL/HR NO FLARE Bit Position @ Time of Report / REF PBHL 2013/12/26 North 9.80' West 4.03' 6,065' Start Time End Time Hours / Minutes Bit Position Update Start / Stop Times From 5:00 To 16:00 11:00 Actual On Bottom Drilling Time 9.25 11.00 Total Footage Drilled From 5113' To 6065' 952' Total Footage Drilled Rotating 892 Percent of Footage Rotated 93.70% Total Footage Drilled Sliding 60 Percent of Footage Sliding 6.30% Hours Total Time Rotate Drilling 7.67 Percent of Time Rotated 82.92% Total Time Slide Drilling 1.59 Percent of Time Sliding 17.19% Connection / Ream / Rig Time / Circulating 1.75 Percent Non-Drilling Time 15.91% Last Survey MD: 6007' Inc 0.3 Azm 16.3 TVD 5911.86' Projection to Bit from Last Survey MD: 6007' North 9.80' West 4.03' PBHL

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16:00 - 16:30

0.50

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RIG SERVICE

<u> Sundry Number: 50762 API Well Number: 43047533450000</u> **US ROCKIES REGION Operation Summary Report** Spud Date: 10/19/2013 Well: NBU 921-20L1BS BLUE Project: UTAH-UINTAH Site: NBU 921-20L PAD Rig Name No: PROPETRO 12/12, SST 8/8 **Event: DRILLING** End Date: 1/1/2014 Start Date: 9/24/2013 UWI: NW/SW/0/9/S/21/E/20/0/0/26/PM/S/2410/W/0/79/0/0 Active Datum: RKB @4,842.00usft (above Mean Sea Date P/U Time Duration Phase Code Sub MD From Operation Start-End (hr) Code (usft) 16:30 - 0:00 7.50 **DRLPRV** 02 В Ρ 6065 DRILL SLIDE F/ 6065-6732' (667' @ 89' / HR) WEIGHT ON BIT 17-22 K. AVERAGE WOB 20K ROTARY RPM 60-70, MUD MOTOR RPM 93. STROKES PER MINUTE 140 GALLONS PER MINUTE 586 OFF/ON PSI 2280/2500 DIFFERENTIAL 320 TORQUE HIGH/LOW 15000/10000 OFF BOTTOM TORQUE 6000 STRING WEIGHT UP/DOWN/ROT 175/120/140 DRAG 35 K **BOS DEWATER AS NEEDED** WT 9 VIS 32. ///// DRILLING FLOWZAN ///// PUMP LCM SWEEPS TO HELP WITH LOSSES. USED 41 BBL. FLUID FOR HOLE VOLUME 0 BARRELS LOSSES @ 0 BBL/HR NO FLARE Bit Position @ Time of Report / REF PBHL 2013/12/26 North 12.46' West 7.69' 6,732' Start Time End Time Hours / Minutes Bit Position Update Start / Stop Times From 16:00 To 0:00 8:00 Actual On Bottom Drilling Time 6.67 8.00 Total Footage Drilled From 6065' To 6732' 667' Total Footage Drilled Rotating 649 Percent of Footage Rotated 97.30% Total Footage Drilled Sliding 18 Percent of Footage Sliding 2.70% Hours Total Time Rotate Drilling 5.91 Percent of Time Rotated 88.61% Total Time Slide Drilling 0.75 Percent of Time Sliding 11.24% Connection / Ream / Rig Time / Circulating 1.33 Percent Non-Drilling Time 16.63% Last Survey MD: 6674' Inc 0.4 Azm 293.9 TVD 6578.86' Projection to Bit from Last Survey MD: 66732' North 12.46' West 7.69' PBHL

<u> Sundry Number: 50762 API Well Number: 43047533450000</u> **US ROCKIES REGION Operation Summary Report** Spud Date: 10/19/2013 Well: NBU 921-20L1BS BLUE Project: UTAH-UINTAH Site: NBU 921-20L PAD Rig Name No: PROPETRO 12/12, SST 8/8 **Event: DRILLING** End Date: 1/1/2014 Start Date: 9/24/2013 UWI: NW/SW/0/9/S/21/E/20/0/0/26/PM/S/2410/W/0/79/0/0 Active Datum: RKB @4,842.00usft (above Mean Sea P/U Date Time Duration Phase Code Sub MD From Operation Start-End (hr) Code (usft) 12/27/2013 0:00 - 6:00 6.00 **DRLPRV** 02 В Ρ 6732 DRILL SLIDE F/ 6732-7208' (476' @ 79' / HR) WEIGHT ON BIT 17-22 K. AVERAGE WOB 20K ROTARY RPM 60-70, MUD MOTOR RPM 93. STROKES PER MINUTE 140 GALLONS PER MINUTE 586 OFF/ON PSI 2280/2500 DIFFERENTIAL 320 TORQUE HIGH/LOW 15000/10000 OFF BOTTOM TORQUE 6000 STRING WEIGHT UP/DOWN/ROT 175/120/140 DRAG 35 K **BOS DEWATER AS NEEDED** WT 9 VIS 32. ///// DRILLING FLOWZAN ///// PUMP LCM SWEEPS TO HELP WITH LOSSES. USED 30 BBL. FLUID FOR HOLE VOLUME 25 BARRELS LOSSES @ 4.1 BBL/HR NO FLARE Bit Position @ Time of Report / REF PBHL 2013/12/27 North 14.23' West 11.73' 7,140' Start Time End Time Hours / Minutes Bit Position Update Start / Stop Times From 0:00 To 5:00 5:00 Actual On Bottom Drilling Time 4.67 5.00 Total Footage Drilled From 6732' To 7140' 408' Total Footage Drilled Rotating 388 Percent of Footage Rotated 95.10% Total Footage Drilled Sliding 20 Percent of Footage Sliding 4.90% Hours Total Time Rotate Drilling 3.92 Percent of Time Rotated 83.94% Total Time Slide Drilling 0.75 Percent of Time Sliding Connection / Ream / Rig Time / Circulating 0.33 Percent Non-Drilling Time 6.60% Last Survey MD: 6960' Inc 1.1 Azm 302.5 TVD 6864.65' Projection to Bit from Last Survey

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MD: 7140' North 14.23' West 11.73' PBHL

				U	S ROCI	KIES RE	GION	
				Opera	tion S	umma	ry Report	
ell: NBU 921-20L	L1BS BLUE						Spud Date: 10.	/19/2013
oject: UTAH-UIN	ITAH		Site: NBL	921-20L	. PAD			Rig Name No: PROPETRO 12/12, SST 8/8
ent: DRILLING			Start Date	e: 9/24/20)13			End Date: 1/1/2014
	3 @4,842.00usft (al	bove Mean S	ea	UWI: N	W/SW/0/9	/S/21/E/2	0/0/0/26/PM/S/2	410/W/0/79/0/0
vel) Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	6:00 - 11:00	5.00	DRLPRV	02	В	P	7208	DRILL SLIDE F/ 7208-7495 ' (208' @ 57.4' / HR) WEIGHT ON BIT 17-22 K. AVERAGE WOB 20K ROTARY RPM 60-70, MUD MOTOR RPM 93. STROKES PER MINUTE 140 GALLONS PER MINUTE 586 OFF/ON PSI 2280/2500 DIFFERENTIAL 320 TORQUE HIGH/LOW 15000/10000 OFF BOTTOM TORQUE 6000 STRING WEIGHT UP/DOWN/ROT 175/120/140 DRAG 35 K BOS DEWATER AS NEEDED WT 9 VIS 32. ///// PUMP LCM SWEEPS TO HELP WITH LOSSES. USED 13 BBL. FLUID FOR HOLE VOLUME 25 BARRELS LOSSES @ 5 BBL/HR NO FLARE
	11:30 - 11:30 11:30 - 18:00	0.50 6.50	DRLPRV	07 02	В	P	7495 7495	RIG SERVICE / CHANGE OUT FLOW SENSOR DRILL SLIDE F/ 7495-7780 ' (285' @ 44' / HR) WEIGHT ON BIT 17-22 K. AVERAGE WOB 20K ROTARY RPM 60-70, MUD MOTOR RPM 93. STROKES PER MINUTE 140 GALLONS PER MINUTE 586 OFF/ON PSI 2280/2500 DIFFERENTIAL 320 TORQUE HIGH/LOW 15000/10000 OFF BOTTOM TORQUE 6000 STRING WEIGHT UP/DOWN/ROT 175/125/145 DRAG 30 K BOS DEWATER AS NEEDED WT 9 VIS 32. ////// PUMP LCM SWEEPS TO HELP WITH LOSSES. USED 18 BBL. FLUID FOR HOLE VOLUME

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NO FLARE

<u> Sundry Number: 50762 API Well Number: 43047533450000</u> **US ROCKIES REGION Operation Summary Report** Spud Date: 10/19/2013 Well: NBU 921-20L1BS BLUE Project: UTAH-UINTAH Site: NBU 921-20L PAD Rig Name No: PROPETRO 12/12, SST 8/8 **Event: DRILLING** End Date: 1/1/2014 Start Date: 9/24/2013 UWI: NW/SW/0/9/S/21/E/20/0/0/26/PM/S/2410/W/0/79/0/0 Active Datum: RKB @4,842.00usft (above Mean Sea P/U Date Time Duration Phase Code Sub MD From Operation Start-End (hr) Code (usft) 18:00 - 23:00 5.00 **DRLPRV** 02 Ρ 7780 В DRILL SLIDE F/ 7780-8056' (276' @ 55' / HR) WEIGHT ON BIT 17-22 K. AVERAGE WOB 20K ROTARY RPM 60-70, MUD MOTOR RPM 93. STROKES PER MINUTE 140 GALLONS PER MINUTE 586 OFF/ON PSI 2280/2500 DIFFERENTIAL 320 TORQUE HIGH/LOW 15000/13000 OFF BOTTOM TORQUE 13000 STRING WEIGHT UP/DOWN/ROT 200/125/155 DRAG 45 K **BOS DEWATER AS NEEDED** WT 9 VIS 32. ///// DRILLING FLOWZAN ///// PUMP LCM SWEEPS TO HELP WITH LOSSES. USED 17 BBL. FLUID FOR HOLE VOLUME 25 BARRELS LOSSES @ 5 BBL/HR 10' FLARE Bit Position @ Time of Report / REF PBHL 2013/12/28 North 14.96' West 11.2' 8,056' Start Time End Time Hours / Minutes Bit Position Update Start / Stop Times From 11:00 To 0:00 13:00 Actual On Bottom Drilling Time 10.25 13.00 Total Footage Drilled From 7494' To 8056' 562' Total Footage Drilled Rotating 524 Percent of Footage Rotated 93.24% Total Footage Drilled Sliding 38 Percent of Footage **Sliding 6.76%** Hours Total Time Rotate Drilling 8.25 Percent of Time Rotated 80.49% Total Time Slide Drilling 2.00 Percent of Time Sliding 19.51% Connection / Ream / Rig Time / Circulating 2.75 Percent Non-Drilling Time 21.15% Last Survey MD: 7912' Inc 1.3 Azm 46.0 TVD 7816.76' Projection to Bit from Last Survey MD: 8056' North 14.96' West 11.2' PBHL 23:00 - 0:00 1.00 **DRLPRV** В 8056 05 SPACE OUT / SHUT IN WELL / 20BBL GAIN / CIRCULATE GAS OUT / DISPLACE 10.5 MUD CASING PSI-75 SIDP-60 0:00 - 0:30 12/28/2013 0.50 **DRLPRV** 08 С 8056 Х SHUT IN WELL / DISPLACE 10.5 MUD FROM **STORAGE** SICPSI-70 SIDP-63 GAIN-18BBLS 0:30 - 1:00 0.50 **DRLPRV** 8056 Х OPEN UP WELL TO FLOWLINE / DISPLACE 10.5 MUD WT / BLOW DOWN CHOKE

<u> Sundry Number: 50762 API Well Number: 43047533450000</u> US ROCKIES REGION **Operation Summary Report** Well: NBU 921-20L1BS BLUE Spud Date: 10/19/2013 Project: UTAH-UINTAH Site: NBU 921-20L PAD Rig Name No: PROPETRO 12/12, SST 8/8 **Event: DRILLING** End Date: 1/1/2014 Start Date: 9/24/2013 UWI: NW/SW/0/9/S/21/E/20/0/0/26/PM/S/2410/W/0/79/0/0 Active Datum: RKB @4,842.00usft (above Mean Sea P/U Date Time Duration Phase Code Sub MD From Operation Start-End (hr) Code (usft) 1:00 - 1:30 0.50 **DRLPRV** 80 Χ 8056 С SHUT WELL IN DUE TO EXCESSIVE WET GAS ON FLARE IGNITOR CONTACTS / CLEAN AND DRY UP FLARE IGNITOR CONTACTS 1:30 - 3:30 2.00 DRLPRV 08 С Χ 8056 CIRCULATE OUT GAS WHILE DISPLACING 10.5 MUD SICP/ 148 SIDP/ 120 10BBL GAIN 20' FLARE 3:30 - 8:30 5.00 DRLPRV 02 В 8056 DRILL SLIDE F/ 8056-8323' (270' @ 54' / HR) WEIGHT ON BIT 17-22 K. AVERAGE WOB 20K **ROTARY RPM** 60-70, MUD MOTOR RPM STROKES PER MINUTE 140 GALLONS PER MINUTE 586 OFF/ON PSI 2280/2500 DIFFERENTIAL 320 TORQUE HIGH/LOW 15000/13000 OFF BOTTOM TORQUE 13000 STRING WEIGHT UP/DOWN/ROT 200/125/155 DRAG 45 K BOS DEWATER AS NEEDED WT 9 VIS 32 ///// DRILLING FLOWZAN //// PUMP LCM SWEEPS TO HELP WITH LOSSES. USED 17 BBL. FLUID FOR HOLE VOLUME 20 BARRELS LOSSES @ 4 BBL/HR 10' FLARE Bit Position @ Time of Report / REF PBHL 2013/12/28 North 19.09' West 8.41' 8.323' Start Time End Time Hours / Minutes Bit Position Update Start / Stop Times From 5:00 To 9:00 4:00 Actual On Bottom Drilling Time 3.34 4.00 Total Footage Drilled From 8140' To 8323' 183' Total Footage Drilled Rotating 183 Percent of Footage Rotated 100.00% Total Footage Drilled Sliding 0 Percent of Footage Sliding 0.00% Hours Total Time Rotate Drilling 3.34 Percent of Time Rotated 100.00% Total Time Slide Drilling 0.00 Percent of Time Sliding Connection / Ream / Rig Time / Circulating 0.66 Percent Non-Drilling Time 16.50% Last Survey MD: 8293' Inc 0.7 Azm 46.8 TVD 7912.74' Projection to Bit from Last Survey MD: 8323' North 19.09' West 8.41' PBHL 8:30 - 9:00 0.50 **DRLPRV** 08 С Χ 8323 WINTERIZE CHOKE

<u> Sundry Number: 50762 API Well Number: 43047533450000</u> **US ROCKIES REGION Operation Summary Report** Spud Date: 10/19/2013 Well: NBU 921-20L1BS BLUE Project: UTAH-UINTAH Site: NBU 921-20L PAD Rig Name No: PROPETRO 12/12, SST 8/8 **Event: DRILLING** End Date: 1/1/2014 Start Date: 9/24/2013 UWI: NW/SW/0/9/S/21/E/20/0/0/26/PM/S/2410/W/0/79/0/0 Active Datum: RKB @4,842.00usft (above Mean Sea P/U Date Time Duration Phase Code Sub MD From Operation Start-End (hr) Code (usft) 9:00 - 17:00 8.00 **DRLPRV** 02 В Ρ 8323 DRILL SLIDE F/ 8323-8732' (409' @ 51' / HR) WEIGHT ON BIT 17-22 K. AVERAGE WOB 20K ROTARY RPM 60-70, MUD MOTOR RPM 93. STROKES PER MINUTE 140 GALLONS PER MINUTE 586 OFF/ON PSI 2280/2500 DIFFERENTIAL 320 TORQUE HIGH/LOW 15000/13000 OFF BOTTOM TORQUE 13000 STRING WEIGHT UP/DOWN/ROT 200/125/155 DRAG 45 K **BOS DEWATER AS NEEDED** WT 9 VIS 32. ///// DRILLING FLOWZAN ///// PUMP LCM SWEEPS TO HELP WITH LOSSES. USED 17 BBL. FLUID FOR HOLE VOLUME 20 BARRELS LOSSES @ 2.5 BBL/HR 10' FLARE Bit Position @ Time of Report / REF PBHL 2013/12/28 North 22.9' West 3.55' 8,732' Start Time End Time Hours / Minutes Bit Position Update Start / Stop Times From 9:00 To 17:30 8:30 Actual On Bottom Drilling Time 7.33 8.50 Total Footage Drilled From 8323' To 8732' 409' Total Footage Drilled Rotating 409 Percent of Footage Rotated 100.00% Total Footage Drilled Sliding 0 Percent of Footage Sliding 0.00% Hours Total Time Rotate Drilling 7.33 Percent of Time Rotated 100.00% Total Time Slide Drilling 0.00 Percent of Time Sliding Connection / Ream / Rig Time / Circulating 1.17 Percent Non-Drilling Time 13.76% Last Survey MD: 8674' Inc 1.1 Azm 82.6 TVD 8578.66' Projection to Bit from Last Survey MD: 8323' North 22.9' West 3.55' PBHL

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8732

RIG SERVICE

17:00 - 17:30

0.50

DRLPRV

07

RECEIVED: May. 06, 2014

<u> Sundry Number: 50762 API Well Number: 43047533450000</u> **US ROCKIES REGION Operation Summary Report** Spud Date: 10/19/2013 Well: NBU 921-20L1BS BLUE Project: UTAH-UINTAH Site: NBU 921-20L PAD Rig Name No: PROPETRO 12/12, SST 8/8 **Event: DRILLING** Start Date: 9/24/2013 End Date: 1/1/2014 UWI: NW/SW/0/9/S/21/E/20/0/0/26/PM/S/2410/W/0/79/0/0 Active Datum: RKB @4,842.00usft (above Mean Sea Date P/U Operation Time Duration Phase Code Sub MD From Start-End (hr) Code (usft) 17:30 - 0:00 6.50 **DRLPRV** 02 В Ρ 8732 DRILL SLIDE F/ 8732-9085' (353' @ 54' / HR) WEIGHT ON BIT 19-23 K. AVERAGE WOB 21K ROTARY RPM 60-70, MUD MOTOR RPM 114. STROKES PER MINUTE 130 GALLONS PER MINUTE 544 OFF/ON PSI 2300/2500 DIFFERENTIAL 200 TORQUE HIGH/LOW 18000/16000 OFF BOTTOM TORQUE 13000 STRING WEIGHT UP/DOWN/ROT 245/145/175 DRAG 65 K **BOS DEWATER AS NEEDED** WT 9 VIS 32. ///// DRILLING FLOWZAN //// PUMP LCM SWEEPS TO HELP WITH LOSSES. USED 17 BBL. FLUID FOR HOLE VOLUME 20 BARRELS LOSSES @ 2.5 BBL/HR 5-10' FLARE Bit Position @ Time of Report / REF PBHL 2013/12/29 North 22.12' East 2.73' 9,083' Start Time End Time Hours / Minutes Bit Position Update Start / Stop Times From 17:30 To 0:00 6:30 Actual On Bottom Drilling Time 6.17 6.50 Total Footage Drilled From 8732' To 9083' 351' Total Footage Drilled Rotating 351 Percent of Footage Rotated 100.00% Total Footage Drilled Sliding 0 Percent of Footage Sliding 0.00% Hours Total Time Rotate Drilling 6.17 Percent of Time Rotated 100.00% Total Time Slide Drilling 0.00 Percent of Time Sliding Connection / Ream / Rig Time / Circulating 0.33 Percent Non-Drilling Time 5.08% Last Survey MD: 8960' Inc 1.3 Azm 94.5 TVD 8864.61' Projection to Bit from Last Survey

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MD: 9083' North 22.12' East 2.73' PBHL

<u> Sundry Number: 50762 API Well Number: 43047533450000</u> **US ROCKIES REGION Operation Summary Report** Spud Date: 10/19/2013 Well: NBU 921-20L1BS BLUE Project: UTAH-UINTAH Site: NBU 921-20L PAD Rig Name No: PROPETRO 12/12, SST 8/8 **Event: DRILLING** End Date: 1/1/2014 Start Date: 9/24/2013 UWI: NW/SW/0/9/S/21/E/20/0/0/26/PM/S/2410/W/0/79/0/0 Active Datum: RKB @4,842.00usft (above Mean Sea P/U Date Time Duration Phase Code Sub MD From Operation Start-End (hr) Code (usft) 0:00 12/29/2013 - 6:00 6.00 **DRLPRV** 02 В Ρ 9085 DRILL SLIDE F/ 9085-9304' (219' @ 36.5' / HR) WEIGHT ON BIT 19-23 K. AVERAGE WOB 21K ROTARY RPM 60-70, MUD MOTOR RPM 114. STROKES PER MINUTE 130 GALLONS PER MINUTE 544 OFF/ON PSI 2300/2500 DIFFERENTIAL 200 TORQUE HIGH/LOW 18000/16000 OFF BOTTOM TORQUE 13000 STRING WEIGHT UP/DOWN/ROT 245/145/175 DRAG 65 K **BOS DEWATER AS NEEDED** WT 9 VIS 32. ///// DRILLING FLOWZAN //// PUMP LCM SWEEPS TO HELP WITH LOSSES. USED 17 BBL. FLUID FOR HOLE VOLUME 20 BARRELS LOSSES @ 2.5 BBL/HR 5-10' FLARE Bit Position @ Time of Report / REF PBHL 2013/12/29 North 19.22' East 6.61' 9,270' Start Time End Time Hours / Minutes Bit Position Update Start / Stop Times From 0:00 To 5:00 5:00 Actual On Bottom Drilling Time 4.83 5.00 Total Footage Drilled From 9083' To 9270' 187' Total Footage Drilled Rotating 175 Percent of Footage Rotated 93.58% Total Footage Drilled Sliding 12 Percent of Footage Sliding 6.42% Hours Total Time Rotate Drilling 3.33 Percent of Time Rotated 68.94% Total Time Slide Drilling 1.50 Percent of Time Sliding 31.06% Connection / Ream / Rig Time / Circulating 0.17 Percent Non-Drilling Time 3.40% Last Survey MD: 9151' Inc 1.3 Azm 104.2 TVD 9055.56' Projection to Bit from Last Survey

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MD: 9270' North 19.22' East 6.61' PBHL

<u> Sundry Number: 50762 API Well Number: 43047533450000</u> **US ROCKIES REGION Operation Summary Report** Well: NBU 921-20L1BS BLUE Spud Date: 10/19/2013 Project: UTAH-UINTAH Site: NBU 921-20L PAD Rig Name No: PROPETRO 12/12, SST 8/8 **Event: DRILLING** End Date: 1/1/2014 Start Date: 9/24/2013 UWI: NW/SW/0/9/S/21/E/20/0/0/26/PM/S/2410/W/0/79/0/0 Active Datum: RKB @4,842.00usft (above Mean Sea P/U Date Time Duration Phase Code Sub MD From Operation Start-End (hr) Code (usft) 6:00 - 15:30 9.50 **DRLPRV** 02 Ρ 9304 В DRILL SLIDE F/ 9304-9589' (285' @ 30' / HR) WEIGHT ON BIT 19-23 K. AVERAGE WOB 21K ROTARY RPM 60-70, MUD MOTOR RPM 114. STROKES PER MINUTE 130 GALLONS PER MINUTE 500 OFF/ON PSI 2300/2500 DIFFERENTIAL 200 TORQUE HIGH/LOW 18000/16000 OFF BOTTOM TORQUE 13000 STRING WEIGHT UP/DOWN/ROT 245/145/175 DRAG 65 K **BOS DEWATER AS NEEDED** WT 9 VIS 32. ///// DRILLING FLOWZAN //// PUMP LCM SWEEPS TO HELP WITH LOSSES. USED 17 BBL. FLUID FOR HOLE VOLUME 20 BARRELS LOSSES @ 2.5 BBL/HR 5-10' FLARE Bit Position @ Time of Report / REF PBHL 2013/12/29 North 10.62' East 8.31' 9,590' Start Time End Time Hours / Minutes Bit Position Update Start / Stop Times From 5:00 To 15:30 10:30 Actual On Bottom Drilling Time 10.17 10.50 Total Footage Drilled From 9270' To 9590' 320' Total Footage Drilled Rotating 307 Percent of Footage Rotated 95.94% Total Footage Drilled Sliding 13 Percent of Footage Sliding 4.06% Hours Total Time Rotate Drilling 8.67 Percent of Time Rotated 85.25% Total Time Slide Drilling 1.50 Percent of Time Sliding 14.75% Connection / Ream / Rig Time / Circulating 0.33 Percent Non-Drilling Time 3.14% Last Survey MD: 9436' Inc 1.5 Azm 173.8 TVD 9340.46' Projection to Bit from Last Survey MD: 9590' North 10.62' East 8.31' PBHL 15:30 - 20:30 5.00 **DRLPRV** 05 G Ρ 9589 TRANSFER 9.9 MUD TO UPRIGHTS / TRANSFER HEAVY MUD INTO MUD TANKS / DISPLACE 11 LB MUD / BIT PACKED OFF / LOST RETURNS/ WITH 10,2 MUD TO SURFACE 20:30 - 22:30 2.00 **DRLPRV** 9589 05 F Х WORK PIPE TO BREAK FREE OF PACK OFF / PULL 5 STANDS DRILL PIPE / PUMP SAP STICKS DOWN DRILL PIPE / ESTABLISH RETURNS 22:30 - 0:00 1.50 **DRLPRV** 05 С Ρ 9589 CIRCULATE FULL RETURNS / BUILD VOLUME IN MUD TANKS / BUILD DRY JOB 12/30/2013 0:00 - 1:00 1.00 **DRLPRV** 05 В 9589 FINISH DISPLACING MUD / BUILD VOLUME / CHECK FLOW / PUMP HEAVY PILL / BLOW DOWN TOP DRIVE

<u> Sundry Number: 50762 API Well Number: 43047533450000</u> **US ROCKIES REGION Operation Summary Report** Spud Date: 10/19/2013 Well: NBU 921-20L1BS BLUE Project: UTAH-UINTAH Site: NBU 921-20L PAD Rig Name No: PROPETRO 12/12, SST 8/8 **Event: DRILLING** End Date: 1/1/2014 Start Date: 9/24/2013 UWI: NW/SW/0/9/S/21/E/20/0/0/26/PM/S/2410/W/0/79/0/0 Active Datum: RKB @4,842.00usft (above Mean Sea Phase P/U Date Time Duration Code Sub MD From Operation Start-End (hr) Code (usft) 1:00 - 6:30 5.50 **DRLPRV** 06 Ρ 9589 Α TRIP OUT OF HOLE / WORK THROUGH TIGHT HOLE @ 5000' / PUMP THROUGH TIGHT HOLE / BLOW DOWN TOP DRIVE / TRIP OUT OF HOLE 6:30 - 7:00 DRLPRV 0.50 07 С Ζ 9589 RIG SERVICE / REPAIR HYDRAULIC LEAK ON TOP DRIVE 7:00 - 9:00 2.00 **DRLPRV** 06 Α Р 9589 TRIP OUT OF HOLE / BREAK OFF BIT / LAY DOWN **MOTOR** 9:00 - 16:00 7.00 **DRLPRV** 06 Ρ 9589 Α PICK UP MOTOR / MAKE UP BIT / SCRIBE MOTOR / PROGRAM MWD TOOL / TRIP IN HOLE / FILL PIPE @ 3000' & 6000' / WASH & REAM F/ 9134-9589' 16:00 - 0:00 9589 8.00 **DRLPRV** 02 В Ρ DRILL SLIDE F/ 9589-10020' (431' @ 54' / HR) WEIGHT ON BIT 18-22 K. AVERAGE WOB 20K ROTARY RPM 50-60, MUD MOTOR RPM 96 STROKES PER MINUTE 110 GALLONS PER MINUTE 460 OFF/ON PSI 2300/2500 DIFFERENTIAL 200 TORQUE HIGH/LOW 18000/16000 OFF BOTTOM TORQUE 13000 STRING WEIGHT UP/DOWN/ROT 245/145/175 DRAG 65 K **BOS DEWATER AS NEEDED** WT 11 VIS 34. ///// DRILLING FLOWZAN //// PUMP LCM SWEEPS TO HELP WITH LOSSES. USED 26 BBL. FLUID FOR HOLE VOLUME 16 BARRELS LOSSES @ 2 BBL/HR 0' FLARE Bit Position @ Time of Report / REF PBHL 2013/12/31 South 5.09' East 10.05' 10,020' Start Time End Time Hours / Minutes Bit Position Update Start / Stop Times From 0:00 To 23:59 23:59 Actual On Bottom Drilling Time 7.42 24.00 Total Footage Drilled From 9590' To 10020' 430' Total Footage Drilled Rotating 430 Percent of Footage Rotated 100.00% Total Footage Drilled Sliding 0 Percent of Footage Sliding 0.00% Hours Total Time Rotate Drilling 7.42 Percent of Time Rotated 100.00% Total Time Slide Drilling 0.00 Percent of Time Sliding Connection / Ream / Rig Time / Circulating 16.58 Percent Non-Drilling Time 69.08% Last Survey MD: 9912' Inc 2.1 Azm 169.9 TVD 9816.23' Projection to Bit from Last Survey MD: 10020' South 5.09' East 10.05' PBHL

<u> Sundry Number: 50762 API Well Number: 43047533450000</u> **US ROCKIES REGION Operation Summary Report** Well: NBU 921-20L1BS BLUE Spud Date: 10/19/2013 Project: UTAH-UINTAH Site: NBU 921-20L PAD Rig Name No: PROPETRO 12/12, SST 8/8 **Event: DRILLING** End Date: 1/1/2014 Start Date: 9/24/2013 UWI: NW/SW/0/9/S/21/E/20/0/0/26/PM/S/2410/W/0/79/0/0 Active Datum: RKB @4,842.00usft (above Mean Sea P/U Date Time Duration Phase Code Sub MD From Operation Start-End (hr) Code (usft) 12/31/2013 0:00 - 6:30 6.50 **DRLPRV** 02 Ρ 10,020 В DRILL SLIDE F/ 10020-10370' (350' @ ' / HR) WEIGHT ON BIT 18-22 K. AVERAGE WOB 20K ROTARY RPM 50-60, MUD MOTOR RPM 96 STROKES PER MINUTE 110 GALLONS PER MINUTE 460 OFF/ON PSI 2300/2500 DIFFERENTIAL 200 TORQUE HIGH/LOW 19000/16000 OFF BOTTOM TORQUE 13000 STRING WEIGHT UP/DOWN/ROT 245/145/175 DRAG 65 K **BOS DEWATER AS NEEDED** WT 11 VIS 34. ///// DRILLING FLOWZAN //// PUMP LCM SWEEPS TO HELP WITH LOSSES. USED 22 BBL. FLUID FOR HOLE VOLUME 14 BARRELS LOSSES @ 2 BBL/HR 5- 10' FLARE (CONNECTION GAS) Bit Position @ Time of Report / REF PBHL 2013/12/31 South 13.86' East 13.40' 10,370' Start Time End Time Hours / Minutes Bit Position Update Start / Stop Times From 5:00 To 6:30 1:30 Actual On Bottom Drilling Time 1.42 1.50 Total Footage Drilled From 10290' To 10370' 80' Total Footage Drilled Rotating 80 Percent of Footage Rotated 100.00% Total Footage Drilled Sliding 0 Percent of Footage Sliding 0.00% Hours Total Time Rotate Drilling 1.42 Percent of Time Rotated 100.00% Total Time Slide Drilling 0.00 Percent of Time Sliding 0.00% Connection / Ream / Rig Time / Circulating 0.08 Percent Non-Drilling Time 5.33% Last Survey MD: 10312' Inc 1.7 Azm 157.6 TVD 10216.04' Projection to Bit from Last Survey MD: 10370' South 13.86' East 13.40' PBHL DRLPRC 6:30 - 10:30 4 00 05 С Р 10,370 CIRCULATE TD SWEEP RAISE THE MUD WEIGHT TO 11.8 BUILD 70BBL 14 LB PILL 10:30 - 18:30 8.00 DRLPRC 06 Р 10,370 FLOW CHECK / BLOW DOWN THE TOP DRIVE PULLED 10 STANDS AND DID A FLOW CHECK NO FLOW / PUMPED THE 14# PILL TRIP OUT OF THE HOLE TO RUN CASING LAY DOWN DIRECTION TOOLS 18:30 - 19:00 0.50 **DRLPRC** Ρ 10,370 PULLED THE WEAR BUSHING 19:00 - 20:00 1.00 10,370 **CSGPRO** Р 12 RIG UP KIMSEY LAYDOWN MACHINE AND CASING **HOLD A SAFETY MEETING**

<u> Sundry Number: 50762 API Well Number: 43047533450000</u> US ROCKIES REGION **Operation Summary Report** Well: NBU 921-20L1BS BLUE Spud Date: 10/19/2013 Project: UTAH-UINTAH Site: NBU 921-20L PAD Rig Name No: PROPETRO 12/12, SST 8/8 **Event: DRILLING** End Date: 1/1/2014 Start Date: 9/24/2013 UWI: NW/SW/0/9/S/21/E/20/0/0/26/PM/S/2410/W/0/79/0/0 Active Datum: RKB @4,842.00usft (above Mean Sea P/U Date Time Duration Phase Code Sub MD From Operation Start-End (hr) Code (usft) 20:00 - 0:00 4.00 **CSGPRO** 12 Ρ 10,370 С START RUNNING CASING 234 TOTAL JTS. OF 4.5 CASING (119 JOINTS OF 4.5"/11.6# / HCP 110/ 8 RND LTC + 1 MARKER) + (113 JTS. OF 4.5"/ 11.6#/ HCP 110/ DQX) + (1-DQX CROSS OVER). LANDED @ 10347.49', FLOAT COLLAR @ 10300.13', MESA VERDE MARKER @ 8105.67', STAGE TOOL @ 5221.05', CROSS OVER JT. @ 5023.33'. /// 20 CENTRALIZERS TOTAL. 2 **CEMENT BASKETS** 1/1/2014 0:00 - 4:00 4.00 **CSGPRO** 12 10,370 FINISHED RUNNING 234 TOTAL JTS. OF 4.5 CASING (119 JOINTS OF 4.5"/11.6# / HCP 110/ 8 RND LTC + 1 MARKER) + (113 JTS. OF 4.5"/ 11.6#/ HCP 110/ DQX) + (1-DQX CROSS OVER). LANDED @ 10347.49', FLOAT COLLAR @ 10300.13', MESA VERDE MARKER @ 8105.67', STAGE TOOL @ 5221.05', CROSS OVER JT. @ 5023.33'. /// 20 CENTRALIZERS TOTAL. 2 CEMENT BASKETS 4:00 - 6:00 2.00 **CSGPRO** 10,370 05 D CIRCULATE THE CASING ON BOTTOM PUMP 856 STROKES / 650 PSI / 356 GPM 40 BARREL GAIN 40' FLARE ON BOTTOMS UP CIRCULATE THE GAS OUT 11.8 / MW 38 / VIS 6:00 - 8:30 2 50 **CSGPRO** Ε 10 370 12 PUMPED THE 1ST STAGE CEMENT JOB HELD SAFETY MEETING WITH RIG & BJ CEMENTING CREWS, MUD TRUCK DRIVER & WEATHERFORD DV TOOL HAND, TEST LINES TO 6000, 1st STAGE PUMP 25 BBLS WATER SPACER, 30% EXCESS, 268 BBLS / 1116 SACKS 14.3 PPG 1.32 YLD, 50/50 POZ +0.002 GPS FP-6L + .75 % BWOC SODIUM METASILICATE + 2% BWOC BENTONITE + .05% BWOC STATIC FREE + 10% BWOW SODIUM CHLORIDE + 0.55% R-3 58.7% FRESH WATER DISPLACE WITH 80 BBLS WATER & 80 BBLS DRILL MUD, BUMP PLUG @ 2100 PSI FINAL LIFT OF 1425, TEST FLOATS, FLOATS HELD WITH 1.5 BBL BACK TO TRUCK, DROP BOMB 25 MINS TO TAG WAITED 30MINS, OPEN DV TOOL 950 PSI, BREAK CIRC & TURN OVER TO RIG TO CIRC, 10 BBL. OF WATER SPACER TO THE PIT, CEMENT ESTIMATED 400' BELOW DV TOOL 8:30 - 12:30 4.00 **CSGPRO** D 10,370 05 CIRCULATED BETWEEN STAGES 380 GPM

4/28/2014 2:22:17PM 22

450 PSI

Sundry	Number: 5	50762	APT We		Iumbe	r: 4	30475334	150000
				U	S ROC	KIES RI	EGION	
				Opera	tion S	Summa	ry Report	
Well: NBU 921-2	0L1BS BLUE						Spud Date: 10/	19/2013
Project: UTAH-U	INTAH		Site: NBL	921-20L	PAD			Rig Name No: PROPETRO 12/12, SST 8/8
Event: DRILLING	3		Start Date	e: 9/24/20	13			End Date: 1/1/2014
Active Datum: RI Level)	KB @4,842.00usft (ab	oove Mean S	ea	UWI: N\	N/SW/0/	9/S/21/E/2	:0/0/0/26/PM/S/24	110/W/0/79/0/0
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	12:30 - 14:30 14:30 - 15:30	2.00	CSGPRO	12	Е	P	10,370	PUMP 2nd STAGE//,25 BBLS FRESH WATER, LEAD 250 BBLS/ 697 SACKS 12.5 PPG 2.01 YLD PREMIUM LITE + 0.05 #/SACK OF STATIC FREE + 2% BWOC CALCIUM CHLORIDE, 25 #/SACK CELLO FLAKE + 5 #/SACK KOL-SEAL +.4% BWOC FL52 +.4%BWOC SODIUM METASILICATE + 6% BWOC BENTONITE 101.2% FRESH WATER TAIL 12 BBLS 60 SACKS, 15.8 PPG 1.16 YLD "G"+.4%SMS+1%CaCl2 SHUT DOWN DROP CLOSING PLUG, DISPLACE WITH 80 BBLS CLAYCARE WATER, BUMP PLUG @ 2800 PSI, FINAL LIFT OF 789 PSI, BLEED OFF PSI TEST TOOL, 1.5 BBL BLED BACK OFF, 38 BBL. CEMENT TO PIT, R/D SET THE PACK OFF
	15:30 - 17:00	1.50	RDMO	14	A	P	10,370	NIPPLE DOWN THE BOP, CHOKE AND FLOWLINE RIG RELEASED @ 17:00

US ROCKIES REGION

General

1.1 Customer Information

Company	US ROCKIES REGION
Representative	
Address	

1.2 Well/Wellbore Information

	11.10.001.00.1001	14/cills M.	
Well	NBU 921-20L1BS BLUE	Wellbore No.	FO.
Well Name	NBU 921-20L1BS	Wellbore Name	NBU 921-20L1BS
Report No.	1	Report Date	3/31/2014
Project	UTAH-UINTAH	Site	NBU 921-20L PAD
Rig Name/No.		Event	COMPLETION
Start Date	2/17/2014	End Date	4/9/2014
Spud Date	10/19/2013	Active Datum	RKB @4,842.00usft (above Mean Sea Level)
UWI	NW/SW/0/9/S/21/E/20/0/0/26/PM/S/2410/W/0/79/0/0		

1.3 General

Contractor	<u>, </u>	Job Method	Supervisor	
Perforated Assembly	0	Conveyed Method		

Summary

1.5

1.4 Initial Conditions

Fluid Type		Fluid Density	Gross Interval	8,173.0 (usft)-10,231.0 (us Start Date/Time	Start Date/Time	3/31/2014 12:00AM
Surface Press		Estimate Res Press	No. of Intervals	70	70 End Date/Time	3/31/2014 12:00AM
TVD Fluid Top		Fluid Head	Total Shots	216	216 Net Perforation Interval	72.00 (usft)
Hydrostatic Press		Press Difference	Avg Shot Density	3.00 (shot/ft)	3.00 (shot/ft) Final Surface Pressure	
Balance Cond NEUTRAL	TRAL				Final Press Date	

2 Intervals

RECEIVED: May.

2.1 Perforated Interval

06,

2014

Misrun	_				
Reason			19.00 PRODUCTIO	z	
Charge	Weight	(gram)	19.00		
Charge Desc /Charge	Manufacturer				
Phasing	©		120.00		
	Size	(in)	3.125		
Carr Type /Stage No			J.410 EXP/		
Diamete	_	(ii)	0.410		
Misfires/	Add. Shot				
Shot	Density	(shot/ft)	3.00		
CCL-T MD Top MD Base	(nst)		8,174.0		
MD Top	(nstt)		8,173.0		
CCL-T	တ	(nstt)			
©CCL@	(nstt)				
Formation/	Reservoir		31/2014 MESAVERDE/		
Date			3/31/2014	12:00AM	

US ROCKIES REGION

2.1 Perforated Interval (Continued)

Misrun																					
Reason	19.00 PRODUCTIO N																				
Charge Weight (gram)	19.00	19.00	19.00	19.00	19.00	19.00	19.00	19.00	19.00	19.00	19.00	19.00	19.00	19.00	19.00	19.00	19.00	19.00	19.00	19.00	19.00
Charge Desc /Charge Manufacturer																					
Phasing (°)	120.00	120.00	120.00	120.00	120.00	120.00	120.00	120.00	120.00	120.00	120.00	120.00	120.00	120.00	120.00	120.00	120.00	120.00	120.00	120.00	120.00
Carr Size (in)	3.125	3.125	3.125	3.125	3.125	3.125	3.125	3.125	3.125	3.125	3.125	3.125	3.125	3.125	3.125	3.125	3.125	3.125	3.125	3.125	3.125
Carr Type /Stage No	/AX	XP/																			
Diamete r (in)	0.410 EXP/																				
Misfires/ Add. Shot																					
Shot Density (shot/ft)	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
MD Base (usft)	8,179.0	8,261.0	8,268.0	8,309.0	8,333.0	8,357.0	8,366.0	8,509.0	8,568.0	8,603.0	8,611.0	8,692.0	8,699.0	8,726.0	8,735.0	8,778.0	8,804.0	8,828.0	8,856.0	8,897.0	8,906.0
MD Top (usft)	8,178.0	8,260.0	8,267.0	8,308.0	8,332.0	8,356.0	8,365.0	8,508.0	8,567.0	8,602.0	8,610.0	8,691.0	8,698.0	8,725.0	8,734.0	8,777.0	8,803.0	8,827.0	8,855.0	8,896.0	8,905.0
CCL-T S (usft)																					
(nsft)																					
Formation/ Reservoir	MESAVERDE/																				
Date	3/31/2014 12:00AM	-																			

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	(nsft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diamete C	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
3/31/2014 12:00AM	MESAVERDE/			8,916.0	8,917.0	3.00		0.410 EXP/		3.125	120.00		19.00 P	19.00 PRODUCTIO N	
3/31/2014 12:00AM	MESAVERDE/			8,931.0	8,932.0	3.00		0.410 EXP/	/d	3.125	120.00		19.00 P	19.00 PRODUCTIO N	
3/31/2014 12:00AM	MESAVERDE/			9,005.0	9,006.0	3.00		0.410 EXP/	/d	3.125	120.00		19.00 P	19.00 PRODUCTIO N	
3/31/2014 12:00AM	MESAVERDE/			9,020.0	9,021.0	3.00		0.410 EXP/	/d.	3.125	120.00		19.00 P	19.00 PRODUCTIO N	
3/31/2014 12:00AM	MESAVERDE/			9,049.0	9,050.0	3.00		0.410 EXP/	/d	3.125	120.00		19.00 P	19.00 PRODUCTIO N	
3/31/2014 12:00AM	MESAVERDE/			9,094.0	9,095.0	3.00		0.410 EXP/	/d	3.125	120.00		19.00 PI	19.00 PRODUCTIO N	
3/31/2014 12:00AM	MESAVERDE/			9,130.0	9,131.0	3.00		0.410 EXP/	/d.	3.125	120.00		19.00 N	19.00 PRODUCTIO N	
3/31/2014 12:00AM	MESAVERDE/			9,154.0	9,155.0	3.00		0.410 EXP/	/d	3.125	120.00		19.00 P	19.00 PRODUCTIO N	
3/31/2014 12:00AM	MESAVERDE/			9,227.0	9,228.0	3.00		0.410 EXP/	/d.	3.125	120.00		19.00 P	19.00 PRODUCTIO N	
3/31/2014 12:00AM	MESAVERDE/			9,241.0	9,242.0	3.00		0.410 EXP/	/d.	3.125	120.00		19.00 P	19.00 PRODUCTIO N	
3/31/2014 12:00AM	MESAVERDE/			9,287.0	9,288.0	3.00		0.410 EXP/		3.125	120.00		19.00 P	19.00 PRODUCTIO N	
3/31/2014 12:00AM	MESAVERDE/			9,306.0	9,307.0	3.00		0.410 EXP/	/d	3.125	120.00		19.00 P	19.00 PRODUCTIO N	
3/31/2014 12:00AM	MESAVERDE/			9,326.0	9,327.0	3.00		0.410 EXP/	/d.	3.125	120.00		19.00 P	19.00 PRODUCTIO N	
3/31/2014 12:00AM	MESAVERDE/			9,356.0	9,357.0	3.00		0.410 EXP/	/d.	3.125	120.00		19.00 P	19.00 PRODUCTIO N	
3/31/2014 12:00AM	MESAVERDE/			9,371.0	9,372.0	3.00		0.410 EXP/	.b/	3.125	120.00		19.00 P	19.00 PRODUCTIO N	
3/31/2014 12:00AM	MESAVERDE/			9,396.0	9,397.0	3.00		0.410 EXP/	.p/	3.125	120.00		19.00 P	19.00 PRODUCTIO N	
3/31/2014 12:00AM	MESAVERDE/			9,425.0	9,426.0	3.00		0.410 EXP/	/d.	3.125	120.00		19.00 P	19.00 PRODUCTIO N	
3/31/2014 12:00AM	MESAVERDE/			9,433.0	9,434.0	3.00		0.410 EXP/	/d.	3.125	120.00		19.00 PI	19.00 PRODUCTIO N	
3/31/2014 12:00AM	MESAVERDE/			9,507.0	9,508.0	3.00		0.410 EXP/	.b/	3.125	120.00		19.00 P	19.00 PRODUCTIO N	
3/31/2014 12:00AM	MESAVERDE/			9,541.0	9,542.0	3.00		0.410 EXP/	.P/	3.125	120.00		19.00 P	19.00 PRODUCTIO N	
3/31/2014 12:00AM	MESAVERDE/			9,564.0	9,565.0	3.00		0.410 EXP/	/d.	3.125	120.00		19.00 P	19.00 PRODUCTIO N	

OpenWells

OpenWells

US ROCKIES REGION

Perforated Interval (Continued) 2.1

	Formation/ Reservoir	(nsft)	CCL-T S (usft)				Misfires/ Add. Shot	Diamete r (in)	Carr Type /Stage No		Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
31/2014 2:00AM	MESAVERDE/			9,598.0	9,599.0	3.00		0.410 EXP/	EXP/	3.125	120.00		19.00 P	19.00 PRODUCTIO N	
31/2014 2:00AM	MESAVERDE/			9,616.0	9,617.0	3.00		0.410 EXP/	EXP/	3.125	120.00		19.00 PI N	19.00 PRODUCTIO N	
31/2014 2:00AM	MESAVERDE/			9,644.0	9,645.0	3.00		0.410 EXP/	EXP/	3.125	120.00		19.00 PI	19.00 PRODUCTIO N	
31/2014 2:00AM	MESAVERDE/			9,674.0	9,676.0	3.00		0.410 EXP/	EXP/	3.125	120.00		19.00 PI	19.00 PRODUCTIO N	
31/2014 2:00AM	MESAVERDE/			9,713.0	9,714.0	3.00		0.410 EXP/	EXP/	3.125	120.00		19.00 PI	19.00 PRODUCTIO N	
	MESAVERDE/			9,721.0	9,722.0	3.00		0.410 EXP/	EXP/	3.125	120.00		19.00 PI	19.00 PRODUCTIO N	
31/2014	MESAVERDE/			9,746.0	9,747.0	3.00		0.410 EXP/	EXP/	3.125	120.00		19.00 PI	19.00 PRODUCTIO N	
	MESAVERDE/			9,786.0	9,787.0	3.00		0.410 EXP/	EXP/	3.125	120.00		19.00 PI	19.00 PRODUCTIO N	
31/2014	MESAVERDE/			9,836.0	9,838.0	3.00		0.410 EXP/	EXP/	3.125	120.00		19.00 PI	19.00 PRODUCTIO N	
31/2014	MESAVERDE/			9,854.0	9,855.0	3.00		0.410 EXP/	EXP/	3.125	120.00		19.00 P	19.00 PRODUCTIO N	
31/2014 2:00AM	MESAVERDE/			9,874.0	9,875.0	3.00		0.410 EXP/	EXP/	3.125	120.00		19.00 P	19.00 PRODUCTIO N	
31/2014 2:00AM	MESAVERDE/			9,903.0	9,904.0	3.00		0.410 EXP/	EXP/	3.125	120.00		19.00 PI	19.00 PRODUCTIO N	
31/2014 2:00AM	MESAVERDE/			9,925.0	9,926.0	3.00		0.410 EXP/	EXP/	3.125	120.00		19.00 PI N	19.00 PRODUCTIO N	
31/2014 2:00AM	MESAVERDE/			9,958.0	9,959.0	3.00		0.410 EXP/	EXP/	3.125	120.00		19.00 PI	19.00 PRODUCTIO N	
31/2014 2:00AM	MESAVERDE/			9,975.0	9,976.0	3.00		0.410 EXP/	EXP/	3.125	120.00		19.00 PI	19.00 PRODUCTIO N	
31/2014 2:00AM	MESAVERDE/			9,986.0	9,987.0	3.00		0.410 EXP/	EXP/	3.125	120.00		19.00 PI	19.00 PRODUCTIO N	
31/2014 2:00AM	MESAVERDE/			10,007.0	10,008.0	3.00		0.410 EXP/	EXP/	3.125	120.00		19.00 PI	19.00 PRODUCTIO N	
31/2014 2:00AM	MESAVERDE/			10,020.0	10,021.0	3.00		0.410 EXP/	EXP/	3.125	120.00		19.00 P	19.00 PRODUCTIO N	
31/2014 2:00AM	MESAVERDE/			10,034.0	10,035.0	3.00		0.410 EXP/	EXP/	3.125	120.00		19.00 PI	19.00 PRODUCTIO N	
	MESAVERDE/			10,073.0	10,074.0	3.00		0.410 EXP/	EXP/	3.125	120.00		19.00 PI	19.00 PRODUCTIO N	
'31/2014 2:00AM	MESAVERDE/			10,091.0	10,092.0	3.00		0.410 EXP/	EXP/	3.125	120.00		19.00 P	19.00 PRODUCTIO N	

April 28, 2014 at 2:27 pm 3/3/11 12:00 3/3/11 12:00 3/3/11 12:00 3/3/11 12:00 3/3/11 12:00 3/3/11 12:00 3/3/11 12:00 3/3/11 12:00 3/3/11 12:00 3/3/11 12:00 3/3/11 12:00 3/3/11 12:00 3/3/11 12:00 3/3/11 12:00 3/3/11 12:00 3/3/11 12:00 3/3/11 12:00

RECEIVED: May. 06, 2014

US ROCKIES REGION

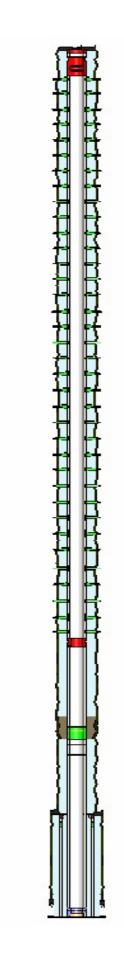
Perforated Interval (Continued)

2.1

⊆						· - -	
Misrun							
Reason		19.00 PRODUCTIO N					
Charge	(gram)	19.0	19.0	19.0	19.0	19.0	19.0
Charge Desc /Charge	Mailuiacturei						
Phasing		120.00	120.00	120.00	120.00	120.00	120.00
Carr	Size (in)	3.125	3.125	3.125	3.125	3.125	3.125
Carr Type /Stage No		EXP/	EXP/	EXP/	EXP/	EXP/	EXP/
Diamete	- (<u>i</u>)	0.410 EXP/					
Misfires/	Add. 31101						
		3.00	3.00	3.00	3.00	3.00	3.00
CCL-T MD Top MD Base Shot	(nsn)	10,100.0 10,101.0	10,108.0 10,109.0	10,136.0 10,137.0	10,212.0 10,213.0	10,220.0 10,221.0	10,230.0 10,231.0
MD Top	(nen)	10,100.0	10,108.0	10,136.0	10,212.0	10,220.0	10,230.0
Ö	(nsft)						
	(nsit)						
Formation/	Nesel VOII	3/31/2014 MESAVERDE/ 12:00AM					
Date		3/31/2014 12:00AM	3/31/2014 12:00AM	3/31/2014 12:00AM	3/31/2014 12:00AM	3/31/2014 12:00AM	3/31/2014 12:00AM

3 Plots

3.1 Wellbore Schematic



OpenWells

						KIES RE		
				Opera	tion S	summa	ry Report	
Well: NBU 921-2	OL1BS BLUE						Spud Date: 10	/19/2013
Project: UTAH-U	INTAH		Site: NBU	921-20L	PAD	_		Rig Name No: MILES 2/2
Event: COMPLE	TION		Start Date	e: 2/17/20	14			End Date: 4/9/2014
Active Datum: RI _evel)	KB @4,842.00usft (a	bove Mean S	ea	UWI: NV	N/SW/0/9	9/S/21/E/20)/0/0/26/PM/S/2	410/W/0/79/0/0
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
2/17/2014	11:30 - 17:30	6.00	SUBSPR	32	F	Р		RU IPS, CTU, RIH WITH 3 7/8" MILL, RIH TAGGED @ CEMENT @ 5,102 DRILLED OUT CENENT TO DV TOOL @ 5,221. DRILLED OUT DV TOOL IN 1 HR. CONTINUED IN HOLE TAGGED @ 10,300 ON FLOAT COLLAR @ 10,300', CIRC CLEAN WITH TMAC, POOH RD CTU, INSTALL WH SWIFN
2/24/2014	-							
3/4/2014	8:30 - 10:00	1.50	SUBSPR	52	В	Р		FILL SURFACE CSG. MIRU CAMERON QUICK TEST. PRESSURE TEST CSG 1ST PSI TEST T/ 7000 PSI. HELD FOR 15 MIN LOST -151 PSI. 2ND PSI TEST T/ 7000 PSI. HELD FOR 15 MIN LOST -110 PSI. NO COMMUNICATION OR MIGRATION WITH SURFACE CSG BLEED OFF PSI. PRESSURE TEST 8 5/8 X 4 1/2 TO 850 PSI HELD FOR
								2 MIN LOST -100 PSI, BLED PSI OFF, REINSTALLED POP OFF SWIFN NO PRESSURE ON SURFACE CASING SURFACE CSG WAS FULL
3/22/2014	9:00 - 10:00	1.00	SUBSPR	52	В	Р		FILL SURFACE CSG. MIRU CAMERON QUICK TEST. PRESSURE TEST CSG 1ST PSI TEST T/ 7000 PSI. HELD FOR 15 MIN LOST -151 PSI. 2ND PSI TEST T/ 7000 PSI. HELD FOR 15 MIN LOST -110 PSI. NO COMMUNICATION OR MIGRATION WITH SURFACE CSG BLEED OFF PSI. PRESSURE TEST 8 5/8 X 4 1/2 TO 850 PSI HELD FOR 5 MIN
3/31/2014	8:00 - 8:15	0.25	SUBSPR	48		P		LOST -100 PSI, BLED PSI OFF, REINSTALLED POP OFF SWIFN NO PRESSURE ON SURFACE CASING FILLED SURFACE WITH 1 BBL H2O HSM, RIGGING UP
0/0 //20 17	8:15 - 12:30	4.25	SUBSPR	37	В	P		MIRU CASED HOLE SOLUTIONS, 1ST SHOOT
						Р		MESAVERDE STG #1

4/28/2014 2:29:29PM

<u> Sundry Number: 50762 API Well Number: 43047533450000</u> **US ROCKIES REGION Operation Summary Report** Spud Date: 10/19/2013 Well: NBU 921-20L1BS BLUE Project: UTAH-UINTAH Site: NBU 921-20L PAD Rig Name No: MILES 2/2 **Event: COMPLETION** End Date: 4/9/2014 Start Date: 2/17/2014 UWI: NW/SW/0/9/S/21/E/20/0/0/26/PM/S/2410/W/0/79/0/0 Active Datum: RKB @4,842.00usft (above Mean Sea P/U Date Time Duration Phase Code Sub MD From Operation Start-End (hr) Code (usft) 6:30 - 18:00 11.50 **FRAC** 36 В Ρ REFER TO STIMULATION PJR FOR FLUID, SAND AND CHEMICAL VOLUMES, ALL STAGES WERE PERFORATED ACCORDING TO PERF RECORD IN OPEN WELLS, ALL STAGES WERE STIMULATED TO VENDOR POST JOB REPORT. ALL PLUGS ARE HALIBURTON 8K CBPS FRAC STG #1] WHP=1,930#, BRK DN PERFS=3,240#, @=4.1 BPM, INTIAL ISIP=2,880#, FG=.72, FINAL ISIP=3,180#, FG=.75, SET PLUG & PERFORATE STG #2 SWIFN. 4/2/2014 6:00 - 6:15 0.25 **FRAC** 48 HSM, HAMMER HANDLES 6:15 - 17:30 11.25 **FRAC** 36 В FRAC STG #2] WHP=2,210#, BRK DN PERFS=4,408#, @=6.7 BPM, INTIAL ISIP=3,295#, FG=.77, FINAL ISIP=3,190#, FG=.76, SET PLUG & PERFORATE STG #3 FRAC STG #3] WHP=3,100#, BRK DN PERFS=4,650#, @=4.1 BPM, INTIAL ISIP=3,462#, FG=.79, FINAL ISIP=3,319#, FG=.78, SET PLUG & PERFORATE STG #4 FRAC STG #4] WHP=2,219#, BRK DN PERFS=4,262#, @=6.8 BPM, INTIAL ISIP=3,101#, FG=.76, FINAL ISIP=3,074#, FG=.76, SWIFN. 6:30 - 6:45 4/3/2014 0.25 **FRAC** 48 HSM, PINCH POINTS 6:45 - 17:00 10.25 **FRAC** 36 В SET PLUG PERFORATE STG #5 FRAC STG #5] WHP=1,922#, BRK DN PERFS=3,430#, @=4.5 BPM, INTIAL ISIP=2,591#, FG=.72, FINAL ISIP=3,079#, FG=.77, SET PLUG AND PERFORATE STG #6 FRAC STG #6] WHP=2,309#, BRK DN PERFS=4,028#, @=6.7 BPM, INTIAL ISIP=2,856#, FG=.75, FINAL ISIP=2,856#, FG=.79, SET PLUG AND PERFORATE STG #7 SWIFN.

4/28/2014 2:29:29PM 2

Ρ

4/4/2014

6:15 - 6:30

0.25

FRAC

48

HSM, WATCHING FOR LEAKS

<u> Sundry Number: 50762 API Well Number: 43047533450000</u> US ROCKIES REGION **Operation Summary Report** Well: NBU 921-20L1BS BLUE Spud Date: 10/19/2013 Project: UTAH-UINTAH Site: NBU 921-20L PAD Rig Name No: MILES 2/2 **Event: COMPLETION** End Date: 4/9/2014 Start Date: 2/17/2014 UWI: NW/SW/0/9/S/21/E/20/0/0/26/PM/S/2410/W/0/79/0/0 Active Datum: RKB @4,842.00usft (above Mean Sea P/U Date Time Duration Phase Code Sub MD From Operation Start-End (hr) Code (usft) 6:30 - 18:00 11.50 **FRAC** 36 Ρ В FRAC STG #7] WHP=2,033#, BRK DN PERFS=4,585#, @=6.6 BPM, INTIAL ISIP=2,727#, FG=.75, FINAL ISIP=3,101#, FG=.79, SET PLUUG AND PERFORATE STG #8 FRAC STG #8] WHP=1,986#, BRK DN PERFS=2,813#, @=4.4 BPM, INTIAL ISIP=2,092#, FG=.68, FINAL ISIP=2,915#, FG=.78, SET PLUG AND PERFORATE STG #9 [HAD MISSFIRE, PLUG DID NOT SET POOH TO FIX PROBLEM] **SWIFN** 6:45 - 7:00 4/5/2014 0.25 **FRAC** 48 Р HSM, RIGGING DOWN Р 7:00 - 7:00 0.00 **FRAC** 36 В FRAC STG #9] WHP=1,978#, BRK DN PERFS=3,092#, @=5.1 BPM, INTIAL ISIP=2,140#, FG=.70, FINAL ISIP=2,723#, FG=.77, SET TOP KILL TOTAL BBLS=13,031 TOTAL SAND=267,916# 4/8/2014 7:00 - 7:15 0.25 DRLOUT Ρ HSM, SLIPS, TRIPS & FALLS, D/O CBPS 7:15 - 14:00 6 75 DRI OUT 31 Р ROAD RIG FROM CIGE 114, SPOT RIG, (4/7/14), RU, ND WH, NU BOP, RU FLOOR & TBG EQUIP, PU 3 7/8" BIT, POBS, 1.875" XN S/N, TALLY & PU TBG TO KILL PLUG, RU P/S & INSTAL W/R, FILL TBG & BREAK CIRC, PT BOP TO 3000 PSI GOOD, 14:00 - 17:00 3.00 DRLOUT С Р D/O CBP'S THRU BJD & HAL 9000'S C/O 0' SAND, TAG 1ST PLUG @ 8113', KICK 900 PSI, CSG PRESS 0 PSI, RIH C/O 30' SAND, TAG 2ND PLUG @ 8396', KICK 1000 PSI, CSG PRESS 150 PSI, RIH C/O 30' SAND, TAG 3RD PLUG @ 8750', KICK 1200 PSI, CSG PRESS 300 PSI, RIH C/O 30' SAND, TAG 4TH PLUG @ 8947', KICK 1200 PSI, CSG PRESS 250 PSI, RIH C/O 30' SAND, TAG 5TH PLUG @ 9257', KICK 1000 PSI, CSG PRESS 300 PSI, RIH C/O 30' SAND, TAG 6TH PLUG @ 9449', KICK 1300 PSI, CSG PRESS 300 PSI, LET WELL CLEAN UP, SWI & LOCK RAMS, SDFN. 7:00 - 7:15 4/9/2014 0.25 DRLOUT 48 Р HSM, SLIPS, TRIPS & FALLS, BLEEDING OFF PRESS, LANDING TBG

4/28/2014 2:29:29PM 3

<u> Sundry Number: 50762 API Well Number: 43047533450000</u> US ROCKIES REGION **Operation Summary Report** Spud Date: 10/19/2013 Well: NBU 921-20L1BS BLUE Project: UTAH-UINTAH Site: NBU 921-20L PAD Rig Name No: MILES 2/2 **Event: COMPLETION** End Date: 4/9/2014 Start Date: 2/17/2014 UWI: NW/SW/0/9/S/21/E/20/0/0/26/PM/S/2410/W/0/79/0/0 Active Datum: RKB @4,842.00usft (above Mean Sea P/U Date Time Duration Phase Code Sub MD From Operation Start-End (hr) Code (usft) 7:15 - 12:00 4.75 DRLOUT 44 Ρ С 1 OF 6. SICP 2600 PSI, OPEN & BLEED OFF THRU BJD, SURFACE CSG VALVE OPEN & LOCKED, D/O 3 CBP'S THRU BJD & HAL 9000 C/O 20' SAND, TAG 7TH PLUG @ 9691', KICK 900 PSI, CSG PRESS 400 PSI, RIH C/O 20' SAND, TAG 8TH PLUG @ 9890', KICK 1200 PSI, CSG PRESS 450 PSI, RIH C/O 30' SAND, TAG 9TH PLUG @ 10050', KICK 900 PSI, CSG PRESS 500 PSI, PBTD @ 10300', BTM PERF @ 10231', RIH TAGGED @ 10235', C/O TO 10300' PBTD, 69' PAST BTM PERF W/ 325 JTS 2 3/8" J-55 & L-80 TBG, LD 14 JTS ((WET)), PU & STRIP IN TBG HANGER & LAND TBG W/ 311 JTS 2 3/8" TBG, EOT 9863.29'. NOTE: D/O THRU BJD & (2) HAL 9000, SOLD THRU 2 **SEPERATORS** NBU 921-20L1BS SOLD 215 MCF NBU 921-20E1BS SOLD 159 MCF, TOTAL GAS SOLD 374 MCF. RD P/S, FLOOR & TBG EQUIP, ND BOPS, NU WH, DROP BALL & SHEAR OFF BIT, P/T LINE FROM WH TO HAL 9000 TO 3,000 PSI, NO VISIBLE LEAKS. TURN OVER TO FLOW BACK CREW & SALES, RD & MOVE TO NEXT WELL ON PAD. KB= 24' 4 1/16" CAMERON HANGER= .83' TBG DELIVERED 212 JTS L-80 **TBG** 161 JTS 2 3/8" L-80= 5085.98' **DELIVERED 150 JTS J-55** 1 - 6' PUP JT L-80= 6.20' TOTAL TBG= 362 JTS J-55 & L-80 150 JTS 2 3/8" J-55 = 4,744.08' TBG USED 311 JTS POBS= 2.20' TBG RETURNED 0 JTS L-80 EOT @ 9,863.29' KEPT 51 JTS L-80 TWTR= 13031 BBLS TWR= 4000 BBLS TWLTR= 9031 BBLS 12:00 - 12:00 0.00 DRLOUT 50 WELL TURNED TO SALES @ 15:00 HR ON 4/8/2014. 700 MCFD, 0BWPD, FCP 250#, FTP 0#, 0 CHOKE.

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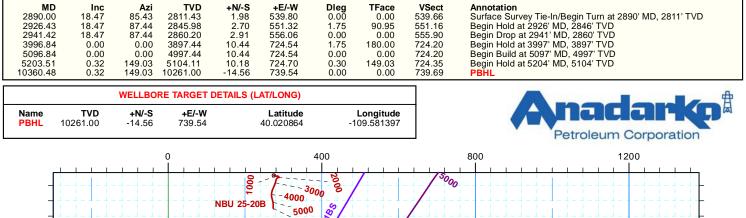
Project: Uintah Co., UT (UTM) Site: Sec 20-T9S-R21E Well: NBU 921-20L1BS Wellbore: Original Hole Surveys Rig: SST 8

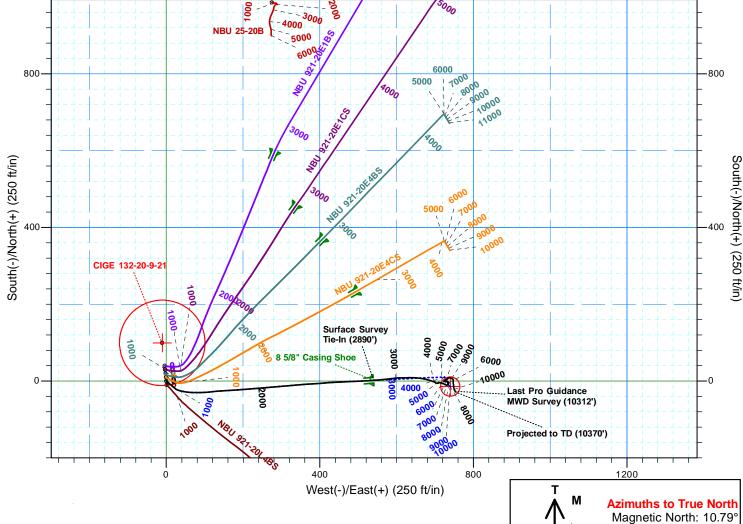
Surface Location: SHL 2410' FSL & 79' FWL Sec 20-T9S-R21E

Universal Transverse Mercator (US Survey Feet) NAD 1927 (NADCON CONUS) Zone 12N (114 W to 108 W) 4818' GL + 24' KB @ 4842.00ft (SST 8)

Northing 14536806.74 Easting 2036854.71 Longitude -109.584038 Latittude 40.020904

	SECTION DETAILS Plan 1											
MD 2890.00	Inc 18.47	Azi 85.43	TVD 2811.43	+N/-S 1.98	+E/-W 539.80	Dleg 0.00	TFace 0.00	VSect 539.66	Annotation Surface Survey Tie-In/Begin Turn at 2890' MD, 2811' TVD			
2926.43	18.47	87.44	2845.98	2.70	551.32	1.75	90.95	551.16	Begin Hold at 2926' MD, 2846' TVD			
2941.42	18.47	87.44	2860.20	2.91	556.06	0.00	0.00	555.90	Begin Drop at 2941' MD, 2860' TVD			
3996.84	0.00	0.00	3897.44	10.44	724.54	1.75	180.00	724.20	Begin Hold at 3997' MD, 3897' TVD			
5096.84	0.00	0.00	4997.44	10.44	724.54	0.00	0.00	724.20	Begin Build at 5097' MD, 4997' TVD			
5203.51	0.32	149.03	5104.11	10.18	724.70	0.30	149.03	724.35	Begin Hold at 5204' MD, 5104' TVD			
10360.48	0.32	149.03	10261.00	-14.56	739.54	0.00	0.00	739.69	PBHL			





Azimuth Corrections

To convert a Magnetic Direction to a True Direction, Add 10.79° East To convert a True Direction to a Grid Direction, Subtract 0.91° To convert a Magnetic Direction to a Grid Direction, Add 9.88°

Date: 11:52, January 02 2014 Created By: Bob Hays

Magnetic North: 10.79°

Magnetic Field Strength: 52080.0snT Dip Angle: 65.80° Date: 12/20/2013 Model: IGRF2010

Anadarko Petroleum Corporation

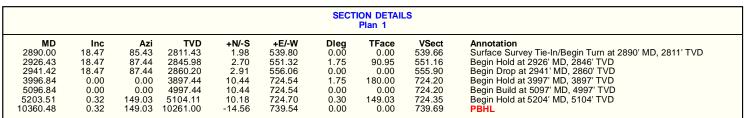


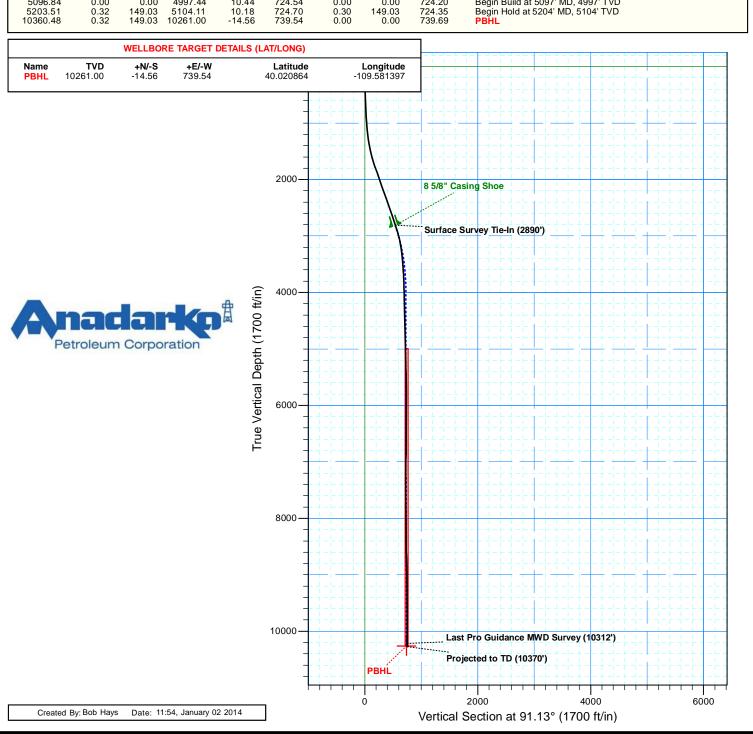
Project: Uintah Co., UT (UTM) Site: Sec 20-T9S-R21E Well: NBU 921-20L1BS Wellbore: Original Hole Surveys Rig: SST 8

Surface Location: SHL 2410' FSL & 79' FWL Sec 20-T9S-R21E

Universal Transverse Mercator (US Survey Feet)
NAD 1927 (NADCON CONUS)
Zone 12N (114 W to 108 W)
Elevation: 4818' GL + 24' KB @ 4842.00ft (SST 8)

Northing 14536806.74 **Easting** 2036854.71 Latittude 40.020904 **Longitude** -109.584038







Anadarko Petroleum Corporation

Uintah Co., UT (UTM) Sec 20-T9S-R21E NBU 921-20L1BS

Original Hole

Design: Surveys

Standard Survey Report

02 January, 2014





Professional Directional LTD

Survey Report



Company: Anadarko Petroleum Corporation

Project: Uintah Co., UT (UTM)
Site: Sec 20-T9S-R21E
Well: NBU 921-20L1BS
Wellbore: Original Hole

Design:

Geo Datum: Map Zone:

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Well NBU 921-20L1BS

4818' GL + 24' KB @ 4842.00ft (SST 8) 4818' GL + 24' KB @ 4842.00ft (SST 8)

True

Survey Calculation Method: Minimum Curvature

Database: EDM 5000.1 Single User Db

Project Uintah Co., UT (UTM)

Surveys

Map System: Universal Transverse Mercator (US Survey Fee System Datum:

NAD 1927 (NADCON CONUS) Zone 12N (114 W to 108 W) Mean Sea Level

Site Sec 20-T9S-R21E

Northing: 14,536,796.93 usft Site Position: Latitude: 40.020877 Easting: 2,036,855.98 usft Longitude: From: Lat/Long -109.584034 0.00 ft **Slot Radius:** 13.200 in **Grid Convergence:** 0.91° **Position Uncertainty:**

Well NBU 921-20L1BS

Well Position 0.00 ft +N/-S Northing: 14,536,806.75 usft Latitude: 40.020904 +E/-W 0.00 ft Easting: 2,036,854.70 usft Longitude: -109.584038 0.00 ft Wellhead Elevation: 0.00 ft **Ground Level:** 4,818.00 ft **Position Uncertainty**

Wellbore Original Hole

 Magnetics
 Model Name
 Sample Date
 Declination (°)
 Dip Angle (nT)
 Field Strength (nT)

 IGRF2010
 12/20/13
 10.79
 65.80
 52,080

Date 01/02/14 **Survey Program** From То (ft) (ft) Survey (Wellbore) **Tool Name** Description MWD MWD 139.00 2,890.00 Surface Surveys (Original Hole) 2,960.00 10,312.00 Pro Guidance MWD Surveys (Original Hol MWD MWD 10,370.00 10,370.00 Projected to TD (Original Hole) Projection Projection

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
139.00	0.44	2.02	139.00	0.53	0.02	0.01	0.32	0.32	0.00
195.00	0.26	176.75	195.00	0.62	0.03	0.02	1.25	-0.32	312.02
276.00	0.58	147.35	276.00	0.09	0.27	0.26	0.46	0.40	-36.30
362.00	1.69	132.18	361.98	-1.13	1.44	1.46	1.33	1.29	-17.64
452.00	3.33	129.45	451.89	-3.68	4.44	4.51	1.83	1.82	-3.03
542.00	3.45	132.53	541.73	-7.17	8.46	8.60	0.24	0.13	3.42
632.00	3.43	129.81	631.57	-10.72	12.52	12.73	0.18	-0.02	-3.02
722.00	3.34	132.45	721.41	-14.22	16.52	16.80	0.20	-0.10	2.93
812.00	3.59	132.88	811.25	-17.90	20.52	20.87	0.28	0.28	0.48
902.00	4.04	118.56	901.05	-21.34	25.37	25.79	1.17	0.50	-15.91
992.00	4.48	108.28	990.80	-23.95	31.49	31.96	0.98	0.49	-11.42
1,082.00	5.43	103.91	1,080.47	-26.08	38.96	39.47	1.14	1.06	-4.86
1,172.00	6.60	100.72	1,169.97	-28.07	48.18	48.72	1.35	1.30	-3.54
1,262.00	8.00	95.54	1,259.24	-29.63	59.50	60.07	1.72	1.56	-5.76

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Professional Directional LTD

Survey Report

TVD Reference:

MD Reference:

Local Co-ordinate Reference:



Company: Anadarko Petroleum Corporation

Project: Uintah Co., UT (UTM)
Site: Sec 20-T9S-R21E
Well: NBU 921-20L1BS
Wellbore: Original Hole

North Reference: Survey Calculation Method: Well NBU 921-20L1BS

4818' GL + 24' KB @ 4842.00ft (SST 8) 4818' GL + 24' KB @ 4842.00ft (SST 8)

True

Minimum Curvature

/ellbore: Original Hole esign: Surveys				Database	Calculation M e:	lethod:	Minimum Curvature EDM 5000.1 Single User Db				
urvey											
Measure Depth (ft)	d Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)		
1,352.	00 9.41	90.97	1,348.20	-30.36	73.09	73.67		1.57	-5.08		
1,442.		87.54	1,436.75	-30.11	89.15	89.73		1.96	-3.81		
1,532.		85.34	1,524.72	-28.90	108.10	108.65		2.24	-2.44		
1,622.		85.78	1,611.93	-27.19	130.25	130.76		2.44	0.49		
1,712.	00 17.85	85.96	1,698.16	-25.34	155.92	156.39	2.73	2.73	0.20		
1,802.		85.64	1,783.40	-23.22	184.73	185.16	1.95	1.94	-0.36		
1,892.		85.60	1,868.32	-20.94	214.45	214.82		-0.58	-0.04		
1,982.		85.25	1,953.37	-18.60	243.78	244.10		0.00	-0.39		
2,072.		85.24	2,038.30	-16.13	273.47	273.73		0.56	-0.01		
2,162.	00 20.49	84.37	2,122.85	-13.33	304.17	304.38	1.06	1.01	-0.97		
2,252.		85.31	2,207.56	-10.59	334.45	334.59	1.69	-1.66	1.04		
2,342.		85.80	2,292.60	-8.31	363.81	363.90	0.28	0.22	0.54		
2,432.		86.57	2,377.44	-6.31	393.78	393.83		0.66	0.86		
2,522.		87.01	2,462.38	-4.64	423.49	423.50		-1.08	0.49		
2,612.	00 19.52	85.96	2,547.39	-2.83	452.98	452.95	0.87	0.78	-1.17		
2,702.	00 17.85	87.44	2,632.65	-1.15	481.76	481.69	1.93	-1.86	1.64		
2,792.	00 17.85	87.45	2,718.31	0.08	509.32	509.22	0.00	0.00	0.01		
2,890.	00 18.47	85.43	2,811.43	1.98	539.80	539.66	0.90	0.63	-2.06		
Surface	Survey Tie-In (2	890')									
2,960.		84.40	2,877.88	3.93	561.74	561.55	0.60	-0.39	-1.47		
3,056.	00 15.30	83.30	2,969.80	6.88	589.24	588.99	3.04	-3.02	-1.15		
3,151.	00 13.50	89.50	3,061.81	8.44	612.78	612.50	2.49	-1.89	6.53		
3,246.	00 9.20	87.20	3,154.93	8.90	631.46	631.17	4.55	-4.53	-2.42		
3,341.	00 8.40	96.10	3,248.82	8.54	645.95	645.66	1.66	-0.84	9.37		
3,437.	00 7.10	96.30	3,343.94	7.14	658.82	658.55	1.35	-1.35	0.21		
3,532.	00 5.50	98.60	3,438.36	5.82	669.16	668.91	1.70	-1.68	2.42		
3,627.	00 4.60	103.80	3,532.99	4.23	677.36	677.14	1.06	-0.95	5.47		
3,722.		105.50	3,627.76	2.56	683.77	683.59	1.27	-1.26	1.79		
3,817.		114.00	3,722.64	1.00	688.30	688.15	1.14	-1.05	8.95		
3,913.		108.60	3,818.56	-0.40	691.89	691.76	0.31	-0.21	-5.63		
4,008.	00 1.40	118.50	3,913.51	-1.54	694.64	694.53	0.90	-0.84	10.42		
4,103.	00 1.60	90.50	4,008.48	-2.10	696.98	696.89	0.79	0.21	-29.47		
4,198.		121.30	4,103.45	-2.76	699.37	699.29	0.87	-0.11	32.42		
4,294.		142.40	4,199.41	-4.67	701.42	701.37		0.42	21.98		
4,389.		93.10	4,294.36	-6.00	703.87	703.85	1.63	-0.11	-51.89		
4,484.	00 1.10	84.40	4,389.33	-5.99	706.26	706.24		-0.74	-9.16		
4,579.	00 0.50	86.20	4,484.32	-5.88	707.58	707.56	0.63	-0.63	1.89		
4,675.		66.30	4,580.31	-5.41	709.00	708.97		0.83	-20.73		
4,770.		71.20	4,675.29	-4.69	710.85	710.80		-0.21	5.16		
4,865.		108.20	4,770.28	-4.57	712.26	712.22		-0.42	38.95		
4,960.		96.00	4,865.26	-4.90	714.22	714.17	1.08	1.05	-12.84		
	00 1.90	101.90	4,960.21	-5.37	717.16	717.13	0.29	0.21	6.21		
5 055			T. 000.4								
5,055. 5,151.		113.30	5,056.16	-6.30	720.10	720.09	0.40	-0.10	11.88		

RECEIVED: May. 06, 2014



Professional Directional LTD

Survey Report



Anadarko Petroleum Corporation Company:

Project: Uintah Co., UT (UTM) Site: Sec 20-T9S-R21E Well: NBU 921-20L1BS Original Hole

7,722.00

7,817.00

7.912.00

8.008.00

8,103.00

8,198.00

8,293.00

8,389.00

8,484.00

8,579.00

8,674.00

8,770.00

8,865.00

8,960.00

9,055.00

9,151.00

9,246.00

9,341.00

0.30

1.20

1.30

1.20

0.80

1.00

0.70

0.60

1.10

1.00

1.10

0.90

1.00

1.30

1.30

1.30

1.50

1.80

114.50

44.30

46.00

43.40

63.30

55.80

46.80

78.40

45.70

40.20

82.60

88.00

98.40

94.50

125.30

104.20

150.50

179.20

7,626.79

7,721.79

7.816.76

7.912.74

8,007.73

8,102.71

8,197.70

8,293.70

8,388.69

8,483.67

8,578.66

8,674.64

8,769.63

8,864.61

8,959.59

9,055.56

9,150.54

9,245.50

-1.67

-1.06

0.40

1.89

2.91

3.67

4.53

5.04

5.77

7.04

7.79

7.94

7.84

7.64

6.93

6.03

4.69

2.11

723.60

724.52

725.99

727.46

728.74

730.02

731.13

732.05

733.19

734.37

735.81

737.48

739.05

740.94

742.90

744.84

746.50

747.13

723.49

724.40

725.84

727.29

728.54

729.80

730.90

731.81

732.93

734.09

735.52

737.18

738.75

740.65

742.62

744.58

746.26

746.94

0.95

1.19

0.11

0.12

0.55

0.24

0.34

0.38

0.71

0.15

0.81

0.23

0.21

0.33

0.73

0.50

1.17

0.91

-0.53

0.95

0.11

-0.10

-0.42

0.21

-0.32

-0.10

0.53

-0.11

0.11

-0.21

0.11

0.32

0.00

0.00

0.21

0.32

-104.42

-73.89

1.79

-2.71

20.95

-7.89

-9.47

32.92

-34.42

-5.79

44.63

5.63

10.95

-4.11

32.42

-21.98

48.74

30.21

Local Co-ordinate Reference: **TVD Reference: MD Reference:** North Reference:

Well NBU 921-20L1BS 4818' GL + 24' KB @ 4842.00ft (SST 8)

4818' GL + 24' KB @ 4842.00ft (SST 8)

Wellbore: Minimum Curvature **Survey Calculation Method:** Design: Surveys Database: EDM 5000.1 Single User Db Survey Measured Vertical Vertical Dogleg Build Turn Depth Inclination Azimuth Depth +N/-S +E/-W Section Rate Rate Rate (°/100ft) (°/100ft) (ft) (ft) (ft) (°/100ft) (ft) (ft) (°) (°) 5,341.00 1.80 117.20 5,246.07 -8.94 725.45 725.48 0.01 0.00 -0.21 124.30 727.94 5,436.00 1.70 5,341.02 -10.42 728.00 0.25 -0.11 7.47 730.67 5,531.00 1.90 85.30 5,435.98 -11.08 730.75 1.28 0.21 -41.05 5,626.00 1.30 61.60 5,530.94 -10.44733.19 733.25 0.93 -0.63-24.955,722.00 1.40 13.00 5,626.92 -8.78 734.41 734.44 1.16 0.10 -50.63734.92 5,817.00 1.10 16.10 5,721.90 -6.78 734.93 0.32 -0.323.26 5,912.00 0.40 16.40 5,816.89 -5.58 735.27 735.24 0.74 -0.74 0.32 6,007.00 0.30 16.30 5,911.89 -5.02 735.44 735.39 0.11 -0.11 -0.11 6,103.00 0.40 10.10 6,007.88 -4.45 735.57 735.51 0.11 0.10 -6.46 325.40 6,102.88 -4.06 735.58 735.51 0.35 -0.32-47.05 6,198.00 0.10 61.70 6,197.88 735.61 0.25 0.11 101.37 6,293.00 0.20 -3.91735.68 6,388.00 294.80 6,292.88 734.99 0.84 -133.58 1.00 -3.49735.07 1.19 0.80 295.60 -2.84 733.70 733.62 0.21 -0.21 6,484.00 6,388.87 0.83 0.40 298.90 -2.40 732.82 732.72 0.42 -0.42 6,579.00 6,483.86 3.47 6,674.00 0.40 293.90 6,578.86 -2.10 732.22 732.12 0.04 0.00 -5.26 6,769.00 0.30 212.90 6,673.86 -2.18731.78 731.68 0.49 -0.11 -85.26 6,864.00 0.20 206.30 6,768.86 -2.54731.58 731.48 0.11 -0.11 -6.95 6,960.00 1.10 302.50 6,864.85 -2.19 730.72 730.63 1.19 0.94 100.21 300.80 6,959.83 -1.28 729.24 729.13 0.11 -0.11 -1.79 7,055.00 1.00 0.80 305.80 7,054.82 -0.46 727.99 727.86 0.23 -0.21 5.26 7,150.00 7,246.00 0.60 293.70 7,150.82 0.13 726.99 726.85 0.26 -0.21 -12.60 7,341.00 0.70 253.60 7,245.81 0.17 725.98 725.83 0.48 0.11 -42.21 7,436.00 0.40 275.00 7,340.81 0.03 725.09 724.95 0.38 -0.32 22.53 7,532.00 0.50 230.90 7,436.80 -0.20 724.43 724.29 0.36 0.10 -45.94 7,627.00 0.80 213.70 7,531.80 -1.02 723.74 723.62 0.37 0.32 -18.11

RECEIVED: May. 06, 2014



Professional Directional LTD

Survey Report



Anadarko Petroleum Corporation Company:

Project: Uintah Co., UT (UTM) Site: Sec 20-T9S-R21E Well: NBU 921-20L1BS Original Hole Wellbore:

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference: **Survey Calculation Method:**

Database:

Well NBU 921-20L1BS

4818' GL + 24' KB @ 4842.00ft (SST 8) 4818' GL + 24' KB @ 4842.00ft (SST 8)

Minimum Curvature

EDM 5000.1 Single User Db

Surveys

Design:

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
9,436.00	1.50	173.80	9,340.46	-0.62	747.29	747.15	0.36	-0.32	-5.68
9,531.00	1.90	178.50	9,435.42	-3.43	747.46	747.38	0.45	0.42	4.95
9,626.00	1.70	172.00	9,530.37	-6.40	747.70	747.68	0.30	-0.21	-6.84
9,722.00	1.90	177.90	9,626.32	-9.40	747.95	747.99	0.28	0.21	6.15
9,817.00	1.60	178.50	9,721.28	-12.30	748.05	748.14	0.32	-0.32	0.63
9,912.00	2.10	169.90	9,816.23	-15.33	748.39	748.54	0.60	0.53	-9.05
10,008.00	2.00	168.70	9,912.17	-18.71	749.02	749.25	0.11	-0.10	-1.25
10,103.00	1.60	162.30	10,007.12	-21.60	749.75	750.03	0.47	-0.42	-6.74
10,198.00	1.60	147.20	10,102.08	-23.98	750.87	751.20	0.44	0.00	-15.89
10,293.00	1.60	158.40	10,197.05	-26.32	752.08	752.45	0.33	0.00	11.79
10,312.00	1.70	157.60	10,216.04	-26.83	752.29	752.67	0.54	0.53	-4.21
Last Pro G	uidance MWD	Survey (1031	12')						
10,370.00	1.70	157.60	10,274.01	-28.42	752.94	753.35	0.00	0.00	0.00
Projected to	to TD (10370')								

Design Annotations				
Measured	Vertical	Local Coo	rdinates	
Depth (ft)	Depth (ft)	+N/-S (ft)	+E/-W (ft)	Comment
2,890.00	2,811.43	1.98	539.80	Surface Survey Tie-In (2890')
10,312.00	10,216.04	-26.83	752.29	Last Pro Guidance MWD Survey (10312')
10,370.00	10,274.01	-28.42	752.94	Projected to TD (10370')

RECEIVED: May. 06, 2014

6/30/2020

Effective Date.	0/30/2020	
FORMER OPERATOR:	NEW OPERATOR:	
Kerr-McGee Oil and Gas Onshore, L.P.	Caerus Uinta, LLC	
Groups: 10/0/2020 cant list to appreture to ravi		

WELL INFORMATION:

Well Name	API Number	Town	Dir	Range	Dir	Sec	Entity Number	Туре	Status
See Attached list									

See operator file

Total Well Count:

11/10/2020

OPERATOR CHANGES DOCUMENTATION:

1. Sundry or legal documentation was received from the FORMER operator on:

8/11/2020 8/11/2020

10/16/2020

2. Sundry or legal documentation was received from the NEW operator on:

3. New operator Division of Corporations Business Number:

11801118-0161

Receipt of Acceptance of Drilling Procedures for APD on: Reports current for Production/Disposition & Sundries:

OPS/SI/TA well(s) reviewed for full cost bonding: Approved by Dustin UIC5 on all disposal/injection/storage well(s) Approved on: Approved by Dayne

Surface Facility(s) included in operator change:

11/10/2020 11/9/2020

10/16/2020

East Bench

Archie Bench Bonanza Bridge **Goat Pasture**

Goat Pasture Manifold

Morgan State 921-36P **Morgan States**

NBU 1022-14B NBU 921-25A NBU 922-29J NBU 922-32N

Pipeline Sage Grouse Sand Wash

NEW OPERATOR BOND VERIFICATION:

State/fee well(s) covered by Bond Number(s):

6135000111

LPM9344488-Shut-In Bond

DATA ENTRY:

Well(s) update in the RBDMS on: Group(s) update in RDBMS on: Surface Facilities update in RBDMS on: Entities Updated in RBDMS on:

11/19/2020 11/19/2020 11/19/2020 11/19/2020

COMMENTS: Shut-In Wells that were reviewed.

CIGE 236 4304732861

CIGE 42 4304730492 CIGE 55 4304730512

Love 1121-16N 4304736256

Morgan State 16-36 4304733093

NBU 341-29E 4304733055

NBU 691-29E 4304750027

NBU 921-33F 4304736391 NBU 99 4304731745

Ouray SWD 1 4304733449

State 1022-32O 4304735315

State 921-32M 4304734872

12/3/2020

Pre-Notice Completed:

STATE OF UTAH

	DEPARTMENT OF NATURAL RESOURDIVISION OF OIL, GAS AND MI		1	5. LEASE DESIGNATION AND SERIAL NUMBER:
				U-02278-ST
SUNDRY	Y NOTICES AND REPORTS	S ON WELL	_S	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
Do not use this form for proposals to drill of drill horizontal	new wells, significantly deepen existing wells below cur laterals. Use APPLICATION FOR PERMIT TO DRILL f	rrent boltom-hole depth	1, reenter plugged wells, or to s.	7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
1. TYPE OF WELL OIL WELL	9 9			WELL NAME and NUMBER: CIGE 20
2. NAME OF OPERATOR:				9. API NUMBER:
CAERUS UINTA LLC				43047304850000
3. ADDRESS OF OPERATOR: 1001 17TH ST. STE 1600	DENVER STATE CO ZIP		PHONE NUMBER: 303-565-4600	10. FIELD AND POOL, OR WILDCAT:
4. LOCATION OF WELL				
FOOTAGES AT SURFACE: 1162 FS	SL 1365 FWL			COUNTY: UINTAH
QTR/QTR, SECTION, TOWNSHIP, RAN	NGE, MERIDIAN: SESW 20 10S	21E \$		STATE: UTAH
11. CHECK APP	ROPRIATE BOXES TO INDICAT	TE NATURE C	OF NOTICE, REPOR	RT, OR OTHER DATA
TYPE OF SUBMISSION		TY	PE OF ACTION	
NOTICE OF INTENT	ACIDIZE	DEEPEN		REPERFORATE CURRENT FORMATION
(Submit in Duplicate)	ALTER CASING	FRACTURE T	REAT	SIDETRACK TO REPAIR WELL
Approximate date work will start:	CASING REPAIR	NEW CONST	RUCTION	TEMPORARILY ABANDON
06/30/2020	CHANGE TO PREVIOUS PLANS	OPERATOR (CHANGE	TUBING REPAIR
	CHANGE TUBING	PLUG AND A	BANDON	VENT OR FLARE
SUBSEQUENT REPORT	CHANGE WELL NAME	PLUG BACK		WATER DISPOSAL
(Submit Original Form Only)	CHANGE WELL STATUS	PRODUCTION	N (START/RESUME)	WATER SHUT-OFF
Date of work completion:	COMMINGLE PRODUCING FORMATIONS	RECLAMATIO	ON OF WELL SITE	X OTHER:Transfer remediation liabilities
	CONVERT WELL TYPE	RECOMPLET	E - DIFFERENT FORMATION	
12. DESCRIBE PROPOSED OR CO	OMPLETED OPERATIONS. Clearly show all p	pertinent details incl	uding dates, depths, volume	s, etc.
Effective June 30, 2020, of Caerus Uinta LLC 1001 17th Street, Suite 16 Denver, CO 80202 303-565-4600	operation of the following wells wa	as taken over	by:	
The previous Operator wa	as Kerr-McGee Oil & Gas Onshor PO Box 173779 Denver, CO 80217-3779	re LP		William C. Irons Attorney-in-Fact
Oil & Gas Onshore LP I as	vells for a complete list that will be sk that you accept this letter as K C, whose operator number is 1050	err-McGee's c	official resignation ar	
	erring cleanup/soils remediation t HS Field Lead (435) 790-9669.	to Caerus Uin	ta LLC for Incident #	5772. The new contact for
NAME (PLEASE PRINT) Aubree Be	esant	TITLE	Director of Land	
This space for State use only)				RECEIVED

(This space for State use only)

APPROVED

By: Raehel Medina

Utah Division of Oil, Gas, and Mining AUG 1 1 2020

DIV OF OIL, GAS & MINING

STATE OF UTAH

DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING 5. LEASE DESIGNATION AND SERIAL NUMBER: U-02278-ST 6. IF INDIAN, ALLOTTEE OR TRIBE NAME: SUNDRY NOTICES AND REPORTS ON WELLS 7. UNIT or CA AGREEMENT 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. NATURAL BUTTES 1. TYPE OF WELL 8. WELL NAME and NUMBER: OIL WELL GAS WELL OTHER CIGE 20 2. NAME OF OPERATOR: 9. API NUMBER: CAERUS UINTA LLC 43047304850000 3. ADDRESS OF OPERATOR: PHONE NUMBER: 10. FIELD AND POOL, OR WILDCAT: 1001 17TH ST. STE 1600 STATE CO 303-565-4600 80202 DENVER 4. LOCATION OF WELL UINTAH FOOTAGES AT SURFACE: 1162 FSL 1365 FWL COUNTY: 21E 105 SESW QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: STATE UTAH CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA 11. TYPE OF SUBMISSION TYPE OF ACTION ACIDIZE DEEPEN REPERFORATE CURRENT FORMATION V NOTICE OF INTENT (Submit in Duplicate) ALTER CASING FRACTURE TREAT SIDETRACK TO REPAIR WELL Approximate date work will start: CASING REPAIR NEW CONSTRUCTION TEMPORARILY ABANDON CHANGE TO PREVIOUS PLANS **OPERATOR CHANGE TUBING REPAIR** 06/30/2020 PLUG AND ABANDON VENT OR FLARE CHANGE TUBING SUBSEQUENT REPORT WATER DISPOSAL CHANGE WELL NAME PLUG BACK (Submit Original Form Only) PRODUCTION (START/RESUME) **CHANGE WELL STATUS** WATER SHUT-OFF Date of work completion: X OTHER: Transfer remediation liabilities COMMINGLE PRODUCING FORMATIONS RECLAMATION OF WELL SITE CONVERT WELL TYPE **RECOMPLETE - DIFFERENT FORMATION** 12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. Effective June 30, 2020, operation of the following wells was taken over by: Caerus Uinta LLC 1001 17th Street, Suite 1600 Denver, CO 80202 303-565-4600 The previous Operator was Kerr-McGee Oil & Gas Onshore LP William C. Irons PO Box 173779 Denver, CO 80217-3779 Attorney-in-Fact Please see the attached wells for a complete list that will be transferred upon approval. As the Attorney-in-Fact for Kerr-McGee Oil & Gas Onshore LP I ask that you accept this letter as Kerr-McGee's official resignation and request to transfer operating rights to Caerus Uinta LLC, whose operator number is 105039. UDOGM Bond# 6135000111 and BLM Bond# COB000387. Kerr-McGee will be transferring cleanup/soils remediation to Caerus Uinta LLC for Incident #5772. The new contact for Caerus is Grizz Oleen, EHS Field Lead (435) 790-9669. Director of Land Aubree Besant NAME (PLEASE PRINT) DATE JULY 17, 2000 SIGNATURE BECEIVED AUG 1 1 2020 (This space for State use enty) APPROVED

By: Rachel Medina
Utah Division of

DIV OF OIL, GAS & MINING