


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

FORM 3

AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL						1. WELL NAME and NUMBER NBU 921-20B1BS				
2. TYPE OF WORK DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>						3. FIELD OR WILDCAT NATURAL BUTTES				
4. TYPE OF WELL Gas Well Coalbed Methane Well: NO						5. UNIT or COMMUNITIZATION AGREEMENT NAME NATURAL BUTTES				
6. NAME OF OPERATOR KERR-MCGEE OIL & GAS ONSHORE, L.P.						7. OPERATOR PHONE 720 929-6515				
8. ADDRESS OF OPERATOR P.O. Box 173779, Denver, CO, 80217						9. OPERATOR E-MAIL julie.jacobson@anadarko.com				
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) UTU0575			11. MINERAL OWNERSHIP FEDERAL <input checked="" type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>			12. SURFACE OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input checked="" type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>				
13. NAME OF SURFACE OWNER (if box 12 = 'fee')						14. SURFACE OWNER PHONE (if box 12 = 'fee')				
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')						16. SURFACE OWNER E-MAIL (if box 12 = 'fee')				
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN') Ute Tribe			18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input checked="" type="checkbox"/> (Submit Commingling Application) NO <input type="checkbox"/>			19. SLANT VERTICAL <input type="checkbox"/> DIRECTIONAL <input checked="" type="checkbox"/> HORIZONTAL <input type="checkbox"/>				
20. LOCATION OF WELL		FOOTAGES		QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN		
LOCATION AT SURFACE		751 FNL 2238 FEL		NWNE	20	9.0 S	21.0 E	S		
Top of Uppermost Producing Zone		248 FNL 1808 FEL		NWNE	20	9.0 S	21.0 E	S		
At Total Depth		248 FNL 1808 FEL		NWNE	20	9.0 S	21.0 E	S		
21. COUNTY UINTAH			22. DISTANCE TO NEAREST LEASE LINE (Feet) 1808			23. NUMBER OF ACRES IN DRILLING UNIT 1600				
27. ELEVATION - GROUND LEVEL 4874			25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 908			26. PROPOSED DEPTH MD: 11491 TVD: 11422				
28. BOND NUMBER WYB000291			29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE 43-8496							
Hole, Casing, and Cement Information										
String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement	Sacks	Yield	Weight
Surf	11	8.625	0 - 2960	28.0	J-55 LT&C	0.2	Type V	180	1.15	15.8
							Class G	270	1.15	15.8
Prod	7.875	4.5	0 - 11491	11.6	HCP-110 LT&C	12.5	Premium Lite High Strength	360	3.38	12.0
							50/50 Poz	1630	1.31	14.3
ATTACHMENTS										
VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES										
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER					<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN					
<input type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)					<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER					
<input checked="" type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)					<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP					
NAME Danielle Piernot				TITLE Regulatory Analyst			PHONE 720 929-6156			
SIGNATURE				DATE 11/27/2012			EMAIL danielle.piernot@anadarko.com			
API NUMBER ASSIGNED 43047533410000				APPROVAL <div style="text-align: center;">  Permit Manager </div>						

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

NBU 921-20B1BS

Surface: 751 FNL / 2238 FEL NWNE
BHL: 248 FNL / 1808 FEL NWNE

Section 20 T9S R21E

Unitah County, Utah
Mineral Lease: UTU 0575

ONSHORE ORDER NO. 1

DRILLING PROGRAM

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

<u>Formation</u>	<u>Depth</u>	<u>Resource</u>
Uinta	0 - Surface	
Green River	1,719'	
Birds Nest	2,019'	Water
Mahogany	2,509'	Water
Wasatch	5,092'	Gas
Mesaverde	8,095'	Gas
Sego	10,342'	Gas
Castlegate	10,450'	Gas
Blackhawk	10,822'	Gas
TVD =	11,422'	
TD =	11,491'	

- 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. **Pressure Control Equipment** (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. **Drilling Fluids Program:**

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 11422' TVD, approximately equals
 7,310 psi (0.64 psi/ft = actual bottomhole gradient)

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

Maximum anticipated surface pressure equals approximately 4,781 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 10342' TVD, approximately equals
 6,309 psi (0.61 psi/ft = actual bottomhole gradient)

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

Maximum anticipated surface pressure equals approximately 4,061 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
 Bird's Nest.

Before the surface air rig is mobilized, a rathole rig is utilized to set and cement conductor pipe through
 a competent surface formation. Generally, the conductor is set at 40 feet. In some cases, conductor may

be set deeper in areas that the surface formation is not found competent. This rig also drills the rat and mouse holes in preparation for the surface casing and production string drilling operations.

The air rig is then mobilized to drill the surface casing hole by drilling a 12 1/4 inch hole 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 blooie line discharge point is required to be 100 feet from the well bore. In the case of a KMG well, the reserve pit is only 45 feet from the rig and is used for the drill cuttings. The blooie line, which transports the drill cuttings from the well to the reserve pit, subsequently discharges only 45 feet from the well bore.

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

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

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



KERR-McGEE OIL & GAS ONSHORE LP
Blackhawk Drilling Program

CASING PROGRAM

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS			
						BURST	COLLAPSE	LTC	DQX
								TENSION	
CONDUCTOR	14"	0-40'							
						3,390	1,880	348,000	N/A
SURFACE	8-5/8"	0 to 2,960	28.00	IJ-55	LTC	1.82	1.36	4.79	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	1.17		3.40
	4-1/2"	5,000 to 11,491'	11.60	HCP-110	LTC	1.19	1.17	4.58	

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 + 0.25 pps flocele	180	60%	15.80	1.15
Option 1	TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt + 2% CaCl + 0.25 pps flocele	270	0%	15.80	1.15
NOTE: If well will circulate water to surface, option 2 will be utilized							
SURFACE	LEAD	2,460'	65/35 Poz + 6% Gel + 10 pps gilsonite + 0.25 pps Flocele + 3% salt BWOW	230	35%	11.00	3.82
Option 2	TAIL	500'	Premium cmt + 2% CaCl + 0.25 pps flocele	150	35%	15.80	1.15
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.80	1.15
PRODUCTION	LEAD	4,591'	Premium Lite II + 0.25 pps celloflake + 5 pps gilsonite + 10% gel + 0.5% extender	360	35%	12.00	3.38
	TAIL	6,900'	50/50 Poz/G + 10% salt + 2% gel + 0.1% R-3	1,630	35%	14.30	1.31

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

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

FLOAT EQUIPMENT & CENTRALIZERS

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe
PRODUCTION	Float shoe, 1 jt, float collar. 15 centralizers for a Mesaverde and 20 for a Blackhawk well. 1 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' minimum intervals.

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

DRILLING ENGINEER:

Nick Spence / Danny Showers / Travis Hansell

DATE:

DRILLING SUPERINTENDENT:

Kenny Gathings / Lovel Young

DATE:



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

CASING PROGRAM

							DESIGN FACTORS			
	SIZE	INTERVAL		WT.	GR.	CPLG.	BURST	COLLAPSE	LTC	DQX
		TENSION								
CONDUCTOR	14"	0-40'					3,390	1,880	348,000	N/A
SURFACE	8-5/8"	0	to 2,960	28.00	IJ-55	LTC	1.82	1.36	4.79	N/A
PRODUCTION	4-1/2"	0	to 5,000	11.60	I-80	DQX	1.11	0.98		267,035
	4-1/2"	5,000	to 10,411'	11.60	HCP-110	LTC	1.53	1.34	223,000	4.35

Surface casing:

(Burst Assumptions: TD = 12.0 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*Buoyn.Fact. of water)

Production casing:

(Burst Assumptions: Pressure test with 8.4ppg @ 7000 psi) 0.61 psi/ft = bottomhole gradient
 (Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoyn.Fact. of water)

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE	LEAD	500'	Premium cmt + 2% CaCl + 0.25 pps flocele	180	60%	15.80	1.15
Option 1							
	TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt + 2% CaCl + 0.25 pps flocele	270	0%	15.80	1.15
SURFACE		NOTE: If well will circulate water to surface, option 2 will be utilized					
Option 2	LEAD	2,460'	65/35 Poz + 6% Gel + 10 pps gilsonite + 0.25 pps Flocele + 3% salt BWOW	230	35%	11.00	3.82
	TAIL	500'	Premium cmt + 2% CaCl + 0.25 pps flocele	150	35%	15.80	1.15
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.80	1.15
PRODUCTION	LEAD	4,591'	Premium Lite II +0.25 pps celloflake + 5 pps gilsonite + 10% gel + 0.5% extender	360	35%	12.00	3.38
	TAIL	5,820'	50/50 Poz/G + 10% salt + 2% gel + 0.1% R-3	1,370	35%	14.30	1.31

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

FLOAT EQUIPMENT & CENTRALIZERS

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe
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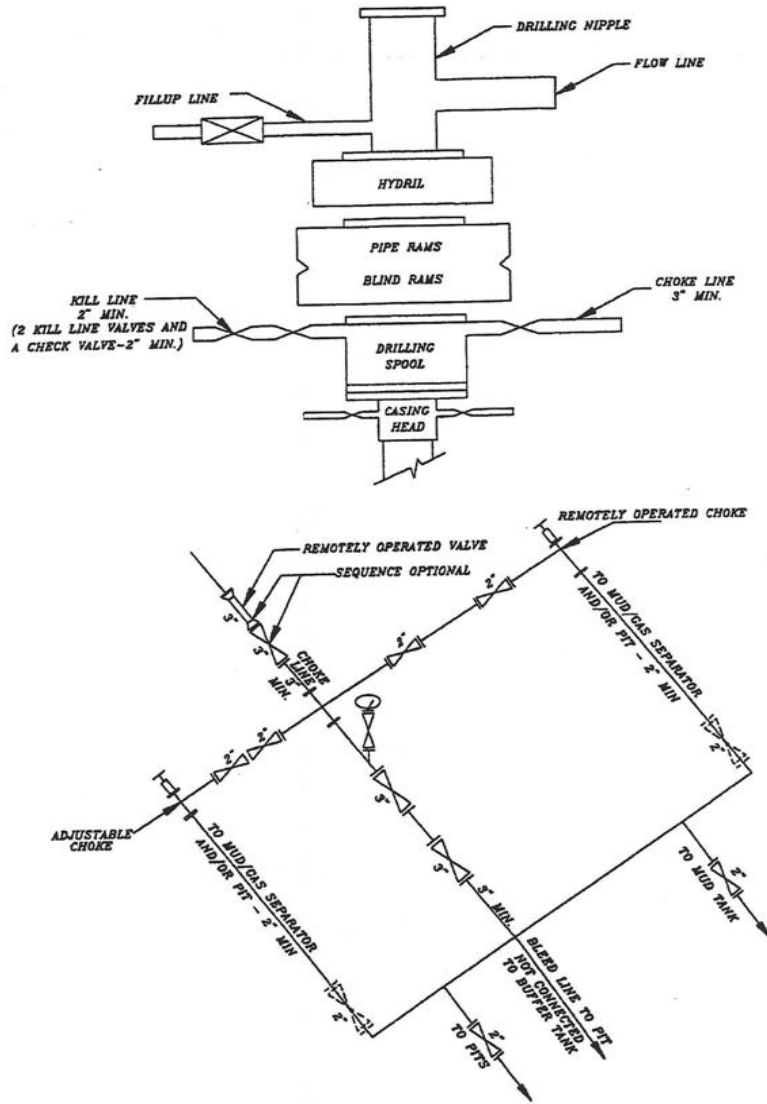
DRILLING ENGINEER: _____
 Nick Spence / Danny Showers / Travis Hansell

DATE: _____

DRILLING SUPERINTENDENT: _____
 Kenny Gathings / Lovel Young

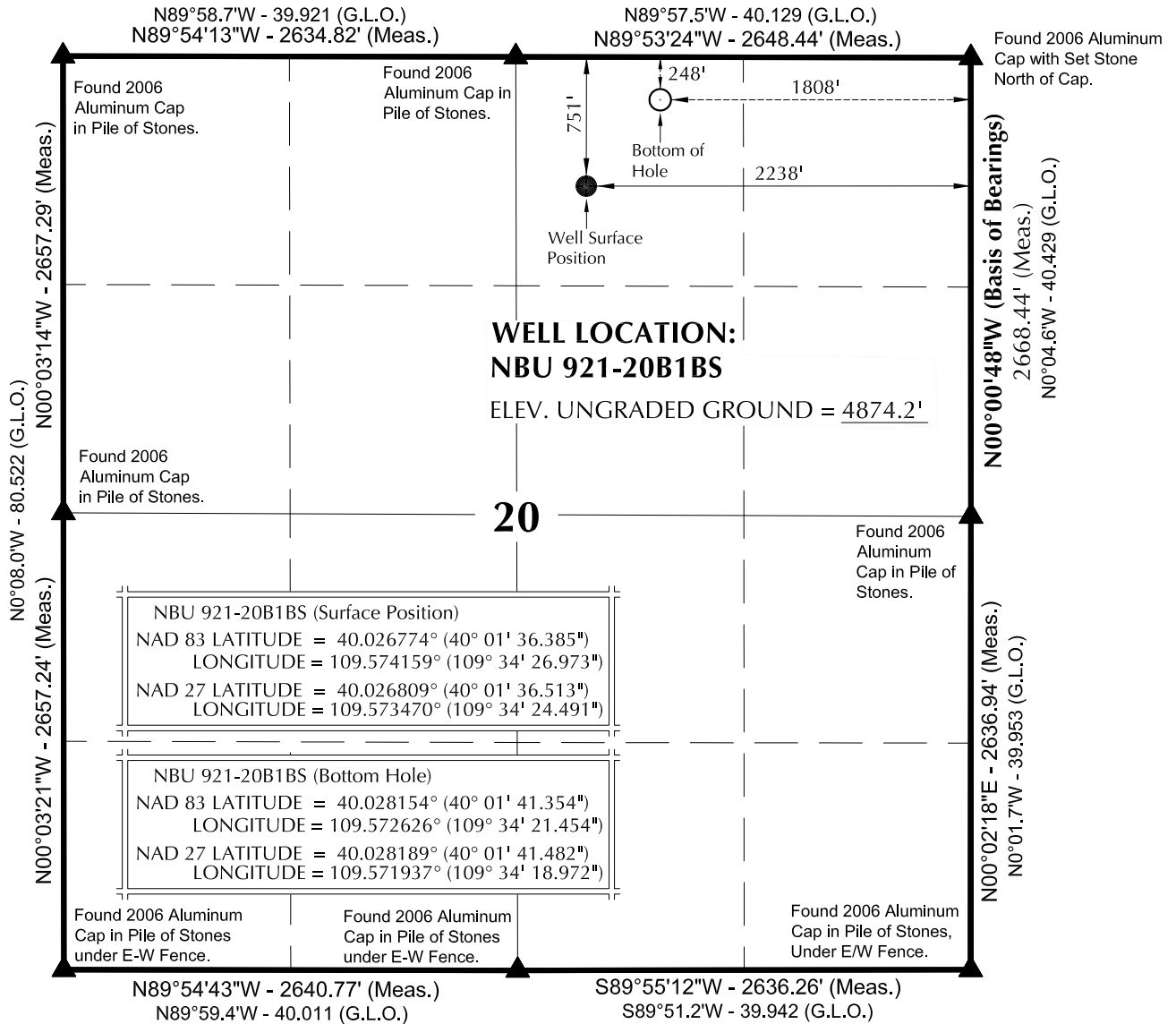
DATE: _____

EXHIBIT A
NBU 921-20B1BS



SCHEMATIC DIAGRAM OF 5,000 PSI BOP STACK

T9S, R21E, S.L.B.&M.



NOTES:

- ▲ = Section Corners Located
- 1. Well footages are measured at right angles to the Section Lines.
- 2. G.L.O. distances are shown in feet or chains.
1 chain = 66 feet.
- 3. The Bottom of hole bears N40°33'56"E 661.36' from the Surface Position.
- 4. Bearings are based on Global Positioning Satellite observations.
- 5. Basis of elevation is Tri-Sta "Two Water" located in the NW ¼ of Section 1, T10S, R21E, S.L.B.&M. The elevation of this Tri-Sta is shown on the Big Pack Mtn NE 7.5 Min. Quadrangle as being 5238'.



SURVEYOR'S CERTIFICATE

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

No. 6028691-4-16-12
 JOHN R. LAUGH
 PROFESSIONAL LAND SURVEYOR
 REGISTRATION No. 6028691
 STATE OF UTAH

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

WELL PAD: NBU 921-20B

**NBU 921-20B1BS
 WELL PLAT**

248' FNL, 1808' FEL (Bottom Hole)
**NW ¼ NE ¼ OF SECTION 20, T9S, R21E,
 S.L.B.&M., UTAH COUNTY, UTAH.**



609 CONSULTING, LLC
 2155 North Main Street
 Sheridan WY 82801
 Phone 307-674-0609
 Fax 307-674-0182

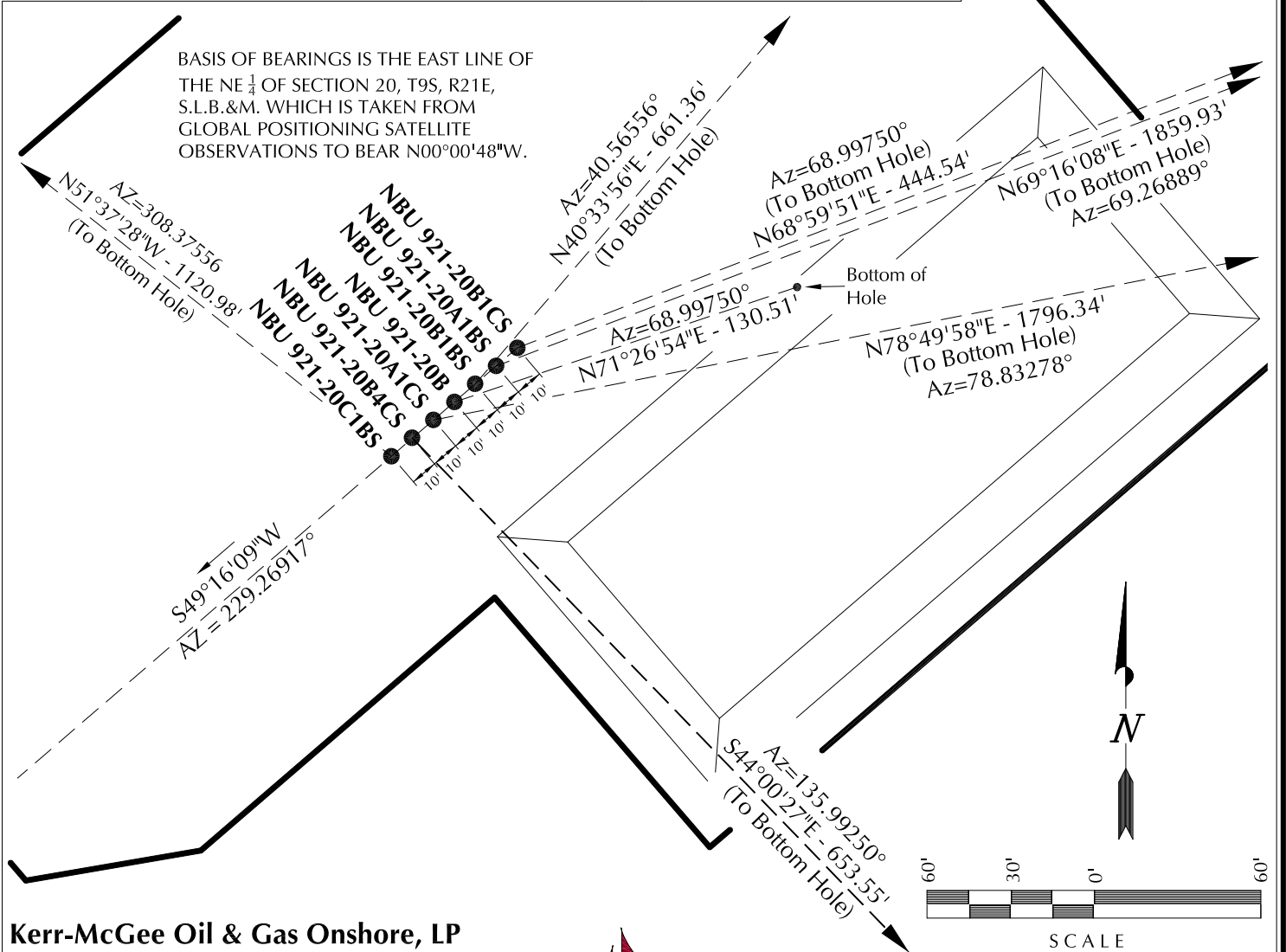
TIMBERLINE (435) 789-1365
 ENGINEERING & LAND SURVEYING, INC.
 209 NORTH 300 WEST - VERNAL, UTAH 84078

DATE SURVEYED: 3-14-12	SURVEYED BY: A.F.	SHEET NO: 3
DATE DRAWN: 3-21-12	DRAWN BY: T.J.R.	
SCALE: 1" = 1000'		3 OF 19

WELL NAME	SURFACE POSITION					BOTTOM HOLE				
	NAD83		NAD27		FOOTAGES	NAD83		NAD27		FOOTAGES
	LATITUDE	LONGITUDE	LATITUDE	LONGITUDE		LATITUDE	LONGITUDE	LATITUDE	LONGITUDE	
NBU 921-20B1CS	40°01'36.515"	109°34'26.779"	40°01'36.642"	109°34'24.296"	738' FNL 2223' FEL	40°01'38.094"	109°34'21.448"	40°01'38.221"	109°34'18.965"	578' FNL 1808' FEL
NBU 921-20A1BS	40°01'36.449"	109°34'26.876"	40°01'36.577"	109°34'24.394"	745' FNL 2231' FEL	40°01'42.975"	109°34'04.531"	40°01'43.102"	109°34'02.049"	83' FNL 491' FEL
NBU 921-20B1BS	40°01'36.385"	109°34'26.973"	40°01'36.513"	109°34'24.491"	751' FNL 2238' FEL	40°01'41.354"	109°34'21.454"	40°01'41.482"	109°34'18.972"	248' FNL 1808' FEL
NBU 921-20B	40°01'36.321"	109°34'27.070"	40°01'36.448"	109°34'24.587"	758' FNL 2246' FEL	40°01'36.733"	109°34'25.481"	40°01'36.860"	109°34'22.998"	716' FNL 2122' FEL
NBU 921-20A1CS	40°01'36.256"	109°34'27.168"	40°01'36.384"	109°34'24.686"	764' FNL 2253' FEL	40°01'39.715"	109°34'04.525"	40°01'39.842"	109°34'02.044"	413' FNL 491' FEL
NBU 921-20B4CS	40°01'36.192"	109°34'27.265"	40°01'36.319"	109°34'24.783"	771' FNL 2261' FEL	40°01'31.553"	109°34'21.423"	40°01'31.681"	109°34'18.940"	1240' FNL 1807' FEL
NBU 921-20C1BS	40°01'36.127"	109°34'27.363"	40°01'36.255"	109°34'24.880"	777' FNL 2269' FEL	40°01'42.992"	109°34'38.668"	40°01'43.119"	109°34'36.185"	83' FNL 2136' FWL

RELATIVE COORDINATES - From Surface Position to Bottom Hole

WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST
NBU 921-20B1CS	159.3'	415.0'	NBU 921-20A1BS	658.4'	1739.5'	NBU 921-20B1BS	502.4'	430.1'	NBU 921-20B	41.5'	123.7'
NBU 921-20A1CS	347.9'	1762.3'	NBU 921-20B4CS	-470.1'	454.1'	NBU 921-20C1BS	695.9'	-878.8'			



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

WELL PAD - NBU 921-20B

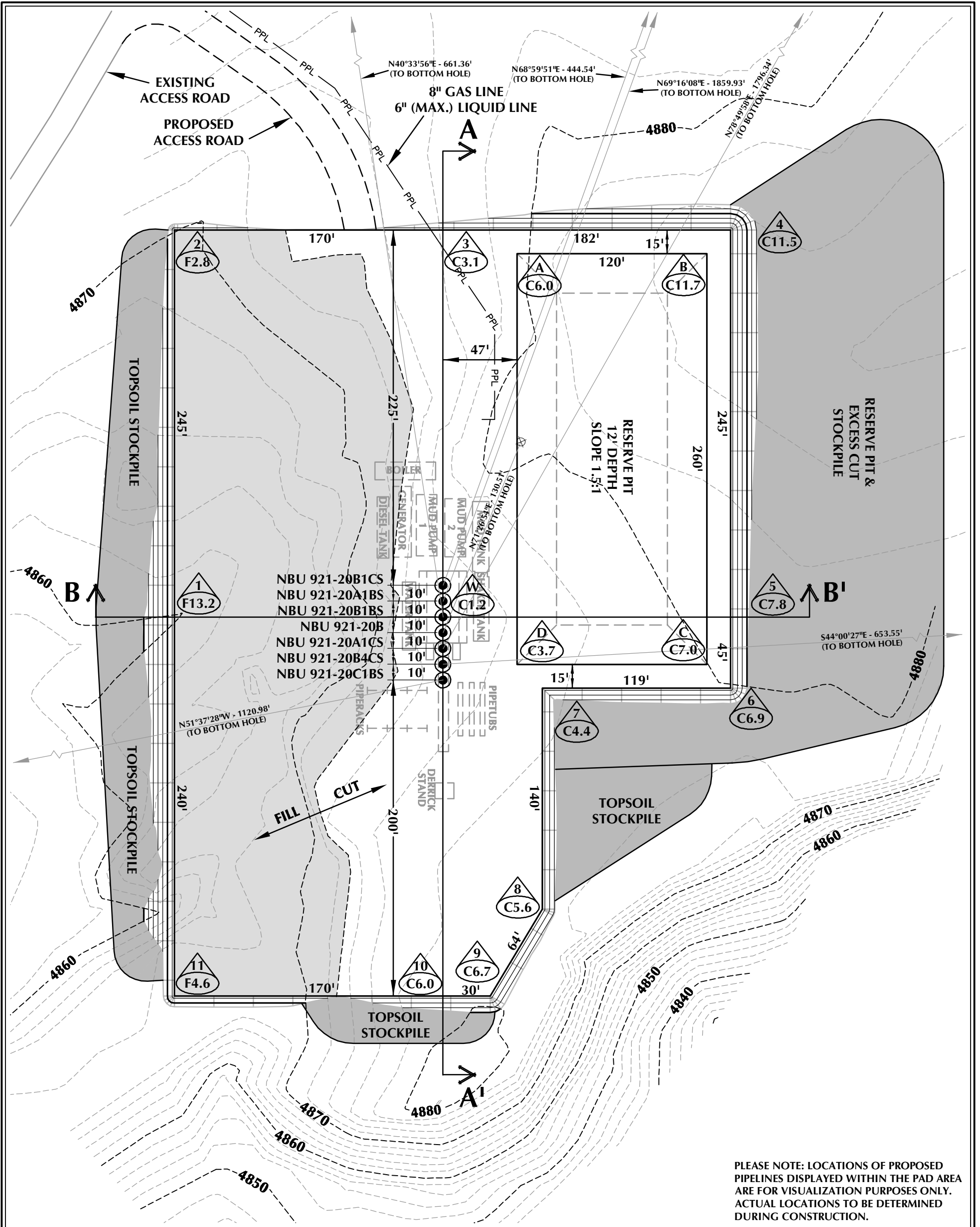
WELL PAD INTERFERENCE PLAT
WELLS - NBU 921-20B1CS,
NBU 921-20A1BS, NBU 921-20B1BS,
NBU 921-20B, NBU 921-20A1CS,
NBU 921-20B4CS & NBU 921-20C1BS
LOCATED IN SECTION 20, T9S, R21E,
S.L.B.&M., UINTAH COUNTY, UTAH.



609 CONSULTING, LLC
2155 North Main Street
Sheridan WY 82801
Phone 307-674-0609
Fax 307-674-0182

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

DATE SURVEYED: 3-14-12	SURVEYED BY: A.F.	SHEET NO: 8 8 OF 19
DATE DRAWN: 3-21-12	DRAWN BY: T.J.R.	
SCALE: 1" = 60'		
Date Last Revised:		



WELL PAD - NBU 921-20B DESIGN SUMMARY

EXISTING GRADE @ CENTER OF WELL PAD = 4874.2'
 FINISHED GRADE ELEVATION = 4873.0'
 CUT SLOPES = 1.5:1
 FILL SLOPES = 1.5:1
 TOTAL WELL PAD AREA = 3.77 ACRES
 TOTAL DISTURBANCE AREA = 5.42 ACRES
 SHRINKAGE FACTOR = 1.10
 SWELL FACTOR = 1.00

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

WELL PAD - NBU 921-20B
 WELL PAD - LOCATION LAYOUT
 NBU 921-20B1CS,
 NBU 921-20A1BS, NBU 921-20B1BS,
 NBU 921-20B, NBU 921-20A1CS,
 NBU 921-20B4CS & NBU 921-20C1BS
 LOCATED IN SECTION 20, T9S, R21E,
 S.L.B.&M., UTAH COUNTY, UTAH

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 CONSULTING, LLC
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WELL PAD LEGEND

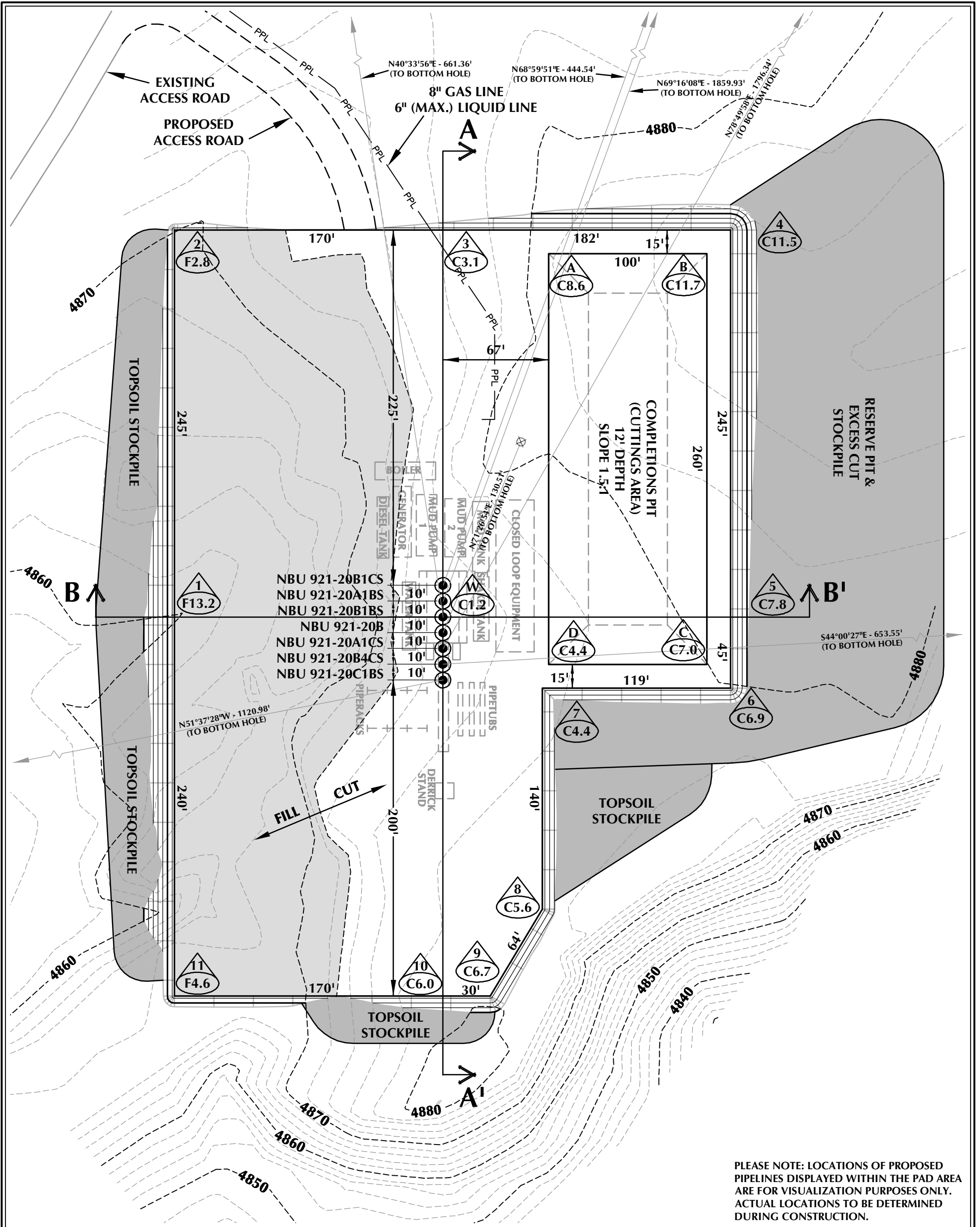
○ EXISTING WELL LOCATION
 ⊗ PROPOSED WELL LOCATION
 ⊗ PROPOSED BOTTOM HOLE LOCATION
 --- EXISTING CONTOURS (2' INTERVAL)
 - - - PROPOSED CONTOURS (2' INTERVAL)
 --- PPL --- PROPOSED PIPELINE
 --- EPL --- EXISTING PIPELINE

HORIZONTAL 0 30' 60' 1" = 60'

2' CONTOURS

SCALE: 1"=60' DATE: 4/17/12 SHEET NO: **9** 9 OF 19

REVISED:



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

WELL PAD - NBU 921-20B (CLOSED LOOP) DESIGN SUMMARY

EXISTING GRADE @ CENTER OF WELL PAD = 4874.2'
 FINISHED GRADE ELEVATION = 4873.0'
 CUT SLOPES = 1.5:1
 FILL SLOPES = 1.5:1
 TOTAL WELL PAD AREA = 3.77 ACRES
 TOTAL DISTURBANCE AREA = 5.42 ACRES
 SHRINKAGE FACTOR = 1.10
 SWELL FACTOR = 1.00

WELL PAD QUANTITIES

TOTAL CUT FOR WELL PAD = 17,592 C.Y.
 TOTAL FILL FOR WELL PAD = 14,969 C.Y.
 TOPSOIL @ 6" DEPTH = 3,039 C.Y.
 EXCESS MATERIAL = 2,623 C.Y.

COMPLETIONS PIT QUANTITIES

TOTAL CUT FOR COMPLETIONS PIT +/- 8,870 C.Y.
 COMPLETIONS PIT CAPACITY (2' OF FREEBOARD) +/- 33,770 BARRELS

WELL PAD LEGEND

- EXISTING WELL LOCATION
- PROPOSED WELL LOCATION
- PROPOSED BOTTOM HOLE LOCATION
- EXISTING CONTOURS (2' INTERVAL)
- PROPOSED CONTOURS (2' INTERVAL)
- PPL — PROPOSED PIPELINE
- EPL — EXISTING PIPELINE



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

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 1099 18th Street - Denver, Colorado 80202



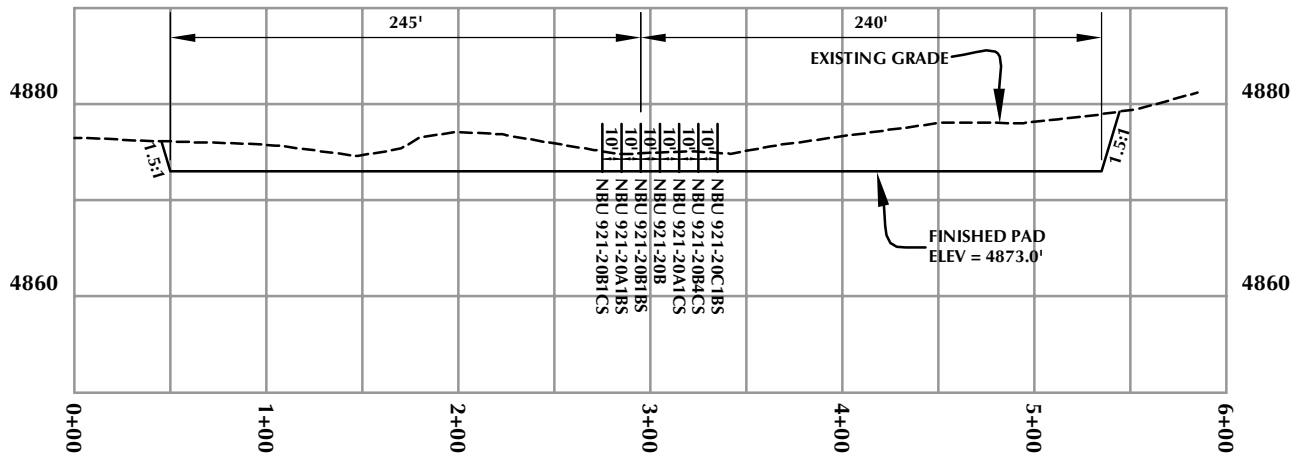
CONSULTING, LLC
 2155 North Main Street
 Sheridan, WY 82801
 Phone 307-674-0609
 Fax 307-674-0182

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

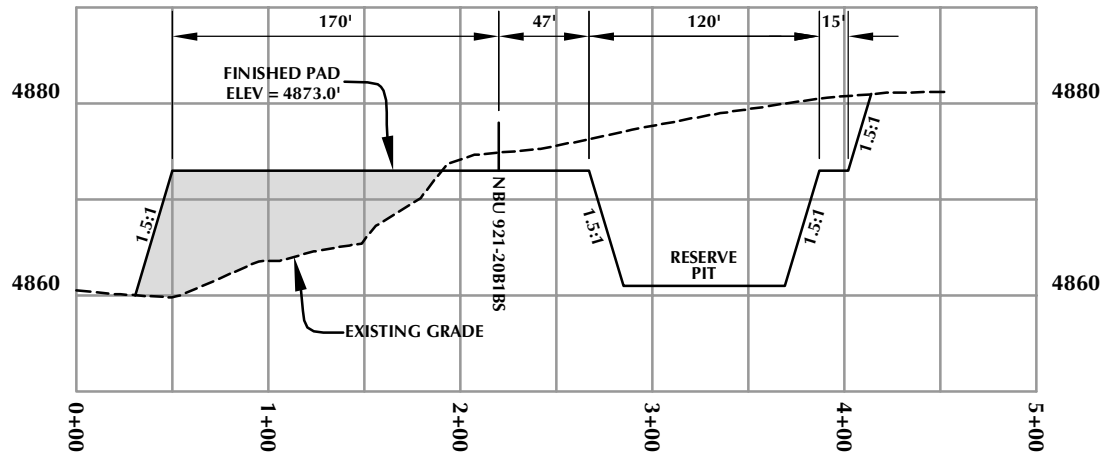
(435) 789-1365

SCALE: 1"=60' DATE: 4/17/12 SHEET NO:

REVISED: **9B** 9B OF 19



CROSS SECTION A-A'



CROSS SECTION B-B'

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

WELL PAD - NBU 921-20B

WELL PAD - CROSS SECTIONS
NBU 921-20B1CS,
NBU 921-20A1BS, NBU 921-20B1BS,
NBU 921-20B, NBU 921-20A1CS,
NBU 921-20B4CS & NBU 921-20C1BS
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

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

(435) 789-1365



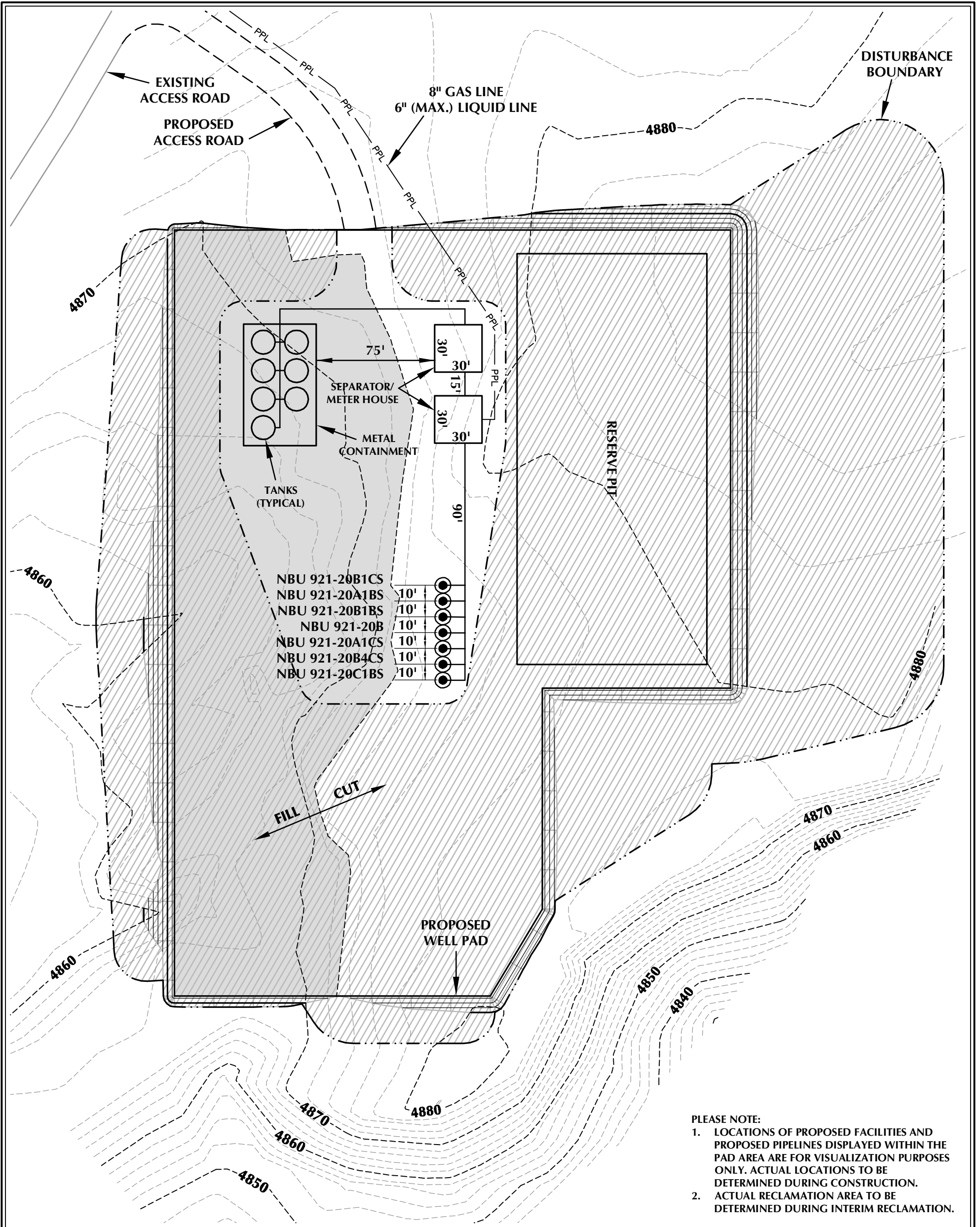
Scale: 1"=100'

Date: 4/17/12

SHEET NO:

REVISED:

10 10 OF 19



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

WELL PAD - NBU 921-20B DESIGN SUMMARY

TOTAL DISTURBANCE AREA = 5.42 ACRES
 RECLAMATION AREA = 4.46 ACRES
 TOTAL WELL PAD AREA AFTER RECLAMATION = 0.96 ACRES

Kerr-McGee Oil & Gas Onshore, LP
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WELL PAD - NBU 921-20B

WELL PAD - RECLAMATION LAYOUT
 NBU 921-20B1CS,
 NBU 921-20A1BS, NBU 921-20B1BS,
 NBU 921-20B, NBU 921-20A1CS,
 NBU 921-20B4CS & NBU 921-20C1BS
 LOCATED IN SECTION 20, T9S, R21E,
 S.L.B.&M., Uintah County, Utah

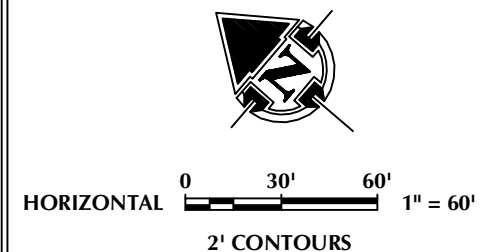


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 209 NORTH 300 WEST - VERNAL, UTAH 84078

(435) 789-1365

WELL PAD LEGEND	
	EXISTING WELL LOCATION
	PROPOSED WELL LOCATION
	PROPOSED BOTTOM HOLE LOCATION
	EXISTING CONTOURS (2' INTERVAL)
	PROPOSED CONTOURS (2' INTERVAL)
	PPL PROPOSED PIPELINE
	EPL EXISTING PIPELINE
	RECLAMATION AREA



SCALE: 1"=60'	DATE: 4/17/12	SHEET NO:
REVISED:		11 11 OF 19

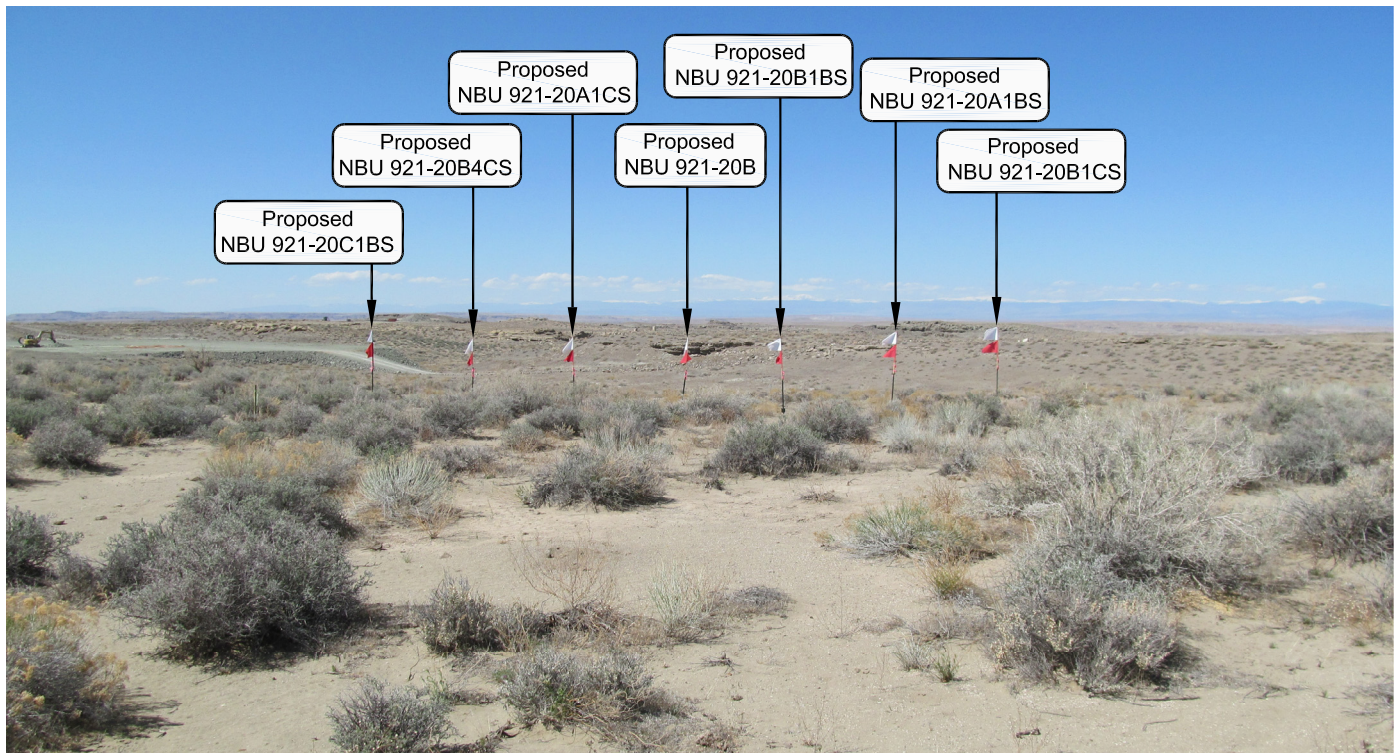


PHOTO VIEW: FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: NORTHWESTERLY

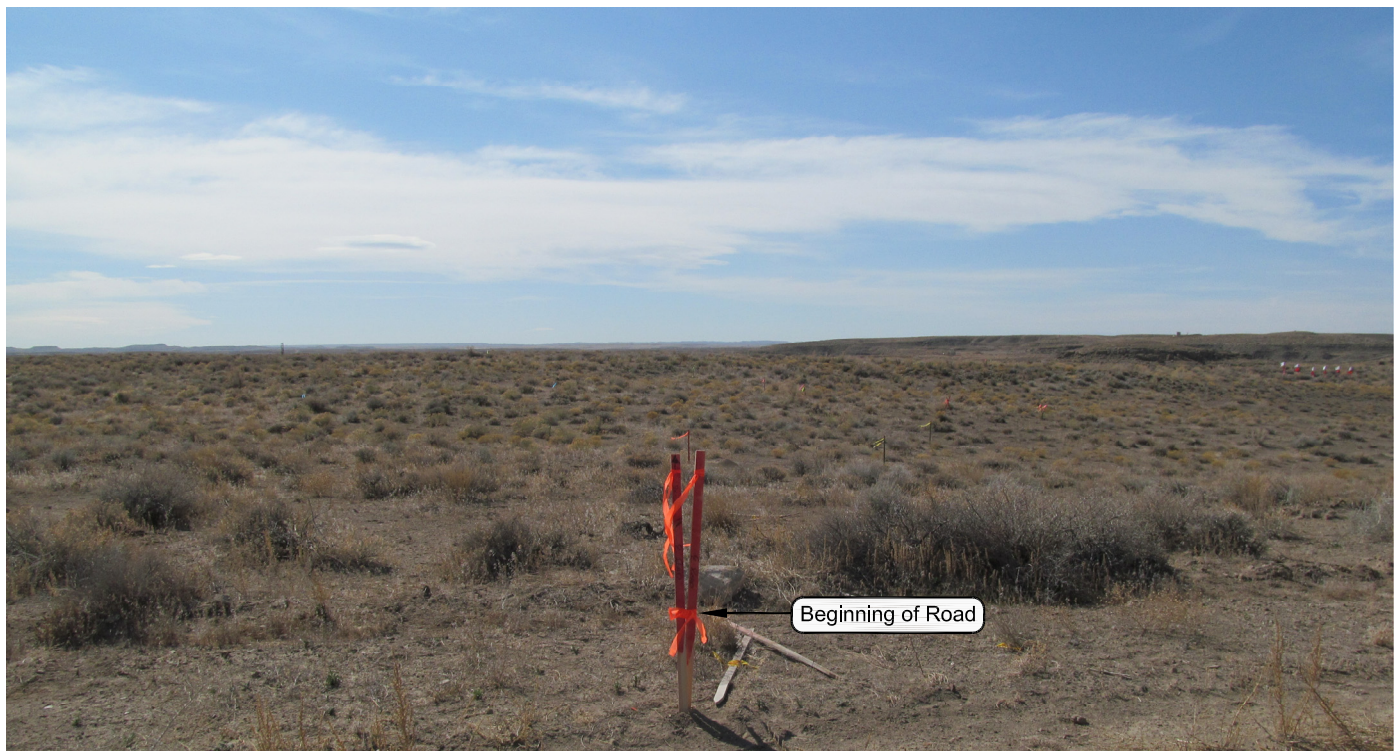


PHOTO VIEW: FROM BEGINNING OF PROPOSED ROAD

CAMERA ANGLE: SOUTHERLY

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 1099 18th Street - Denver, Colorado 80202

WELL PAD - NBU 921-20B

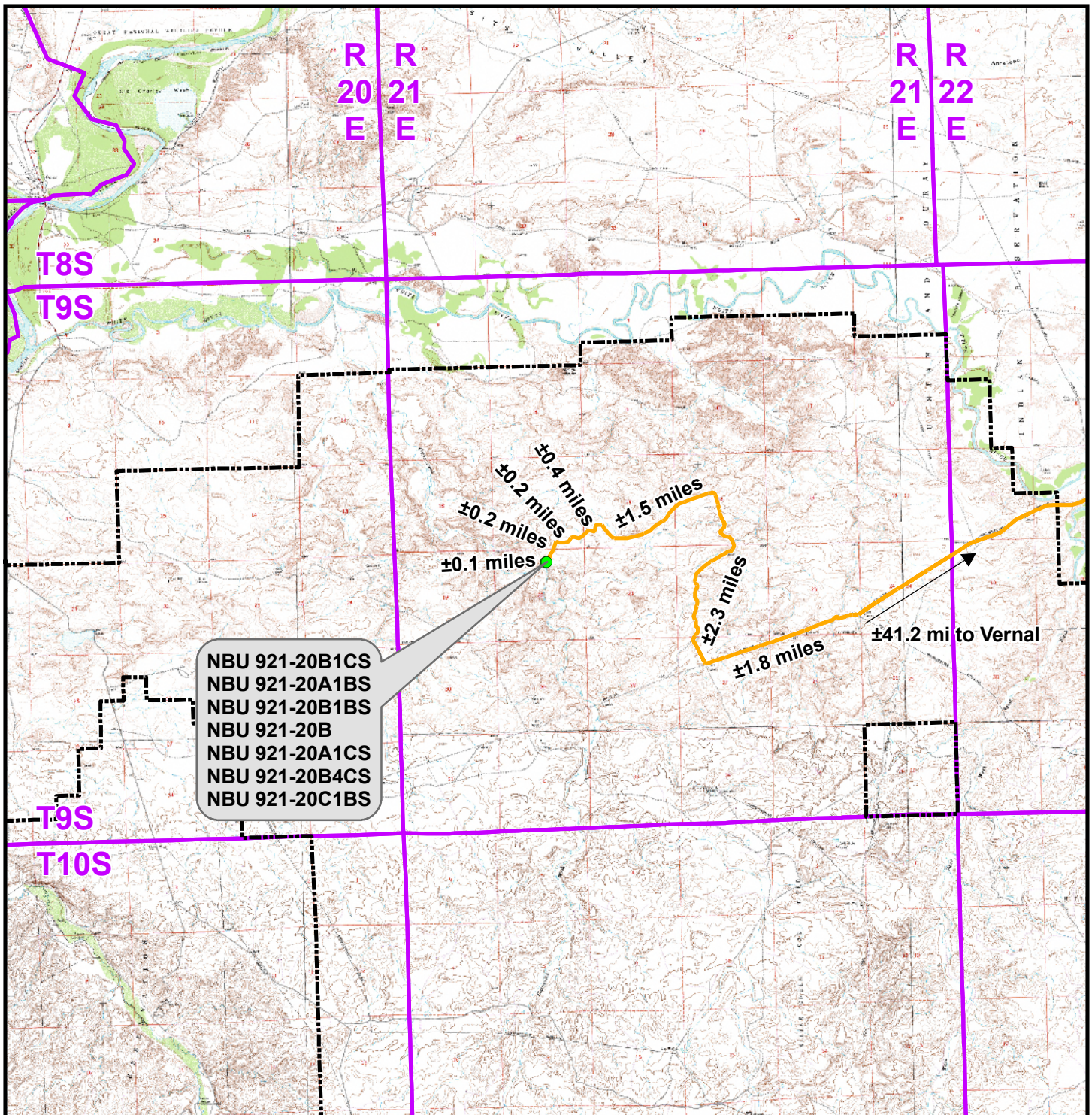
LOCATION PHOTOS
 NBU 921-20B1CS,
 NBU 921-20A1BS, NBU 921-20B1BS,
 NBU 921-20B, NBU 921-20A1CS,
 NBU 921-20B4CS & NBU 921-20C1BS
 LOCATED IN SECTION 20, T9S, R21E,
 S.L.B.&M., UINTAH COUNTY, UTAH.



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 Sheridan WY 82801
 Phone 307-674-0609
 Fax 307-674-0182

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

DATE PHOTOS TAKEN: 3-14-12	PHOTOS TAKEN BY: A.F.	SHEET NO: 12
DATE DRAWN: 3-21-12	DRAWN BY: T.J.R.	
Date Last Revised:		12 OF 19



NBU 921-20B1CS
 NBU 921-20A1BS
 NBU 921-20B1BS
 NBU 921-20B
 NBU 921-20A1CS
 NBU 921-20B4CS
 NBU 921-20C1BS

Legend

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

Distance From Well Pad - NBU 921-20B To Unit Boundary: ±11,312ft

WELL PAD - NBU 921-20B

TOPO A
 NBU 921-20B1CS,
 NBU 921-20A1BS, NBU 921-20B1BS,
 NBU 921-20B, NBU 921-20A1CS,
 NBU 921-20B4CS & NBU 921-20C1BS
 LOCATED IN SECTION 20, T9S, R21E,
 S.L.B.&M., UINTAH COUNTY, UTAH

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

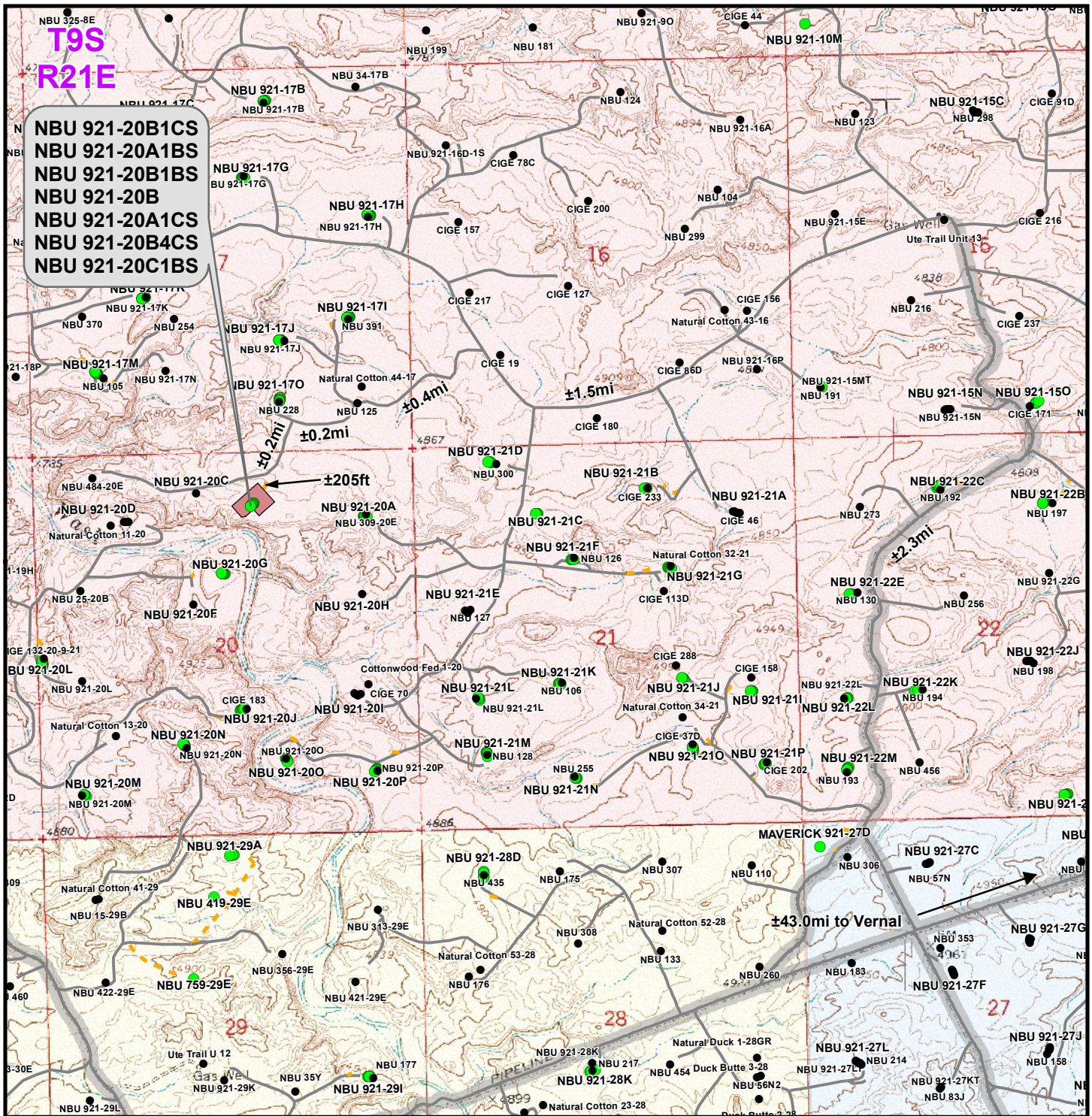
1099 18th Street
 Denver, Colorado 80202



CONSULTING, LLC
 2155 North Main Street
 Sheridan, Wyoming 82801
 Phone 307-674-0609
 Fax 307-674-0182



SCALE: 1:100,000	NAD83 USP Central	SHEET NO:
DRAWN: TL	DATE: 17 Apr 2012	13
REVISED:	DATE:	



Legend

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

Total Proposed Road Length: ±205ft

WELL PAD - NBU 921-20B

TOPO B
 NBU 921-20B1CS,
 NBU 921-20A1BS, NBU 921-20B1BS,
 NBU 921-20B, NBU 921-20A1CS,
 NBU 921-20B4CS & NBU 921-20C1BS
 LOCATED IN SECTION 20, T9S, R21E,
 S.L.B.&M., Uintah County, Utah

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

1099 18th Street
 Denver, Colorado 80202

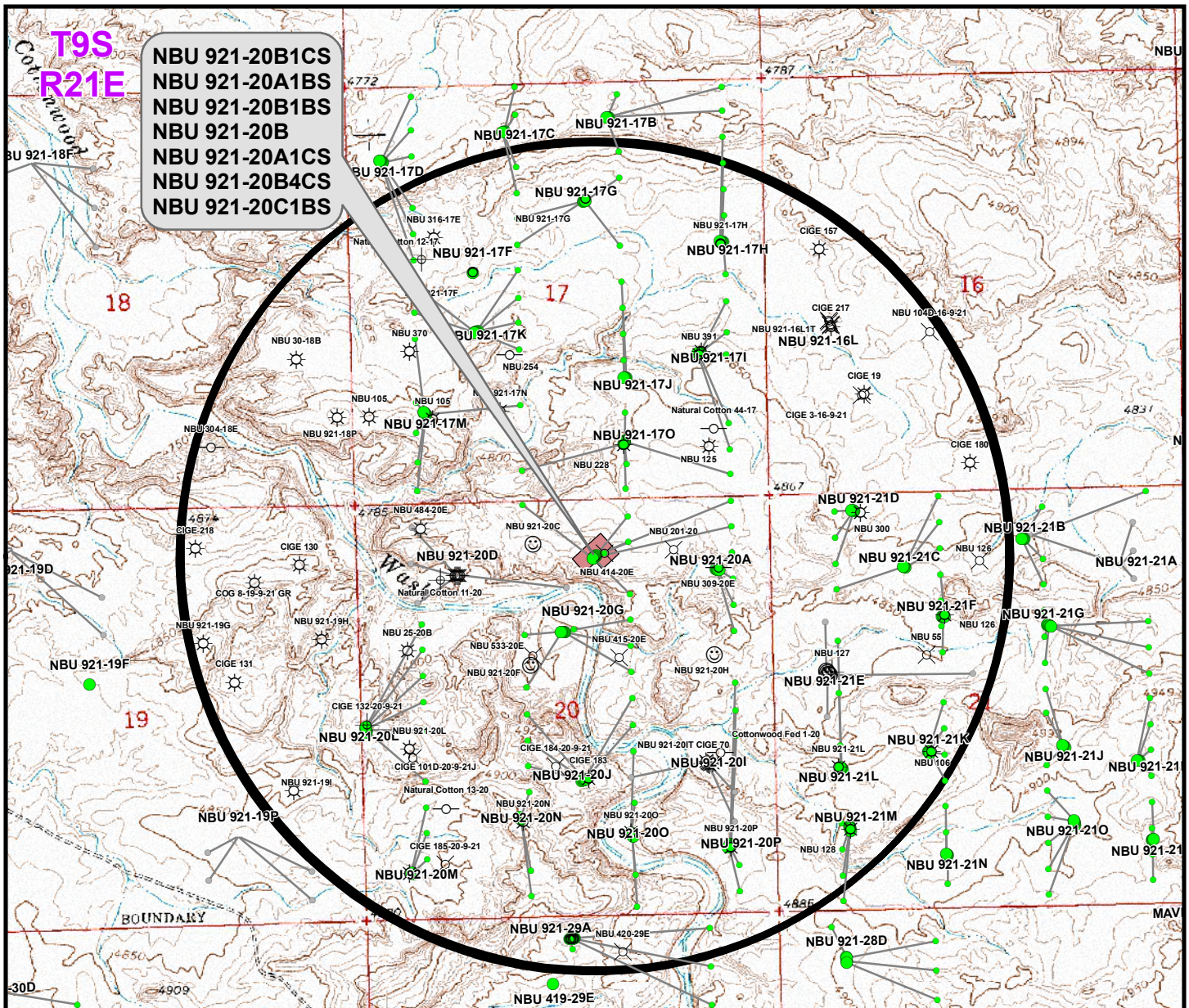


CONSULTING, LLC

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



SCALE: 1" = 2,000ft	NAD83 USP Central	SHEET NO:	14
DRAWN: TL	DATE: 17 Apr 2012		
REVISED:	DATE:		



**T9S
R21E**

NBU 921-20B1CS
 NBU 921-20A1BS
 NBU 921-20B1BS
 NBU 921-20B
 NBU 921-20A1CS
 NBU 921-20B4CS
 NBU 921-20C1BS

Well locations derived from Utah Division of Oil, Gas and Mining (UDOGM) (oilgas.ogm.utah.gov). The estimated distances from proposed bore locations to the nearest existing bore locations are based on UDOGM data.

Proposed Well	Nearest Well Bore	Footage
NBU 921-20B1CS	NBU 921-20B3CS BH	982ft
NBU 921-20A1BS	NBU 125	750ft
NBU 921-20B1BS	NBU 228	908ft
NBU 921-20B	NBU 921-20B3CS BH	655ft
NBU 921-20A1CS	NBU 309-20E	545ft
NBU 921-20B4CS	NBU 921-20B3CS BH	811ft
NBU 921-20C1BS	NBU 921-20C	520ft

Legend

- Well - Proposed
- Well Path
- ☀ Producing
- ⊕ Deferred
- ☀ Active Injector
- ⊕ Plugged & Abandoned
- Bottom Hole - Proposed
- Well Pad
- ☺ Spudded
- ⊗ Cancelled
- ☀ Location Abandoned
- ⊕ Shut-In
- Bottom Hole - Existing
- ◻ Well - 1 Mile Radius
- APD Approved
- ⊖ Temporarily Abandoned
- ⊖ Preliminary Location

WELL PAD - NBU 921-20B

TOPO C
 NBU 921-20B1CS,
 NBU 921-20A1BS, NBU 921-20B1BS,
 NBU 921-20B, NBU 921-20A1CS,
 NBU 921-20B4CS & NBU 921-20C1BS
 LOCATED IN SECTION 20, T9S, R21E,
 S.L.B.&M., Uintah County, Utah

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

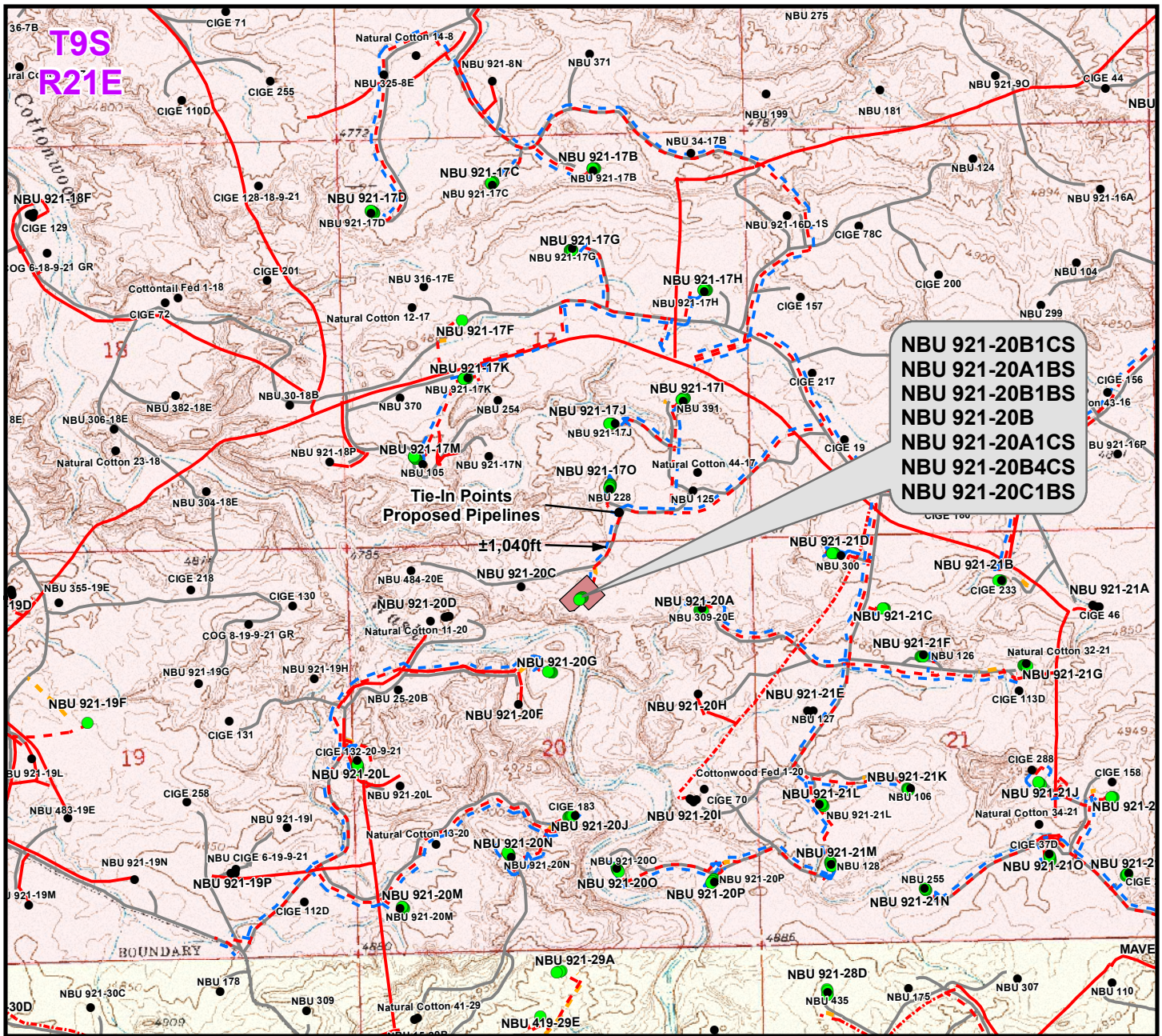
1099 18th Street
 Denver, Colorado 80202



CONSULTING, LLC
 2155 North Main Street
 Sheridan, Wyoming 82801
 Phone 307-674-0609
 Fax 307-674-0182

SCALE: 1" = 2,000ft	NAD83 USP Central	15
DRAWN: TL	DATE: 17 Apr 2012	
REVISED:	DATE:	

SHEET NO:
15 OF 19



**NBU 921-20B1CS
 NBU 921-20A1BS
 NBU 921-20B1BS
 NBU 921-20B
 NBU 921-20A1CS
 NBU 921-20B4CS
 NBU 921-20C1BS**

**Tie-In Points
 Proposed Pipelines**

±1,040ft

Proposed Liquid Pipeline	Length	Proposed Gas Pipeline	Length
Buried 6" (Max.) (Meter House to Edge of Pad)	±140ft	Buried 8" (Meter House to Edge of Pad)	±140ft
Buried 6" (Max.) (Edge of Pad to 921-170 Intersection)	±1,040ft	Buried 8" (Edge of Pad to 921-170 Intersection)	±1,040ft
TOTAL PROPOSED BURIED LIQUID PIPELINE =	±1,180ft	TOTAL PROPOSED BURIED GAS PIPELINE =	±1,180ft

Legend


● Well - Proposed	- - - Gas Pipeline - Proposed	- - - Liquid Pipeline - Proposed	- - - Road - Proposed	■ Bureau of Land Management	■ State
● Well - Existing	- - - Gas Pipeline - To Be Upgraded	- - - Liquid Pipeline - Existing	- - - Road - Existing	■ Indian Reservation	■ Private
■ Well Pad	- - - Gas Pipeline - Existing				

WELL PAD - NBU 921-20B

TOPO D
 NBU 921-20B1CS,
 NBU 921-20A1BS, NBU 921-20B1BS,
 NBU 921-20B, NBU 921-20A1CS,
 NBU 921-20B4CS & NBU 921-20C1BS
 LOCATED IN SECTION 20, T9S, R21E,
 S.L.B.&M., Uintah County, Utah

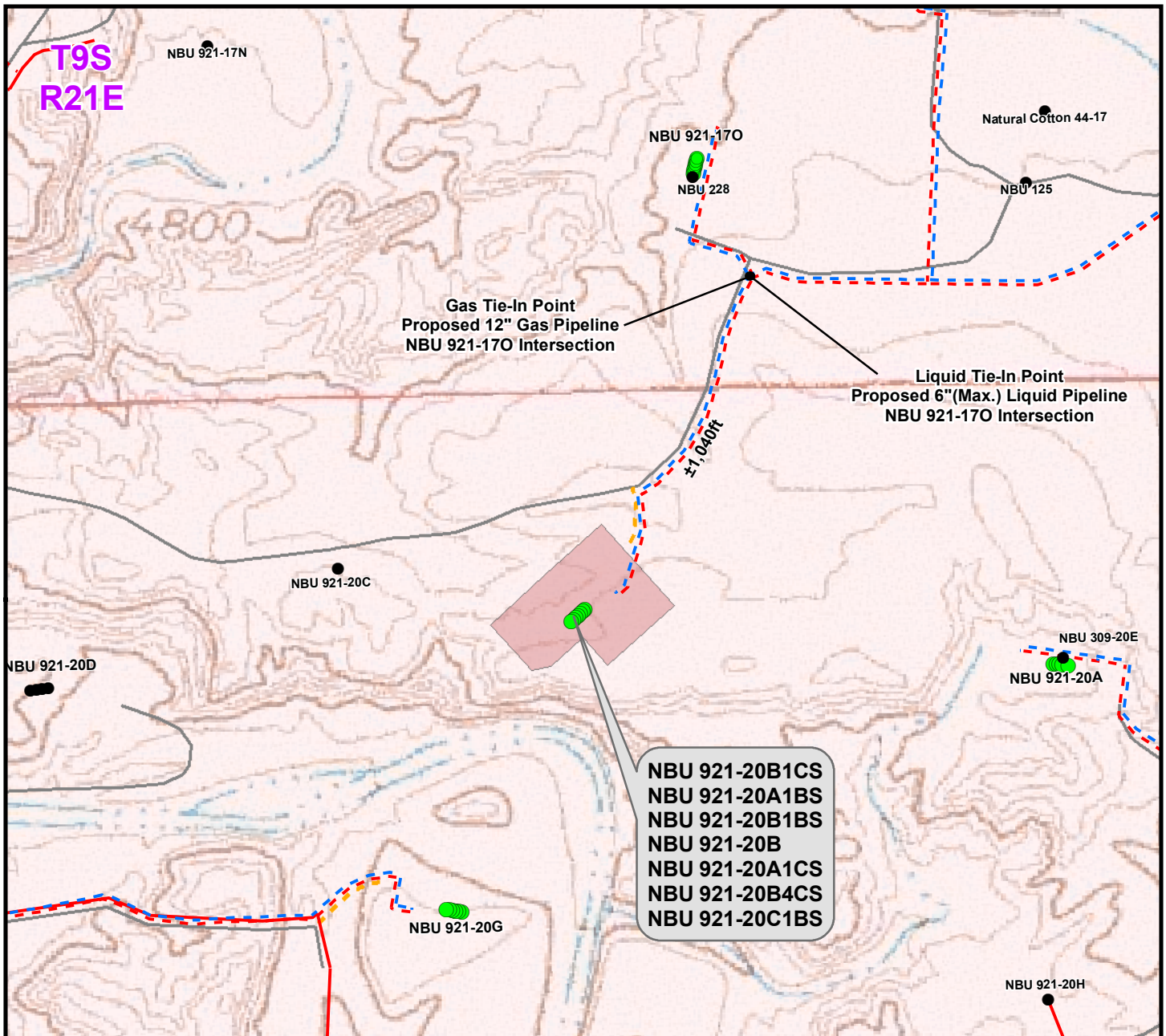
**Kerr-McGee Oil &
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1099 18th Street
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SCALE: 1" = 2,000ft	NAD83 USP Central	16 16 OF 19
DRAWN: TL	DATE: 17 Apr 2012	
REVISED:	DATE:	



NBU 921-20B1CS
 NBU 921-20A1BS
 NBU 921-20B1BS
 NBU 921-20B
 NBU 921-20A1CS
 NBU 921-20B4CS
 NBU 921-20C1BS

Proposed Liquid Pipeline	Length
Buried 6" (Max.) (Meter House to Edge of Pad)	±140ft
Buried 6" (Max.) (Edge of Pad to 921-170 Intersection)	±1,040ft
TOTAL PROPOSED BURIED LIQUID PIPELINE =	±1,180ft

Proposed Gas Pipeline	Length
Buried 8" (Meter House to Edge of Pad)	±140ft
Buried 8" (Edge of Pad to 921-170 Intersection)	±1,040ft
TOTAL PROPOSED BURIED GAS PIPELINE =	±1,180ft

Legend

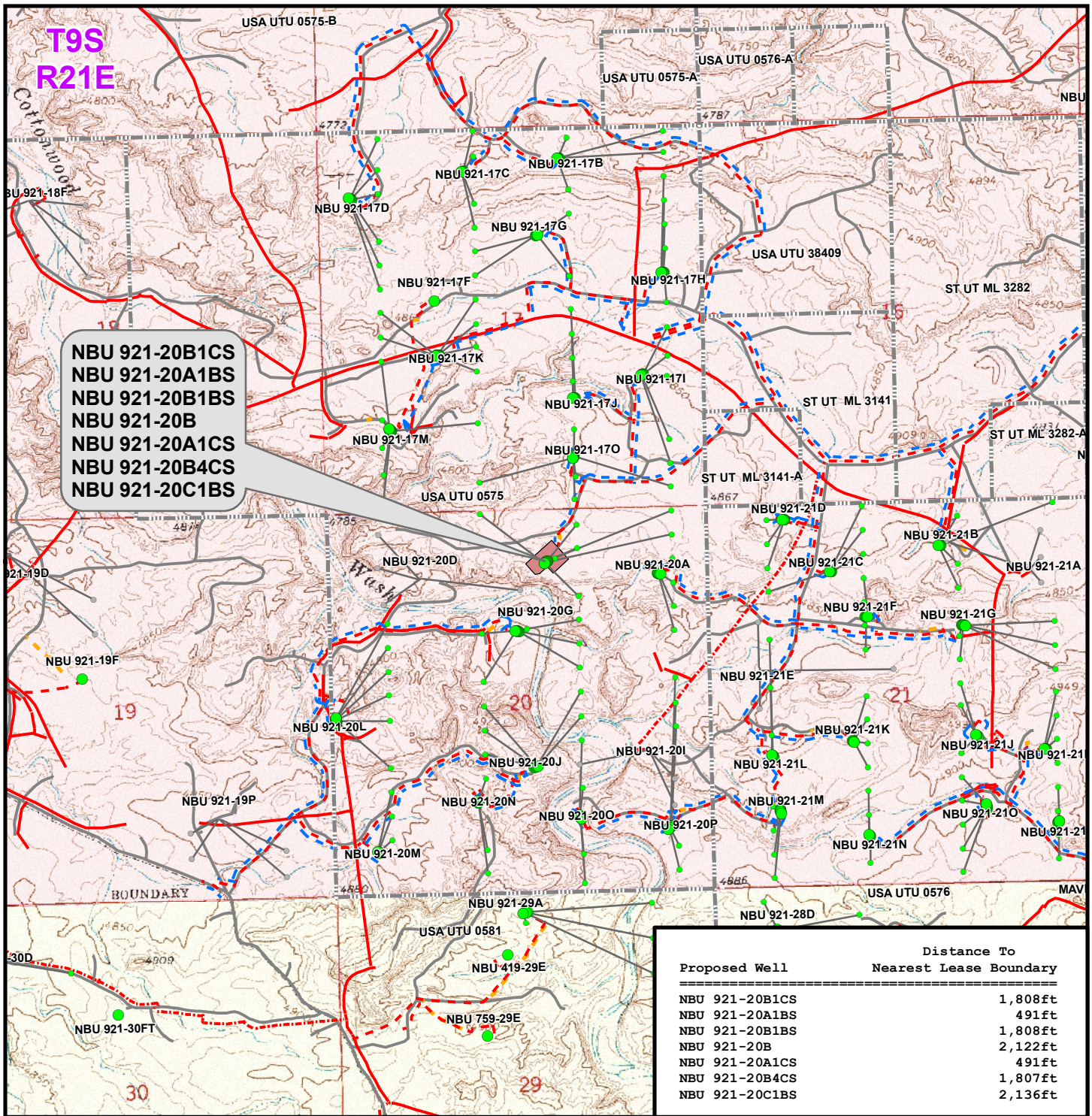
- Well - Proposed ■ Well Pad - Proposed - - - Gas Pipeline - Proposed - - - Liquid Pipeline - Proposed - - - Road - Proposed ■ Bureau of Land Management
- Well - Existing ■ Well Pad - Existing - - - Gas Pipeline - To Be Upgraded - - - Liquid Pipeline - Existing - - - Road - Existing ■ Indian Reservation
- - - Gas Pipeline - Existing - - - State ■ Private

WELL PAD - NBU 921-20B
 TOPO D2 (PAD & PIPELINE DETAIL)
 NBU 921-20B1CS,
 NBU 921-20A1BS, NBU 921-20B1BS,
 NBU 921-20B, NBU 921-20A1CS,
 NBU 921-20B4CS & NBU 921-20C1BS
 LOCATED IN SECTION 20, T9S, R21E,
 S.L.B.&M., UINTAH COUNTY, UTAH

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 Denver, Colorado 80202

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SCALE: 1" = 500ft NAD83 USP Central SHEET NO:
 DRAWN: TL DATE: 17 Apr 2012 **17**
 REVISED: DATE: 17 OF 19



NBU 921-20B1CS
 NBU 921-20A1BS
 NBU 921-20B1BS
 NBU 921-20B
 NBU 921-20A1CS
 NBU 921-20B4CS
 NBU 921-20C1BS

Proposed Well	Distance To Nearest Lease Boundary
NBU 921-20B1CS	1,808ft
NBU 921-20A1BS	491ft
NBU 921-20B1BS	1,808ft
NBU 921-20B	2,122ft
NBU 921-20A1CS	491ft
NBU 921-20B4CS	1,807ft
NBU 921-20C1BS	2,136ft

Legend

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

WELL PAD - NBU 921-20B

TOPO E
 NBU 921-20B1CS,
 NBU 921-20A1BS, NBU 921-20B1BS,
 NBU 921-20B, NBU 921-20A1CS,
 NBU 921-20B4CS & NBU 921-20C1BS
 LOCATED IN SECTION 20, T9S, R21E,
 S.L.B.&M., Uintah County, Utah

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

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 Denver, Colorado 80202



CONSULTING, LLC
 2155 North Main Street
 Sheridan, Wyoming 82801
 Phone 307-674-0609
 Fax 307-674-0182

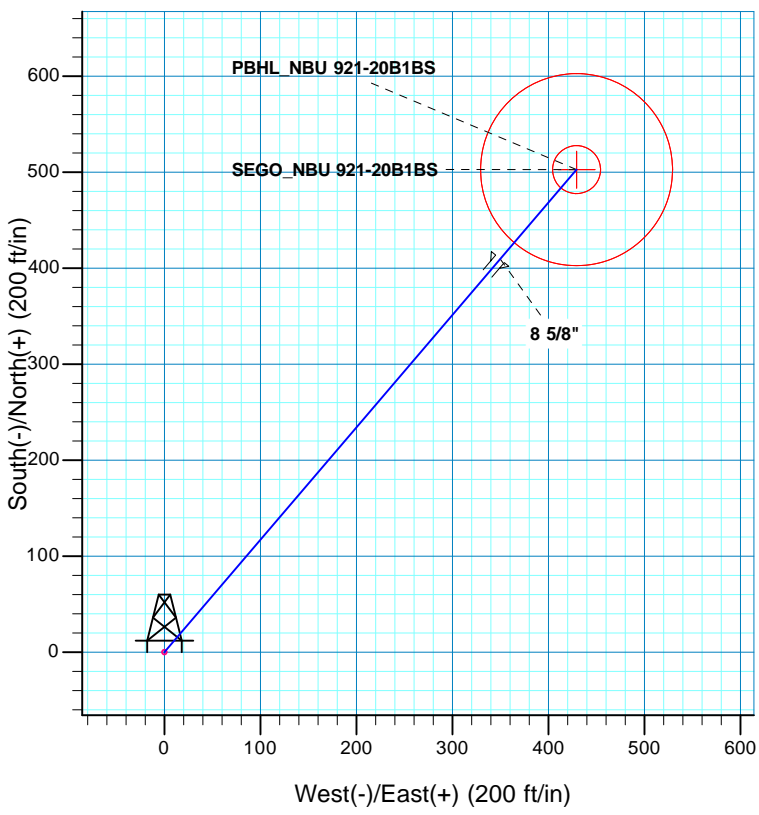
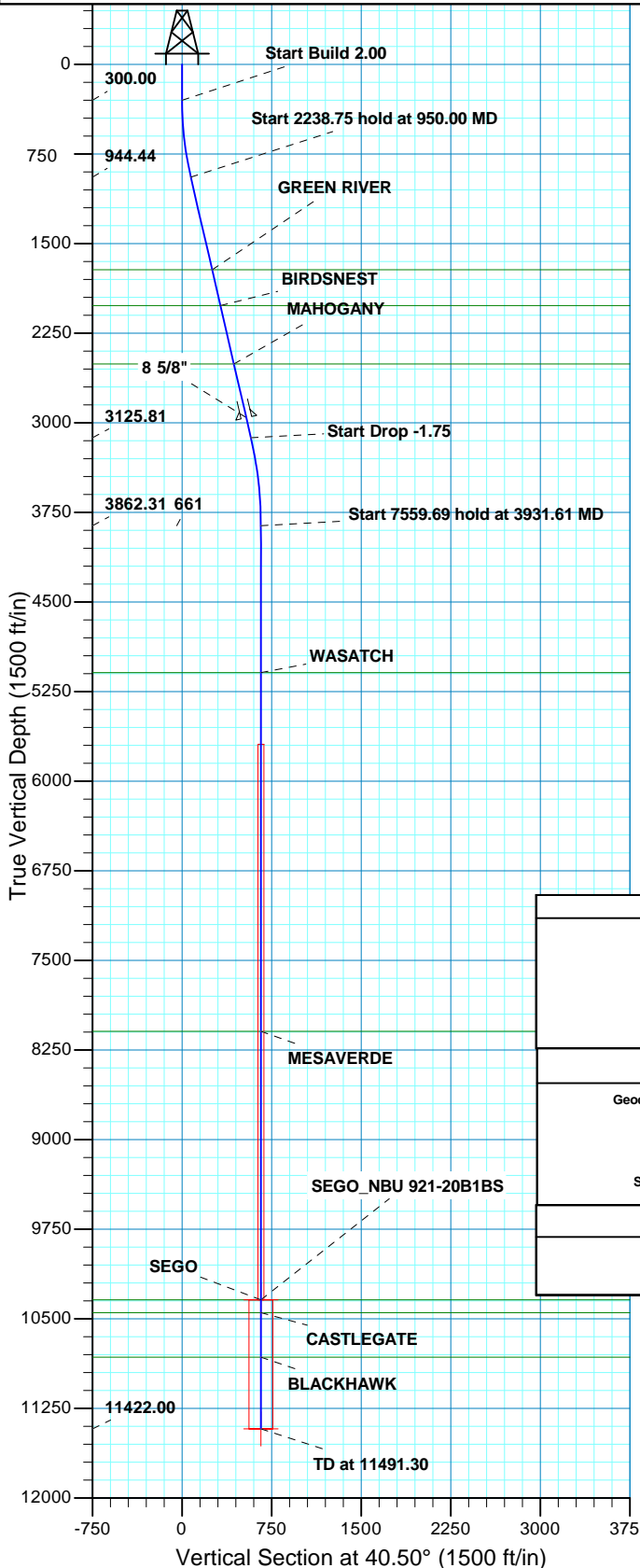
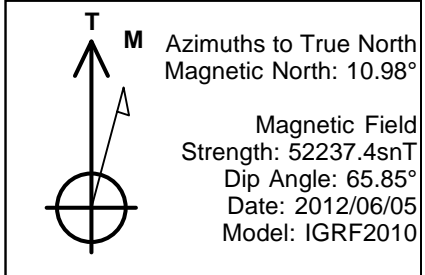
SCALE: 1" = 2,000ft	NAD83 USP Central	SHEET NO:
DRAWN: TL	DATE: 17 Apr 2012	18
REVISED:	DATE:	

**Kerr-McGee Oil & Gas Onshore, LP
WELL PAD - NBU 921-20B
WELLS - NBU 921-20B1CS,
NBU 921-20A1BS, NBU 921-20B1BS,
NBU 921-20B, NBU 921-20A1CS,
NBU 921-20B4CS & NBU 921-20C1BS
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 1.8 miles to a second Class D County Road to the north. Exit right and proceed in a northerly direction along the second Class D County Road approximately 2.3 miles to a Tribal Road to the southwest. Continue in a southwesterly, then northwesterly direction along the Tribal Road approximately 1.5 miles to a service road to the west. Exit left and proceed in a westerly, then southwesterly direction along the service road approximately 0.4 miles to a second service road to the south. Exit left and proceed in a southerly, then westerly direction along the second service road approximately 0.2 miles to a third service road to the southwest. Exit left and proceed in a southwesterly direction along the third service road approximately 0.2 miles to the proposed access road to the south. Follow road flags in a southerly direction approximately 205 feet to the proposed well location.

Total distance from Vernal, Utah to the proposed well location is approximately 47.6 miles in a southerly direction.

WELL DETAILS: NBU 921-20B1BS									
GL 4872 & KB 4 @ 4877.00ft (ASSUMED)									
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude				
0.00	0.00	14539004.29	2039779.18	40.026809	-109.573470				
DESIGN TARGET DETAILS									
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape	
SEGO	10342.00	502.60	429.23	14539513.70	2040200.31	40.028189	-109.571937	Circle (Radius: 25.00)	
- plan hits target center									
PBHL	11422.00	502.60	429.23	14539513.70	2040200.31	40.028189	-109.571937	Circle (Radius: 100.00)	
- plan hits target center									



SECTION DETAILS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
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	
950.00	13.00	40.50	944.44	55.83	47.68	2.00	40.50	73.42	
3188.75	13.00	40.50	3125.81	438.79	374.74	0.00	0.00	577.03	
3931.61	0.00	0.00	3862.31	502.60	429.23	1.75	180.00	660.95	
11491.30	0.00	0.00	11422.00	502.60	429.23	0.00	0.00	660.95	PBHL_NBU 921-20B1BS

PROJECT DETAILS: Uintah County, UT UTM12			TVDPATH	MDPATH	Formation
Geodetic System: Universal Transverse Mercator (US Survey Feet)			1719.00	1744.94	GREEN RIVER
Datum: NAD 1927 - Western US			2019.00	2052.83	BIRDSNEST
Ellipsoid: Clarke 1866			2509.00	2555.72	MAHOGANY
Zone: Zone 12N (114 W to 108 W)			5092.00	5161.30	WASATCH
Location: SECTION 20 T9S R21E			8095.00	8164.30	MESAVERDE
System Datum: Mean Sea Level			10342.00	10411.30	SEGO
			10450.00	10519.30	CASTLEGATE
			10822.00	10891.30	BLACKHAWK

CASING DETAILS				
TVD	MD	Name	Size	
2959.00	3017.55	8 5/8"	8.625	

RECEIVED :



Scientific Drilling

Kerr McGee Oil and Gas Onshore LP

Uintah County, UT UTM12

NBU 921-20B PAD

NBU 921-20B1BS

OH

Plan: PLAN #1 PRELIMINARY

Standard Planning Report

06 June, 2012





Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 921-20B1BS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 4872 & KB 4 @ 4877.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 4872 & KB 4 @ 4877.00ft (ASSUMED)
Site:	NBU 921-20B PAD	North Reference:	True
Well:	NBU 921-20B1BS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1 PRELIMINARY		

Project	Uintah County, UT UTM12		
Map System:	Universal Transverse Mercator (US Survey Feet)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 - Western US		
Map Zone:	Zone 12N (114 W to 108 W)		

Site	NBU 921-20B PAD, SECTION 20 T9S R21E				
Site Position:	Northing:	14,539,017.64 usft	Latitude:	40.026845	
From: Lat/Long	Easting:	2,039,794.09 usft	Longitude:	-109.573416	
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence:	0.92 °

Well	NBU 921-20B1BS, 751 FNL 2238 FEL					
Well Position	+N/-S	-13.11 ft	Northing:	14,539,004.29 usft	Latitude:	40.026809
	+E/-W	-15.12 ft	Easting:	2,039,779.18 usft	Longitude:	-109.573470
Position Uncertainty		0.00 ft	Wellhead Elevation:		Ground Level:	4,873.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	2012/06/05	10.98	65.85	52,237

Design	PLAN #1 PRELIMINARY			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	40.50

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
950.00	13.00	40.50	944.44	55.83	47.68	2.00	2.00	0.00	40.50	
3,188.75	13.00	40.50	3,125.81	438.79	374.74	0.00	0.00	0.00	0.00	
3,931.61	0.00	0.00	3,862.31	502.60	429.23	1.75	-1.75	0.00	180.00	
11,491.30	0.00	0.00	11,422.00	502.60	429.23	0.00	0.00	0.00	0.00	PBHL_NBU 921-20B'



Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 921-20B1BS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 4872 & KB 4 @ 4877.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 4872 & KB 4 @ 4877.00ft (ASSUMED)
Site:	NBU 921-20B PAD	North Reference:	True
Well:	NBU 921-20B1BS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1 PRELIMINARY		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 2.00										
400.00	2.00	40.50	399.98	1.33	1.13	1.75	2.00	2.00	2.00	0.00
500.00	4.00	40.50	499.84	5.31	4.53	6.98	2.00	2.00	2.00	0.00
600.00	6.00	40.50	599.45	11.93	10.19	15.69	2.00	2.00	2.00	0.00
700.00	8.00	40.50	698.70	21.20	18.11	27.88	2.00	2.00	2.00	0.00
800.00	10.00	40.50	797.47	33.10	28.26	43.52	2.00	2.00	2.00	0.00
900.00	12.00	40.50	895.62	47.60	40.66	62.60	2.00	2.00	2.00	0.00
950.00	13.00	40.50	944.44	55.83	47.68	73.42	2.00	2.00	2.00	0.00
Start 2238.75 hold at 950.00 MD										
1,000.00	13.00	40.50	993.16	64.39	54.99	84.67	0.00	0.00	0.00	0.00
1,100.00	13.00	40.50	1,090.59	81.49	69.60	107.17	0.00	0.00	0.00	0.00
1,200.00	13.00	40.50	1,188.03	98.60	84.21	129.66	0.00	0.00	0.00	0.00
1,300.00	13.00	40.50	1,285.47	115.70	98.81	152.16	0.00	0.00	0.00	0.00
1,400.00	13.00	40.50	1,382.90	132.81	113.42	174.65	0.00	0.00	0.00	0.00
1,500.00	13.00	40.50	1,480.34	149.92	128.03	197.15	0.00	0.00	0.00	0.00
1,600.00	13.00	40.50	1,577.78	167.02	142.64	219.64	0.00	0.00	0.00	0.00
1,700.00	13.00	40.50	1,675.21	184.13	157.25	242.14	0.00	0.00	0.00	0.00
1,744.94	13.00	40.50	1,719.00	191.82	163.81	252.25	0.00	0.00	0.00	0.00
GREEN RIVER										
1,800.00	13.00	40.50	1,772.65	201.23	171.86	264.63	0.00	0.00	0.00	0.00
1,900.00	13.00	40.50	1,870.09	218.34	186.47	287.13	0.00	0.00	0.00	0.00
2,000.00	13.00	40.50	1,967.53	235.45	201.08	309.62	0.00	0.00	0.00	0.00
2,052.83	13.00	40.50	2,019.00	244.48	208.79	321.51	0.00	0.00	0.00	0.00
BIRDSNEST										
2,100.00	13.00	40.50	2,064.96	252.55	215.68	332.12	0.00	0.00	0.00	0.00
2,200.00	13.00	40.50	2,162.40	269.66	230.29	354.61	0.00	0.00	0.00	0.00
2,300.00	13.00	40.50	2,259.84	286.76	244.90	377.11	0.00	0.00	0.00	0.00
2,400.00	13.00	40.50	2,357.27	303.87	259.51	399.60	0.00	0.00	0.00	0.00
2,500.00	13.00	40.50	2,454.71	320.98	274.12	422.10	0.00	0.00	0.00	0.00
2,555.72	13.00	40.50	2,509.00	330.51	282.26	434.63	0.00	0.00	0.00	0.00
MAHOGANY										
2,600.00	13.00	40.50	2,552.15	338.08	288.73	444.59	0.00	0.00	0.00	0.00
2,700.00	13.00	40.50	2,649.58	355.19	303.34	467.09	0.00	0.00	0.00	0.00
2,800.00	13.00	40.50	2,747.02	372.29	317.95	489.58	0.00	0.00	0.00	0.00
2,900.00	13.00	40.50	2,844.46	389.40	332.55	512.08	0.00	0.00	0.00	0.00
3,000.00	13.00	40.50	2,941.90	406.51	347.16	534.57	0.00	0.00	0.00	0.00
3,017.55	13.00	40.50	2,959.00	409.51	349.73	538.52	0.00	0.00	0.00	0.00
8 5/8"										
3,100.00	13.00	40.50	3,039.33	423.61	361.77	557.07	0.00	0.00	0.00	0.00
3,188.75	13.00	40.50	3,125.81	438.79	374.74	577.03	0.00	0.00	0.00	0.00
Start Drop -1.75										
3,200.00	12.80	40.50	3,136.77	440.70	376.37	579.55	1.75	-1.75	0.00	0.00
3,300.00	11.05	40.50	3,234.61	456.42	389.79	600.21	1.75	-1.75	0.00	0.00
3,400.00	9.30	40.50	3,333.03	469.86	401.27	617.88	1.75	-1.75	0.00	0.00
3,500.00	7.55	40.50	3,431.95	481.00	410.78	632.54	1.75	-1.75	0.00	0.00
3,600.00	5.80	40.50	3,531.27	489.84	418.34	644.17	1.75	-1.75	0.00	0.00
3,700.00	4.05	40.50	3,630.89	496.38	423.91	652.76	1.75	-1.75	0.00	0.00
3,800.00	2.30	40.50	3,730.74	500.59	427.51	658.30	1.75	-1.75	0.00	0.00
3,900.00	0.55	40.50	3,830.70	502.49	429.13	660.79	1.75	-1.75	0.00	0.00



Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 921-20B1BS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 4872 & KB 4 @ 4877.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 4872 & KB 4 @ 4877.00ft (ASSUMED)
Site:	NBU 921-20B PAD	North Reference:	True
Well:	NBU 921-20B1BS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1 PRELIMINARY		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
3,931.61	0.00	0.00	3,862.31	502.60	429.23	660.95	1.75	-1.75	0.00	
Start 7559.69 hold at 3931.61 MD										
4,000.00	0.00	0.00	3,930.70	502.60	429.23	660.95	0.00	0.00	0.00	
4,100.00	0.00	0.00	4,030.70	502.60	429.23	660.95	0.00	0.00	0.00	
4,200.00	0.00	0.00	4,130.70	502.60	429.23	660.95	0.00	0.00	0.00	
4,300.00	0.00	0.00	4,230.70	502.60	429.23	660.95	0.00	0.00	0.00	
4,400.00	0.00	0.00	4,330.70	502.60	429.23	660.95	0.00	0.00	0.00	
4,500.00	0.00	0.00	4,430.70	502.60	429.23	660.95	0.00	0.00	0.00	
4,600.00	0.00	0.00	4,530.70	502.60	429.23	660.95	0.00	0.00	0.00	
4,700.00	0.00	0.00	4,630.70	502.60	429.23	660.95	0.00	0.00	0.00	
4,800.00	0.00	0.00	4,730.70	502.60	429.23	660.95	0.00	0.00	0.00	
4,900.00	0.00	0.00	4,830.70	502.60	429.23	660.95	0.00	0.00	0.00	
5,000.00	0.00	0.00	4,930.70	502.60	429.23	660.95	0.00	0.00	0.00	
5,100.00	0.00	0.00	5,030.70	502.60	429.23	660.95	0.00	0.00	0.00	
5,161.30	0.00	0.00	5,092.00	502.60	429.23	660.95	0.00	0.00	0.00	
WASATCH										
5,200.00	0.00	0.00	5,130.70	502.60	429.23	660.95	0.00	0.00	0.00	
5,300.00	0.00	0.00	5,230.70	502.60	429.23	660.95	0.00	0.00	0.00	
5,400.00	0.00	0.00	5,330.70	502.60	429.23	660.95	0.00	0.00	0.00	
5,500.00	0.00	0.00	5,430.70	502.60	429.23	660.95	0.00	0.00	0.00	
5,600.00	0.00	0.00	5,530.70	502.60	429.23	660.95	0.00	0.00	0.00	
5,700.00	0.00	0.00	5,630.70	502.60	429.23	660.95	0.00	0.00	0.00	
5,800.00	0.00	0.00	5,730.70	502.60	429.23	660.95	0.00	0.00	0.00	
5,900.00	0.00	0.00	5,830.70	502.60	429.23	660.95	0.00	0.00	0.00	
6,000.00	0.00	0.00	5,930.70	502.60	429.23	660.95	0.00	0.00	0.00	
6,100.00	0.00	0.00	6,030.70	502.60	429.23	660.95	0.00	0.00	0.00	
6,200.00	0.00	0.00	6,130.70	502.60	429.23	660.95	0.00	0.00	0.00	
6,300.00	0.00	0.00	6,230.70	502.60	429.23	660.95	0.00	0.00	0.00	
6,400.00	0.00	0.00	6,330.70	502.60	429.23	660.95	0.00	0.00	0.00	
6,500.00	0.00	0.00	6,430.70	502.60	429.23	660.95	0.00	0.00	0.00	
6,600.00	0.00	0.00	6,530.70	502.60	429.23	660.95	0.00	0.00	0.00	
6,700.00	0.00	0.00	6,630.70	502.60	429.23	660.95	0.00	0.00	0.00	
6,800.00	0.00	0.00	6,730.70	502.60	429.23	660.95	0.00	0.00	0.00	
6,900.00	0.00	0.00	6,830.70	502.60	429.23	660.95	0.00	0.00	0.00	
7,000.00	0.00	0.00	6,930.70	502.60	429.23	660.95	0.00	0.00	0.00	
7,100.00	0.00	0.00	7,030.70	502.60	429.23	660.95	0.00	0.00	0.00	
7,200.00	0.00	0.00	7,130.70	502.60	429.23	660.95	0.00	0.00	0.00	
7,300.00	0.00	0.00	7,230.70	502.60	429.23	660.95	0.00	0.00	0.00	
7,400.00	0.00	0.00	7,330.70	502.60	429.23	660.95	0.00	0.00	0.00	
7,500.00	0.00	0.00	7,430.70	502.60	429.23	660.95	0.00	0.00	0.00	
7,600.00	0.00	0.00	7,530.70	502.60	429.23	660.95	0.00	0.00	0.00	
7,700.00	0.00	0.00	7,630.70	502.60	429.23	660.95	0.00	0.00	0.00	
7,800.00	0.00	0.00	7,730.70	502.60	429.23	660.95	0.00	0.00	0.00	
7,900.00	0.00	0.00	7,830.70	502.60	429.23	660.95	0.00	0.00	0.00	
8,000.00	0.00	0.00	7,930.70	502.60	429.23	660.95	0.00	0.00	0.00	
8,100.00	0.00	0.00	8,030.70	502.60	429.23	660.95	0.00	0.00	0.00	
8,164.30	0.00	0.00	8,095.00	502.60	429.23	660.95	0.00	0.00	0.00	
MESAVERDE										
8,200.00	0.00	0.00	8,130.70	502.60	429.23	660.95	0.00	0.00	0.00	
8,300.00	0.00	0.00	8,230.70	502.60	429.23	660.95	0.00	0.00	0.00	
8,400.00	0.00	0.00	8,330.70	502.60	429.23	660.95	0.00	0.00	0.00	
8,500.00	0.00	0.00	8,430.70	502.60	429.23	660.95	0.00	0.00	0.00	
8,600.00	0.00	0.00	8,530.70	502.60	429.23	660.95	0.00	0.00	0.00	



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Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 4872 & KB 4 @ 4877.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 4872 & KB 4 @ 4877.00ft (ASSUMED)
Site:	NBU 921-20B PAD	North Reference:	True
Well:	NBU 921-20B1BS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1 PRELIMINARY		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
8,700.00	0.00	0.00	8,630.70	502.60	429.23	660.95	0.00	0.00	0.00
8,800.00	0.00	0.00	8,730.70	502.60	429.23	660.95	0.00	0.00	0.00
8,900.00	0.00	0.00	8,830.70	502.60	429.23	660.95	0.00	0.00	0.00
9,000.00	0.00	0.00	8,930.70	502.60	429.23	660.95	0.00	0.00	0.00
9,100.00	0.00	0.00	9,030.70	502.60	429.23	660.95	0.00	0.00	0.00
9,200.00	0.00	0.00	9,130.70	502.60	429.23	660.95	0.00	0.00	0.00
9,300.00	0.00	0.00	9,230.70	502.60	429.23	660.95	0.00	0.00	0.00
9,400.00	0.00	0.00	9,330.70	502.60	429.23	660.95	0.00	0.00	0.00
9,500.00	0.00	0.00	9,430.70	502.60	429.23	660.95	0.00	0.00	0.00
9,600.00	0.00	0.00	9,530.70	502.60	429.23	660.95	0.00	0.00	0.00
9,700.00	0.00	0.00	9,630.70	502.60	429.23	660.95	0.00	0.00	0.00
9,800.00	0.00	0.00	9,730.70	502.60	429.23	660.95	0.00	0.00	0.00
9,900.00	0.00	0.00	9,830.70	502.60	429.23	660.95	0.00	0.00	0.00
10,000.00	0.00	0.00	9,930.70	502.60	429.23	660.95	0.00	0.00	0.00
10,100.00	0.00	0.00	10,030.70	502.60	429.23	660.95	0.00	0.00	0.00
10,200.00	0.00	0.00	10,130.70	502.60	429.23	660.95	0.00	0.00	0.00
10,300.00	0.00	0.00	10,230.70	502.60	429.23	660.95	0.00	0.00	0.00
10,400.00	0.00	0.00	10,330.70	502.60	429.23	660.95	0.00	0.00	0.00
10,411.30	0.00	0.00	10,342.00	502.60	429.23	660.95	0.00	0.00	0.00
SEGO - SEGO_NBU 921-20B1BS									
10,500.00	0.00	0.00	10,430.70	502.60	429.23	660.95	0.00	0.00	0.00
10,519.30	0.00	0.00	10,450.00	502.60	429.23	660.95	0.00	0.00	0.00
CASTLEGATE									
10,600.00	0.00	0.00	10,530.70	502.60	429.23	660.95	0.00	0.00	0.00
10,700.00	0.00	0.00	10,630.70	502.60	429.23	660.95	0.00	0.00	0.00
10,800.00	0.00	0.00	10,730.70	502.60	429.23	660.95	0.00	0.00	0.00
10,891.30	0.00	0.00	10,822.00	502.60	429.23	660.95	0.00	0.00	0.00
BLACKHAWK									
10,900.00	0.00	0.00	10,830.70	502.60	429.23	660.95	0.00	0.00	0.00
11,000.00	0.00	0.00	10,930.70	502.60	429.23	660.95	0.00	0.00	0.00
11,100.00	0.00	0.00	11,030.70	502.60	429.23	660.95	0.00	0.00	0.00
11,200.00	0.00	0.00	11,130.70	502.60	429.23	660.95	0.00	0.00	0.00
11,300.00	0.00	0.00	11,230.70	502.60	429.23	660.95	0.00	0.00	0.00
11,400.00	0.00	0.00	11,330.70	502.60	429.23	660.95	0.00	0.00	0.00
11,491.30	0.00	0.00	11,422.00	502.60	429.23	660.95	0.00	0.00	0.00
TD at 11491.30 - PBHL_NBU 921-20B1BS									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
SEGO_NBU 921-20B1B - hit/miss target - Shape	0.00	0.00	10,342.00	502.60	429.23	14,539,513.70	2,040,200.31	40.028189	-109.571937
- plan hits target center									
- Circle (radius 25.00)									
PBHL_NBU 921-20B1B - hit/miss target - Shape	0.00	0.00	11,422.00	502.60	429.23	14,539,513.70	2,040,200.31	40.028189	-109.571937
- plan hits target center									
- Circle (radius 100.00)									



Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 921-20B1BS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 4872 & KB 4 @ 4877.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 4872 & KB 4 @ 4877.00ft (ASSUMED)
Site:	NBU 921-20B PAD	North Reference:	True
Well:	NBU 921-20B1BS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1 PRELIMINARY		

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)	
3,017.55	2,959.00	8 5/8"	8.625	11.000	

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,744.94	1,719.00	GREEN RIVER			
2,052.83	2,019.00	BIRDSNEST			
2,555.72	2,509.00	MAHOGANY			
5,161.30	5,092.00	WASATCH			
8,164.30	8,095.00	MESAVERDE			
10,411.30	10,342.00	SEGO			
10,519.30	10,450.00	CASTLEGATE			
10,891.30	10,822.00	BLACKHAWK			

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment	
		+N/-S (ft)	+E/-W (ft)		
300.00	300.00	0.00	0.00	Start Build 2.00	
950.00	944.44	55.83	47.68	Start 2238.75 hold at 950.00 MD	
3,188.75	3,125.81	438.79	374.74	Start Drop -1.75	
3,931.61	3,862.31	502.60	429.23	Start 7559.69 hold at 3931.61 MD	
11,491.30	11,422.00	502.60	429.23	TD at 11491.30	

Kerr-McGee Oil & Gas Onshore. L.P.**NBU 921-20B Pad**

<u>API #</u>	<u>NBU 921-20A1BS</u>		
	Surface: 745 FNL / 2231 FEL	NWNE	Lot
	BHL: 83 FNL / 491 FEL	NENE	Lot
<u>API #</u>	<u>NBU 921-20A1CS</u>		
	Surface: 764 FNL / 2253 FEL	NWNE	Lot
	BHL: 413 FNL / 491 FEL	NENE	Lot
<u>API #4304750715</u>	<u>NBU 921-20B</u>		
	Surface: 758 FNL / 2246 FEL	NWNE	Lot
	BHL: 716 FNL / 2122 FEL	NWNE	Lot
<u>API #</u>	<u>NBU 921-20B1BS</u>		
	Surface: 751 FNL / 2238 FEL	NWNE	Lot
	BHL: 248 FNL / 1808 FEL	NWNE	Lot
<u>API #</u>	<u>NBU 921-20B1CS</u>		
	Surface: 738 FNL / 2223 FEL	NWNE	Lot
	BHL: 578 FNL / 1808 FEL	NWNE	Lot
<u>API #</u>	<u>NBU 921-20B4CS</u>		
	Surface: 771 FNL / 2261 FEL	NWNE	Lot
	BHL: 1240 FNL / 1807 FEL	NWNE	Lot
<u>API #</u>	<u>NBU 921-20C1BS</u>		
	Surface: 777 FNL / 2269 FEL	NWNE	Lot
	BHL: 83 FNL / 2136 FWL	NENW	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 Pincoose - 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.

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.

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

±205' (0.04 miles) – Section 20 (NW/4 NE/4) T9S R21E – On lease UTU0575 Ute Indian Tribe surface, new road 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 is a new pad; therefore does not have any existing facilities. 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 (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 ±1,180' 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.

±1,180' (0.1 miles) – Section 20 and Section 17 T9S R21E– On-lease UTU0575 Ute Indian Tribe Surface, New 8" buried gas gathering pipeline from the meter to the NBU 921-170 Pad intersection. 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 ±1,180' 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.

±1,180' (0.1 miles) – Section 20 and Section 17 T9S R21E– On-lease UTU0575 Ute Indian Tribe Surface, New 6" buried liquid gathering pipeline from the separator to the NBU 921-170 Pad intersection. Please refer to Topo D2 - Pad and Pipeline Detail.

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.

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 its successor will consult with the Vernal BIA Office before terminating 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.

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.

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:

- 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:

No additional ancillary facilities are planned for this location.

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.

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 reclamation.

After plugging, all wellhead equipment that is no longer needed will be removed, and the well site will be reclaimed. Final contouring will blend with and follow as closely as practical the natural terrain and contours of the original site and surrounding areas. After re-contouring 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".

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 all 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	170 South 500 East
Fort Duschene, 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 UT12-14314-98 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-768 and GCI-776.

Proposed Action Annual Emissions Tables:

Table 1: Proposed Action Annual Emissions (tons/year)¹			
Pollutant	Development	Production	Total
NO _x	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)	Percentage of Proposed Action to WRAP Phase III
NO _x	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

NBU 921-20B/ 921-20A1BS/ 921-20A1CS/ 921-20B1BS
NBU 921-20B1CS/ 921-20B4CS/ 921-20C1BS
Kerr-McGee Oil Gas Onshore, L.P.

Surface Use Plan of Operations
13 of 13

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

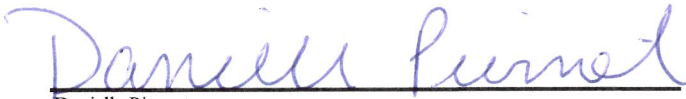
Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

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.

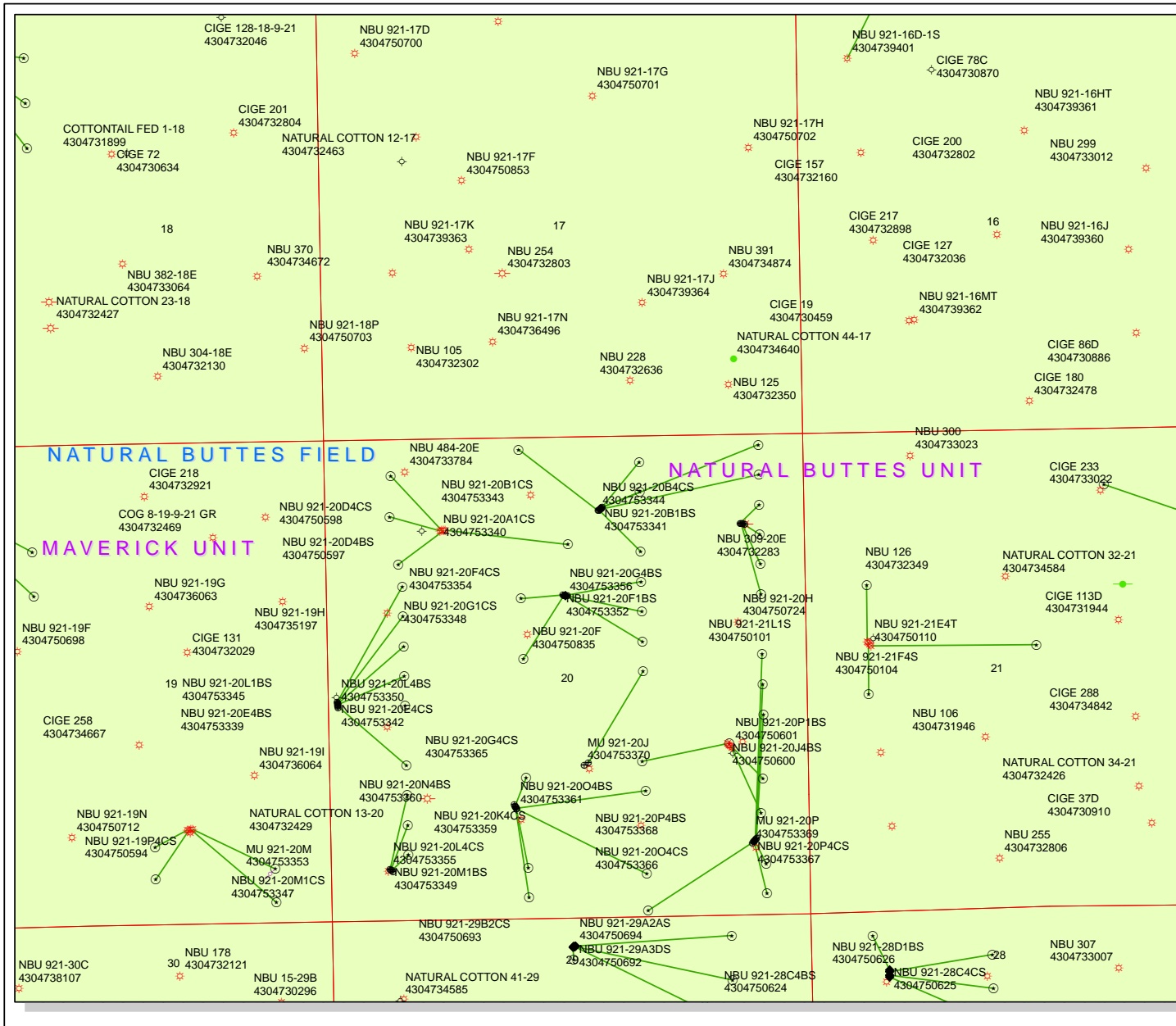
Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by Bureau of Land Management Nationwide Bond WYB000291.

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 Piernot

June 22, 2012

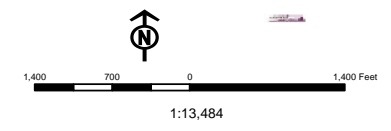
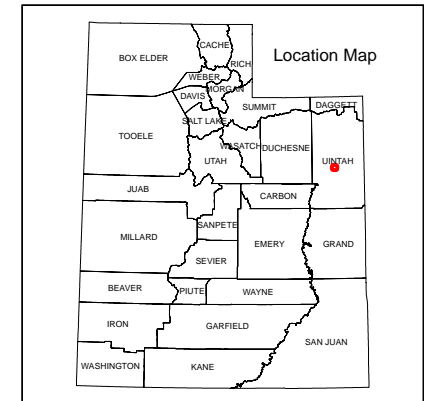
Date



API Number: 4304753341
Well Name: NBU 921-20B1BS
Township T09.0S Range R21.0E Section 20
Meridian: SLBM
 Operator: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Map Prepared:
 Map Produced by Diana Mason

- | | |
|---------------|-------------------------------------|
| Units | Wells Query |
| ACTIVE | APD - Approved Permit |
| EXPLORATORY | DRIL - Spudded (Drilling Commenced) |
| GAS STORAGE | GIW - Gas Injection |
| NF PP OIL | GS - Gas Storage |
| NF SECONDARY | LOC - New Location |
| PI OIL | OPS - Operation Suspended |
| PP GAS | PA - Plugged Abandoned |
| PP GEOTHERM | PGW - Producing Gas Well |
| PP OIL | POW - Producing Oil Well |
| SECONDARY | SGW - Shut-in Gas Well |
| TERMINATED | SOW - Shut-in Oil Well |
| Fields | TA - Temp. Abandoned |
| Unknown | TW - Test Well |
| ABANDONED | WDW - Water Disposal |
| ACTIVE | WW - Water Injection Well |
| COMBINED | WSW - Water Supply Well |
| INACTIVE | |
| STORAGE | |
| TERMINATED | Bottom Hole Location - Oil/Gas/Dr |



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		
43-047-53330	NBU 921-20A4BS	Sec 20 T09S R21E 0947 FNL 0708 FEL 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
43-047-53345	NBU 921-20L1BS	Sec 20 T09S R21E 2410 FSL 0079 FWL BHL Sec 20 T09S R21E 2396 FSL 0819 FWL
43-047-53350	NBU 921-20L4BS	Sec 20 T09S R21E 2401 FSL 0080 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 PAD		
43-047-53337	NBU 921-20C1BS	Sec 20 T09S R21E 0777 FNL 2269 FEL BHL Sec 20 T09S R21E 0083 FNL 2136 FWL
43-047-53338	NBU 921-20A1BS	Sec 20 T09S R21E 0745 FNL 2231 FEL BHL Sec 20 T09S R21E 0083 FNL 0491 FEL
43-047-53340	NBU 921-20A1CS	Sec 20 T09S R21E 0764 FNL 2253 FEL BHL Sec 20 T09S R21E 0413 FNL 0491 FEL
43-047-53341	NBU 921-20B1BS	Sec 20 T09S R21E 0751 FNL 2238 FEL BHL Sec 20 T09S R21E 0248 FNL 1808 FEL
43-047-53343	NBU 921-20B1CS	Sec 20 T09S R21E 0738 FNL 2223 FEL BHL Sec 20 T09S R21E 0578 FNL 1808 FEL
43-047-53344	NBU 921-20B4CS	Sec 20 T09S R21E 0771 FNL 2261 FEL BHL Sec 20 T09S R21E 1240 FNL 1807 FEL
NBU 921-20G PAD		
43-047-53346	NBU 921-20G1BS	Sec 20 T09S R21E 1706 FNL 2606 FWL BHL Sec 20 T09S R21E 1570 FNL 1807 FEL
43-047-53348	NBU 921-20G1CS	Sec 20 T09S R21E 1712 FNL 2636 FWL BHL Sec 20 T09S R21E 1901 FNL 1807 FEL
43-047-53352	NBU 921-20F1BS	Sec 20 T09S R21E 1702 FNL 2587 FWL BHL Sec 20 T09S R21E 1732 FNL 2126 FWL
43-047-53354	NBU 921-20F4CS	Sec 20 T09S R21E 1704 FNL 2597 FWL BHL Sec 20 T09S R21E 2399 FNL 2134 FWL
43-047-53356	NBU 921-20G4BS	Sec 20 T09S R21E 1710 FNL 2626 FWL BHL Sec 20 T09S R21E 2232 FNL 1806 FEL
NBU 921-20M PAD		
43-047-53347	NBU 921-20M1CS	Sec 20 T09S R21E 0575 FSL 0625 FWL BHL Sec 20 T09S R21E 0746 FSL 0818 FWL
43-047-53349	NBU 921-20M1BS	Sec 20 T09S R21E 0581 FSL 0617 FWL BHL Sec 20 T09S R21E 1076 FSL 0818 FWL
43-047-53355	NBU 921-20L4CS	Sec 20 T09S R21E 0587 FSL 0609 FWL BHL Sec 20 T09S R21E 1406 FSL 0818 FWL
NBU 921-20N PAD		
43-047-53351	NBU 921-20N4CS	Sec 20 T09S R21E 1256 FSL 2008 FWL BHL Sec 20 T09S R21E 0249 FSL 2132 FWL
43-047-53358	NBU 921-20J4CS	Sec 20 T09S R21E 1239 FSL 2019 FWL BHL Sec 20 T09S R21E 1407 FSL 1805 FEL
43-047-53359	NBU 921-20K4CS	Sec 20 T09S R21E 1265 FSL 2003 FWL BHL Sec 20 T09S R21E 1572 FSL 2133 FWL
43-047-53360	NBU 921-20N4BS	Sec 20 T09S R21E 1248 FSL 2014 FWL BHL Sec 20 T09S R21E 0579 FSL 2132 FWL
43-047-53361	NBU 921-20O4BS	Sec 20 T09S R21E 1231 FSL 2024 FWL BHL Sec 20 T09S R21E 0492 FSL 1810 FEL

API #	WELL NAME			LOCATION						
(Proposed PZ WASATCH-MESA VERDE)										
NBU 921-20P PAD										
43-047-53362	NBU 921-20H4CS	Sec	20	T09S	R21E	0842	FSL	0606	FEL	
		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
43-047-53364	NBU 921-20I1CS	Sec	20	T09S	R21E	0857	FSL	0593	FEL	
		BHL	Sec	20	T09S	R21E	2229	FSL	0491	FEL
43-047-53366	NBU 921-20O4CS	Sec	20	T09S	R21E	0819	FSL	0625	FEL	
		BHL	Sec	20	T09S	R21E	0084	FSL	1804	FEL
43-047-53367	NBU 921-20P4CS	Sec	20	T09S	R21E	0827	FSL	0618	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
 DN: cn=Michael L. Coulthard, o=Bureau of Land Management, ou=Branch of Minerals, email=Michael.Coulthard@blm.gov, c=US
 Date: 2012.12.06 09:34:53 -0700

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

MCoulthard:mc:12-6-12

API Number	Well Name	Surface Location		
		Sec 20	T09S R21E	
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 921-20O4BS	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 921-20O4CS	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

WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 11/27/2012

API NO. ASSIGNED: 43047533410000

WELL NAME: NBU 921-20B1BS

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

PHONE NUMBER: 720 929-6156

CONTACT: Danielle Piernot

PROPOSED LOCATION: NWNE 20 090S 210E

Permit Tech Review:

SURFACE: 0751 FNL 2238 FEL

Engineering Review:

BOTTOM: 0248 FNL 1808 FEL

Geology Review:

COUNTY: UINTAH

LATITUDE: 40.02666

LONGITUDE: -109.57415

UTM SURF EASTINGS: 621665.00

NORTHINGS: 4431690.00

FIELD NAME: NATURAL BUTTES

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU0575

PROPOSED PRODUCING FORMATION(S): WASATCH-MESA VERDE

SURFACE OWNER: 2 - Indian

COALBED METHANE: NO

RECEIVED AND/OR REVIEWED:

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

Commingle Approved

LOCATION AND SITING:

- R649-2-3.
- Unit: NATURAL BUTTES
- R649-3-2. General
- R649-3-3. Exception
- Drilling Unit
- Board Cause No: Cause 173-14
- Effective Date: 12/2/1999
- Siting: Suspends General Siting
- R649-3-11. Directional Drill

Comments: Presite Completed

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



GARY R. HERBERT
Governor

GREGORY S. BELL
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

Well Name: NBU 921-20B1BS
API Well Number: 43047533410000
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)

OR

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

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

Reporting Requirements:

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

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

Approved By:



For John Rogers
Associate Director, Oil & Gas

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

AUG 23 2012

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

APPLICATION FOR PERMIT TO DRILL OR REENTER **VERNAL, UTAH**

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. UTU0575
1b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name
2. Name of Operator KERR MCGEE OIL&GAS ONSHORE, LP Contact: DANIELLE PIERNOT Email: Danielle.Piernot@anadarko.com		7. If Unit or CA Agreement, Name and No. UTU63047A
3a. Address PO BOX 173779 DENVER, CO 80202-3779	3b. Phone No. (include area code) Ph: 720-929-6156 Fx: 720-929-7156	8. Lease Name and Well No. NBU 921-20B1BS
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface NWNE 751FNL 2238FEL 40.026774 N Lat, 109.574159 W Lon At proposed prod. zone NWNE 248FNL 1808FEL 40.028154 N Lat, 109.572626 W Lon		9. API Well No. 43-047-53341
14. Distance in miles and direction from nearest town or post office* APPROXIMATELY 48 MILES SOUTH OF VERNAL, UT		10. Field and Pool, or Exploratory NATURAL BUTTES
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 1808'	16. No. of Acres in Lease 1600.00	11. Sec., T., R., M., or Blk. and Survey or Area Sec 20 T9S R21E Mer SLB
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. 908'	19. Proposed Depth 11491 MD 11422 TVD	12. County or Parish UINTAH COUNTY
21. Elevations (Show whether DF, KB, RT, GL, etc.) 4873 GL	22. Approximate date work will start 02/01/2013	13. State UT
		17. Spacing Unit dedicated to this well
		20. BLM/BIA Bond No. on file WYB000291
		23. Estimated duration 60-90 DAYS

24. Attachments

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

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

25. Signature (Electronic Submission)	Name (Printed/Typed) DANIELLE PIERNOT Ph: 720-929-6156	Date 07/13/2012
Title REGULATORY ANALYST II		
Approved by (Signature) 	Name (Printed/Typed) Jerry Kenczka	Date JUN 05 2013
Title 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 operations thereon.
Conditions of approval, if any, are attached. **CONDITIONS OF APPROVAL ATTACHED**

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

Additional Operator Remarks (see next page)

Electronic Submission #142856 verified by the BLM Well Information System, Div. of Oil & Gas Mining
For KERR MCGEE OIL&GAS ONSHORE, LP, sent to the Vernal

NOTICE OF APPROVAL

RECEIVED

JUN 11 2013

ODOGM

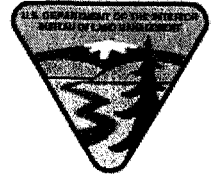
** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED **

12 PPH 2765A2 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:	Kerr McGee Oil & Gas Onshore, LP	Location:	NWNE, Sec. 20, T9S, R21E
Well No:	NBU 921-20B1BS	Lease No:	UTU-0575
API No:	43-047-53341	Agreement:	Natural Butte

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 design-rated 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 16, 2013, an additional biological survey for Uinta Basin hookless cactus should be conducted prior to construction according to current USFWS protocol.
- Monitor construction with a permitted archaeologist.

**DOWNHOLE PROGRAM
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 **NOT** by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- **Cement baskets shall not be run on surface casing.**
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB

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

- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- **Please submit an electronic copy of all other logs run on this well in 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.

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 ($\frac{1}{4}$ Sec., Twn, Rng, and P.M.).
 - Date well was placed in a producing status (date of first production for which royalty will be paid).
 - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
 - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
 - Unit agreement and/or participating area name and number, if applicable.
 - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs,

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

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

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
5. LEASE DESIGNATION AND SERIAL NUMBER: UTU0575	
SUNDRY NOTICES AND REPORTS ON WELLS	
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	
1. TYPE OF WELL Gas Well	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute Tr
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	8. WELL NAME and NUMBER: NBU 921-20B1BS
PHONE NUMBER: 720 929-6511	9. API NUMBER: 43047533410000
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0751 FNL 2238 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNE Section: 20 Township: 09.0S Range: 21.0E Meridian: S	9. FIELD and POOL or WILDCAT: NATURAL BUTTES
	COUNTY: UINTAH
	STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 12/10/2013	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input checked="" type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

Kerr-McGee Oil & Gas Onshore, L.P. (Kerr-McGee) respectfully requests an extension to this APD for the maximum time allowed. Please contact the undersigned with any questions and/or comments. Thank you.

Approved by the Utah Division of Oil, Gas and Mining
Date: October 17, 2013
By:

NAME (PLEASE PRINT) Kay E. Kelly	PHONE NUMBER 720 929 6582	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 10/16/2013	



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43047533410000

API: 43047533410000

Well Name: NBU 921-20B1BS

Location: 0751 FNL 2238 FEL QTR NWNE SEC 20 TWNP 090S RNG 210E MER S

Company Permit Issued to: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Date Original Permit Issued: 12/10/2012

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

- If located on private land, has the ownership changed, if so, has the surface agreement been updated? Yes No
- Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? Yes No
- Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? Yes No
- Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location? Yes No
- Has the approved source of water for drilling changed? Yes No
- Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? Yes No
- Is bonding still in place, which covers this proposed well? Yes No

Signature: Kay E. Kelly

Date: 10/16/2013

Title: Regulatory Analyst Representing: KERR-MCGEE OIL & GAS ONSHORE, L.P.

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
5. LEASE DESIGNATION AND SERIAL NUMBER: UTU0575	
SUNDRY NOTICES AND REPORTS ON WELLS	
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	
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	COUNTY: Uintah
	STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
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<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input checked="" type="checkbox"/> SPUD REPORT Date of Spud: 11/7/2013	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

Spud well 11/07/2013 @ 17:30. Drill 24" conductor hole to 40', run 14" X .250 wall conductor pipe, cement with 81 sacks ready mix. Anticipated surface spud date and surface casing cement 11/20/2013.

**Accepted by the
 Utah Division of
 Oil, Gas and Mining
 FOR RECORD ONLY
 November 12, 2013**

NAME (PLEASE PRINT) Doreen Green	PHONE NUMBER 435 781-9758	TITLE Regulatory Analyst II
SIGNATURE N/A	DATE 11/11/2013	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5.LEASE DESIGNATION AND SERIAL NUMBER: UTU0575
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE 7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES
1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: NBU 921-20B1BS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047533410000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6100 9. FIELD and POOL or WILDCAT: NATURAL BUTTES
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0751 FNL 2238 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNE Section: 20 Township: 09.0S Range: 21.0E Meridian: S	COUNTY: Uintah STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 5/15/2014	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input checked="" type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width:100px;" type="text"/>

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

The NBU 921-20B1BS was placed on production 05/15/2014 after a new well completion. Producing from the MESAVERDE/BLACKHAWK.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
 May 16, 2014

NAME (PLEASE PRINT) Doreen Green	PHONE NUMBER 435 781-9758	TITLE Regulatory Analyst II
SIGNATURE N/A	DATE 5/16/2014	

Form 3160-4
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.
UTU0575

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

6. If Indian, Allottee or Tribe Name _____

7. Unit or CA Agreement Name and No.
UTU63047A

2. Name of Operator
KERR-MCGEE OIL AND GAS ONSHORE
Contact: ILA BEALE
Email: ila.beale@anadarko.com

8. Lease Name and Well No.
NBU 921-20B1BS

3. Address P.O. BOX 173779
DENVER, CO 82017
3a. Phone No. (include area code)
Ph: 720-929-6000

9. API Well No.
43-047-53341

4. Location of Well (Report location clearly and in accordance with Federal requirements)*
 At surface NWNE 751FNL 2238FEL 40.026774 N Lat, 109.574159 W Lon
 At top prod interval reported below NWNE 242FNL 1810FEL
 At total depth NWNE 292FNL 1773FEL

10. Field and Pool, or Exploratory
NATURAL BUTTES

11. Sec., T., R., M., or Block and Survey
or Area Sec 20 T9S R21E Mer SLB

12. County or Parish
UINTAH

13. State
UT

14. Date Spudded
11/07/2013

15. Date T.D. Reached
01/21/2014

16. Date Completed
 D & A Ready to Prod.
05/15/2014

17. Elevations (DF, KB, RT, GL)*
4897 KB

18. Total Depth: MD 11486
TVD 11410

19. Plug Back T.D.: MD 11414
TVD 11338

20. Depth Bridge Plug Set: MD
TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
RADIAL CBL/GR/CCL/TEMP

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

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

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
24.000	14.000 STL	36.7	0	40		81			
11.000	8.625 J-55	28.0	24	3074		1075		0	
7.875	4.500 P-110	11.6	24	11461		2475		0	

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.375	10943							

25. Producing Intervals

26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) MESAVERDE	8233	11312	8233 TO 11312	0.400	261	OPEN
B)						
C)						
D)						

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

Depth Interval	Amount and Type of Material
8233 TO 11312	PUMP 16,910 BBLS SLICKWATER, 65 BBLS 15% HCL ACID, AND 357,177 LBS 30/50 MESH SAND

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
05/15/2014	05/28/2014	24	→	0.0	2425.0	904.0			FLOWS FROM WELL
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
20/64	SI 1946	2775.0	→	0	2425	904		PGW	

28a. Production - Interval B

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

(See Instructions and spaces for additional data on reverse side)

ELECTRONIC SUBMISSION #248130 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

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

28b. Production - Interval C

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

28c. Production - Interval D

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

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

30. Summary of Porous Zones (Include Aquifers):

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

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
				GREEN RIVER BIRD'S NEST MAHOGANY WASATCH MESAVERDE	1798 2101 2571 5203 8226

32. Additional remarks (include plugging procedure):

The first 210 ft. of the surface hole was drilled with a 12 ? in. bit. The remainder of the surface hole was drilled with an 11 in. bit. A DV tool was placed in the well from 5358 feet to 5361 feet. DQX csg was run from surface to 5003 ft.; LTC csg was run from 5003 ft. to 11,461 ft. Attached is the chronological well history, perforation report and final survey.

33. Circle enclosed attachments:

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

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

**Electronic Submission #248130 Verified by the BLM Well Information System.
For KERR-MCGEE OIL AND GAS ONSHORE, sent to the Vernal**

Name (please print) ILA BEALE Title STAFF REGULATORY SPECIALIST

Signature (Electronic Submission) Date 06/04/2014

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

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

RECEIVED: Jun. 04, 2014

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-20B1BS YELLOW

Spud Date: 11/19/2013

Project: UTAH-UINTAH

Site: NBU 921-20B PAD

Rig Name No: PROPETRO 12/12, H&P 318/318

Event: DRILLING

Start Date: 11/3/2013

End Date:

Active Datum: RKB @4,897.00usft (above Mean Sea Level)

UWI: NW/NE/0/9/S/21/E/20/0/0/26/PM/N/751/E/0/2238/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
11/19/2013	20:30 - 21:00	0.50	MIRU	01	C	P	60	REVIEW DIRECTIONAL PLANS AND PLATS FOR NBU 921-20B1BS 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.
	21:00 - 23:00	2.00	MIRU	01	B	P	60	PRE SPUD JOB SAFETY MEETING SKID RIG 20' TO NBU 921-20B1BS, RIG UP SET MATTING BOARD, SET RIG IN PLACE, CATWALK, PIPE RACKS, PLACE BOTTOM HOLE ASSEMBLY.
	23:00 - 23:30	0.50	MIRU	01	B	P	60	PICK UP NOV 1.83 DEGREE BENT MOTOR (RUN # 4) .17 REV/GAL PICK UP 12 1/4" DRILL BIT.
	23:30 - 0:00	0.50	DRLSUR	02	B	P	60	SPUD @ 11/19/2013 23:30. DRILL 12.25" HOLE 40' TO 100' (60' @ 120 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 30/30/30 K. DRAG 0 K. CIRCULATE CLOSED LOOP SYSTEM WITH 8.4# WATER. RUNNING VOLUME THROUGH 1 CENTRIFUGE DE WATERING AND, RUNNING VOLUME OVER BOTH SHAKERS.
11/20/2013	0:00 - 1:00	1.00	DRLSUR	02	B	P	120	DRILL 12.25" HOLE 100' TO 210' (110' @ 110 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 30/30/30 K. DRAG 0 K. CIRCULATE CLOSED LOOP SYSTEM WITH 8.4# WATER. RUNNING VOLUME THROUGH 1 CENTRIFUGE DE WATERING AND, RUNNING VOLUME OVER BOTH SHAKERS.
	1:00 - 1:30	0.50	DRLSUR	06	A	P	230	CIRC 15 MINUTES AND, TRIP OUT TO CHANGE ASSEMBLY.
	1:30 - 2:30	1.00	DRLSUR	06	A	P	230	BREAK 12 1/4" BIT. MAKE UP NOV 11" BIT. PICK UP 8" DIRECTIONAL ASSEMBLY SCIBE MOTOR. INSTALL EM TOOL, TRIP IN HOLE.

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-20B1BS YELLOW		Spud Date: 11/19/2013	
Project: UTAH-UINTAH		Site: NBU 921-20B PAD	Rig Name No: PROPETRO 12/12, H&P 318/318
Event: DRILLING		Start Date: 11/3/2013	End Date:
Active Datum: RKB @4,897.00usft (above Mean Sea Level)		UWI: NW/NE/0/9/S/21/E/20/0/0/26/PM/N/751/E/0/2238/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	2:30 - 6:00	3.50	DRLSUR	02	B	P	230	DRILL 11" SURFACE HOLE FROM 210' TO 600' (390' @ 111 FPH). WEIGHT ON BIT 18-21 K. STROKES PER MINUTE=120. GALLONS PER MINUTE=491. PRESSURE ON/OFF(BOTTOM) 800/590. ROTARY RPM 55, MOTOR RPM 83, TOTAL RPM 138. UP/DOWN/ ROT 51/48/49 K. DRAG 2 K. FROM DIRECTIONAL PLAN WE ARE CURRENTLY 0.68' LOW / 0.8' LEFT OF THE LINE WITH 73' OF SLIDE @ 14.5%. CIRCULATE CLOSED LOOP SYSTEM WITH 8.4# WATER. RUNNING VOLUME THROUGH 2 CENTRIFUGE DE WATERING AND, RUNNING VOLUME OVER BOTH SHAKERS.
	6:00 - 12:00	6.00	DRLSUR	02	B	P	620	DRILL 11" SURFACE HOLE FROM 600' TO 1,210' (610' @ 101 FPH). WEIGHT ON BIT 18-21 K. STROKES PER MINUTE=120. GALLONS PER MINUTE=491. PRESSURE ON/OFF(BOTTOM) 1,100/900. ROTARY RPM 55, MOTOR RPM 83, TOTAL RPM 138. UP/DOWN/ ROT 60/56/58 K. DRAG 2 K. FROM DIRECTIONAL PLAN WE ARE CURRENTLY 5.5' LOW / 0.5' RIGHT OF THE LINE WITH 15' OF SLIDE @ 8.3%. CIRCULATE CLOSED LOOP SYSTEM WITH 8.4# WATER. RUNNING VOLUME THROUGH 2 CENTRIFUGE DE WATERING AND, RUNNING VOLUME OVER BOTH SHAKERS.
	12:00 - 14:30	2.50	DRLSUR	02	B	P	1230	DRILL 11" SURFACE HOLE FROM 1,210' TO 1,420' (210' @ 84 FPH). WEIGHT ON BIT 18-21 K. STROKES PER MINUTE=120. GALLONS PER MINUTE=491. PRESSURE ON/OFF(BOTTOM) 1,100/900. ROTARY RPM 55, MOTOR RPM 83, TOTAL RPM 138. UP/DOWN/ ROT 60/56/58 K. DRAG 2 K. FROM DIRECTIONAL PLAN WE ARE CURRENTLY 5.5' LOW / 0.5' RIGHT OF THE LINE WITH 15' OF SLIDE @ 8.3%. CIRCULATE CLOSED LOOP SYSTEM WITH 8.4# WATER. RUNNING VOLUME THROUGH 2 CENTRIFUGE DE WATERING AND, RUNNING VOLUME OVER BOTH SHAKERS.
	14:30 - 0:00	9.50	DRLSUR	08	A	S	1440	***CHANGE OUT BOTH DRIVE MOTOR GEARS ON THE TOPDRIVE POWER HEAD.
11/21/2013	0:00 - 2:00	2.00	DRLSUR	08	A	S	1440	***CHANGE OUT BOTH DRIVE MOTOR GEARS ON THE TOPDRIVE POWER HEAD.

US ROCKIES REGION

Operation Summary Report

Well: NBU 921-20B1BS YELLOW

Spud Date: 11/19/2013

Project: UTAH-UINTAH

Site: NBU 921-20B PAD

Rig Name No: PROPETRO 12/12, H&P 318/318

Event: DRILLING

Start Date: 11/3/2013

End Date:

Active Datum: RKB @4,897.00usft (above Mean Sea Level)

UWI: NW/NE/0/9/S/21/E/20/0/0/26/PM/N/751/E/0/2238/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	2:00 - 6:00	4.00	DRLSUR	02	B	P	1440	DRILL 11" SURFACE HOLE FROM 1,420' TO 1,700' (280' @ 70 FPH). WEIGHT ON BIT 18-21 K. STROKES PER MINUTE=120. GALLONS PER MINUTE=491. PRESSURE ON/OFF(BOTTOM) 1,270/1,030. ROTARY RPM 55, MOTOR RPM 83, TOTAL RPM 138. UP/DOWN/ ROT 69/56/60 K. DRAG 9 K. FROM DIRECTIONAL PLAN WE ARE CURRENTLY 7.5' LOW / 0.35' RIGHT OF THE LINE WITH 39' OF SLIDE @ 14.5%. CIRCULATE CLOSED LOOP SYSTEM WITH 8.4# WATER. RUNNING VOLUME THROUGH 2 CENTRIFUGE DE WATERING AND, RUNNING VOLUME OVER BOTH SHAKERS.
	6:00 - 12:00	6.00	DRLSUR	02	B	P	1720	DRILL 11" SURFACE HOLE FROM 1,700' TO 2,050' (350' @ 58 FPH). WEIGHT ON BIT 18-21 K. STROKES PER MINUTE=120. GALLONS PER MINUTE=491. PRESSURE ON/OFF(BOTTOM) 1,300/1,100. ROTARY RPM 55, MOTOR RPM 83, TOTAL RPM 138. UP/DOWN/ ROT 80/60/68 K. DRAG 12 K. FROM DIRECTIONAL PLAN WE ARE CURRENTLY 1' HIGH / 7' LEFT OF THE LINE WITH 129' OF SLIDE @ 33.0%. CIRCULATE CLOSED LOOP SYSTEM WITH 8.4# WATER. RUNNING VOLUME THROUGH 2 CENTRIFUGE DE WATERING AND, RUNNING VOLUME OVER BOTH SHAKERS.
	12:00 - 17:30	5.50	DRLSUR	02	B	P	2070	DRILL 11" SURFACE HOLE FROM 2,050' TO 2,410' (360' @ 65 FPH). WEIGHT ON BIT 18-21 K. STROKES PER MINUTE=120. GALLONS PER MINUTE=491. PRESSURE ON/OFF(BOTTOM) 1,400/1,200. ROTARY RPM 55, MOTOR RPM 83, TOTAL RPM 138. UP/DOWN/ ROT 85/65/71 K. DRAG 12 K. FROM DIRECTIONAL PLAN WE ARE CURRENTLY 5' HIGH / 5.5' LEFT OF THE LINE WITH 47' OF SLIDE @ 13.0% CIRCULATE CLOSED LOOP SYSTEM WITH 8.4# WATER. RUNNING VOLUME THROUGH 2 CENTRIFUGE DE WATERING AND, RUNNING VOLUME OVER BOTH SHAKERS.
	17:30 - 18:00	0.50	DRLSUR	07	A	P	2430	RIG SERVICE AND CREW CHANGE.

US ROCKIES REGION

Operation Summary Report

Well: NBU 921-20B1BS YELLOW

Spud Date: 11/19/2013

Project: UTAH-UINTAH

Site: NBU 921-20B PAD

Rig Name No: PROPETRO 12/12, H&P 318/318

Event: DRILLING

Start Date: 11/3/2013

End Date:

Active Datum: RKB @4,897.00usft (above Mean Sea Level)

UWI: NW/NE/0/9/S/21/E/20/0/0/26/PM/N/751/E/0/2238/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	18:00 - 0:00	6.00	DRLSUR	02	B	P	2430	DRILL 11" SURFACE HOLE FROM 2,410' TO 2,710' (300' @ 50 FPH). WEIGHT ON BIT 18-21 K. STROKES PER MINUTE=120. GALLONS PER MINUTE=491. PRESSURE ON/OFF(BOTTOM) 1,520/1,320. ROTARY RPM 55, MOTOR RPM 83, TOTAL RPM 138. UP/DOWN/ ROT 90/68/78 K. DRAG 12 K. FROM DIRECTIONAL PLAN WE ARE CURRENTLY 3.8' HIGH / 3.1' LEFT OF THE LINE WITH 122' OF SLIDE @ 40.7% CIRCULATE CLOSED LOOP SYSTEM WITH 8.4# WATER. RUNNING VOLUME THROUGH 2 CENTRIFUGE DE WATERING AND, RUNNING VOLUME OVER BOTH SHAKERS.
11/22/2013	0:00 - 6:00	6.00	DRLSUR	02	B	P	2730	DRILL 11" SURFACE HOLE FROM 2,710' TO 3,000' (290' @ 48 FPH). WEIGHT ON BIT 18-21 K. STROKES PER MINUTE=120. GALLONS PER MINUTE=491. PRESSURE ON/OFF(BOTTOM) 1,620/1,420. ROTARY RPM 55, MOTOR RPM 83, TOTAL RPM 138. UP/DOWN/ ROT 91/69/79 K. DRAG 12 K. FROM DIRECTIONAL PLAN WE ARE CURRENTLY 5.1' HIGH / 0.3' LEFT OF THE LINE WITH 60' OF SLIDE @ 25.0% CIRCULATE CLOSED LOOP SYSTEM WITH 8.4# WATER. RUNNING VOLUME THROUGH 2 CENTRIFUGE DE WATERING AND, RUNNING VOLUME OVER BOTH SHAKERS.
	6:00 - 7:30	1.50	DRLSUR	02	B	P	3020	DRILL 11" SURFACE HOLE FROM 3,000' TO 3,080' (290' @ 53 FPH). WEIGHT ON BIT 18-21 K. STROKES PER MINUTE=120. GALLONS PER MINUTE=491. PRESSURE ON/OFF(BOTTOM) 1,600/1,420. ROTARY RPM 55, MOTOR RPM 83, TOTAL RPM 138. UP/DOWN/ ROT 98/69/75 K. DRAG 23 K. FROM DIRECTIONAL PLAN WE ARE CURRENTLY 5.0' HIGH / 0.5' LEFT OF THE LINE WITH 20' OF SLIDE @ 15.0% CIRCULATE CLOSED LOOP SYSTEM WITH 8.4# WATER. RUNNING VOLUME THROUGH 2 CENTRIFUGE DE WATERING AND, RUNNING VOLUME OVER BOTH SHAKERS.
	7:30 - 9:30	2.00	DRLSUR	05	C	P	3100	CIRCULATE AND CONDITION HOLE, VOLUME IS CLEAN COMING OVER SHAKERS, 2-400 BBL UPRIGHT'S FULL AND 2-400 BBL UPRIGHTS EMPTY, 1,000 BBL OF FRESH WATER ON LOCATION FOR CEMENT JOB.

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-20B1BS YELLOW

Spud Date: 11/19/2013

Project: UTAH-UINTAH

Site: NBU 921-20B PAD

Rig Name No: PROPETRO 12/12, H&P 318/318

Event: DRILLING

Start Date: 11/3/2013

End Date:

Active Datum: RKB @4,897.00usft (above Mean Sea Level)

UWI: NW/NE/0/9/S/21/E/20/0/0/26/PM/N/751/E/0/2238/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	9:30 - 13:30	4.00	DRLSUR	06	D	P	3100	PRE JOB SAFETY MEETING, TRIP OUT OF HOLE, LAY DOWN DRILL STRING, BOTTOM HOLE ASSEMBLY, LAY DOWN DIRECTIONAL TOOLS, MOTOR AND, BIT. CLEAR TOOL AREA.
	13:30 - 14:30	1.00	CSGSUR	01	B	P	3100	RIG UP FOR CASING RUN, SPOT 69 JOINTS OF 8-5/8". 28# J-55 LTC CASING. FOR CASING RUN
	14:30 - 17:30	3.00	CSGSUR	12	C	P		RUN 69 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 69 JOINTS. RUN CASING TO BOTTOM WITH NO PROBLEMS. SET FLOAT SHOE @ 3,053.78' KB. SET TOP OF BAFFLE PLATE @ 3,007.
	17:30 - 18:00	0.50	CSGSUR	07	A	P	3100	RIG SERVICE AND CREW CHANGE.
	18:00 - 18:30	0.50	CSGSUR	01	B	P	3100	PRE JOB SAFETY MEETING WITH PRO PETRO CEMENTERS. RIG UP CEMENTERS PLACE SPILL PROTECTION, RAN 200' OF 1". PIPE DOWN BACK-SIDE OF CASING.
	18:30 - 20:00	1.50	CSGSUR	12	E	P	3100	PRESSURE TEST LINES TO 2,500 PSI. PUMP 180 BBLS OF WATER AHEAD CLEARING SHOE. 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% CACL2 & 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 187.6 BBLS OF FRESH WATER. PARTIAL RETURNS THROUGH OUT JOB. FINAL LIFT OF 750 PSI AT 3.5 BBL/MINUTE. BUMPED PLUG @ 1,050 PSI. HELD @ 1,050 PSI FOR 5 MINUTES WITHOUT BLEED OFF. TESTED FLOAT AND FLOAT HELD. RELEASE RIG @ 11/22/2013 20:00 SHUT DOWN AND WASH UP TOP JOB # 1: PUMP CEMENT DOWN ONE INCH PIPE WITH 160 SX PREMIUM CEMENT WITH 4% CACL2 & .25 LB/SX FLOCELE. 32.7 BBLS OF SLURRY MIXED AT 15.8 PPG WITH YIELD OF 1.15 CF/SX. CEMENT RETURNS TO SURFACE 3BBLS. RIG DOWN CEMENTERS. (CEMENT JOB FINISHED @ 11/22/2013 21:00)
1/12/2014	15:00 - 15:30	0.50	MIRU3	01	B	P	3100	RIG DOWN PREPARE TO SKID

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-20B1BS YELLOW

Spud Date: 11/19/2013

Project: UTAH-UINTAH

Site: NBU 921-20B PAD

Rig Name No: PROPETRO 12/12, H&P 318/318

Event: DRILLING

Start Date: 11/3/2013

End Date:

Active Datum: RKB @4,897.00usft (above Mean Sea Level)

UWI: NW/NE/0/9/S/21/E/20/0/0/26/PM/N/751/E/0/2238/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	15:30 - 16:00	0.50	MIRU3	01	C	P	3100	SKID RIG TO NBU 921-20B1BS CENTER UO OVER WELL
	16:00 - 20:00	4.00	PRPSPD	14	A	P	3100	NIPPLE UP BOPS PJSM WITH RIG CREW
	20:00 - 0:00	4.00	PRPSPD	15	A	P	3100	TEST BOPS HELD P JSM WITH A-1 TETSING , IBOP. FLOOR VAVLES/ HCR / WING VAVLES/ PIPE RAMS/ BLINDS RAM/ CHOKE MANIFOLD/ CHECK VAVLE LOW 250 PSI FOR 5 MINS HIGH FOR 5000 PSI FOR 10 MINS HY-DRILL LOW 250 . HIGH 2500, 8 5/8 CASING 1500 PSI FOR 30 MINS
1/13/2014	0:00 - 1:30	1.50	PRPSPD	15	A	P	3100	TEST BOPS HY-DRILL LOW 250 . HIGH 2500, 8 5/8 CASING 1500 PSI FOR 30 MINS
	1:30 - 2:30	1.00	PRPSPD	15	A	P	3100	TEST SWACO CHOKE & LINES TO 1,000 PSI WOULD NOT TEST
	2:30 - 3:30	1.00	PRPSPD	22	L	Z	3100	*** REBUILD SAWACO CHOKE REPLACED CHOKE LINER SLEVE & SHUTTLE NUT
	3:30 - 5:00	1.50	PRPSPD	15	A	Z	3100	***RETEST SWACO CHOKE TO 1000 PSI FOR 10 MINS
	5:00 - 6:00	1.00	PRPSPD	15	A	P	3100	BLOW DOWN CHOKE MANIFOLD & FILLED WITH METHONOL
	6:00 - 6:30	0.50	PRPSPD	15	A	P	3100	RIG DOWN TEST EQUIPMENT
	6:30 - 7:00	0.50	PRPSPD	09	A	P	3100	INSTALL WEAR BUSHING
	7:00 - 8:30	1.50	PRPSPD	09	A	P	3100	SLIP & CUT DRILLING LINE
	8:30 - 10:30	2.00	PRPSPD	06	A	P	3100	PICK UP BHA MWD TOOL SCRIBE IN HOLE TRIP IN HEAVEY WT. DRILL PIPE
	10:30 - 11:30	1.00	PRPSPD	08	A	Z	3100	REPLACED SAVER SUB ON TOP DRIVE, GRABER DIES
	11:30 - 14:00	2.50	PRPSPD	06	A	P	3100	TRIP IN HOLE TAGED TOP CMT @ 2978
	14:00 - 15:00	1.00	DRLINC	02	F	P	3100	DRILL CMT F/ 2978 TO 3100 SHOE TRACK
	15:00 - 18:00	3.00	DRLINC	02	D	P	3100	DRILL (ROTATE/SLIDE) F/ 3100' - T/ 3513' RATE OF PENATRATION= 413 ' @ 137.66 /HR WEIGHT ON BIT = 20 / 24 K RPM ~ MUD MOTOR = 117 TOP DRIVE= 70 ~ TOTAL= 187 GALLONS PER MINUTE = 585 STROKES PER MINUTE = 130 STAND PIPE PSI~ON/OFF = 1895 / 1450 TORQUE~ ON/OFF = 90000 / 3000 PICKUP/SLACK OFF/ROTATE= 115K / 87K / 99K MUD WEIGHT= 8.9 / VISCOSITY= 32 NOV ON LINE DEWATERING SWACO OFF LINE PUMP LCM SWEEPS TO HELP WITH LOSSES SLIDE= 28 ' / 0 HRS 30 MINUTES BIT POSITION= 2.3' LEFT & 9.66 ' HIGH OF TARGET LINE LAST SURVEY @ 3427 ' = 9.90 DEG., 40.16 AZ., 3355.83' TVD 0 BBLS MUD LOST TO SEEPAGE

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-20B1BS YELLOW

Spud Date: 11/19/2013

Project: UTAH-UINTAH

Site: NBU 921-20B PAD

Rig Name No: PROPETRO 12/12, H&P 318/318

Event: DRILLING

Start Date: 11/3/2013

End Date:

Active Datum: RKB @4,897.00usft (above Mean Sea Level)

UWI: NW/NE/0/9/S/21/E/20/0/0/26/PM/N/751/E/0/2238/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	18:00 - 0:00	6.00	DRLINC	02	D	P	3513	DRILL (ROTATE/SLIDE) F/ 3513' - T/ 4330' RATE OF PENATRATION= 817 ' @ 136.16/HR WEIGHT ON BIT = 20 / 24 K RPM ~ MUD MOTOR = 117 TOP DRIVE= 70 ~ TOTAL= 187 GALLONS PER MINUTE = 585 STROKES PER MINUTE = 130 STAND PIPE PSI~ON/OFF = 2150 / 1630 TORQUE~ ON/OFF = 90000 / 3000 PICKUP/SLACK OFF/ROTATE= 134K / 101K / 114K MUD WEIGHT= 8.9 / VISCOSITY= 32 NOV ON LINE DEWATERING SWACO OFF LINE PUMP LCM SWEEPS TO HELP WITH LOSSES SLIDE= 61 ' / 1 HRS 45 MINUTES BIT POSITION= 0.46' RIGHT & 0.46' HIGH OF TARGET LINE LAST SURVEY @ 4182 ' = 0.84 DEG., 195.97 AZ., 523.22' TVD 0 BBLS MUD LOST TO SEEPAGE
1/14/2014	0:00 - 6:00	6.00	DRLPRV	02	B	P	4330	DRILL (ROTATE/SLIDE) F/ 4330' - T/ 5181 ' RATE OF PENATRATION= 851 ' @ 141.83/HR WEIGHT ON BIT = 20 / 24 K RPM ~ MUD MOTOR = 117 TOP DRIVE= 70 ~ TOTAL= 187 GALLONS PER MINUTE = 585 STROKES PER MINUTE = 130 STAND PIPE PSI~ON/OFF = 2150 / 1850 TORQUE~ ON/OFF = 8000 / 3000 PICKUP/SLACK OFF/ROTATE= 152K / 110K / 129K MUD WEIGHT= 8.9 / VISCOSITY= 32 NOV ON LINE DEWATERING SWACO OFF LINE PUMP LCM SWEEPS TO HELP WITH LOSSES SLIDE= 23 ' / 0 HRS 15 MINUTES BIT POSITION= 16.24' WEST & 9.19' NORTH OF TARGET LINE LAST SURVEY @ 4843 ' = 0.07DEG., 61.32 AZ., 4768.74' TVD 0 BBLS MUD LOST TO SEEPAGE

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-20B1BS YELLOW

Spud Date: 11/19/2013

Project: UTAH-UINTAH

Site: NBU 921-20B PAD

Rig Name No: PROPETRO 12/12, H&P 318/318

Event: DRILLING

Start Date: 11/3/2013

End Date:

Active Datum: RKB @4,897.00usft (above Mean Sea Level)

UWI: NW/NE/0/9/S/21/E/20/0/0/26/PM/N/751/E/0/2238/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	6:00 - 9:30	3.50	DRLPRV	02	B	P	5181	DRILL (ROTATE/SLIDE) F/ 5181' - T/ 5650 ' RATE OF PENATRATION= 469' @ 134.0/HR WEIGHT ON BIT = 20 / 24 K RPM ~ MUD MOTOR = 117 TOP DRIVE= 70 ~ TOTAL= 187 GALLONS PER MINUTE = 585 STROKES PER MINUTE = 130 STAND PIPE PSI-ON/OFF = 2150 / 1630 TORQUE~ ON/OFF = 90000 / 3000 PICKUP/SLACK OFF/ROTATE= 134K / 101K / 114K MUD WEIGHT= 8.9 / VISCOSITY= 32 NOV ON LINE DEWATERING SWACO OFF LINE PUMP LCM SWEEPS TO HELP WITH LOSSES SLIDE= 0' / 0 HRS 0 MINUTES BIT POSITION= 11.59' WEST & 7.29' NORTH OF TARGET LINE LAST SURVEY @ 5598' = .88 DEG., 165.56 AZ., 5523.70' TVD 0 BBLS MUD LOST TO SEEPAGE
	9:30 - 11:30	2.00	DRLPRV	22	O	Z	5650	***SAFETY SHUT DOWN PULLED 1 STAND UP OFF BOTTOM & CIRC (HAD ALL HAND SENT TO MAN CAMP)
	11:30 - 18:00	6.50	DRLPRV	02	B	P	5650	DRILL (ROTATE/SLIDE) F/ 5650' - T/ 6222 ' RATE OF PENATRATION= 572' @ 88 /HR WEIGHT ON BIT = 20 / 24 K RPM ~ MUD MOTOR = 117 TOP DRIVE= 70 ~ TOTAL= 187 GALLONS PER MINUTE = 585 STROKES PER MINUTE = 130 STAND PIPE PSI-ON/OFF = 2480 / 1920 TORQUE~ ON/OFF = 100000 / 7000 PICKUP/SLACK OFF/ROTATE= 162K / 110K / 134K MUD WEIGHT= 9.0 / VISCOSITY= 32 NOV ON LINE DEWATERING SWACO OFF LINE PUMP LCM SWEEPS TO HELP WITH LOSSES SLIDE= 24' / 1 HRS 0 MINUTES BIT POSITION= 12.98' WEST & 4.12' NORTH OF TARGET LINE LAST SURVEY @ 6164' = 0.15 DEG., 18.1 AZ., 6089.68' TVD 100 BBLS MUD LOST TO SEEPAGE

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-20B1BS YELLOW		Spud Date: 11/19/2013	
Project: UTAH-UINTAH		Site: NBU 921-20B PAD	Rig Name No: PROPETRO 12/12, H&P 318/318
Event: DRILLING		Start Date: 11/3/2013	End Date:
Active Datum: RKB @4,897.00usft (above Mean Sea Level)		UWI: NW/NE/0/9/S/21/E/20/0/0/26/PM/N/751/E/0/2238/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	18:00 - 0:00	6.00	DRLPRV	02	B	P	6222	DRILL (ROTATE/SLIDE) F/ 6222' - T/ 6770 ' RATE OF PENATRATION= 548 ' @ 91.33 /HR WEIGHT ON BIT = 20 / 24 K RPM ~ MUD MOTOR = 117 TOP DRIVE= 70 ~ TOTAL= 187 GALLONS PER MINUTE = 585 STROKES PER MINUTE = 130 STAND PIPE PSI~ON/OFF = 2525 / 2250 TORQUE~ ON/OFF = 110000 / 8000 PICKUP/SLACK OFF/ROTATE= 186K / 122K / 149K MUD WEIGHT= 9.0 / VISCOSITY= 32 NOV ON LINE DEWATERING SWACO OFF LINE PUMP LCM SWEEPS TO HELP WITH LOSSES SLIDE= 0 ' / 0 HRS 0 MINUTES BIT POSITION= 11.62 ' WEST & 4.04 ' NORTH OF TARGET LINE LAST SURVEY @ 6635 ' = 0.38 DEG., 155.81 AZ., 6560.67' TVD 50 BBLS MUD LOST TO SEEPAGE
1/15/2014	0:00 - 6:00	6.00	DRLPRV	02	B	P	6770	DRILL (ROTATE/SLIDE) F/ 6770' - T/ 7170 ' RATE OF PENATRATION= 400 ' @ 66.66 /HR WEIGHT ON BIT = 20 / 24 K RPM ~ MUD MOTOR = 117 TOP DRIVE= 70 ~ TOTAL= 187 GALLONS PER MINUTE = 585 STROKES PER MINUTE = 130 STAND PIPE PSI~ON/OFF = 2525 / 2250 TORQUE~ ON/OFF = 110000 / 8000 PICKUP/SLACK OFF/ROTATE= 186K / 122K / 149K MUD WEIGHT= 9.0 / VISCOSITY= 32 NOV ON LINE DEWATERING SWACO OFF LINE PUMP LCM SWEEPS TO HELP WITH LOSSES SLIDE= 14 ' / 0 HRS 35 MINUTES BIT POSITION= 10.74 ' WEST & 1.25 ' NORTH OF TARGET LINE LAST SURVEY @ 7012 ' = 0.14 DEG., 354.35 AZ., 6937.66' TVD 0 BBLS MUD LOST TO SEEPAGE

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-20B1BS YELLOW

Spud Date: 11/19/2013

Project: UTAH-UINTAH

Site: NBU 921-20B PAD

Rig Name No: PROPETRO 12/12, H&P 318/318

Event: DRILLING

Start Date: 11/3/2013

End Date:

Active Datum: RKB @4,897.00usft (above Mean Sea Level)

UWI: NW/NE/0/9/S/21/E/20/0/0/26/PM/N/751/E/0/2238/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	6:00 - 13:00	7.00	DRLPRV	02	B	P	7170	DRILL (ROTATE/SLIDE) F/ 7170' - T/ 7635' RATE OF PENATRATION= 464' @ 66.3' /HR WEIGHT ON BIT = 20 / 25 K RPM ~ MUD MOTOR = 123 TOP DRIVE= 70 ~ TOTAL= 193 GALLONS PER MINUTE = 585 STROKES PER MINUTE = 130 STAND PIPE PSI-ON/OFF = 2525 / 2250 TORQUE~ ON/OFF = 12000 / 8000 PICKUP/SLACK OFF/ROTATE= 190K / 126K / 154K MUD WEIGHT= 9.0 / VISCOSITY= 32 NOV ON LINE DEWATERING SWACO OFF LINE PUMP LCM SWEEPS TO HELP WITH LOSSES SLIDE= 0' / 0 HRS 0 MINUTES BIT POSITION= 8.11' WEST & 5.91' NORTH OF TARGET LINE LAST SURVEY @ 7484' = .84 DEG., 49.65 AZ., 7410' TVD 0 BBLS MUD LOST TO SEEPAGE
	13:00 - 13:30	0.50	DRLPRV	07	A	P	7635	SERVICE RIG & EQUIPMENT
	13:30 - 15:30	2.00	DRLPRV	02	B	P	7635	DRILL (ROTATE/SLIDE) F/ 7635' - T/ 7728' RATE OF PENATRATION= 93' @ 46.5' /HR WEIGHT ON BIT = 20 / 25 K RPM ~ MUD MOTOR = 123 TOP DRIVE= 70 ~ TOTAL= 193 GALLONS PER MINUTE = 585 STROKES PER MINUTE = 130 STAND PIPE PSI-ON/OFF = 2525 / 2250 TORQUE~ ON/OFF = 12000 / 8000 PICKUP/SLACK OFF/ROTATE= 190K / 126K / 154K MUD WEIGHT= 9.0 / VISCOSITY= 32 NOV ON LINE DEWATERING SWACO OFF LINE PUMP LCM SWEEPS TO HELP WITH LOSSES 0 BBLS MUD LOST TO SEEPAGE
	15:30 - 18:00	2.50	DRLPRV	02	B	P	7728	DRILL (ROTATE/SLIDE) F/ 7728' - T/ 7838' RATE OF PENATRATION= 110' @ 44' /HR WEIGHT ON BIT = 20 / 25 K RPM ~ MUD MOTOR = 123 TOP DRIVE= 70 ~ TOTAL= 193 GALLONS PER MINUTE = 585 STROKES PER MINUTE = 130 STAND PIPE PSI-ON/OFF = 2525 / 2250 TORQUE~ ON/OFF = 12000 / 8000 PICKUP/SLACK OFF/ROTATE= 190K / 130K / 154K MUD WEIGHT= 9.0 / VISCOSITY= 32 NOV ON LINE DEWATERING SWACO ON LINE / 9.5 ppg EQUIVALENT PUMP LCM SWEEPS TO HELP WITH LOSSES SLIDE= 0' / 0 HRS 0 MINUTES BIT POSITION= 4.81' WEST & 7.31' NORTH OF TARGET LINE LAST SURVEY @ 7767' = 0.65 DEG., 82.68 AZ., 7693' TVD 20 BBLS MUD LOST TO SEEPAGE

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-20B1BS YELLOW

Spud Date: 11/19/2013

Project: UTAH-UINTAH

Site: NBU 921-20B PAD

Rig Name No: PROPETRO 12/12, H&P 318/318

Event: DRILLING

Start Date: 11/3/2013

End Date:

Active Datum: RKB @4,897.00usft (above Mean Sea Level)

UWI: NW/NE/0/9/S/21/E/20/0/0/26/PM/N/751/E/0/2238/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	18:00 - 0:00	6.00	DRLPRV	02	B	P	7838	DRILL (ROTATE/SLIDE) F/ 7838' - T/ 8110' RATE OF PENATRATION= 272' @ 45.3' /HR WEIGHT ON BIT = 20 / 25 K RPM ~ MUD MOTOR = 113 TOP DRIVE= 70 ~ TOTAL= 183 GALLONS PER MINUTE = 540 STROKES PER MINUTE = 120 STAND PIPE PSI-ON/OFF = 2275 / 2050 TORQUE~ ON/OFF = 14000 / 12000 PICKUP/SLACK OFF/ROTATE= 220K / 134K / 173K MUD WEIGHT= 9.2+ / VISCOSITY= 32 NOV ON LINE DEWATERING SWACO ON LINE / 9.5 ppg EQUIVALENT PUMP LCM SWEEPS TO HELP WITH LOSSES SLIDE= 10' / 1 HRS 0 MINUTES BIT POSITION= 1.0' WEST & 7.04' NORTH OF TARGET LINE LAST SURVEY @ 8050' = 0.88 DEG., 115.20 AZ., 7976' TVD 20 BBLS MUD LOST TO SEEPAGE 5' DRILLING FLARE / 10-12' CONNECTION FLARE
1/16/2014	0:00 - 6:00	6.00	DRLPRV	02	B	P	8110	DRILL (ROTATE/SLIDE) F/ 8110' -T/ 8388' RATE OF PENATRATION= 278' @ 46.3' /HR WEIGHT ON BIT = 20 / 25 K RPM ~ MUD MOTOR = 113 TOP DRIVE= 70 ~ TOTAL= 183 GALLONS PER MINUTE = 540 STROKES PER MINUTE = 120 STAND PIPE PSI-ON/OFF = 2275 / 2050 TORQUE~ ON/OFF = 14000 / 12000 PICKUP/SLACK OFF/ROTATE= 224K / 136K / 177K MUD WEIGHT= 9.3+ / VISCOSITY= 32 NOV ON LINE DEWATERING SWACO ON LINE / 9.5 ppg EQUIVALENT PUMP LCM SWEEPS TO HELP WITH LOSSES SLIDE= 8' / 1 HRS 0 MINUTES BIT POSITION= 0.98' WEST & 6.3' NORTH OF TARGET LINE LAST SURVEY @ 8239' = 0.64 DEG., 228.33 AZ., 8165' TVD 20 BBLS MUD LOST TO SEEPAGE 5' DRILLING FLARE / 10-12' CONNECTION FLARE
	6:00 - 8:00	2.00	DRLPRV	08	B	Z	8388	*** BOTH PUMPS DOWN // PULL 2 STANDS & REPAIR PUMPS (SWABS)

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-20B1BS YELLOW		Spud Date: 11/19/2013	
Project: UTAH-UINTAH		Site: NBU 921-20B PAD	Rig Name No: PROPETRO 12/12, H&P 318/318
Event: DRILLING		Start Date: 11/3/2013	End Date:
Active Datum: RKB @4,897.00usft (above Mean Sea Level)		UWI: NW/NE/0/9/S/21/E/20/0/0/26/PM/N/751/E/0/2238/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	8:00 - 12:00	4.00	DRLPRV	02	B	P	8388	DRILL (ROTATE/SLIDE) F/ 8388' - T/ 8491' RATE OF PENATRATION= 103' @ 25.6' /HR WEIGHT ON BIT = 20 / 25 K RPM ~ MUD MOTOR = 104 TOP DRIVE= 70 ~ TOTAL= 174 GALLONS PER MINUTE = 495 STROKES PER MINUTE = 110 STAND PIPE PSI-ON/OFF = 2275 / 2050 TORQUE~ ON/OFF = 16000 / 12000 PICKUP/SLACK OFF/ROTATE= 228K / 140K / 179K MUD WEIGHT= 9.3+ / VISCOSITY= 32 NOV ON LINE DEWATERING SWACO ON LINE / 9.5 ppg EQUIVALENT PUMP LCM SWEEPS TO HELP WITH LOSSES SLIDE= 20' / 1 HRS 25 MINUTES BIT POSITION= 3.17' WEST & 4.7' NORTH OF TARGET LINE LAST SURVEY @ 8427' = 1.06 DEG., 249.67 AZ., 8353' TVD 10 BBLs MUD LOST TO SEEPAGE 5' DRILLING FLARE / 10-12' CONNECTION FLARE
	12:00 - 16:30	4.50	DRLPRV	02	B	P	8491	DRILL (ROTATE/SLIDE) F/ 8491'- T/ 8669' RATE OF PENATRATION= 178' @ 39.6' /HR WEIGHT ON BIT = 20 / 25 K RPM ~ MUD MOTOR = 104 TOP DRIVE= 70 ~ TOTAL= 174 GALLONS PER MINUTE = 495 STROKES PER MINUTE = 110 STAND PIPE PSI-ON/OFF = 2275 / 2050 TORQUE~ ON/OFF = 16000 / 12000 PICKUP/SLACK OFF/ROTATE= 230K / 141K / 181K MUD WEIGHT= 9.3+ / VISCOSITY= 32 NOV ON LINE DEWATERING SWACO ON LINE / 9.5 ppg EQUIVALENT PUMP LCM SWEEPS TO HELP WITH LOSSES 5' DRILLING FLARE / 10-12' CONNECTION FLARE
	16:30 - 17:00	0.50	DRLPRV	07	A	P	8669	SERVICE RIG & EQUIOMENT

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-20B1BS YELLOW

Spud Date: 11/19/2013

Project: UTAH-UINTAH

Site: NBU 921-20B PAD

Rig Name No: PROPETRO 12/12, H&P 318/318

Event: DRILLING

Start Date: 11/3/2013

End Date:

Active Datum: RKB @4,897.00usft (above Mean Sea Level)

UWI: NW/NE/0/9/S/21/E/20/0/0/26/PM/N/751/E/0/2238/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	17:00 - 18:00	1.00	DRLPRV	02	B	P	8669	DRILL (ROTATE/SLIDE) F/ 8669'- T/ 8734' RATE OF PENATRATION= 65' @ 65' /HR WEIGHT ON BIT = 20 / 25 K RPM ~ MUD MOTOR = 104 TOP DRIVE= 70 ~ TOTAL= 174 GALLONS PER MINUTE = 495 STROKES PER MINUTE = 110 STAND PIPE PSI-ON/OFF = 2275 / 2050 TORQUE~ ON/OFF = 16000 / 12000 PICKUP/SLACK OFF/ROTATE= 230K / 141K / 179K MUD WEIGHT= 9.3+ / VISCOSITY= 32 NOV ON LINE DEWATERING SWACO ON LINE / 9.9 ppg EQUIVALENT PUMP LCM SWEEPS TO HELP WITH LOSSES SLIDE= 18' / 1 HRS 15 MINUTES BIT POSITION= 4.82' WEST & 4.44' NORTH OF TARGET LINE LAST SURVEY @ 8616' = 0.44 DEG., 310.05 AZ., 8542' TVD 10 BBLS MUD LOST TO SEEPAGE 5-8' DRILLING FLARE / 12-15' CONNECTION FLARE
	18:00 - 0:00	6.00	DRLPRV	02	B	P	8734	DRILL (ROTATE/SLIDE) F/ 8734'- T/ 8937' RATE OF PENATRATION= 203' @ 33.8' /HR WEIGHT ON BIT = 20 / 25 K RPM ~ MUD MOTOR = 104 TOP DRIVE= 70 ~ TOTAL= 174 GALLONS PER MINUTE = 495 STROKES PER MINUTE = 110 STAND PIPE PSI-ON/OFF = 2400 / 2150 TORQUE~ ON/OFF = 13000 / 14000 PICKUP/SLACK OFF/ROTATE= 245K / 145K / 181K MUD WEIGHT= 9.6+ / VISCOSITY= 33 NOV ON LINE DEWATERING SWACO ON LINE / 10.2 ppg EQUIVALENT PUMP LCM SWEEPS TO HELP WITH LOSSES SLIDE= 10' / 1 HRS 30 MINUTES BIT POSITION= 5.74' WEST & 5.5' NORTH OF TARGET LINE LAST SURVEY @ 8805' = 0.53 DEG., 333.25 AZ., 8730' TVD 10 BBLS MUD LOST TO SEEPAGE 5' DRILLING FLARE / 12-15' CONNECTION FLARE

US ROCKIES REGION

Operation Summary Report

Well: NBU 921-20B1BS YELLOW

Spud Date: 11/19/2013

Project: UTAH-UINTAH

Site: NBU 921-20B PAD

Rig Name No: PROPETRO 12/12, H&P 318/318

Event: DRILLING

Start Date: 11/3/2013

End Date:

Active Datum: RKB @4,897.00usft (above Mean Sea Level)

UWI: NW/NE/0/9/S/21/E/20/0/0/26/PM/N/751/E/0/2238/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
1/17/2014	0:00 - 6:00	6.00	DRLPRV	02	B	P	8937	DRILL (ROTATE/SLIDE) F/ 8937' - T/ 9143' RATE OF PENATRATION= 206' @ 34.3' /HR WEIGHT ON BIT = 20 / 25 K RPM ~ MUD MOTOR = 104 TOP DRIVE= 70 ~ TOTAL= 174 GALLONS PER MINUTE = 495 STROKES PER MINUTE = 110 STAND PIPE PSI-ON/OFF = 2400 / 2150 TORQUE~ ON/OFF = 13000 / 14000 PICKUP/SLACK OFF/ROTATE= 246K / 146K / 182K MUD WEIGHT= 9.7+ / VISCOSITY= 35 NOV ON LINE DEWATERING SWACO ON LINE / 10.2 ppg EQUIVALENT PUMP LCM SWEEPS TO HELP WITH LOSSES SLIDE= 0' / 0 HRS 0 MINUTES BIT POSITION= 6.65' WEST & 6.77' NORTH OF TARGET LINE LAST SURVEY @ 8993' = 0.35 DEG., 288.87 AZ., 8919' TVD 10 BBLS MUD LOST TO SEEPAGE 5' DRILLING FLARE / 10-12' CONNECTION FLARE
	6:00 - 12:00	6.00	DRLPRV	02	B	P	9143	DRILL (ROTATE/SLIDE) F/ 9143'- T/ 9425' RATE OF PENATRATION= 282' @ 47' /HR WEIGHT ON BIT = 20 / 25 K RPM ~ MUD MOTOR = 104 TOP DRIVE= 70 ~ TOTAL= 174 GALLONS PER MINUTE = 495 STROKES PER MINUTE = 110 STAND PIPE PSI-ON/OFF = 2400 / 2150 TORQUE~ ON/OFF = 13000 / 14000 PICKUP/SLACK OFF/ROTATE= 248K / 148K / 192K MUD WEIGHT= 9.5 / VISCOSITY= 33 NOV ON LINE DEWATERING SWACO ON LINE / 10.1 ppg EQUIVALENT PUMP LCM SWEEPS TO HELP WITH LOSSES SLIDE= 0' / 0 HRS 0 MINUTES BIT POSITION= 9.1' WEST & 6.03' NORTH OF TARGET LINE LAST SURVEY @ 9371' = 0.41 DEG., 228.99 AZ., 9297' TVD 10 BBLS MUD LOST TO SEEPAGE 5' DRILLING FLARE / 10-12' CONNECTION FLARE

US ROCKIES REGION

Operation Summary Report

Well: NBU 921-20B1BS YELLOW

Spud Date: 11/19/2013

Project: UTAH-UINTAH

Site: NBU 921-20B PAD

Rig Name No: PROPETRO 12/12, H&P 318/318

Event: DRILLING

Start Date: 11/3/2013

End Date:

Active Datum: RKB @4,897.00usft (above Mean Sea Level)

UWI: NW/NE/0/9/S/21/E/20/0/0/26/PM/N/751/E/0/2238/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	12:00 - 17:30	5.50	DRLPRV	02	B	P	9425	DRILL (ROTATE/SLIDE) F/ 9425'- T/ 9619' RATE OF PENATRATION= 194' @ 35.3' /HR WEIGHT ON BIT = 20 / 25 K RPM ~ MUD MOTOR = 104 TOP DRIVE= 70 ~ TOTAL= 174 GALLONS PER MINUTE = 495 STROKES PER MINUTE = 110 STAND PIPE PSI-ON/OFF = 2400 / 2150 TORQUE~ ON/OFF = 13000 / 14000 PICKUP/SLACK OFF/ROTATE= 250K / 150K / 194K MUD WEIGHT= 9.4 / VISCOSITY= 33 NOV ON LINE DEWATERING SWACO ON LINE / 10.0 ppg EQUIVALENT PUMP LCM SWEEPS TO HELP WITH LOSSES SLIDE= 0' / 0 HRS 0 MINUTES BIT POSITION= 9.32' WEST & 5.68' NORTH OF TARGET LINE LAST SURVEY @ 9465' = 0.31 DEG., 204.48 AZ., 9391' TVD 20 BBLS MUD LOST TO SEEPAGE 5' DRILLING FLARE / 10-12' CONNECTION FLARE
	17:30 - 18:00	0.50	DRLPRV	07	A	P	9619	SERVICE RIG & EQUIPMENT
	18:00 - 0:00	6.00	DRLPRV	02	B	P	9619	DRILL (ROTATE/SLIDE) F/ 9619' -T/ 9833" RATE OF PENATRATION= 214' @ 35.7' /HR WEIGHT ON BIT = 20 / 27 K RPM ~ MUD MOTOR = 104 TOP DRIVE= 70 ~ TOTAL= 174 GALLONS PER MINUTE = 495 STROKES PER MINUTE = 110 STAND PIPE PSI-ON/OFF = 2400 / 2150 TORQUE~ ON/OFF = 17000 / 14000 PICKUP/SLACK OFF/ROTATE= 253K / 151K / 197K MUD WEIGHT= 9.3 / VISCOSITY= 34 NOV ON LINE DEWATERING SWACO ON LINE / 10.0 ppg EQUIVALENT PUMP LCM SWEEPS TO HELP WITH LOSSES SLIDE= 0' / 0 HRS 0 MINUTES BIT POSITION= 7.52' WEST & 2.62' NORTH OF TARGET LINE LAST SURVEY @ 9748' = 1.21 DEG., 133.04 AZ., 9673' TVD 50 BBLS MUD LOST TO SEEPAGE 5' DRILLING FLARE / 10-12' CONNECTION FLARE

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-20B1BS YELLOW

Spud Date: 11/19/2013

Project: UTAH-UINTAH

Site: NBU 921-20B PAD

Rig Name No: PROPETRO 12/12, H&P 318/318

Event: DRILLING

Start Date: 11/3/2013

End Date:

Active Datum: RKB @4,897.00usft (above Mean Sea Level)

UWI: NW/NE/0/9/S/21/E/20/0/0/26/PM/N/751/E/0/2238/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
1/18/2014	0:00 - 6:00	6.00	DRLPRV	02	B	P	9833	DRILL (ROTATE/SLIDE) F/ 9833' - T/ 10023 RATE OF PENATRATION= 190' @ 31.6' /HR WEIGHT ON BIT = 20 / 27 K RPM ~ MUD MOTOR = 104 TOP DRIVE= 70 ~ TOTAL= 174 GALLONS PER MINUTE = 495 STROKES PER MINUTE = 110 STAND PIPE PSI-ON/OFF = 2400 / 2150 TORQUE~ ON/OFF = 17000 / 14000 PICKUP/SLACK OFF/ROTATE= 253K / 151K / 197K MUD WEIGHT= 9.3 / VISCOSITY= 34 NOV ON LINE DEWATERING SWACO ON LINE / 10.0 ppg EQUIVALENT PUMP LCM SWEEPS TO HELP WITH LOSSES SLIDE= 0' / 0 HRS 0 MINUTES BIT POSITION= 5.75' WEST & 1.4' NORTH OF TARGET LINE LAST SURVEY @ 9842' = 1.49 DEG., 129.26 AZ., 9767' TVD 50 BBLS MUD LOST TO SEEPAGE 5' DRILLING FLARE / 10-12' CONNECTION FLARE
	6:00 - 12:00	6.00	DRLPRV	02	B	P	10,023	DRILL (ROTATE/SLIDE) F/ 10023' - T/ 10212' RATE OF PENATRATION= 189' @ 31.5' /HR WEIGHT ON BIT = 20 / 27 K RPM ~ MUD MOTOR = 104 TOP DRIVE= 70 ~ TOTAL= 174 GALLONS PER MINUTE = 495 STROKES PER MINUTE = 110 STAND PIPE PSI-ON/OFF = 2400 / 2150 TORQUE~ ON/OFF = 17000 / 14000 PICKUP/SLACK OFF/ROTATE= 275K / 154K / 202K MUD WEIGHT= 9.3 / VISCOSITY= 34 NOV ON LINE DEWATERING SWACO ON LINE / 10.0 ppg EQUIVALENT PUMP LCM SWEEPS TO HELP WITH LOSSES SLIDE= 0' / 0 HRS 0 MINUTES BIT POSITION= 0.5' WEST & 4.28' SOUTH OF TARGET LINE LAST SURVEY @ 10125' = 1.68 DEG., 133.32 AZ., 10050' TVD 50 BBLS MUD LOST TO SEEPAGE 5' DRILLING FLARE / 10-12' CONNECTION FLARE

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-20B1BS YELLOW

Spud Date: 11/19/2013

Project: UTAH-UINTAH

Site: NBU 921-20B PAD

Rig Name No: PROPETRO 12/12, H&P 318/318

Event: DRILLING

Start Date: 11/3/2013

End Date:

Active Datum: RKB @4,897.00usft (above Mean Sea Level)

UWI: NW/NE/0/9/S/21/E/20/0/0/26/PM/N/751/E/0/2238/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	12:00 - 15:00	3.00	DRLPRV	02	B	P	10,212	DRILL (ROTATE/SLIDE) F/ 10212' - T/ 10273' RATE OF PENATRATION= 61' @ 20' /HR WEIGHT ON BIT = 20 / 27 K RPM ~ MUD MOTOR = 104 TOP DRIVE= 70 ~ TOTAL= 174 GALLONS PER MINUTE = 495 STROKES PER MINUTE = 110 STAND PIPE PSI-ON/OFF = 2400 / 2150 TORQUE~ ON/OFF = 17000 / 14000 PICKUP/SLACK OFF/ROTATE= 275K / 154K / 202K MUD WEIGHT= 9.3 / VISCOSITY= 34 NOV ON LINE DEWATERING SWACO ON LINE / 10.0 ppg EQUIVALENT PUMP LCM SWEEPS TO HELP WITH LOSSES SLIDE= 0' / 0 HRS 0 MINUTES BIT POSITION= 0.5' WEST & 4.28' SOUTH OF TARGET LINE LAST SURVEY @ 10125' = 1.68 DEG., 133.32 AZ., 10050' TVD 50 BBLS MUD LOST TO SEEPAGE 5' DRILLING FLARE / 10-12' CONNECTION FLARE ROP DROP OFF TO 15' / HOUR / START DISPLACING HEAVY MUD IN HOLE @ 10245' IN PREPERATION FOR BIT TRIP AFTER PHONE CALL WITH LOVEL YOUNG
	15:00 - 18:00	3.00	DRLPRV	05	B	P	10,273	FINISH DISPLACING HEAVY MUD & CONDITION TO 12.0 MUD WT
	18:00 - 0:00	6.00	DRLPRV	06	A	P	10,273	TRIP OUT OF HOLE FOR BIT # 1 /// WORK TIGHT F/ 5180' - T/ 4800' (TOP OF WASATCH
1/19/2014	0:00 - 5:00	5.00	DRLPRV	06	A	P	10,273	TRIP OUT OF HOLE BIT # 2 (WORK THRU TIGHT HOLE F/ 4433' - 4390' & F/ 3742' - 3715') // LAY DOWN BIT # 1 & MUD MOTOR #2
	5:00 - 14:30	9.50	DRLPRV	06	A	P	10,273	PICK UP BIT # 2 & MUD MOTOR #2 /// SCRIBE MWD /// TRIP IN HOLE // BREAK CIRCULATION @ 3100', 6500' & 9500' /// WASH LAST 2 STDS (180') TO BOTTOM PRECAUTIONARY
	14:30 - 15:00	0.50	DRLPRV	22	D	Z	10,273	***TROUBLE SHOOT MWD PROBLEMS & GET SURVEY

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-20B1BS YELLOW

Spud Date: 11/19/2013

Project: UTAH-UINTAH

Site: NBU 921-20B PAD

Rig Name No: PROPETRO 12/12, H&P 318/318

Event: DRILLING

Start Date: 11/3/2013

End Date:

Active Datum: RKB @4,897.00usft (above Mean Sea Level)

UWI: NW/NE/0/9/S/21/E/20/0/0/26/PM/N/751/E/0/2238/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	15:00 - 18:00	3.00	DRLPRV	02	B	P	10,273	DRILL (ROTATE/SLIDE) F/ 10273' - T/ 10446' RATE OF PENATRATION= 173' @ 57.6' /HR WEIGHT ON BIT = 20 / 27 K RPM ~ MUD MOTOR = 99 TOP DRIVE= 70 ~ TOTAL= 169 GALLONS PER MINUTE = 495 STROKES PER MINUTE = 110 STAND PIPE PSI-ON/OFF = 3100 / 2800 TORQUE~ ON/OFF = 14000 / 12000 PICKUP/SLACK OFF/ROTATE= 268K / 168K / 203K MUD WEIGHT= 12.2 / VISCOSITY= 37 NOV OFF LINE SWACO OFF LINE PUMP LCM SWEEPS TO HELP WITH LOSSES SLIDE= 0' / 0 HRS 0 MINUTES BIT POSITION= 3.5' WEST & 7.49' SOUTH OF TARGET LINE LAST SURVEY @ 10314' = 1.41 DEG., 129.08 AZ., 10239' TVD 12 BBLS MUD LOST TO SEEPAGE NO FLARE
	18:00 - 0:00	6.00	DRLPRV	02	B	P	10,446	DRILL (ROTATE/SLIDE) F/ 10446' - T/ 10685' RATE OF PENATRATION= 239' @ 39.8' /HR WEIGHT ON BIT = 20 / 27 K RPM ~ MUD MOTOR = 99 TOP DRIVE= 70 ~ TOTAL= 169 GALLONS PER MINUTE = 495 STROKES PER MINUTE = 110 STAND PIPE PSI-ON/OFF = 3100 / 2800 TORQUE~ ON/OFF = 14000 / 14000 PICKUP/SLACK OFF/ROTATE= 268K / 168K / 203K MUD WEIGHT= 12.2 / VISCOSITY= 37 NOV OFF LINE SWACO OFF LINE PUMP LCM SWEEPS TO HELP WITH LOSSES SLIDE= 0' / 0 HRS 0 MINUTES BIT POSITION= 14.66' EAST & 11.4' SOUTH OF TARGET LINE LAST SURVEY @ 10597' = 2.4 DEG., 127.0 AZ., 10522' TVD 0 BBLS MUD LOST TO SEEPAGE NO FLARE

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-20B1BS YELLOW

Spud Date: 11/19/2013

Project: UTAH-UINTAH

Site: NBU 921-20B PAD

Rig Name No: PROPETRO 12/12, H&P 318/318

Event: DRILLING

Start Date: 11/3/2013

End Date:

Active Datum: RKB @4,897.00usft (above Mean Sea Level)

UWI: NW/NE/0/9/S/21/E/20/0/0/26/PM/N/751/E/0/2238/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
1/20/2014	0:00 - 5:30	5.50	DRLPRV	02	B	P	10,685	DRILL (ROTATE/SLIDE) F/ 10685' - T/ 10840' RATE OF PENATRATION= 155' @ 28.2' /HR WEIGHT ON BIT = 20 / 27 K RPM ~ MUD MOTOR = 99 TOP DRIVE= 70 ~ TOTAL= 169 GALLONS PER MINUTE = 495 STROKES PER MINUTE = 110 STAND PIPE PSI-ON/OFF = 3100 / 2800 TORQUE~ ON/OFF = 14000 / 14000 PICKUP/SLACK OFF/ROTATE= 270K / 268K / 204K MUD WEIGHT= 12.2 / VISCOSITY= 37 NOV OFF LINE SWACO OFF LINE PUMP LCM SWEEPS TO HELP WITH LOSSES SLIDE= 0' / 0 HRS 0 MINUTES BIT POSITION= 14.33' EAST & 16.72' SOUTH OF TARGET LINE LAST SURVEY @ 10691' = 2.31 DEG., 130.67 AZ., 10616' TVD 0 BBLS MUD LOST TO SEEPAGE NO FLARE
	5:30 - 6:00	0.50	DRLPRV	07	A	P	10,840	SERVICE RIG & EQUIPMENT
	6:00 - 7:00	1.00	DRLPRV	08	A	Z	10,840	*** HAD TROUBLE BREAKING SAVER SUB FROM DRILL PIPE TOOL JOINT ON CONNECTION // REPLACE SAVER SUB AND CLAMP ON SAVER SUB AND IBOP
	7:00 - 12:00	5.00	DRLPRV	02	B	P	10,840	DRILL (ROTATE/SLIDE) F/ 10840'- T/ 10975' RATE OF PENATRATION= 135' @ 27' /HR WEIGHT ON BIT = 20 / 27 K RPM ~ MUD MOTOR = 99 TOP DRIVE= 70 ~ TOTAL= 169 GALLONS PER MINUTE = 495 STROKES PER MINUTE = 110 STAND PIPE PSI-ON/OFF = 3100 / 2800 TORQUE~ ON/OFF = 14000 / 14000 PICKUP/SLACK OFF/ROTATE= 270K / 268K / 204K MUD WEIGHT= 12.2 / VISCOSITY= 37 NOV OFF LINE SWACO OFF LINE PUMP LCM SWEEPS TO HELP WITH LOSSES SLIDE= 0' / 0 HRS 0 MINUTES BIT POSITION= 19.77' EAST & 21.63' SOUTH OF TARGET LINE LAST SURVEY @ 10880' = 2.29 DEG., 136.59 AZ., 10805' TVD 10 BBLS MUD LOST TO SEEPAGE NO FLARE

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-20B1BS YELLOW

Spud Date: 11/19/2013

Project: UTAH-UINTAH

Site: NBU 921-20B PAD

Rig Name No: PROPETRO 12/12, H&P 318/318

Event: DRILLING

Start Date: 11/3/2013

End Date:

Active Datum: RKB @4,897.00usft (above Mean Sea Level)

UWI: NW/NE/0/9/S/21/E/20/0/0/26/PM/N/751/E/0/2238/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	12:00 - 18:00	6.00	DRLPRV	02	B	P	10,975	DRILL (ROTATE/SLIDE) F/ 10975' -T/ 11106 RATE OF PENATRATION= 131' @ 21.8' /HR WEIGHT ON BIT = 20 / 27 K RPM ~ MUD MOTOR = 99 TOP DRIVE= 70 ~ TOTAL= 169 GALLONS PER MINUTE = 495 STROKES PER MINUTE = 110 STAND PIPE PSI-ON/OFF = 3100 / 2800 TORQUE~ ON/OFF = 14000 / 14000 PICKUP/SLACK OFF/ROTATE= 270K / 168K / 204K MUD WEIGHT= 12.2 / VISCOSITY= 37 NOV OFF LINE SWACO OFF LINE PUMP LCM SWEEPS TO HELP WITH LOSSES SLIDE= 0' / 0 HRS 0 MINUTES BIT POSITION= 22.36' EAST & 24.79' SOUTH OF TARGET LINE LAST SURVEY @ 10974' = 2.43 DEG., 138.99 AZ., 10899' TVD 0 BBLS MUD LOST TO SEEPAGE NO FLARE
	18:00 - 0:00	6.00	DRLPRV	02	B	P	11,106	DRILL (ROTATE/SLIDE) F/ 11106' -T/ 11250' RATE OF PENATRATION= 144' @ 24' /HR WEIGHT ON BIT = 20 / 27 K RPM ~ MUD MOTOR = 90 TOP DRIVE= 75 ~ TOTAL= 165 GALLONS PER MINUTE = 450 STROKES PER MINUTE = 100 STAND PIPE PSI-ON/OFF = 3000 / 2800 TORQUE~ ON/OFF = 17000 / 16000 PICKUP/SLACK OFF/ROTATE= 272K / 168K / 208K MUD WEIGHT= 12.2 / VISCOSITY= 37 NOV OFF LINE SWACO OFF LINE PUMP LCM SWEEPS TO HELP WITH LOSSES SLIDE= 0' / 0 HRS 0 MINUTES BIT POSITION= 27.47' EAST & 32.31' SOUTH OF TARGET LINE LAST SURVEY @ 11162' = DEG., 2.61 AZ., 11087' TVD 0 BBLS MUD LOST TO SEEPAGE NO FLARE

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-20B1BS YELLOW		Spud Date: 11/19/2013	
Project: UTAH-UINTAH		Site: NBU 921-20B PAD	Rig Name No: PROPETRO 12/12, H&P 318/318
Event: DRILLING		Start Date: 11/3/2013	End Date:
Active Datum: RKB @4,897.00usft (above Mean Sea Level)		UWI: NW/NE/0/9/S/21/E/20/0/0/26/PM/N/751/E/0/2238/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
1/21/2014	0:00 - 6:00	6.00	DRLPRV	02	B	P	11,250	DRILL (ROTATE/SLIDE) F/ 11250' - T/ 11405' RATE OF PENATRATION= 155' @ 25.8' /HR WEIGHT ON BIT = 20 / 27 K RPM ~ MUD MOTOR = 90 TOP DRIVE= 75 ~ TOTAL= 165 GALLONS PER MINUTE = 450 STROKES PER MINUTE = 100 STAND PIPE PSI-ON/OFF = 3000 / 2800 TORQUE~ ON/OFF = 17000 / 16000 PICKUP/SLACK OFF/ROTATE= 273K / 168K / 209K MUD WEIGHT= 12.2 / VISCOSITY= 37 NOV OFF LINE SWACO OFF LINE PUMP LCM SWEEPS TO HELP WITH LOSSES SLIDE= 0' / 0 HRS 0 MINUTES BIT POSITION= 29.98' EAST & 34.75' SOUTH OF TARGET LINE LAST SURVEY @ 11256' = 2.64 DEG., 143.41 AZ., 11180' TVD 0 BBLS MUD LOST TO SEEPAGE NO FLARE
	6:00 - 8:30	2.50	DRLPRV	02	B	P	11,405	DRILL (ROTATE/SLIDE) F/ 11405' - T/ 11486' RATE OF PENATRATION= 81' @ 32.4' /HR WEIGHT ON BIT = 20 / 27 K RPM ~ MUD MOTOR = 90 TOP DRIVE= 75 ~ TOTAL= 165 GALLONS PER MINUTE = 450 STROKES PER MINUTE = 100 STAND PIPE PSI-ON/OFF = 3000 / 2800 TORQUE~ ON/OFF = 17000 / 16000 PICKUP/SLACK OFF/ROTATE= 274K / 168K / 210K MUD WEIGHT= 12.2 / VISCOSITY= 37 NOV OFF LINE SWACO OFF LINE PUMP LCM SWEEPS TO HELP WITH LOSSES SLIDE= 0' / 0 HRS 0 MINUTES BIT POSITION= 31.98' EAST & 35.75' SOUTH OF TARGET LINE LAST SURVEY @ 11431' = 2.71 DEG., 146.26 AZ., 11355' TVD 0 BBLS MUD LOST TO SEEPAGE NO FLARE
	8:30 - 9:00	0.50	DRLPRV	05	J	P	11,486	GET FINAL SURVEYS & CHECK FLOW // WELL FLOWING 4-5 GALLONS A MINUTE WITH 12.3# MUD
	9:00 - 11:30	2.50	DRLPRV	05	A	P	11,486	CIRCULATE & CONDITION HOLE FOR LOGS // RAISE MUD WT. TO 12.5# /// CHECK FLOW - NMO FLOW
	11:30 - 18:00	6.50	DRLPRV	06	B	P	11,486	TRIP OUT FOR LOGS // STRAP OUT
	18:00 - 18:30	0.50	DRLPRV	07	A	P	11,486	SERVICE RIG & EQUIPMENT
	18:30 - 22:30	4.00	DRLPRV	06	B	P	11,486	TRIP OUIT FOR LOGS // STRAP OUT // LAY DOWN DIRECTIONAL TOOLS
	22:30 - 0:00	1.50	DRLPRV	06	B	P	11,486	PICK UP LOGGING BHA / PICK UP LOGGING TOOLS

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-20B1BS YELLOW		Spud Date: 11/19/2013	
Project: UTAH-UINTAH		Site: NBU 921-20B PAD	Rig Name No: PROPETRO 12/12, H&P 318/318
Event: DRILLING		Start Date: 11/3/2013	End Date:
Active Datum: RKB @4,897.00usft (above Mean Sea Level)		UWI: NW/NE/0/9/S/21/E/20/0/0/26/PM/N/751/E/0/2238/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
1/22/2014	0:00 - 4:00	4.00	DRLPRV	06	B	P	11,486	PICK UP LOGGING BHA AND LOGGING TOOLS (WHILE MAKING UP STAND OF HEAVY WT., PIPE DROPPED IN SLIPS. HAD TO PULL BACK UP & CHECK TOOL // TOOL WAS NOT DEPLOYED)
	4:00 - 10:00	6.00	DRLPRV	06	B	P	11,486	TRIP IN HOLE / CHECK LOGGING TOOLS & PRESSURES EVERY 15 STANDS // FIRST TIME CHECK PRESSURE , HAD HI PRESSURE ISSUE DUE TO 2% LCM IN SYSTEM PLUGGING DRILL PIPE SCREEN STARTED SHAKING LCM OUT OF ACTIVE SYSTEM // AFTER GETTING LCM DOWN TO 1%, DONE SECOND PRESSURE TEST @3000'- AFTER CIRCULATING FOR SEVERAL MINUTES, PRESSURE DROPPED OF 250 PSI ALL AT ONCE.HAD CONCERNES OVER DEPLOYING LOGGING TOOL PREMATURELY
	10:00 - 15:30	5.50	DRLPRV	06	B	P	11,486	DECISION MADE NOT TO RUN LOGS // TRIP OUT & LAY DOWN LOGGING TOOLS /// TOOL WAS NOT DEPLOYED & WAS NOT PACKED OFF WITH LCM
1/23/2014	15:30 - 16:00	0.50	DRLPRV	14	A	P	11,486	PULL WEAR BUSHING
	16:00 - 17:00	1.00	CSGPRO	12	A	P	11,486	SAFETY MEETING WITH KIMZEY CASING CREW & RIG UP CASING TOOLS
	17:00 - 0:00	7.00	CSGPRO	12	C	P	11,486	RUN 145 JT'S, 4.5", 11.6#, HCP-110, LT&C CSG & 1123 JT'S, 4.5", 11.6#, HCP-110, DQX CSG /// SHOE SET @ 11,461' /// TOP OF FLOAT COLLAR @ 11,414' /// TOP OF BLACKHAWK MARKER JT. @ 10,860' /// TOP OF MESAVERDE MARKER JT. @ 8142, /// TOP OF DV TOOL @ 5357' /// TOP LTC x DQX CROSSOVER @ 4980'
	0:00 - 4:30	4.50	CSGPRO	12	C	P	11,486	RUN 145 JT'S, 4.5", 11.6#, HCP-110, LT&C CSG & 1123 JT'S, 4.5", 11.6#, HCP-110, DQX CSG /// SHOE SET @ 11,461' /// TOP OF FLOAT COLLAR @ 11,414' /// TOP OF BLACKHAWK MARKER JT. @ 10,860' /// TOP OF MESAVERDE MARKER JT. @ 8142, /// TOP OF DV TOOL @ 5357' /// TOP LTC x DQX CROSSOVER @ 4980'
1/23/2014	4:30 - 6:30	2.00	CSGPRO	05	A	P	11,486	LAND MANDRELL AND BREAK CIRCULATION // CIRCULATE 4.5" CASING @ 11,461' WITH 70 SPM, 315 GPM, 800 PSI

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-20B1BS YELLOW		Spud Date: 11/19/2013	
Project: UTAH-UINTAH		Site: NBU 921-20B PAD	Rig Name No: PROPETRO 12/12, H&P 318/318
Event: DRILLING		Start Date: 11/3/2013	End Date:
Active Datum: RKB @4,897.00usft (above Mean Sea Level)		UWI: NW/NE/0/9/S/21/E/20/0/0/26/PM/N/751/E/0/2238/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	6:30 - 10:00	3.50	CSGPRO	12	E	P	11,486	TEST LINES TO 4500 PSI /// PUMP FIRST STAGE - PUMPED 25 BBL FRESH WATER AHEAD // 1st TAIL CMT WITH 1500 sx (360 bbls) 50:50 POZ CEMENT @ 14.3 # WT. & 1.35 cf/sk YIELD +.05% BWOC OF STATIC FREE + 10% BWOW SODIUM CHLORIDE +.55% BWOC R-3 +.5% BWOC EC -1 +.25% LBS/SX CELLO FLAKE +.002GPS FP-6L + .7% BWOC METASILICATE +2% BWOC BENTONITE II + 5LBS/SX KOL-SEAL, 50 LB BAG + 55.9% FRESH WATER // DISPLACE WITH 100 BBLS WATER FOLLOWED BY 77 BBLS BBL'S OF 12.4 #, 40 VISC. MUD /// PLUG DID NOT BUMP AFTER PUMP 178 BBL'S DISPLACEMENT, CALCULATED DISPLACEMENT WAS 177 BBLS, STOPPED PUMPING @ 09:35 01/23/2014 /// FINAL LIFT= 2800 PSI /// CHECK FLOATS- HELD WITH 1.5 bbls BACK /// FULL RETURNS THRU OUT JOB /// PUMPED 40% EXCESS ON CEMENT /// JOB COMPLETED WITH NO OTHER ISSUES EXCEPT PLUG NOT BUMPING *** NOTE; NOTIFIED FRANK FERNANDEZ & KENNY GATHINGS THAT PLUG DID NOT BUMP ON FIRST STAGE
	10:00 - 14:00	4.00	CSGPRO	05	A	P	11,486	DROP BOMB & OPEN DV TOOL WITH 804 PSI /// CIRCULATE BETWEEN CEMENT STAGES /// 60 BBL'S CEMENT TO SURFACE
	14:00 - 16:30	2.50	CSGPRO	12	E	P	11,486	PUMP SECOND STAGE CMT. /// SPACER 25 BBLS H2O /// 2nd LEAD CMT = 915sx(257 bbls) PREMIUM LITE II CMT @ 13.5# WT. & 1.58cf/sx YIELD +.05% BWOC STATIC FREE + 2% BWOC CALCIUM CHLORIDE + .25 lbs/sx CELLO FLAKE + 5 lbs/sx KOL-SEAL, 50LB BAG + .4% BWOCFL-52 + .4% BWOC SODIUM METASSILICATE + 6% BWOC BENTONITE II + 101.2% FRESH WATER /// TAIL CMT = 60sx (12 bbls) CLASS G CMT @15.8# WT & 1.16 cf/sx YIELD + 1%BWOC CALCIUM CHLORIDE + .4% BWOC SODIUM METASILICATE + 44.4% FRESH WATER /// DROP PLUG & DISPLACE W/ 83 BBLS WATER /// BUMP PLUG @ 15:10 01/23/2014 WITH 3317 PSI /// FINAL LIFT = 1483 PSI /// CHECK FLOATS- HELD WITH 1.25 BBLS BACK TO TRUCK /// 40 BBL'S CEMENT TO SURFACE /// ESTIMATED TOP OF TAIL @ 5102'
	16:30 - 17:00	0.50	CSGPRO	12	B	P	11,486	FLUSH BOP, SWACO, & GAS BUSTER // RIG DOWN & LOAD OUT CEMENT EQUIPMENT
	17:00 - 18:00	1.00	CSGPRO	14	B	P	11,486	SET PACK OFF & LAY DOWN LANDING JOINT
	18:00 - 20:00	2.00	CSGPRO	14	A	P	11,486	NIPPLE DOWN BOPE & SWACO RELEASE RIG @ 20:00 01/23/2014 TO THE NBU 921-20B

US ROCKIES REGION

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diamete r (in)	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc./Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
4/28/2014 12:00AM	MESAVERDE/			8,254.0	8,256.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO N	
4/28/2014 12:00AM	MESAVERDE/			8,266.0	8,267.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO N	
4/28/2014 12:00AM	MESAVERDE/			8,276.0	8,277.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO N	
4/28/2014 12:00AM	MESAVERDE/			8,293.0	8,294.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO N	
4/28/2014 12:00AM	MESAVERDE/			8,302.0	8,304.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO N	
4/28/2014 12:00AM	MESAVERDE/			8,344.0	8,345.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO N	
4/28/2014 12:00AM	MESAVERDE/			8,371.0	8,372.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO N	
4/28/2014 12:00AM	MESAVERDE/			8,387.0	8,388.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO N	
4/28/2014 12:00AM	MESAVERDE/			8,400.0	8,402.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO N	
4/28/2014 12:00AM	MESAVERDE/			8,433.0	8,434.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO N	
4/28/2014 12:00AM	MESAVERDE/			8,463.0	8,465.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO N	
4/28/2014 12:00AM	MESAVERDE/			8,519.0	8,520.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO N	
4/28/2014 12:00AM	MESAVERDE/			8,578.0	8,579.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO N	
4/28/2014 12:00AM	MESAVERDE/			8,606.0	8,607.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO N	
4/28/2014 12:00AM	MESAVERDE/			8,649.0	8,650.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO N	
4/28/2014 12:00AM	MESAVERDE/			8,724.0	8,725.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO N	
4/28/2014 12:00AM	MESAVERDE/			8,736.0	8,737.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO N	
4/28/2014 12:00AM	MESAVERDE/			8,749.0	8,751.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO N	
4/28/2014 12:00AM	MESAVERDE/			8,801.0	8,802.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO N	
4/28/2014 12:00AM	MESAVERDE/			8,862.0	8,863.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO N	
4/28/2014 12:00AM	MESAVERDE/			8,878.0	8,879.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO N	

US ROCKIES REGION

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diamete r (in)	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc./Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
4/28/2014 12:00AM	MESAVERDE/			8,905.0	8,906.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO N	
4/28/2014 12:00AM	MESAVERDE/			8,951.0	8,952.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO N	
4/28/2014 12:00AM	MESAVERDE/			8,970.0	8,971.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO N	
4/28/2014 12:00AM	MESAVERDE/			8,986.0	8,987.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO N	
4/28/2014 12:00AM	MESAVERDE/			8,995.0	8,996.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO N	
4/28/2014 12:00AM	MESAVERDE/			9,051.0	9,052.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO N	
4/28/2014 12:00AM	MESAVERDE/			9,114.0	9,115.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO N	
4/28/2014 12:00AM	MESAVERDE/			9,160.0	9,161.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO N	
4/28/2014 12:00AM	MESAVERDE/			9,181.0	9,183.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO N	
4/28/2014 12:00AM	MESAVERDE/			9,257.0	9,260.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO N	
4/28/2014 12:00AM	MESAVERDE/			9,385.0	9,386.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO N	
4/28/2014 12:00AM	MESAVERDE/			9,423.0	9,424.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO N	
4/28/2014 12:00AM	MESAVERDE/			9,435.0	9,436.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO N	
4/28/2014 12:00AM	MESAVERDE/			9,451.0	9,452.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO N	
4/28/2014 12:00AM	MESAVERDE/			9,459.0	9,460.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO N	
4/28/2014 12:00AM	MESAVERDE/			9,475.0	9,476.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO N	
4/28/2014 12:00AM	MESAVERDE/			9,489.0	9,491.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO N	
4/28/2014 12:00AM	MESAVERDE/			9,588.0	9,589.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO N	
4/28/2014 12:00AM	MESAVERDE/			9,618.0	9,619.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO N	
4/28/2014 12:00AM	MESAVERDE/			9,678.0	9,679.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO N	
4/28/2014 12:00AM	MESAVERDE/			9,691.0	9,692.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO N	

US ROCKIES REGION

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diamete r (in)	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc./Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
4/28/2014 12:00AM	MESAVERDE/			9,724.0	9,725.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO N	
4/28/2014 12:00AM	MESAVERDE/			9,746.0	9,747.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO N	
4/28/2014 12:00AM	MESAVERDE/			9,777.0	9,778.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO N	
4/28/2014 12:00AM	MESAVERDE/			9,806.0	9,807.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO N	
4/28/2014 12:00AM	MESAVERDE/			9,881.0	9,882.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO N	
4/28/2014 12:00AM	MESAVERDE/			9,929.0	9,930.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO N	
4/28/2014 12:00AM	MESAVERDE/			9,944.0	9,945.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO N	
4/28/2014 12:00AM	MESAVERDE/			9,961.0	9,962.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO N	
4/28/2014 12:00AM	MESAVERDE/			9,980.0	9,982.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO N	
4/28/2014 12:00AM	MESAVERDE/			10,006.0	10,008.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO N	
4/28/2014 12:00AM	MESAVERDE/			10,054.0	10,055.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO N	
4/28/2014 12:00AM	MESAVERDE/			10,062.0	10,063.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO N	
4/28/2014 12:00AM	MESAVERDE/			10,077.0	10,078.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO N	
4/28/2014 12:00AM	MESAVERDE/			10,225.0	10,226.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO N	
4/28/2014 12:00AM	MESAVERDE/			10,305.0	10,308.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO N	
4/28/2014 12:00AM	MESAVERDE/			10,988.0	10,989.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO N	
4/28/2014 12:00AM	MESAVERDE/			10,996.0	10,997.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO N	
4/28/2014 12:00AM	MESAVERDE/			11,011.0	11,012.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO N	
4/28/2014 12:00AM	MESAVERDE/			11,036.0	11,037.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO N	
4/28/2014 12:00AM	MESAVERDE/			11,072.0	11,073.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO N	
4/28/2014 12:00AM	MESAVERDE/			11,098.0	11,099.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO N	

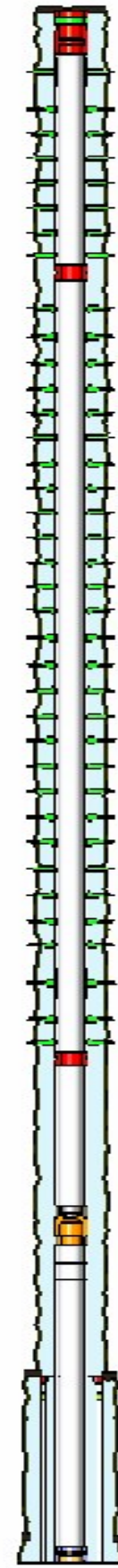
US ROCKIES REGION

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diamete r (in)	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
4/28/2014 12:00AM	MESAVERDE/			11,113.0	11,115.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO N	
4/28/2014 12:00AM	MESAVERDE/			11,153.0	11,154.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO N	
4/28/2014 12:00AM	MESAVERDE/			11,167.0	11,168.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO N	
4/28/2014 12:00AM	MESAVERDE/			11,189.0	11,190.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO N	
4/28/2014 12:00AM	MESAVERDE/			11,204.0	11,205.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO N	
4/28/2014 12:00AM	MESAVERDE/			11,217.0	11,218.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO N	
4/28/2014 12:00AM	MESAVERDE/			11,270.0	11,271.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO N	
4/28/2014 12:00AM	MESAVERDE/			11,295.0	11,296.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO N	
4/28/2014 12:00AM	MESAVERDE/			11,311.0	11,312.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO N	

3 Plots

3.1 Wellbore Schematic



US ROCKIES REGION
Operation Summary Report

US ROCKIES REGION								
Operation Summary Report								
Well: NBU 921-20B1BS YELLOW					Spud Date: 11/19/2013			
Project: UTAH-UINTAH			Site: NBU 921-20B PAD			Rig Name No: MILES 4/4		
Event: COMPLETION			Start Date: 3/21/2014		End Date: 5/15/2014			
Active Datum: RKB @4,897.00usft (above Mean Sea Level)				UWI: NW/NE/0/9/S/21/E/20/0/0/26/PM/N/751/E/0/2238/0/0				
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
3/21/2014	7:00 - 7:30	0.50	SUBSPR	48		P		HSM, RIGGING DWN & UP.
	7:30 - 9:00	1.50	SUBSPR	30	A	P		3 OF 7, RIG DWN OFF BLUE WELL, MOVED OVER & RIGGED UP, ND WH NU BOPS, RU FLOOR & TBG EQUIP.
	9:00 - 14:00	5.00	SUBSPR	31	I	P		PU 37/8 BIT & 165 JTS 23/8 P-110, TAG CMT @ 5216' RU DRL EQUIP BROKE CIRC REV D/O 141' CMT & DV @ 5357' CIRC CLN, TEST CSG TO 3,000# OK, RD SWIVEL.
	14:00 - 17:00	3.00	SUBSPR	31	I	P		PU REM 191 JTS 23/8 P-110 TOTAL 360 IN TAG UP @ 10,410' L/D JT 360 SWI SDFWE.
3/24/2014	7:00 - 7:30	0.50	SUBSPR	48		P		HSM, LAYING DOWN TBG ON FLOAT.
	7:30 - 8:30	1.00	SUBSPR	31	H	P		3 OF 7, DISPLACED CMT WTR TO PIT W/ 160 BBLS T-MAC.
	8:30 - 13:30	5.00	SUBSPR	31	I	P		L/D 360 JTS 23/8 P-110.RD FLOOR ND BOPS NU WH RIGGED DWN.
3/26/2014	-							
4/15/2014	10:00 - 11:00	1.00	SUBSPR	52	B	P		FILLED SURFACE CSG, PRESSURED 4 1/2" CSG TO 8,953 BROKE BACK TO 8645 ATTEMPT TO PRESSURE UP TO 9000 PSI, BROKE BACK TOM 8550, QUIT PUMPING PRESSURE FELL TO 8300 PSI BLED WELL DOWN, SWIFN WILL SET CIBP IN AM & RETEST
4/16/2014	10:00 - 13:00	3.00	SUBSPR	52	B	P		RU EL RIH SET CIBP @ 11,410' POOH FILL SURFACE CSG. MIRU CAMERON QUICK TEST. PRESSURE TEST CSG & FRAC VALVES 1ST PSI TEST T/ 9000 PSI. HELD FOR 15 MIN LOST -54 PSI. NO COMMUNICATION OR MIGRATION WITH SURFACE CSG BLEED OFF PSI. FILL SURFACE CSG. MIRU CAMERON QUICK TEST. PRESSURE TEST 8 5/8 X 4 1/2 TO 519 PSI HELD FOR 5 MIN LOST -58 PSI, BLED PSI OFF, REINSTALLED POP OFF SWIFN NO PRESSURE ON SURFACE CASING FILLED SURFACE WITH 1 BBL H2O
4/25/2014	7:00 - 8:00	1.00	SUBSPR	37		P		PERF STG 1)PU 3 1/8 EXP GUN, 19 GM, .40 HOLE SIZE. RIH PERFWELL, AS PER PERF DESIGN. POOH. SWIFW
4/28/2014	6:30 - 6:45	0.25	FRAC	48		P		HSM-JSA

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-20B1BS YELLOW		Spud Date: 11/19/2013	
Project: UTAH-UINTAH		Site: NBU 921-20B PAD	Rig Name No: MILES 4/4
Event: COMPLETION		Start Date: 3/21/2014	End Date: 5/15/2014
Active Datum: RKB @4,897.00usft (above Mean Sea Level)		UWI: NW/NE/0/9/S/21/E/20/0/0/26/PM/N/751/E/0/2238/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	6:45 - 12:15	5.50	FRAC	36	H	P		FRAC STG #1) WHP 2170 PSI, BRK 4760 PSI @ 4.4 BPM. ISIP 4140 PSI, FG. 0.81 ISIP 4016 PSI, FG. 0.8, NPI -124 PSI, X/O TO WL. SET CBP & PERF STG #2 AS DESIGNED, X/O TO FRAC. FRAC STG #2) WHP 687 PSI, BRK 7950 PSI @ 5.7 BPM. ISIP 3927 PSI, FG. 0.79 ISIP 3937 PSI, FG. 0.79, NPI 10 PSI, X/O TO WL.
	12:15 - 12:45	0.50	FRAC	46	E	Z		PUMP REPAIRS
	12:45 - 18:00	5.25	FRAC	36	H	P		SET CBP & PERFSTG #3 AS DESIGNED, X/O TO FRAC. FRAC STG #3) WHP 2414 PSI, BRK 3907 PSI @ 3.7 BPM. ISIP 2823 PSI, FG. 0.72 ISIP 3021 PSI, FG. 0.74, NPI 198 PSI, X/O TO WL. SET CBP & PERF STG #4 AS DESIGNED, SWI, SDFN.
4/29/2014	6:15 - 6:30	0.25	FRAC	48		P		HSM-JSA
	6:30 - 17:30	11.00	FRAC	36	H	P		FRAC STG #4) WHP 2532 PSI, BRK 5300 PSI @ 4.1 BPM. ISIP 2823 PSI, FG. 0.76 ISIP 3525 PSI, FG. 0.79, NPI 702 PSI, X/O TO WL. SET CBP & PERF STG #5 AS DESIGNED, X/O TO FRAC. FRAC STG #5) WHP 675 PSI, BRK 5079 PSI @ 4.1 BPM. ISIP 3282 PSI, FG. 0.78 ISIP 3322 PSI, FG. 0.78, NPI 40 PSI, X/O TO WL. SET CBP & PERF STG #6 AS DESIGNED, SWI, SDFN.
4/30/2014	6:30 - 6:45	0.25	FRAC	48		P		HSM-JSA
	6:45 - 17:00	10.25	FRAC	36	H	P		FRAC STG #6) WHP 120 PSI, BRK 5187 PSI @ 4 BPM. ISIP 2806 PSI, FG. 0.74 ISIP 2633 PSI, FG. 0.72, NPI -173 PSI, X/O TO WL. SET CBP & PERF STG #7 AS DESIGNED, X/O TO FRAC. FRAC STG #7) WHP 1454 PSI, BRK 5545 PSI @ 4.1 BPM. ISIP 3114 PSI, FG. 0.78 ISIP 3176 PSI, FG. 0.79, NPI 62 PSI, X/O TO WL. SET CBP & PERF STG #8 AS DESIGNED, SWI, SDFN.
5/5/2014	6:30 - 6:45	0.25	FRAC	48		P		HSM-JSA
	6:45 - 9:45	3.00	FRAC	36	H	P		FRAC STG #8) WHP 1865 PSI, BRK 3627 PSI @ 4.6 BPM. ISIP 2901 PSI, FG. 0.76 ISIP 2970 PSI, FG. 0.77, NPI 69 PSI, X/O TO WL.
	9:45 - 10:30	0.75	FRAC	46	E	Z		PUMP REPAIRS

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-20B1BS YELLOW			Spud Date: 11/19/2013		
Project: UTAH-UINTAH		Site: NBU 921-20B PAD		Rig Name No: MILES 4/4	
Event: COMPLETION		Start Date: 3/21/2014		End Date: 5/15/2014	
Active Datum: RKB @4,897.00usft (above Mean Sea Level)			UWI: NW/NE/0/9/S/21/E/20/0/0/26/PM/N/751/E/0/2238/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	10:30 - 18:00	7.50	FRAC	36	H	P		SET CBP & PERF STG #9 AS DESIGNED, X/O TO FRAC. FRAC STG #9) WHP 2035 PSI, BRK 2832 PSI @ 6.8 BPM. ISIP 2089 PSI, FG. 0.68 ISIP 2746 PSI, FG. 0.76, NPI 657 PSI, X/O TO WL. SET CBP & PERF STG #10 AS DESIGNED, SWI, SDFN.
5/6/2014	6:15 - 6:30	0.25	FRAC	48		P		HSM-JSA
	6:30 - 17:30	11.00	FRAC	36	H	P		FRAC STG #10) WHP 1971 PSI, BRK 2705 PSI @ 4.9 BPM. ISIP 2250 PSI, FG. 0.71 ISIP 2819 PSI, FG. 0.77, NPI 569 PSI, X/O TO WL. SET CBP & PERF STG #11 AS DESIGNED, X/O TO FRAC. FRAC STG #11) WHP 2283 PSI, BRK 4172 PSI @ 4.9 BPM. ISIP 2616 PSI, FG. 0.76 ISIP 2962 PSI, FG. 0.8, NPI 346 PSI, X/O TO WL. SET KILL PLUG, RDMO WL & FRAC EQUIP. TOTAL FLUID= 16976 BBLS TOTAL SAND= 357177 LBS
5/14/2014	6:30 - 6:45	0.25	DRLOUT	48		P		HSM,JSA PICKING UP PIPE
	7:00 - 8:30	1.50	DRLOUT	30	A	P		MIRU, ND WH, NU BOP'S, RU FLOOR & TBG EQUIP
	8:30 - 15:00	6.50	DRLOUT	31	I	P		PU TALLY & BROACH TBG TO TOP PLUG W/257 JTS P-110, @ 8157' FILL & CIRC. PT TO 3000 PSI GOOD, SWI LOCK BOP'S, SDFN.
5/15/2014	6:30 - 6:45	0.25	DRLOUT	48		P		HSM,JSA, PRESSURE DURING DRILL OUT

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-20B1BS YELLOW		Spud Date: 11/19/2013	
Project: UTAH-UINTAH		Site: NBU 921-20B PAD	Rig Name No: MILES 4/4
Event: COMPLETION		Start Date: 3/21/2014	End Date: 5/15/2014
Active Datum: RKB @4,897.00usft (above Mean Sea Level)		UWI: NW/NE/0/9/S/21/E/20/0/0/26/PM/N/751/E/0/2238/0/0	

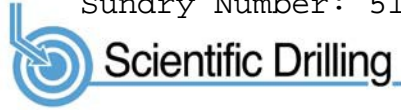
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	7:00 - 16:00	9.00	DRLOUT	44	C	P		TP=0#, CP=0#, BREAK CIRC. C/O 20' SAND TAG 1ST PLUG @ 8183', KICK 400 PSI, CSG PRESS. 0 PSI RIH C/O 20' SAND TAG 2ND PLUG @ 8324', KICK 500 PSI, CSG PRESS. 100 PSI RIH C/O 40' SAND TAG 3RD PLUG @ 8482', KICK 700 PSI, CSG PRESS. 200 PSI RIH C/O 30' SAND TAG 4TH PLUG @ 8781', KICK 500 PSI, CSG PRESS. 200 PSI RIH C/O 25' SAND TAG 5TH PLUG @ 9026', KICK 500 PSI, CSG PRESS. 250 PSI RIH C/O 50' SAND TAG 6TH PLUG @ 9292', KICK 600 PSI, CSG PRESS. 375 PSI RIH C/O 30' SAND TAG 7TH PLUG @ 9521', KICK 500 PSI, CSG PRESS. 140 PSI RIH C/O 20' SAND TAG 8TH PLUG @ 9831', KICK 400 PSI, CSG PRESS. 275 PSI RIH C/O 50' SAND TAG 9TH PLUG @ 10,028', KICK 800 PSI, CSG PRESS. 300 PSI RIH C/O 30' SAND TAG 10TH PLUG @ 10,338', KICK 700 PSI, CSG PRESS. 300 PSI RIH C/O 110' SAND TAG 11TH PLUG @ 11,136', KICK 700 PSI, CSG PRESS. 550 PSI RIH PBSD @ 11,414', BTM PERF @ 11,312', RIH TAGGED @ 11,306', C/O TO 11,386.58' PBSD, 74' PAST BTM PERF W/ 359 JTS 2 3/8" P-110 TBG, LD 14 JTS ((WET)), PU & STRIP IN TBG HANGER & LAND TBG W/ 345 JTS 2 3/8" TBG, EOT 10,942.89'. NOTE: D/O THRU BJD & (2) HAL 9000, SOLD THRU 2 SEPERATORS NBU 921-20B1BS SOLD 305 MCF NBU 921-20C1BS SOLD 220 MCF, TOTAL GAS SOLD 525 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 TO MOVE TO NEXT WELL ON PAD KB= 24' 4 1/16" CAMERON HANGER= .83' TBG

US ROCKIES REGION
Operation Summary Report

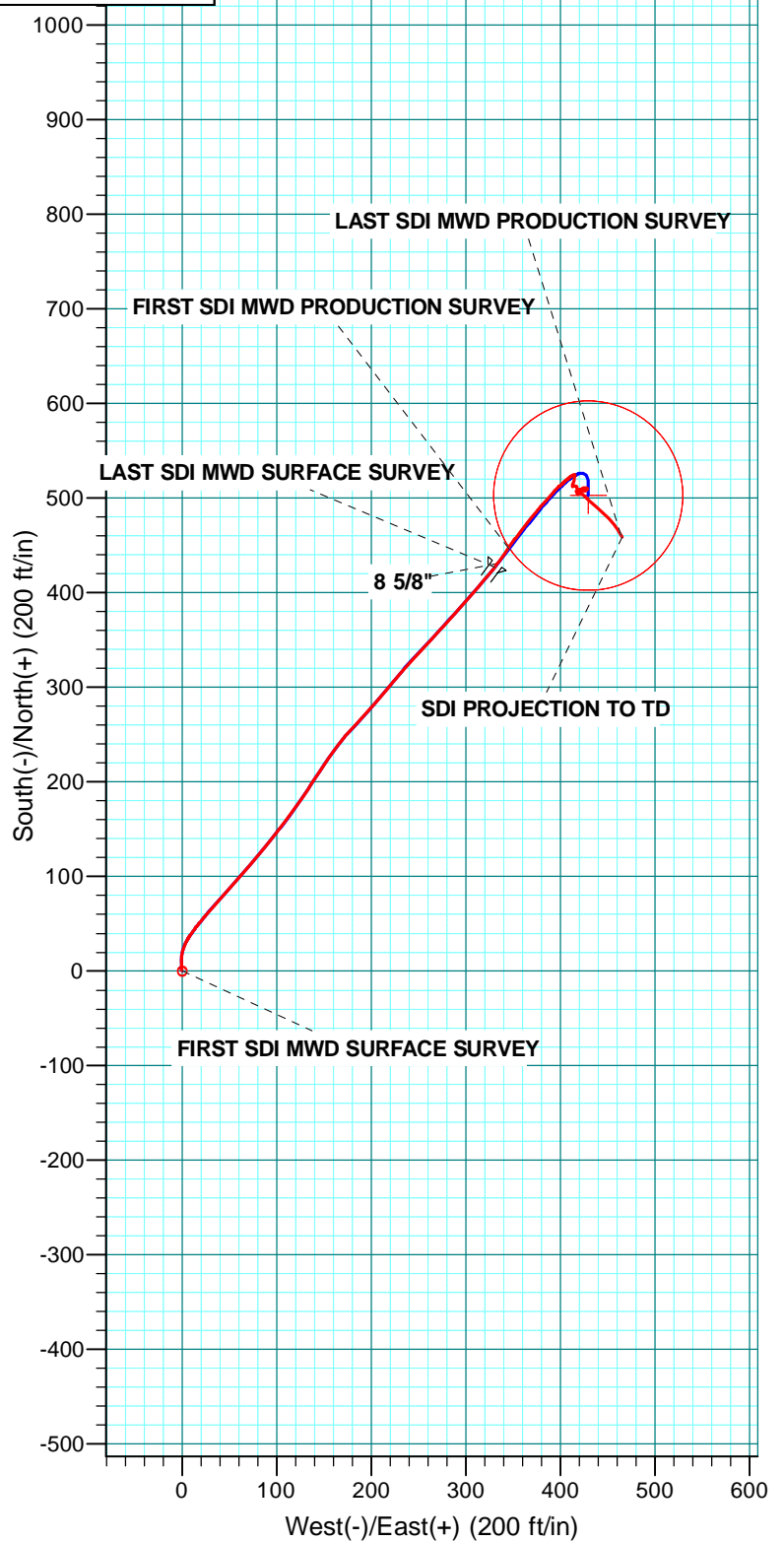
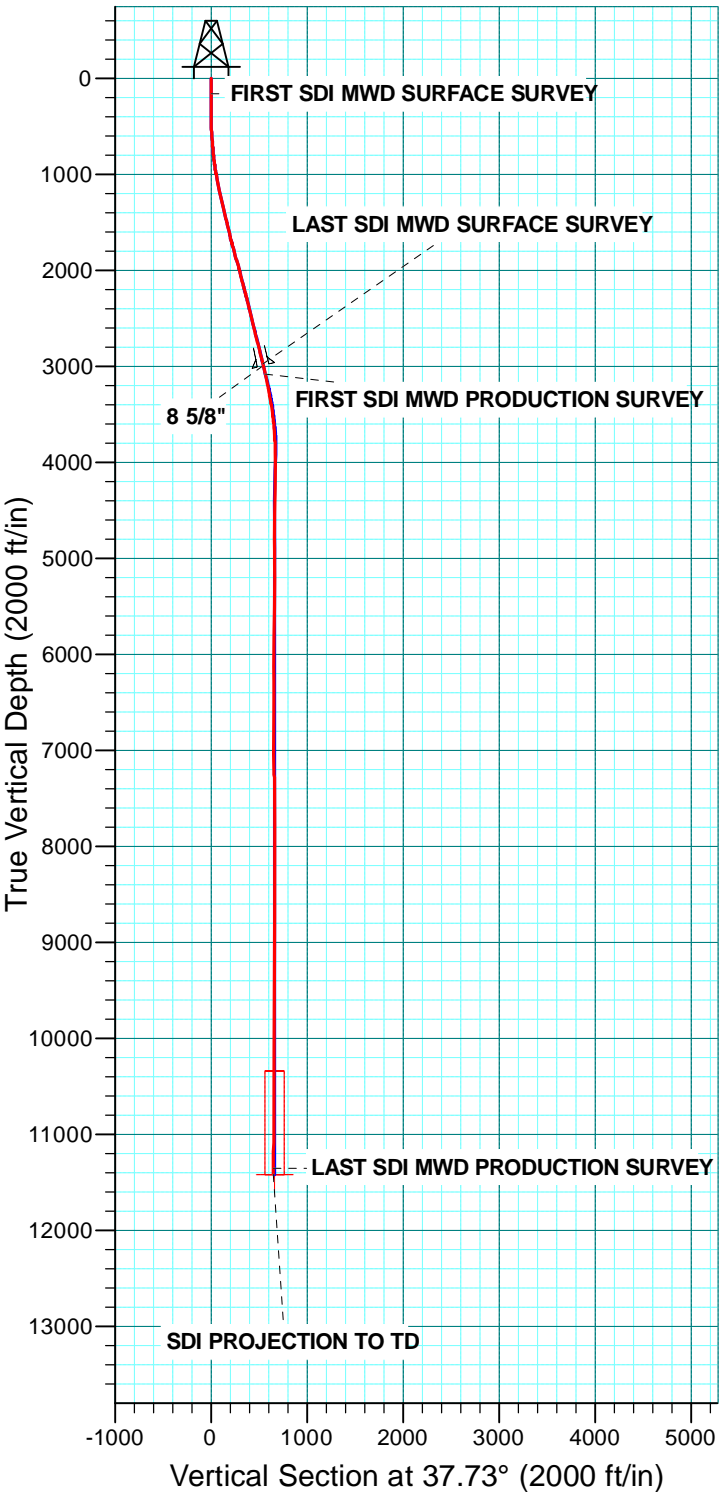
Well: NBU 921-20B1BS YELLOW		Spud Date: 11/19/2013	
Project: UTAH-UINTAH	Site: NBU 921-20B PAD	Rig Name No: MILES 4/4	
Event: COMPLETION	Start Date: 3/21/2014	End Date: 5/15/2014	
Active Datum: RKB @4,897.00usft (above Mean Sea Level)		UWI: NW/NE/0/9/S/21/E/20/0/0/26/PM/N/751/E/0/2238/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
								DELIVERED 362 JTS P-110 2 3/8" = 11,534.30 TOTAL TBG= 362 JTS 2-3/8" P-110 TBG USED 359 JTS POBS= 2.20' EOT @ 10,942.89' TWTR= 16,976 BBLS TWR= 2400 BBLS TWLTR= 14576 BBLS
	16:00 - 16:00	0.00	DRLOUT	50				WELL TURNED TO SALES @ 900 HR ON 5/15/2014. 1100 MCFD, 1680 BWPD, FCP 3123#, FTP 1460#, 15/64" CK.

Sundry Number: 51849 API Well Number: 43047533410000
Project: UTAH - UTM (feet), NAD27, Zone 12N
Site: NBU 921-20B PAD
Well: NBU 921-20B1BS
Wellbore: OH



WELL DETAILS: NBU 921-20B1BS					
GL 4873 & KB 24 @ 4897.00ft (HP 318)					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	14539004.29	2039779.18	40.0268090	-109.5734700





US ROCKIES REGION PLANNING

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

NBU 921-20B PAD

NBU 921-20B1BS

OH

Design: OH

Standard Survey Report

26 February, 2014




Scientific Drilling
 Survey Report


Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well NBU 921-20B1BS
Project:	UTAH - UTM (feet), NAD27, Zone 12N	TVD Reference:	GL 4873 & KB 24 @ 4897.00ft (HP 318)
Site:	NBU 921-20B PAD	MD Reference:	GL 4873 & KB 24 @ 4897.00ft (HP 318)
Well:	NBU 921-20B1BS	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Denver Sales Office

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

Site	NBU 921-20B PAD, SECTION 20 T9S R21E				
Site Position:		Northing:	14,539,017.64 usft	Latitude:	40.0268450
From:	Lat/Long	Easting:	2,039,794.09 usft	Longitude:	-109.5734160
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence:	0.92 °

Well	NBU 921-20B1BS, 751 FNL 2238 FEL					
Well Position	+N/-S	0.00 ft	Northing:	14,539,004.29 usft	Latitude:	40.0268090
	+E/-W	0.00 ft	Easting:	2,039,779.18 usft	Longitude:	-109.5734700
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	4,873.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
	BGGM2013	11/7/2013	(°)	(°)	(nT)
			10.89	65.80	52,014

Design	OH				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction	
	(ft)	(ft)	(ft)	(°)	
	0.00	0.00	0.00	37.73	

Survey Program	Date	2/26/2014			
From	To	Survey (Wellbore)	Tool Name	Description	
(ft)	(ft)				
20.00	3,035.00	Survey #1 SDI MWD SURFACE (OH)	SDI MWD	SDI MWD - Standard ver 1.0.1	
3,144.00	11,486.00	Survey #2 SDI MWD PRODUCTION (OH)	SDI MWD	SDI MWD - Standard ver 1.0.1	

Survey										
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Vertical	Dogleg	Build	Turn	
Depth	(°)	(°)	Depth	(ft)	(ft)	Section	Rate	Rate	Rate	
(ft)			(ft)			(ft)	(°/100usft)	(°/100usft)	(°/100usft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20.00	0.00	0.00	20.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
159.00	0.18	9.92	159.00	0.22	0.04	0.19	0.13	0.13	0.13	0.00
FIRST SDI MWD SURFACE SURVEY										
215.00	0.26	163.81	215.00	0.18	0.09	0.20	0.77	0.14	274.80	
296.00	0.53	319.47	296.00	0.29	-0.10	0.16	0.96	0.33	192.17	
382.00	1.41	349.35	381.99	1.63	-0.56	0.95	1.15	1.02	34.74	
472.00	2.46	359.19	471.93	4.65	-0.79	3.19	1.22	1.17	10.93	
562.00	3.72	358.51	561.80	9.50	-0.89	6.97	1.40	1.40	-0.76	
652.00	5.19	5.79	651.53	16.47	-0.56	12.68	1.75	1.63	8.09	



Scientific Drilling
Survey Report



Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well NBU 921-20B1BS
Project:	UTAH - UTM (feet), NAD27, Zone 12N	TVD Reference:	GL 4873 & KB 24 @ 4897.00ft (HP 318)
Site:	NBU 921-20B PAD	MD Reference:	GL 4873 & KB 24 @ 4897.00ft (HP 318)
Well:	NBU 921-20B1BS	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Denver Sales Office

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
742.00	5.72	20.64	741.12	24.72	1.43	20.42	1.67	0.59	16.50	
832.00	6.42	29.78	830.62	33.28	5.51	29.70	1.32	0.78	10.16	
922.00	8.00	36.90	919.91	42.66	11.77	40.94	2.01	1.76	7.91	
1,012.00	9.76	40.06	1,008.83	53.51	20.44	54.83	2.03	1.96	3.51	
1,102.00	11.26	41.64	1,097.31	65.91	31.19	71.22	1.70	1.67	1.76	
1,192.00	12.40	40.85	1,185.40	79.79	43.35	89.63	1.28	1.27	-0.88	
1,282.00	13.54	41.47	1,273.10	94.99	56.65	109.79	1.28	1.27	0.69	
1,372.00	13.89	40.59	1,360.54	111.09	70.66	131.10	0.45	0.39	-0.98	
1,462.00	13.45	40.15	1,447.99	127.29	84.43	152.34	0.50	-0.49	-0.49	
1,552.00	13.04	38.36	1,535.59	143.26	97.48	172.95	0.64	-0.46	-1.99	
1,642.00	13.72	36.02	1,623.15	159.85	110.06	193.78	0.97	0.76	-2.60	
1,732.00	14.60	35.93	1,710.42	177.67	122.99	215.78	0.98	0.98	-0.10	
1,822.00	15.92	32.94	1,797.24	197.21	136.36	239.42	1.71	1.47	-3.32	
1,912.00	16.09	33.56	1,883.75	217.96	149.97	264.16	0.27	0.19	0.69	
2,002.00	15.48	37.25	1,970.36	237.92	164.13	288.61	1.30	-0.68	4.10	
2,092.00	13.81	42.44	2,057.44	255.41	178.65	311.33	2.36	-1.86	5.77	
2,182.00	14.25	42.90	2,144.75	271.45	193.44	333.07	0.50	0.49	0.51	
2,272.00	15.56	40.15	2,231.72	288.79	208.77	356.16	1.65	1.46	-3.06	
2,362.00	13.93	39.89	2,318.76	306.33	223.50	379.05	1.81	-1.81	-0.29	
2,452.00	13.19	41.29	2,406.25	322.36	237.22	400.12	0.90	-0.82	1.56	
2,542.00	13.89	43.14	2,493.75	337.96	251.39	421.12	0.91	0.78	2.06	
2,632.00	13.94	43.43	2,581.11	353.71	266.22	442.67	0.10	0.06	0.32	
2,722.00	14.68	41.29	2,668.31	370.15	281.20	464.84	1.01	0.82	-2.38	
2,812.00	13.89	42.00	2,755.53	386.75	295.96	486.99	0.90	-0.88	0.79	
2,902.00	13.63	41.82	2,842.95	402.68	310.26	508.34	0.29	-0.29	-0.20	
2,992.00	13.81	38.74	2,930.38	418.96	324.05	529.66	0.84	0.20	-3.42	
3,035.00	13.89	38.04	2,972.13	427.03	330.44	539.95	0.43	0.19	-1.63	
LAST SDI MWD SURFACE SURVEY										
3,054.00	13.66	37.31	2,990.58	430.61	333.21	544.47	1.52	-1.21	-3.84	
8 5/8"										
3,144.00	12.60	33.50	3,078.23	447.25	345.07	564.89	1.52	-1.18	-4.23	
FIRST SDI MWD PRODUCTION SURVEY										
3,238.00	11.70	38.35	3,170.13	463.28	356.64	584.65	1.45	-0.96	5.16	
3,333.00	10.61	39.31	3,263.33	477.60	368.16	603.02	1.16	-1.15	1.01	
3,427.00	9.90	40.16	3,355.83	490.47	378.85	619.75	0.77	-0.76	0.90	
3,522.00	8.48	40.81	3,449.61	502.01	388.70	634.90	1.50	-1.49	0.68	
3,616.00	7.16	47.18	3,542.73	511.24	397.52	647.60	1.68	-1.40	6.78	
3,710.00	4.80	49.36	3,636.21	517.78	404.80	657.23	2.52	-2.51	2.32	
3,805.00	3.37	51.50	3,730.97	522.11	410.01	663.84	1.51	-1.51	2.25	
3,899.00	1.74	68.61	3,824.87	524.35	413.50	667.75	1.90	-1.73	18.20	
3,993.00	0.35	133.65	3,918.86	524.67	415.03	668.94	1.73	-1.48	69.19	
4,088.00	0.47	186.11	4,013.86	524.09	415.20	668.58	0.40	0.13	55.22	
4,182.00	0.84	195.97	4,107.85	523.04	414.97	667.61	0.41	0.39	10.49	
4,276.00	0.97	186.13	4,201.84	521.59	414.70	666.30	0.22	0.14	-10.47	



Scientific Drilling

Survey Report



Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well NBU 921-20B1BS
Project:	UTAH - UTM (feet), NAD27, Zone 12N	TVD Reference:	GL 4873 & KB 24 @ 4897.00ft (HP 318)
Site:	NBU 921-20B PAD	MD Reference:	GL 4873 & KB 24 @ 4897.00ft (HP 318)
Well:	NBU 921-20B1BS	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Denver Sales Office

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
4,370.00	1.43	186.49	4,295.82	519.63	414.48	664.62	0.49	0.49	0.38	
4,465.00	1.07	203.00	4,390.80	517.64	414.00	662.74	0.53	-0.38	17.38	
4,559.00	1.23	202.38	4,484.78	515.90	413.27	660.92	0.17	0.17	-0.66	
4,654.00	1.26	187.79	4,579.75	513.92	412.74	659.03	0.33	0.03	-15.36	
4,748.00	0.62	183.49	4,673.74	512.39	412.57	657.72	0.68	-0.68	-4.57	
4,843.00	0.70	61.32	4,768.74	512.15	413.05	657.82	1.22	0.08	-128.60	
4,937.00	0.76	68.85	4,862.73	512.65	414.13	658.88	0.12	0.06	8.01	
5,031.00	0.38	83.62	4,956.73	512.91	415.03	659.64	0.43	-0.40	15.71	
5,126.00	0.64	108.29	5,051.72	512.78	415.84	660.03	0.35	0.27	25.97	
5,220.00	0.44	117.74	5,145.72	512.45	416.66	660.27	0.23	-0.21	10.05	
5,315.00	0.47	141.66	5,240.71	511.97	417.22	660.24	0.20	0.03	25.18	
5,409.00	0.30	156.56	5,334.71	511.44	417.56	660.03	0.21	-0.18	15.85	
5,504.00	0.53	183.31	5,429.71	510.78	417.64	659.54	0.31	0.24	28.16	
5,598.00	0.88	165.56	5,523.70	509.64	417.79	658.74	0.43	0.37	-18.88	
5,693.00	0.83	186.07	5,618.69	508.25	417.90	657.71	0.32	-0.05	21.59	
5,787.00	0.33	250.25	5,712.69	507.48	417.57	656.90	0.80	-0.53	68.28	
5,882.00	0.53	234.46	5,807.69	507.14	416.96	656.25	0.24	0.21	-16.62	
5,976.00	0.57	224.39	5,901.68	506.55	416.28	655.37	0.11	0.04	-10.71	
6,070.00	0.45	40.21	5,995.68	506.50	416.19	655.27	1.08	-0.13	187.04	
6,164.00	0.15	18.10	6,089.68	506.90	416.46	655.76	0.34	-0.32	-23.52	
6,258.00	0.26	34.34	6,183.68	507.19	416.62	656.09	0.13	0.12	17.28	
6,352.00	0.18	93.48	6,277.68	507.36	416.89	656.38	0.24	-0.09	62.92	
6,446.00	0.18	57.54	6,371.68	507.43	417.16	656.61	0.12	0.00	-38.23	
6,541.00	0.31	151.39	6,466.68	507.28	417.41	656.64	0.39	0.14	98.79	
6,635.00	0.38	155.81	6,560.67	506.77	417.66	656.39	0.08	0.07	4.70	
6,730.00	0.48	169.41	6,655.67	506.10	417.86	655.98	0.15	0.11	14.32	
6,824.00	0.53	166.70	6,749.67	505.29	418.04	655.45	0.06	0.05	-2.88	
6,918.00	0.70	161.25	6,843.66	504.32	418.32	654.86	0.19	0.18	-5.80	
7,012.00	0.14	354.35	6,937.66	503.89	418.49	654.62	0.89	-0.60	-177.55	
7,107.00	0.12	277.71	7,032.66	504.02	418.38	654.66	0.17	-0.02	-80.67	
7,201.00	1.11	22.23	7,126.65	504.87	418.63	655.48	1.22	1.05	111.19	
7,295.00	1.14	28.88	7,220.64	506.54	419.43	657.29	0.14	0.03	7.07	
7,389.00	0.97	41.81	7,314.62	507.95	420.41	659.00	0.31	-0.18	13.76	
7,484.00	0.84	49.65	7,409.61	509.00	421.48	660.49	0.19	-0.14	8.25	
7,578.00	0.78	61.40	7,503.60	509.75	422.56	661.75	0.19	-0.06	12.50	
7,673.00	0.70	63.87	7,598.59	510.31	423.65	662.86	0.09	-0.08	2.60	
7,767.00	0.62	82.68	7,692.59	510.63	424.67	663.74	0.24	-0.09	20.01	
7,861.00	0.71	90.66	7,786.58	510.69	425.76	664.45	0.14	0.10	8.49	
7,956.00	0.85	100.90	7,881.57	510.55	427.04	665.12	0.21	0.15	10.78	
8,050.00	0.88	115.20	7,975.56	510.11	428.38	665.59	0.23	0.03	15.21	
8,145.00	0.24	249.44	8,070.56	509.73	428.85	665.58	1.12	-0.67	141.31	
8,239.00	0.64	228.33	8,164.55	509.31	428.27	664.90	0.45	0.43	-22.46	
8,333.00	0.92	217.95	8,258.55	508.37	427.42	663.63	0.33	0.30	-11.04	



Scientific Drilling

Survey Report



Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well NBU 921-20B1BS
Project:	UTAH - UTM (feet), NAD27, Zone 12N	TVD Reference:	GL 4873 & KB 24 @ 4897.00ft (HP 318)
Site:	NBU 921-20B PAD	MD Reference:	GL 4873 & KB 24 @ 4897.00ft (HP 318)
Well:	NBU 921-20B1BS	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Denver Sales Office

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
8,427.00	1.06	249.67	8,352.53	507.47	426.14	662.13	0.59	0.15	33.74	
8,522.00	0.44	302.49	8,447.52	507.36	425.01	661.35	0.91	-0.65	55.60	
8,616.00	0.44	310.05	8,541.52	507.79	424.43	661.34	0.06	0.00	8.04	
8,711.00	0.29	250.33	8,636.52	507.94	423.92	661.15	0.41	-0.16	-62.86	
8,805.00	0.53	333.25	8,730.52	508.25	423.50	661.14	0.61	0.26	88.21	
8,899.00	0.38	318.41	8,824.51	508.87	423.10	661.38	0.20	-0.16	-15.79	
8,993.00	0.35	288.87	8,918.51	509.20	422.62	661.35	0.20	-0.03	-31.43	
9,087.00	0.44	266.09	9,012.51	509.27	421.99	661.01	0.19	0.10	-24.23	
9,182.00	0.35	257.99	9,107.51	509.18	421.34	660.55	0.11	-0.09	-8.53	
9,276.00	0.38	253.98	9,201.51	509.03	420.76	660.08	0.04	0.03	-4.27	
9,371.00	0.41	228.99	9,296.50	508.72	420.20	659.49	0.18	0.03	-26.31	
9,465.00	0.31	204.48	9,390.50	508.27	419.84	658.91	0.19	-0.11	-26.07	
9,559.00	0.44	157.91	9,484.50	507.71	419.87	658.48	0.34	0.14	-49.54	
9,654.00	0.88	135.32	9,579.49	506.85	420.52	658.20	0.53	0.46	-23.78	
9,748.00	1.21	133.04	9,673.48	505.66	421.75	658.02	0.35	0.35	-2.43	
9,842.00	1.49	129.26	9,767.45	504.21	423.43	657.89	0.31	0.30	-4.02	
9,936.00	1.71	142.92	9,861.42	502.32	425.22	657.49	0.47	0.23	14.53	
10,031.00	1.85	138.09	9,956.37	500.04	427.10	656.85	0.22	0.15	-5.08	
10,125.00	1.68	133.32	10,050.33	497.97	429.11	656.44	0.24	-0.18	-5.07	
10,219.00	1.36	131.72	10,144.29	496.28	430.95	656.23	0.34	-0.34	-1.70	
10,314.00	1.41	129.08	10,239.26	494.80	432.70	656.12	0.09	0.05	-2.78	
10,408.00	2.02	127.32	10,333.22	493.06	434.91	656.11	0.65	0.65	-1.87	
10,503.00	2.33	132.21	10,428.15	490.75	437.67	655.97	0.38	0.33	5.15	
10,597.00	2.40	127.00	10,522.07	488.28	440.66	655.84	0.24	0.07	-5.54	
10,691.00	2.31	130.67	10,615.99	485.86	443.67	655.77	0.19	-0.10	3.90	
10,786.00	2.18	133.62	10,710.92	483.37	446.43	655.49	0.18	-0.14	3.11	
10,880.00	2.29	136.59	10,804.85	480.77	449.01	655.02	0.17	0.12	3.16	
10,974.00	2.43	138.99	10,898.77	477.90	451.61	654.34	0.18	0.15	2.55	
11,068.00	2.64	143.32	10,992.68	474.66	454.21	653.37	0.30	0.22	4.61	
11,162.00	2.61	143.36	11,086.58	471.21	456.78	652.21	0.03	-0.03	0.04	
11,256.00	2.64	143.41	11,180.48	467.75	459.35	651.05	0.03	0.03	0.05	
11,351.00	2.64	146.33	11,275.38	464.18	461.87	649.76	0.14	0.00	3.07	
11,431.00	2.71	146.26	11,355.29	461.07	463.94	648.57	0.09	0.09	-0.09	
LAST SDI MWD PRODUCTION SURVEY										
11,486.00	2.71	146.26	11,410.23	458.91	465.38	647.74	0.00	0.00	0.00	
SDI PROJECTION TO TD										



Scientific Drilling
Survey Report



Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well NBU 921-20B1BS
Project:	UTAH - UTM (feet), NAD27, Zone 12N	TVD Reference:	GL 4873 & KB 24 @ 4897.00ft (HP 318)
Site:	NBU 921-20B PAD	MD Reference:	GL 4873 & KB 24 @ 4897.00ft (HP 318)
Well:	NBU 921-20B1BS	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Denver Sales Office

Design Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(ft)	(ft)	(ft)	(usft)	(usft)		
- Shape									
PBHL_NBU 921-20B1BS	0.00	0.00	11,422.00	502.60	429.23	14,539,513.70	2,040,200.31	40.0281890	-109.5719370
- actual wellpath misses target center by 57.92ft at 11486.00ft MD (11410.23 TVD, 458.91 N, 465.38 E)									
- Circle (radius 100.00)									

Casing Points					
Measured Depth	Vertical Depth	Name		Casing Diameter	Hole Diameter
(ft)	(ft)			(in)	(in)
3,054.00	2,990.58	8 5/8"		8.625	11.000

Design Annotations					
Measured Depth	Vertical Depth	Local Coordinates		Comment	
(ft)	(ft)	+N/-S	+E/-W		
(ft)	(ft)	(ft)	(ft)		
159.00	159.00	0.22	0.04	FIRST SDI MWD SURFACE SURVEY	
3,035.00	2,972.13	427.03	330.44	LAST SDI MWD SURFACE SURVEY	
3,144.00	3,078.23	447.25	345.07	FIRST SDI MWD PRODUCTION SURVEY	
11,431.00	11,355.29	461.07	463.94	LAST SDI MWD PRODUCTION SURVEY	
11,486.00	11,410.23	458.91	465.38	SDI PROJECTION TO TD	

Checked By: _____ Approved By: _____ Date: _____

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: UTU0575																														
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE 7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES																														
1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: NBU 921-20B1BS																															
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047533410000																															
3. ADDRESS OF OPERATOR: PO Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217-3779	PHONE NUMBER: 720-929-6485	9. FIELD and POOL or WILDCAT: NATURAL BUTTES																														
4. LOCATION OF WELL FOOTAGES AT SURFACE: 751 FNL 2238 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNE Section: 20 Township: 9S Range: 21E Meridian: S	COUNTY: UINTAH STATE: UTAH																															
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA																																
TYPE OF SUBMISSION	TYPE OF ACTION																															
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start: <input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 11/19/2018 <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%; border: none;"><input type="checkbox"/> ACIDIZE</td> <td style="width: 33%; border: none;"><input type="checkbox"/> ALTER CASING</td> <td style="width: 33%; border: none;"><input type="checkbox"/> CASING REPAIR</td> </tr> <tr> <td style="border: none;"><input type="checkbox"/> CHANGE TO PREVIOUS PLANS</td> <td style="border: none;"><input type="checkbox"/> CHANGE TUBING</td> <td style="border: none;"><input type="checkbox"/> CHANGE WELL NAME</td> </tr> <tr> <td style="border: none;"><input type="checkbox"/> CHANGE WELL STATUS</td> <td style="border: none;"><input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS</td> <td style="border: none;"><input type="checkbox"/> CONVERT WELL TYPE</td> </tr> <tr> <td style="border: none;"><input type="checkbox"/> DEEPEN</td> <td style="border: none;"><input type="checkbox"/> FRACTURE TREAT</td> <td style="border: none;"><input type="checkbox"/> NEW CONSTRUCTION</td> </tr> <tr> <td style="border: none;"><input type="checkbox"/> OPERATOR CHANGE</td> <td style="border: none;"><input type="checkbox"/> PLUG AND ABANDON</td> <td style="border: none;"><input type="checkbox"/> PLUG BACK</td> </tr> <tr> <td style="border: none;"><input type="checkbox"/> PRODUCTION START OR RESUME</td> <td style="border: none;"><input type="checkbox"/> RECLAMATION OF WELL SITE</td> <td style="border: none;"><input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION</td> </tr> <tr> <td style="border: none;"><input type="checkbox"/> REPERFORATE CURRENT FORMATION</td> <td style="border: none;"><input type="checkbox"/> SIDETRACK TO REPAIR WELL</td> <td style="border: none;"><input type="checkbox"/> TEMPORARY ABANDON</td> </tr> <tr> <td style="border: none;"><input type="checkbox"/> TUBING REPAIR</td> <td style="border: none;"><input type="checkbox"/> VENT OR FLARE</td> <td style="border: none;"><input type="checkbox"/> WATER DISPOSAL</td> </tr> <tr> <td style="border: none;"><input type="checkbox"/> WATER SHUTOFF</td> <td style="border: none;"><input type="checkbox"/> SI TA STATUS EXTENSION</td> <td style="border: none;"><input type="checkbox"/> APD EXTENSION</td> </tr> <tr> <td style="border: none;"><input type="checkbox"/> WILDCAT WELL DETERMINATION</td> <td style="border: none;"><input checked="" type="checkbox"/> OTHER</td> <td style="border: none;">OTHER: WELLBORE CLEANOU</td> </tr> </table>		<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input checked="" type="checkbox"/> OTHER	OTHER: WELLBORE CLEANOU
<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR																														
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<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input checked="" type="checkbox"/> OTHER	OTHER: WELLBORE CLEANOU																														
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. A WELLBORE CLEANOUT HAS BEEN COMPLETED ON THE SUBJECT WELL. PLEASE SEE THE ATTACHED OPERATIONS SUMMARY REPORT FOR DETAILS. THANK YOU.																																
		Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY December 11, 2018																														
NAME (PLEASE PRINT) Teisha Black	PHONE NUMBER 435 781-9724	TITLE Regulatory Analyst																														
SIGNATURE N/A	DATE 12/5/2018																															

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-20B1BS YELLOW

Spud date: 11/19/2013

Project: UTAH-UINTAH

Site: NBU 921-20B PAD

Rig name no.: WOR107/107

Event: WELL WORK EXPENSE

Start date: 11/14/2018

End date: 11/19/2018

Active datum: RKB @4,897.00usft (above Mean Sea Level)

UWI: NW/NE/0/9/S/21/E/20/0/0/26/PM/N/751/E/0/2238/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD from (usft)	Operation
11/14/2018	13:00 - 17:00	4.00	MAINT	31	1	P		FLOWING CASING & TBG-65 PSI, MOVE IN & RU RIG & CIRC EQUIP, CONTROL WELL WITH 20 BBLS TMAC, ND TREE, PU TBG STUCK, NU BOPES & TBG EQUIP WORK FREE, DRAIN PUMP & LINES SWIFN
11/15/2018	7:00 - 7:15	0.25	MAINT	48	B	P		HSM/JSA: LD TBG, PINCH POINTS,
	7:15 - 15:00	7.75	MAINT	31	S	P		SICSG & TBG 500 PSI. BWD, MOVE IN PIPE WRANGLER, CONTROL WELL W/ 20 BBLS, RU SCAN TECH, SCANNED OUT OF HOLE WITH 345 JTS P-110 337 YELLOW BAND, 8 RED BAND DUE TO GUALDED THREADS, LIGHT CHEMICAL SCALE FROM 2800' TO 8225, HEAVY CALCIUM SCALE FROM 8225 TO 8270,
	15:00 - 17:00	2.00	MAINT	31	O	P		RIH W/ 3 7/8" MILL POBS, 1.875 XN-NIPPLE & 113 JTS P-110 TO 3606' DRAIN PUMP & LINES SWIFN
11/16/2018	7:00 - 7:15	0.25	MAINT	48	B	P		HSM/JSA: SWIVEL, NOISE, MOVING RIG
	7:15 - 17:00	9.75	MAINT	31	O	P		SICSG 500 PSI , SITBG 0, BWD, RIH WITH 146 JTS P-110 TAGGED @ 8220 , RU SWIVEL, & FOAM UNIT PICKED UP CIRC 1 HR, CLEANED OUT FROM 8220 TO 8230' FELL FREE , CONTROL TBG, REMOVE FLOAT, RIH TAGGED @ 11,345" 33' BELOW BOTTOM PERF, RU FOAM UNIT PICKED UP CIRC 1.5 HRS PUMP ACID, CIRC CLEAN LD 12 JTS TBG TO 10,951' DRAIN PUMP & LINES SWIFW
11/19/2018	7:00 - 7:15	0.25	MAINT	48	B	P		HSM/JSA: RIGGING DOWN & MOVING
	7:15 - 8:00	0.75	MAINT	31	Y	P		SICSG 500 PSI, SITBG 0 PSI: BLED WELL DOWN RU SWAB, BROACHED TBG TO XN-NIPPLE @ 10,951'
	8:00 - 12:00	4.00	MAINT	31	1	P		LAND TBG @ 10,951' ND BOPES, DROP BALL , NU TREE PUMPED OFF BIT @ 800 PSI, RD RIG & EQUIP MOVED TO NBU 921-20G1BS

Effective Date: 6/30/2020

FORMER OPERATOR: Kerr-McGee Oil and Gas Onshore, L.P.	NEW OPERATOR: Caerus Uinta, LLC
Groups: 10/9/2020 sent list to operators to review.	

WELL INFORMATION:

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

see operator file

Total Well Count: 3508
 Pre-Notice Completed: 11/10/2020

OPERATOR CHANGES DOCUMENTATION:

- Sundry or legal documentation was received from the **FORMER** operator on: 8/11/2020
- Sundry or legal documentation was received from the **NEW** operator on: 8/11/2020
- New operator Division of Corporations Business Number: 11801118-0161

REVIEW:

Receipt of Acceptance of Drilling Procedures for APD on: 10/16/2020
 Reports current for Production/Disposition & Sundries: 11/10/2020
 OPS/SI/TA well(s) reviewed for full cost bonding: Approved by Dustin 11/9/2020
 UIC5 on all disposal/injection/storage well(s) Approved on: Approved by Dayne 10/16/2020
 Surface Facility(s) included in operator change:

- 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: 11/19/2020
 Group(s) update in RDBMS on: 11/19/2020
 Surface Facilities update in RBDMS on: 11/19/2020
 Entities Updated in RBDMS on: 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

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

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS			5. LEASE DESIGNATION AND SERIAL NUMBER: U-02278-ST
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.			6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____			7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
2. NAME OF OPERATOR: CAERUS UINTA LLC			8. WELL NAME and NUMBER: CIGE 20
3. ADDRESS OF OPERATOR: 1001 17TH ST. STE 1600 CITY DENVER STATE CO ZIP 80202		PHONE NUMBER: 303-565-4600	9. API NUMBER: 43047304850000
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1182 FSL 1365 FWL COUNTY: UINTAH QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SESW 20 10S 21E S STATE: UTAH			10. FIELD AND POOL, OR WILDCAT:

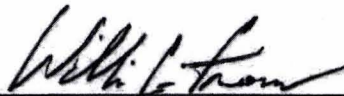
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: <u>06/30/2020</u>	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion:	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input checked="" type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: <u>Transfer remediation liabilities</u>
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> 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
PO Box 173779
Denver, CO 80217-3779


William C. Irons
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.

NAME (PLEASE PRINT) <u>Aubree Besant</u>	TITLE <u>Director of Land</u>
SIGNATURE _____	DATE _____

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APPROVED

By: Rachel Medina
Utah Division of
Oil, Gas, and Mining

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AUG 11 2020

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

FORM 9

5. LEASE DESIGNATION AND SERIAL NUMBER:
U-02278-ST

SUNDRY NOTICES AND REPORTS ON WELLS

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

7. UNIT or CA AGREEMENT NAME:
NATURAL BUTTES

1. TYPE OF WELL
OIL WELL GAS WELL OTHER _____

8. WELL NAME and NUMBER:
CIGE 20

2. NAME OF OPERATOR:
CAERUS UINTA LLC

9. API NUMBER:
43047304850000

3. ADDRESS OF OPERATOR:
1001 17TH ST. STE 1600 CITY DENVER STATE CO ZIP 80202 PHONE NUMBER: 303-565-4600

10. FIELD AND POOL, OR WILDCAT:

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1162 FSL 1365 FWL COUNTY: UINTAH
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SESW 20 10S 21E S STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: <u>06/30/2020</u>	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion:	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input checked="" type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: <u>Transfer remediation liabilities</u>
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

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

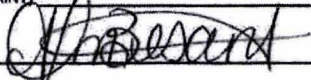
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NAME (PLEASE PRINT) Aubree Besant TITLE Director of Land
SIGNATURE  DATE July 17, 2020

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APPROVED

By: Rachel Medina
Utah Division of
Oil, Gas, and Mining

AUG 11 2020

DIV OF OIL, GAS & MINING