

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING						FORM 3 AMENDED REPORT <input checked="" type="checkbox"/>
APPLICATION FOR PERMIT TO DRILL						1. WELL NAME and NUMBER NBU 921-3501CS
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 720 929-6007
8. ADDRESS OF OPERATOR P.O. Box 173779, Denver, CO, 80217						9. OPERATOR E-MAIL Kathy.SchneebeckDulnoan@anadarko.com
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) ML 22582			11. MINERAL OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>			12. SURFACE OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
13. NAME OF SURFACE OWNER (if box 12 = 'fee')						14. SURFACE OWNER PHONE (if box 12 = 'fee')
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')						16. SURFACE OWNER E-MAIL (if box 12 = 'fee')
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')			18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input checked="" type="checkbox"/> (Submit Commingling Application) NO <input type="checkbox"/>			19. SLANT VERTICAL <input type="checkbox"/> DIRECTIONAL <input checked="" type="checkbox"/> HORIZONTAL <input type="checkbox"/>
20. LOCATION OF WELL	FOOTAGES	QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN
LOCATION AT SURFACE	398 FSL 1766 FEL	SWSE	35	9.0 S	21.0 E	S
Top of Uppermost Producing Zone	674 FSL 1828 FEL	SWSE	35	9.0 S	21.0 E	S
At Total Depth	674 FSL 1828 FEL	SWSE	35	9.0 S	21.0 E	S
21. COUNTY UINTAH		22. DISTANCE TO NEAREST LEASE LINE (Feet) 674		23. NUMBER OF ACRES IN DRILLING UNIT 321		
		25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 222		26. PROPOSED DEPTH MD: 9642 TVD: 9626		
27. ELEVATION - GROUND LEVEL 5100		28. BOND NUMBER 22013542		29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE Permit #43-8496		
ATTACHMENTS						
VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES						
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER			<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN			
<input type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)			<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER			
<input checked="" type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)			<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP			
NAME Danielle Piernot		TITLE Regulatory Analyst		PHONE 720 929-6156		
SIGNATURE		DATE 11/23/2010		EMAIL gnbregulatory@anadarko.com		
API NUMBER ASSIGNED 4304751385000		 Permit Manager				

Proposed Hole, Casing, and Cement						
String	Hole Size	Casing Size	Top (MD)	Bottom (MD)		
Prod	7.875	4.5	0	9642		
Pipe	Grade	Length	Weight			
	Grade I-80 Buttress	9642	11.6			

Proposed Hole, Casing, and Cement

String	Hole Size	Casing Size	Top (MD)	Bottom (MD)		
Surf	11	8.625	0	2540		
Pipe	Grade	Length	Weight			
	Grade J-55 LT&C	2540	28.0			

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

NBU 921-3501CS

Surface:	398 FSL / 1766 FEL	SWSE
BHL:	674 FSL / 1828 FEL	SWSE

Section 35 T9S R21E

Unitah County, Utah
Mineral Lease: ST UT ML 22582

ONSHORE ORDER NO. 1

DRILLING PROGRAM

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

<u>Formation</u>	<u>Depth</u>	<u>Resource</u>
Uinta	0 - Surface	
Green River	1430	
Birds Nest	1708	Water
Mahogany	2086	Water
Wasatch	4679	Gas
Mesaverde	7384	Gas
MVU2	8287	Gas
MVL1	8834	Gas
TVD	9626	
TD	9642	

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

Please refer to the attached Drilling Program

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

Please refer to the attached Drilling Program

5. **Drilling Fluids Program:**

Please refer to the attached Drilling Program

6. **Evaluation Program:**

Please refer to the attached Drilling Program

7. **Abnormal Conditions:**

Maximum anticipated bottom hole pressure calculated at 9,626' TVD, approximately equals 5,897 psi (calculated at 0.61 psi/foot).

Maximum anticipated surface pressure equals approximately 3,780 psi (bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

8. **Anticipated Starting Dates:**

9. **Variances:**

Please refer to the attached Drilling Program.

Onshore Order #2 – Air Drilling Variance

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

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

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

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

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

Background

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

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

The air rig is then mobilized to drill the surface casing hole by drilling a 11 inch hole to just above the Bird's Nest interval with an air hammer. The hammer is then tripped and replaced with a 12-1/4 inch tri-cone bit. The tri-cone bit is used to drill to the surface casing point, approximately 500 feet below the loss circulation zone (Bird's Nest). The 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. 16 of 24

Conclusion

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

10. Other Information:

Please refer to the attached Drilling Program.



KERR-McGEE OIL & GAS ONSHORE LP DRILLING PROGRAM

CASING PROGRAM

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS		
						BURST	COLLAPSE	TENSION
CONDUCTOR	14"	0-40'				3,390	1,880	348,000
SURFACE	8-5/8"	0 to 2,540	28.00	IJ-55	LTC	0.87	1.58	4.84
PRODUCTION	4-1/2"	0 to 9,642	11.60	I-80	BTC	2.00	1.06	2.85

*Burst on surface casing is controlled by fracture gradient as shoe with gas gradient above. D.F. = 2.12

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

2) MASP (Prod Casing) = Pore Pressure at TD - (0.22 psi/ft-partial evac gradient x TD)
 (Burst Assumptions: TD = 12.0 ppg) 0.22 psi/ft = gradient for partially evac wellbore
 (Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoyn.Fact. of water)
MASP 3,780 psi

3) Maximum Anticipated Bottom Hole Pressure (MABHP) = Pore Pressure at TD
 (Burst Assumptions: TD = 12.0 ppg) 0.61 psi/ft = bottomhole gradient
 (Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoyn.Fact. of water)
MABHP 5,897 psi

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	2,040'	65/35 Poz + 6% Gel + 10 pps gilsonite + 0.25 pps Flocele + 3% salt BWOW	190	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	4,172'	Premium Lite II +0.25 pps celloflake + 5 pps gilsonite + 10% gel + 0.5% extender	300	10%	11.00	3.38
	TAIL	5,470'	50/50 Poz/G + 10% salt + 2% gel + 0.1% R-3	1,050	10%	14.30	1.31

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

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

FLOAT EQUIPMENT & CENTRALIZERS

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

ADDITIONAL INFORMATION

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.

BOPE: 11" 5M with one annular and 2 rams. The BOPE will be installed before the production hole is drilled and tested to 5,000 psi (annular to 2,500 psi) prior to drilling out the surface casing shoe. Record on chart recorder and tour sheet. Function test rams on each trip. Maintain safety valve and inside BOP on rig floor at all times. Most rigs have top drives; however, if used, the Kelly is to be equipped with upper and lower kelly valves.

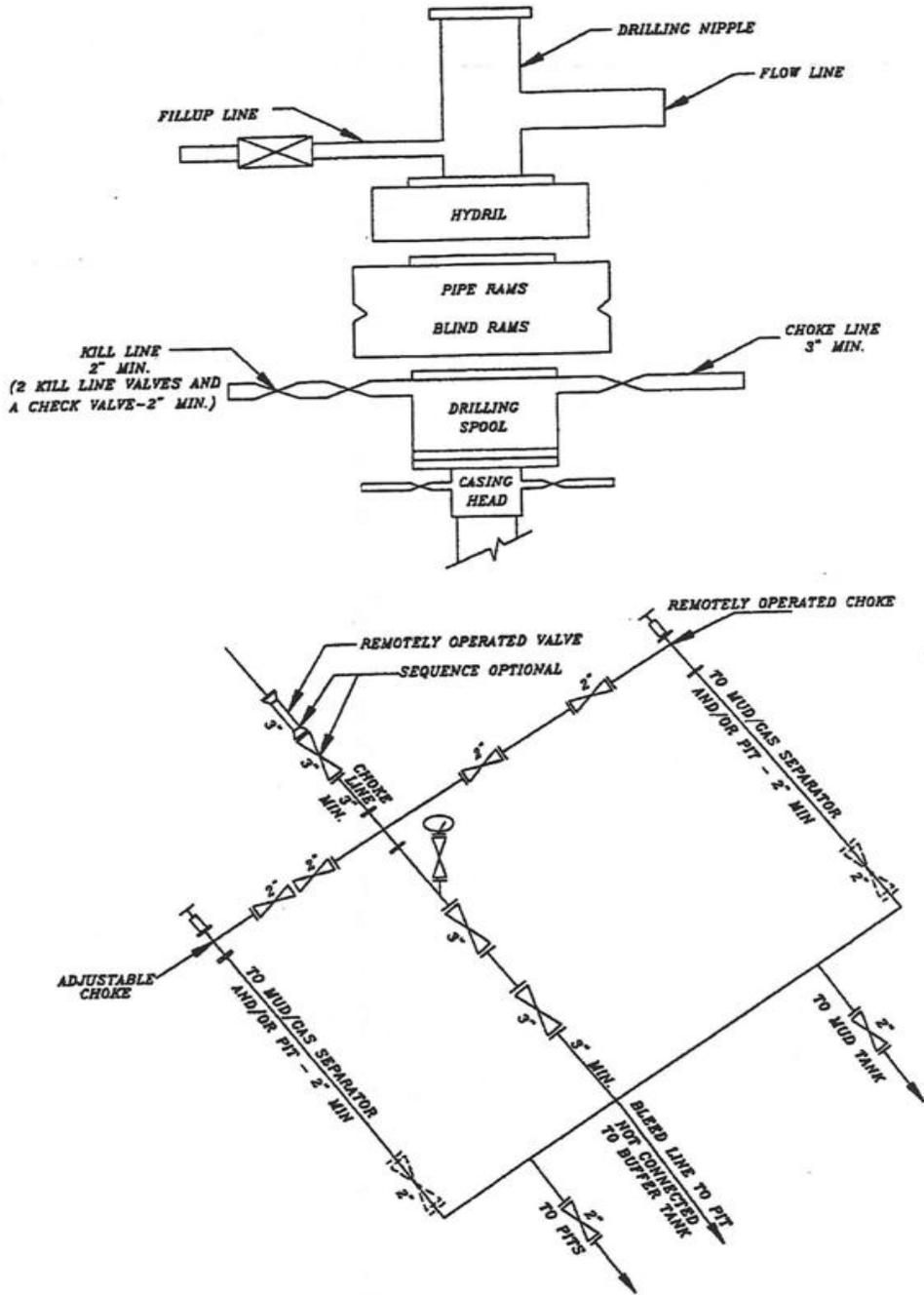
Surveys will be taken at 1,000' minimum intervals.

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

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

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

EXHIBIT A NBU 921-3501CS



SCHEMATIC DIAGRAM OF 5,000 PSI BOP STACK

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

WEST - 80.00 (G.L.O.)

N89°47'37"W - 2646.18' (Meas.)

N89°47'25"W - 2645.99' (Meas.)

Found Uintah County Aluminum Cap in Pile of Stones.

Found Uintah County Aluminum Cap in Pile of Stones.

Found 1" Aluminum Cap on 5/8" Rebar. Pile of Stones.

N00°21'17"W - 2645.28' (Meas.)

NBU 921-35O1CS (Surface Position)
 NAD 83 LATITUDE = 39.986350° (39° 59' 10.859")
 LONGITUDE = 109.515770° (109° 30' 56.773")
 NAD 27 LATITUDE = 39.986385° (39° 59' 10.985")
 LONGITUDE = 109.515083° (109° 30' 54.300")

NBU 921-35O1CS (Bottom Hole)
 NAD 83 LATITUDE = 39.987106° (39° 59' 13.582")
 LONGITUDE = 109.515992° (109° 30' 57.570")
 NAD 27 LATITUDE = 39.987141° (39° 59' 13.708")
 LONGITUDE = 109.515305° (109° 30' 55.097")

N00°12'59"E
 2703.72' (Measured to C.C.)

N00°03'W - 81.10 (G.L.O.)
 2702.74' (Measured to True Corner)

Found Uintah County Surveyor 1 1/2" Aluminum Cap on 5/8" Rebar in Pile of Stones.

35

Found 1 1/2" Aluminum Cap on 5/8" Rebar in Pile of Stones.

N00°03'41"W - 2641.51' (Meas.)

N00°00'34"E (Basis of Bearings)

2612.15' (Measured) N00°03'E - 79.80 (G.L.O.)

WELL LOCATION:
NBU 921-35O1CS
 ELEV. UNGRADED GROUND = 5100.4'

LOT 4

LOT 3

LOT 2

LOT 1

Bottom of Hole

1828'

1766'

674'

398'

Well Surface Position

Found 1977 Brass Cap in Pile of Stones

Found 1977 Brass Cap

2579.41'

2.50 (G.L.O.)
 164.44'

Found 1977 Brass Cap in Pile of Stones.

2501.71'

2.19 (G.L.O.)
 144.58'

Found 1977 Brass Cap

S89°14'29"W - 2688.09' (Meas.)

S89°12'W - 40.73 (G.L.O.)

Found 1977 Brass Cap

99.10' - 1.51 (G.L.O.)

2678.51' (Meas.)

S89°06'03"W - 40.59 (G.L.O.)

Found 1977 Brass Cap in Pile of Stones.

S89°07'53"W - 2666.15' (Meas.)

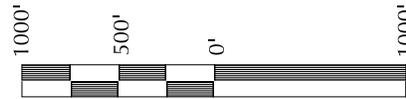
S89°06'W - 40.39 (G.L.O.)

Found 1977 Brass Cap

NOTES:

▲ = Section Corners Located

- Well footages are measured at right angles to the Section Lines.
- G.L.O. distances are shown in feet or chains.
1 chain = 66 feet.
- The Bottom of hole bears N12°39'12"W 282.51' from the Surface Position.
- Bearings are based on Global Positioning Satellite observations.
- Basis of elevation is Tri-Sta "Two Water" located in the NW 1/4 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'.



SCALE
 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.

John R. Maugh
 No. 6028691
 JOHN R. MAUGH
 PROFESSIONAL LAND SURVEYOR
 REGISTRATION No. 6028691
 STATE OF UTAH

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

WELL PAD: NBU 921-35O

**NBU 921-35O1CS
 WELL PLAT**

**674' FSL, 1828' FEL (Bottom Hole)
 LOT 2 OF SECTION 35, 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

(435) 789-1365

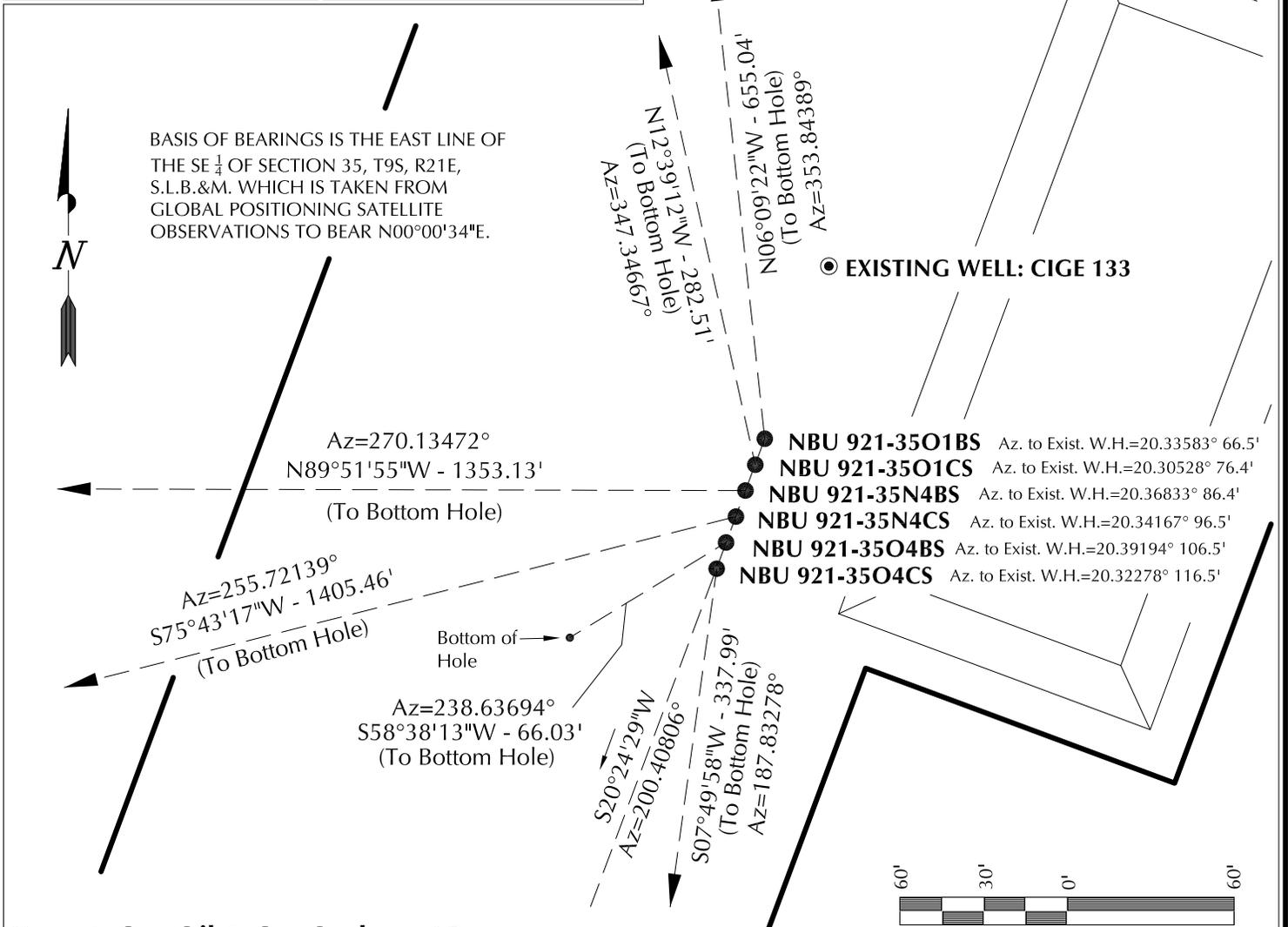
ENGINEERING & LAND SURVEYING, INC.
 209 NORTH 300 WEST - VERNAL, UTAH 84078

DATE SURVEYED: 9-28-10	SURVEYED BY: M.S.B.	SHEET NO: 5
DATE DRAWN: 9-29-10	DRAWN BY: E.M.S.	
SCALE: 1" = 1000'	Date Last Revised:	5 OF 18

WELL NAME	SURFACE POSITION					BOTTOM HOLE				
	NAD83		NAD27		FOOTAGES	NAD83		NAD27		FOOTAGES
	LATITUDE	LONGITUDE	LATITUDE	LONGITUDE		LATITUDE	LONGITUDE	LATITUDE	LONGITUDE	
NBU 921-35O4CS	39°59'10.488"	109°30'56.951"	39°59'10.614"	109°30'54.479"	360' FSL	39°59'07.180"	109°30'57.541"	39°59'07.306"	109°30'55.068"	26' FSL
NBU 921-35O4BS	39°59'10.582"	109°30'56.908"	39°59'10.708"	109°30'54.436"	1780' FEL	39°59'10.242"	109°30'57.632"	39°59'10.368"	109°30'55.159"	1826' FEL
NBU 921-35O4CS	39°59'10.582"	109°30'56.908"	39°59'10.708"	109°30'54.436"	370' FSL	39°59'10.242"	109°30'57.632"	39°59'10.368"	109°30'55.159"	336' FSL
NBU 921-35O4BS	39°59'10.582"	109°30'56.908"	39°59'10.708"	109°30'54.436"	1777' FEL	39°59'10.242"	109°30'57.632"	39°59'10.368"	109°30'55.159"	1833' FEL
NBU 921-35N4CS	39°59'10.674"	109°30'56.863"	39°59'10.800"	109°30'54.390"	379' FSL	39°59'07.241"	109°31'14.354"	39°59'07.367"	109°31'11.880"	51' FSL
NBU 921-35N4BS	39°59'10.674"	109°30'56.863"	39°59'10.800"	109°30'54.390"	1773' FEL	39°59'07.241"	109°31'14.354"	39°59'07.367"	109°31'11.880"	2153' FWL
NBU 921-35N4CS	39°59'10.767"	109°30'56.818"	39°59'10.893"	109°30'54.346"	388' FSL	39°59'10.790"	109°31'14.198"	39°59'10.916"	109°31'11.725"	410' FSL
NBU 921-35N4BS	39°59'10.767"	109°30'56.818"	39°59'10.893"	109°30'54.346"	1770' FEL	39°59'10.790"	109°31'14.198"	39°59'10.916"	109°31'11.725"	2164' FWL
NBU 921-35O1CS	39°59'10.859"	109°30'56.773"	39°59'10.985"	109°30'54.300"	398' FSL	39°59'13.582"	109°30'57.570"	39°59'13.708"	109°30'55.097"	674' FSL
NBU 921-35O1BS	39°59'10.859"	109°30'56.773"	39°59'10.985"	109°30'54.300"	1766' FEL	39°59'13.582"	109°30'57.570"	39°59'13.708"	109°30'55.097"	1828' FEL
NBU 921-35O1CS	39°59'10.952"	109°30'56.729"	39°59'11.078"	109°30'54.256"	407' FSL	39°59'17.386"	109°30'57.636"	39°59'17.512"	109°30'55.163"	1059' FSL
NBU 921-35O1BS	39°59'10.952"	109°30'56.729"	39°59'11.078"	109°30'54.256"	1763' FEL	39°59'17.386"	109°30'57.636"	39°59'17.512"	109°30'55.163"	1833' FEL
CIGE 133	39°59'11.568"	109°30'56.433"	39°59'11.694"	109°30'53.960"	469' FSL	39°59'11.568"	109°30'56.433"	39°59'11.694"	109°30'53.960"	1740' FSL

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 921-35O4CS	-334.8'	-46.1'	NBU 921-35O4BS	-34.4'	-56.4'	NBU 921-35N4CS	-346.6'	-1,362.0'	NBU 921-35N4BS	3.2'	-1,353.1'
NBU 921-35O1CS	275.6'	-61.9'	NBU 921-35O1BS	651.3'	-70.2'						



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

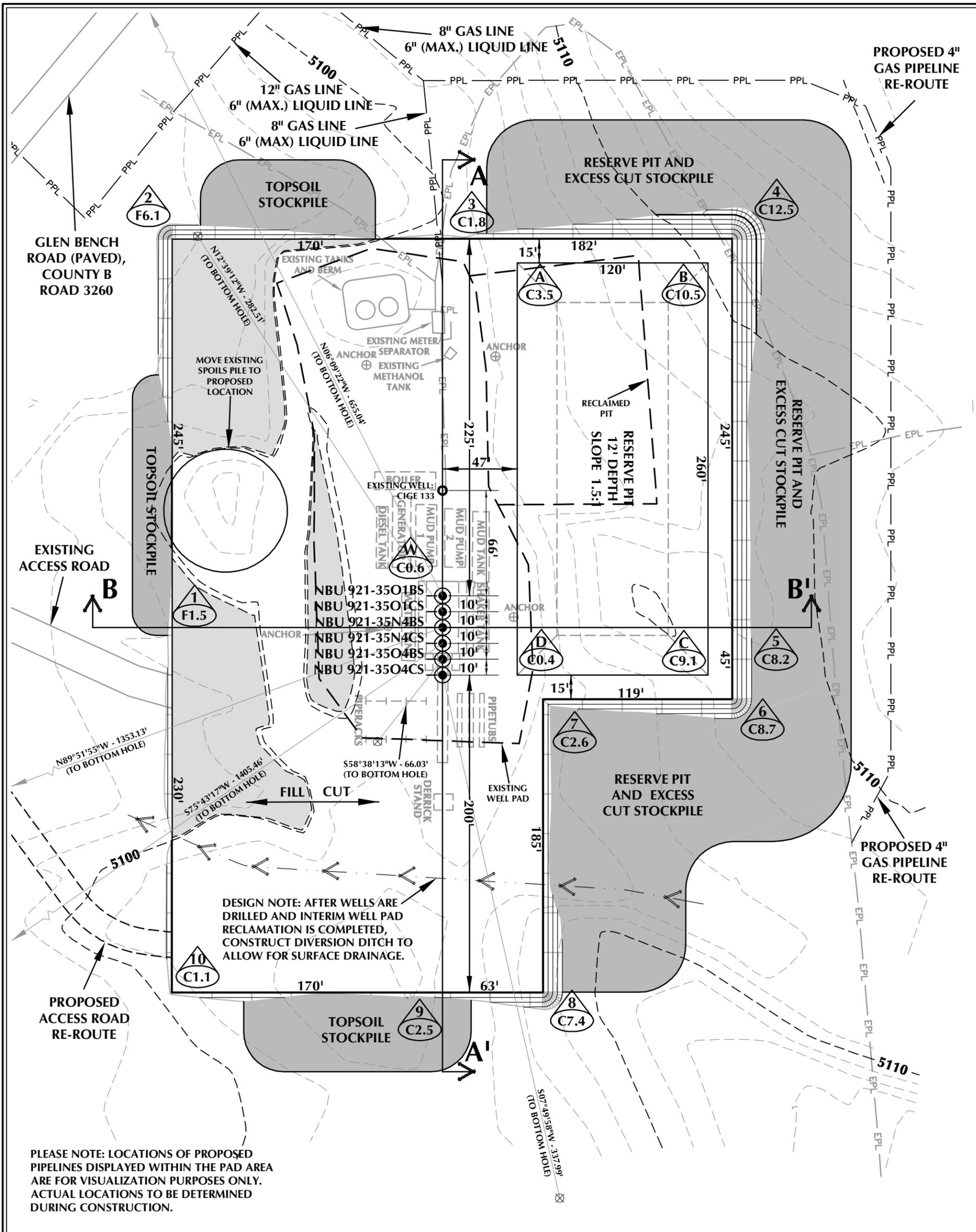
WELL PAD - NBU 921-35O

WELL PAD INTERFERENCE PLAT
WELLS - NBU 921-35O4CS, NBU 921-35O4BS,
NBU 921-35N4CS, NBU 921-35N4BS,
NBU 921-35O1CS & NBU 921-35O1BS
LOCATED IN SECTION 35, 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: 9-28-10	SURVEYED BY: M.S.B.	SHEET NO: 7
DATE DRAWN: 9-29-10	DRAWN BY: M.W.W.	
SCALE: 1" = 60'	Date Last Revised:	7 OF 18



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 921-350 DESIGN SUMMARY

EXISTING GRADE @ CENTER OF WELL PAD = 5100.4'
 FINISHED GRADE ELEVATION = 5099.8'
 CUT SLOPES = 1.5:1
 FILL SLOPES = 1.5:1
 TOTAL WELL PAD AREA = 3.62 ACRES
 TOTAL DAMAGE AREA = 6.49 ACRES
 SHRINKAGE FACTOR = 1.10
 SWELL FACTOR = 1.00

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

WELL PAD - NBU 921-350

WELL PAD - LOCATION LAYOUT
 NBU 921-35O4CS, NBU 921-35O4BS,
 NBU 921-35N4CS, NBU 921-35N4BS,
 NBU 921-35O1CS & NBU 921-35O1BS
 LOCATED IN SECTION 35, 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

WELL PAD QUANTITIES

TOTAL CUT FOR WELL PAD = 13,694 C.Y.
 TOTAL FILL FOR WELL PAD = 2,423 C.Y.
 TOPSOIL @ 6" DEPTH = 2,240 C.Y.
 EXCESS MATERIAL = 11,271 C.Y.

RESERVE PIT QUANTITIES

TOTAL CUT FOR RESERVE PIT
 +/- 11,020 CY
 RESERVE PIT CAPACITY (2' OF FREEBOARD)
 +/- 42,290 BARRELS

WELL PAD LEGEND

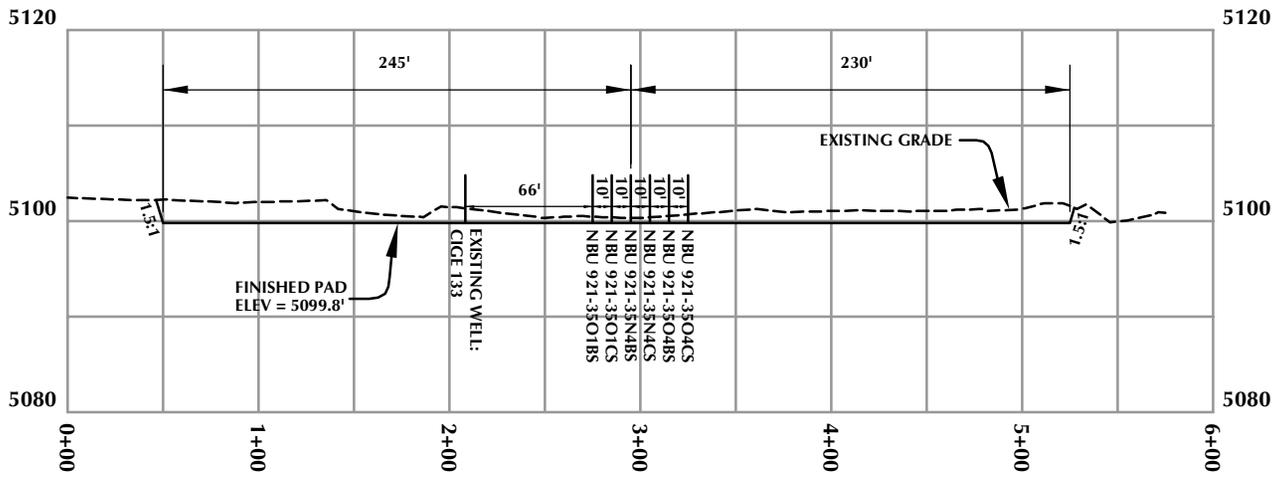
- EXISTING WELL LOCATION
- PROPOSED WELL LOCATION
- PROPOSED BOTTOM HOLE LOCATION
- EXISTING CONTOURS (2' INTERVAL)
- PROPOSED CONTOURS (2' INTERVAL)
- PROPOSED PIPELINE
- EXISTING PIPELINE



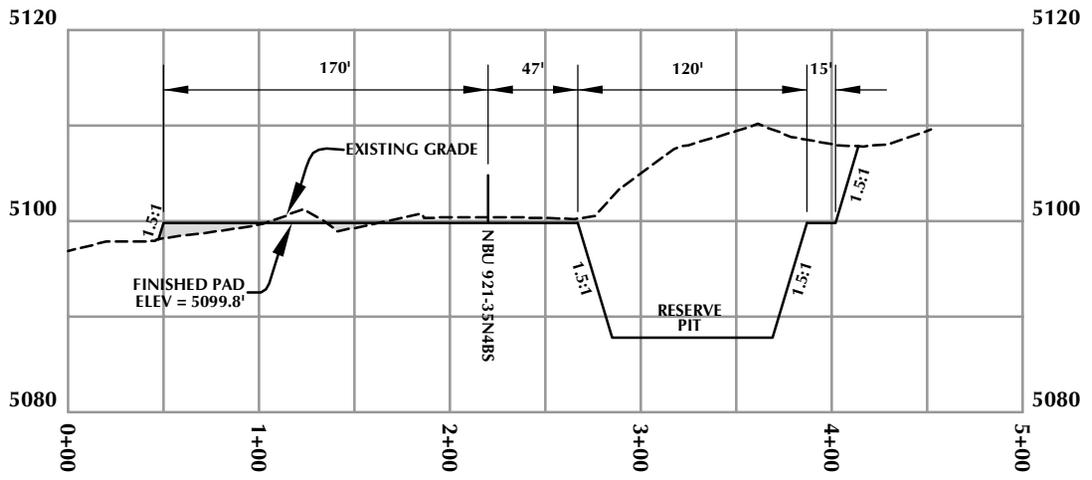
HORIZONTAL 0 30 60 1" = 60'
 2' CONTOURS

Scale: 1"=60' Date: 10/15/10 SHEET NO:
 REVISED: JFE 12/9/10 **8** 8 OF 18

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



CROSS SECTION A-A'



CROSS SECTION B-B'

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

WELL PAD - NBU 921-350

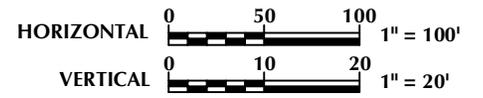
WELL PAD - CROSS SECTIONS
NBU 921-35O4CS, NBU 921-35O4BS,
NBU 921-35N4CS, NBU 921-35N4BS,
NBU 921-35O1CS & NBU 921-35O1BS
LOCATED IN SECTION 35, T9S, R21E,
S.L.B.&M., UINTAH COUNTY, UTAH



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Sheridan, WY 82801
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TIMBERLINE
ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

(435) 789-1365



Scale: 1"=100'

Date: 10/15/10

SHEET NO:

REVISED:

9

9 OF 18

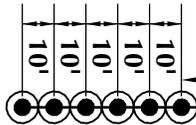
APW:unc:43047513850000:K:\PROJECTS\NBU 921-350_20100930.dwg, 10/19/2010 5:20:26 PM

PROPOSED
ACCESS ROAD
RE-ROUTE

PROPOSED
WELL PAD

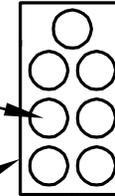
PLEASE NOTE: LOCATIONS OF FACILITIES AND
PROPOSED PIPELINES DISPLAYED WITHIN THE
PAD AREA ARE FOR VISUALIZATION PURPOSES
ONLY. ACTUAL LOCATIONS TO BE DETERMINED
DURING CONSTRUCTION.

NBU 921-3501BS
NBU 921-3501CS
NBU 921-35N4BS
NBU 921-35N4CS
NBU 921-35O4BS
NBU 921-35O4CS



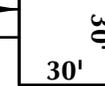
EXISTING WELL: CIGE 133

TANKS
(TYPICAL)

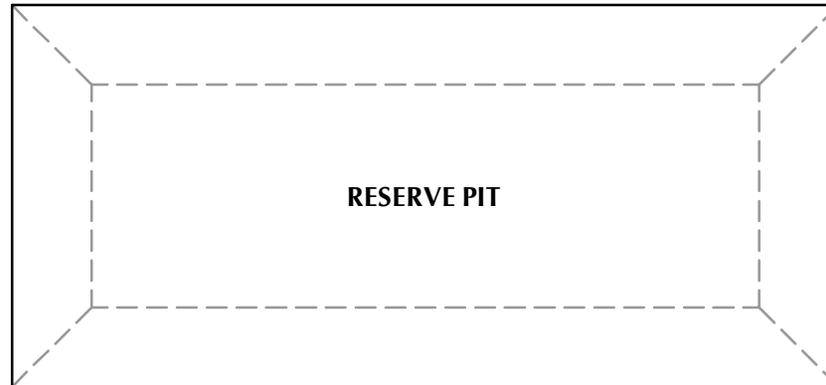


METAL
CONTAINMENT

SEPARATOR/
METER HOUSE



8" GAS LINE
6" (MAX.)
LIQUID LINE



RESERVE PIT

Kerr-McGee Oil & Gas Onshore, LP

1099 18th Street - Denver, Colorado 80202

WELL PAD - NBU 921-350

WELL PAD - FACILITIES DIAGRAM

NBU 921-35O4CS, NBU 921-35O4BS,
NBU 921-35N4CS, NBU 921-35N4BS,
NBU 921-35O1CS & NBU 921-35O1BS
LOCATED IN SECTION 35, 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

WELL PAD LEGEND

- EXISTING WELL LOCATION
- PROPOSED WELL LOCATION
- PPL — PROPOSED PIPELINE
- EPL — EXISTING PIPELINE



HORIZONTAL 0 30' 60' 1" = 60'

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

(435) 789-1365

Scale: 1"=60'

Date: 10/15/10

SHEET NO:

REVISED:

10 10 OF 18

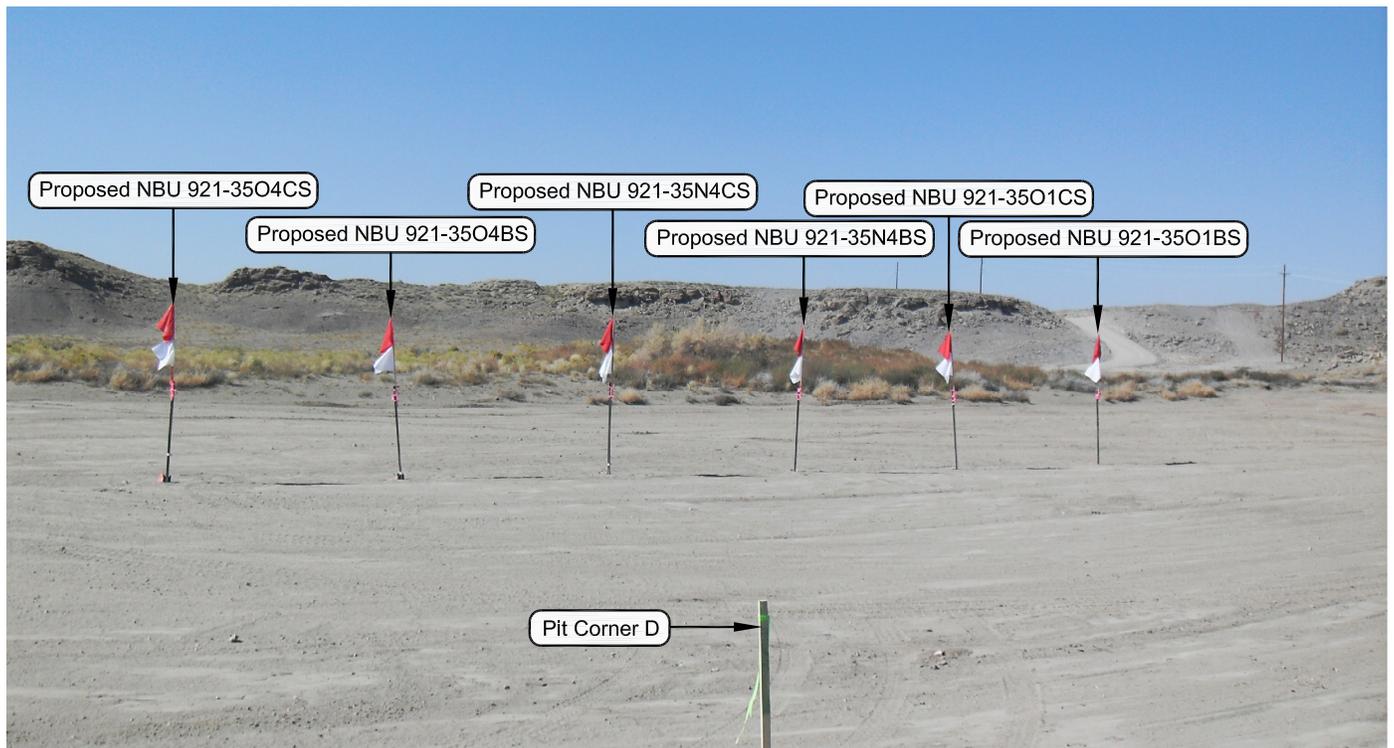


PHOTO VIEW: FROM PIT CORNER D TO LOCATION STAKE

CAMERA ANGLE: NORTHWESTERLY



PHOTO VIEW: FROM BEGINNING OF PROPOSED ROAD

CAMERA ANGLE: SOUTHEASTERLY

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

WELL PAD - NBU 921-35O

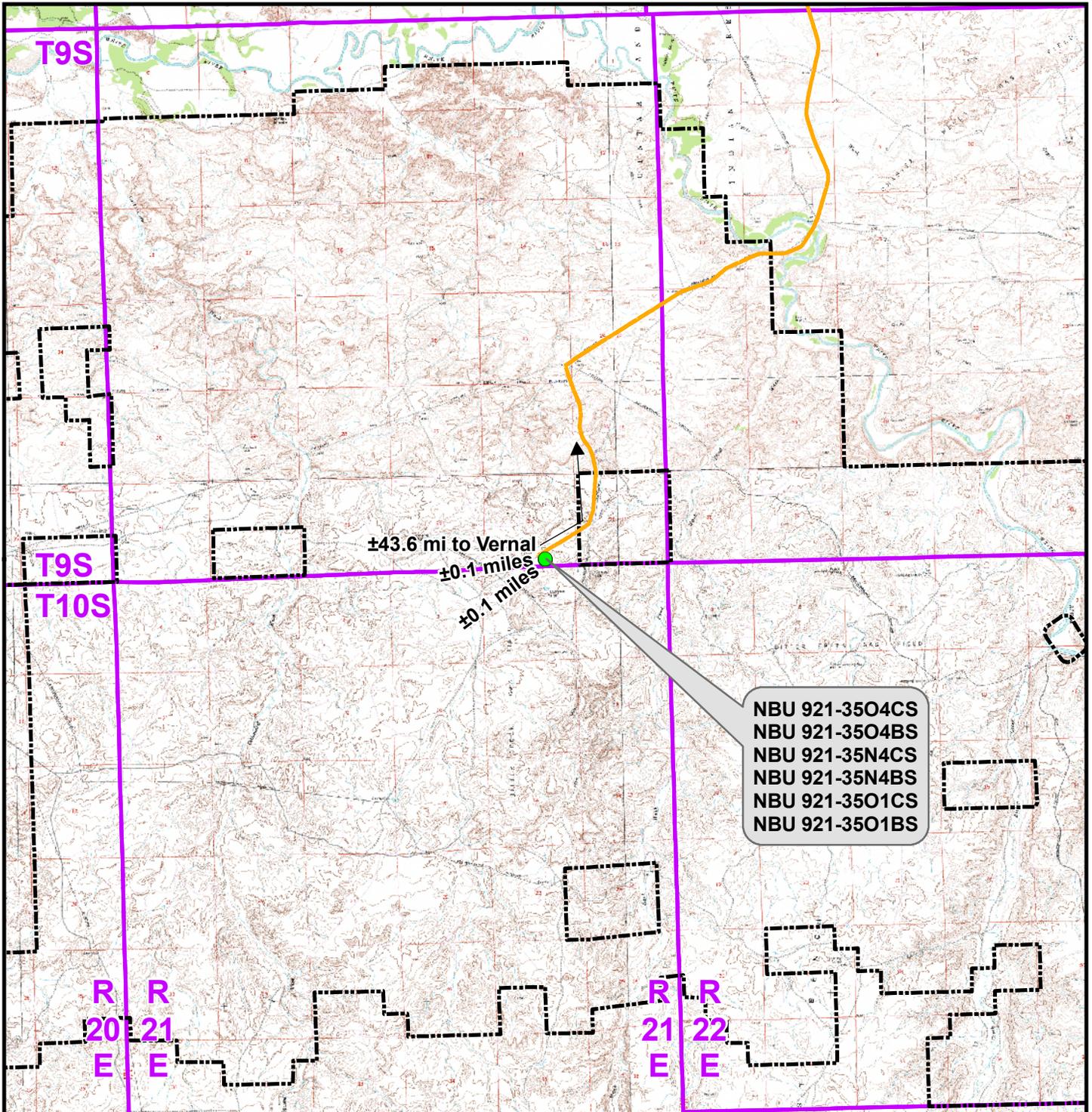
LOCATION PHOTOS
 NBU 921-35O4CS, NBU 921-35O4BS,
 NBU 921-35N4CS, NBU 921-35N4BS,
 NBU 921-35O1CS & NBU 921-35O1BS
 LOCATED IN SECTION 35, T9S, R21E,
 S.L.B.&M., Uintah County, Utah.



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

DATE PHOTOS TAKEN: 9-28-10	PHOTOS TAKEN BY: M.S.B.	SHEET NO: 11
DATE DRAWN: 9-29-10	DRAWN BY: E.M.S.	
Date Last Revised:		11 OF 18



Legend

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

Distance From Well Pad - NBU 921-350 To Unit Boundary: ±1,763ft

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

WELL PAD - NBU 921-350

TOPO A

NBU 921-3504CS, NBU 921-3504BS,
 NBU 921-35N4CS, NBU 921-35N4BS,
 NBU 921-3501CS & NBU 921-3501BS
 LOCATED IN SECTION 35, T9S, R21E,
 S.L.B.&M., UINTAH COUNTY, UTAH



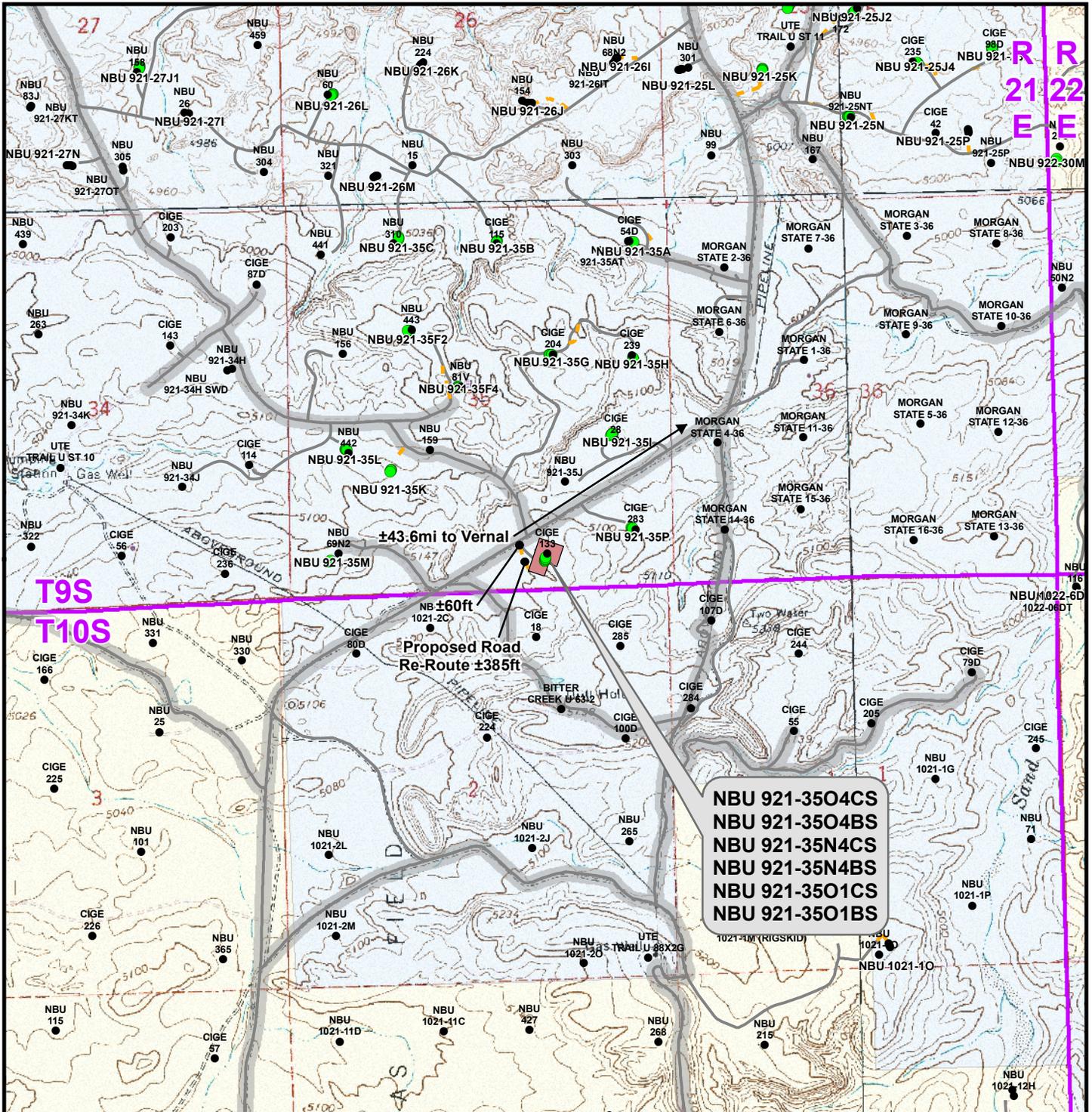
CONSULTING, LLC
 2155 North Main Street
 Sheridan, WY 82801
 Phone (307) 674-0609
 Fax (307) 674-0182



Scale: 1:100,000	NAD83 USP Central
Drawn: KGS	Date: 19 Oct 2010
Revised:	Date:

Sheet No:

12 12 of 18



Legend

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

Total Proposed Road Re-Route Length: ±385ft

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

WELL PAD - NBU 921-35O

TOPO B

NBU 921-35O4CS, NBU 921-35O4BS,
NBU 921-35N4CS, NBU 921-35N4BS,
NBU 921-35O1CS & NBU 921-35O1BS
LOCATED IN SECTION 35, T9S, R21E,
S.L.B.&M., UTAH COUNTY, UTAH

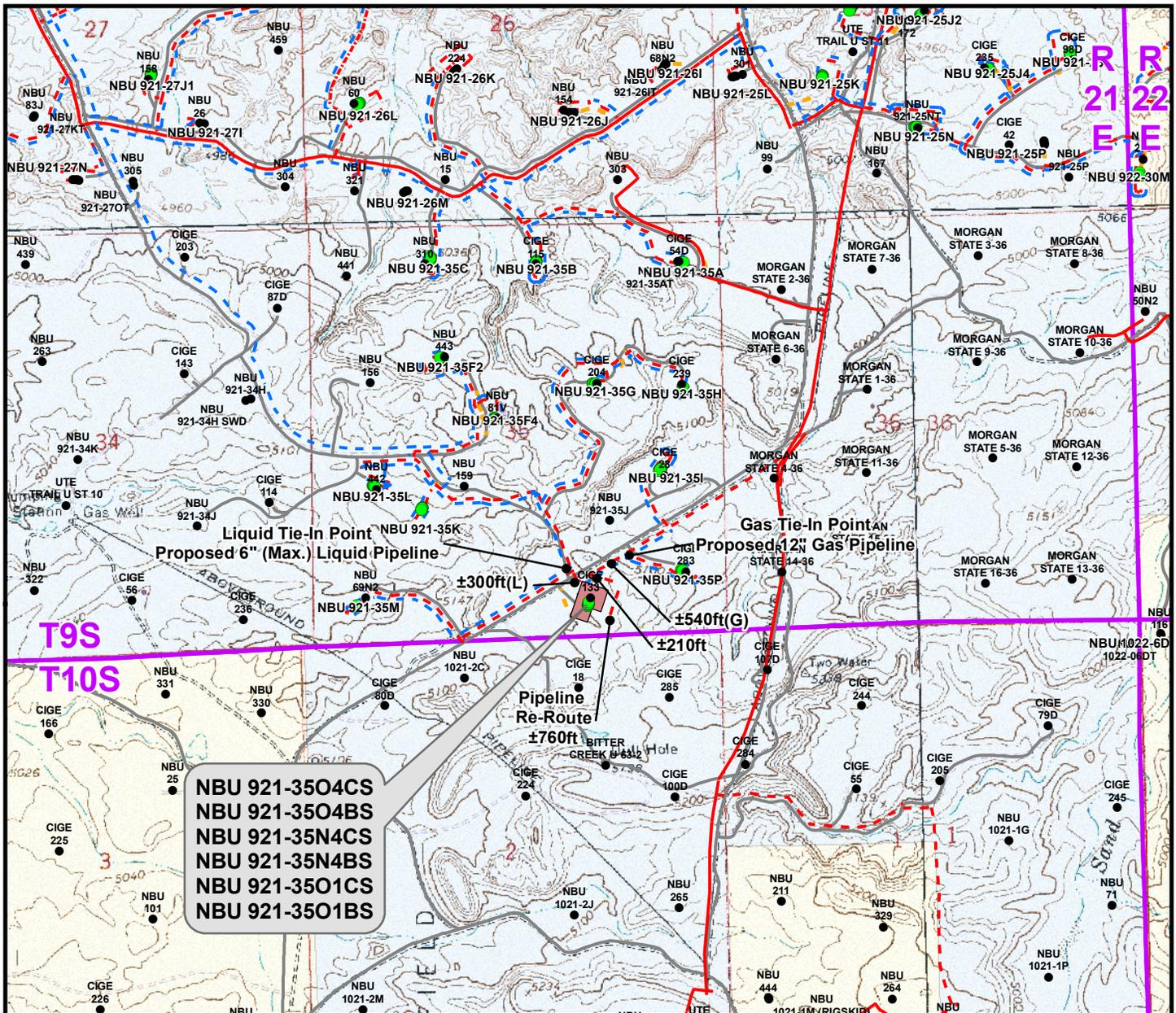


CONSULTING, LLC
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Sheridan, WY 82801
Phone (307) 674-0609
Fax (307) 674-0182



Scale: 1" = 2,000ft	NAD83 USP Central
Drawn: KGS	Date: 19 Oct 2010
Revised:	Date:

Sheet No:
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NBU 921-35O4CS
NBU 921-35O4BS
NBU 921-35N4CS
NBU 921-35N4BS
NBU 921-35O1CS
NBU 921-35O1BS

Proposed Liquid Pipeline	Length	Proposed Gas Pipeline	Length
Proposed 6" (Max.) (Meter House to Edge of Pad)	±60ft	Proposed 8" (Meter House to Edge of Pad)	±60ft
Proposed 6" (Max.) (Edge of Pad to 35P Intersection)	±210ft	Proposed 8" (Edge of Pad to 35M Intersection)	±210ft
Proposed 6" (Max.) (35P Intersection to 35M Intersection)	±300ft	Proposed 12" (35M Intersection to 35P Intersection)	±540ft
		Proposed 4" (Pipeline Re-Route)	±760ft
TOTAL PROPOSED LIQUID PIPELINE =	±570ft	TOTAL PROPOSED GAS PIPELINE =	±1,570ft

Legend

- Well - Proposed (Green dot)
- Well - Existing (Black dot)
- Well Pad (Brown rectangle)
- Gas Pipeline - Proposed (Red dashed line)
- Gas Pipeline - To Be Upgraded (Red dash-dot line)
- Gas Pipeline - Existing (Red solid line)
- Liquid Pipeline - Proposed (Blue dashed line)
- Liquid Pipeline - To Be Upgraded (Blue dash-dot line)
- Liquid Pipeline - Existing (Blue solid line)
- Road - Proposed (Yellow dashed line)
- Road - Existing (Grey solid line)
- Bureau of Land Management (Yellow rectangle)
- Indian Reservation (Pink rectangle)
- State (Light blue rectangle)
- Private (White rectangle)

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

WELL PAD - NBU 921-35O

TOPO D

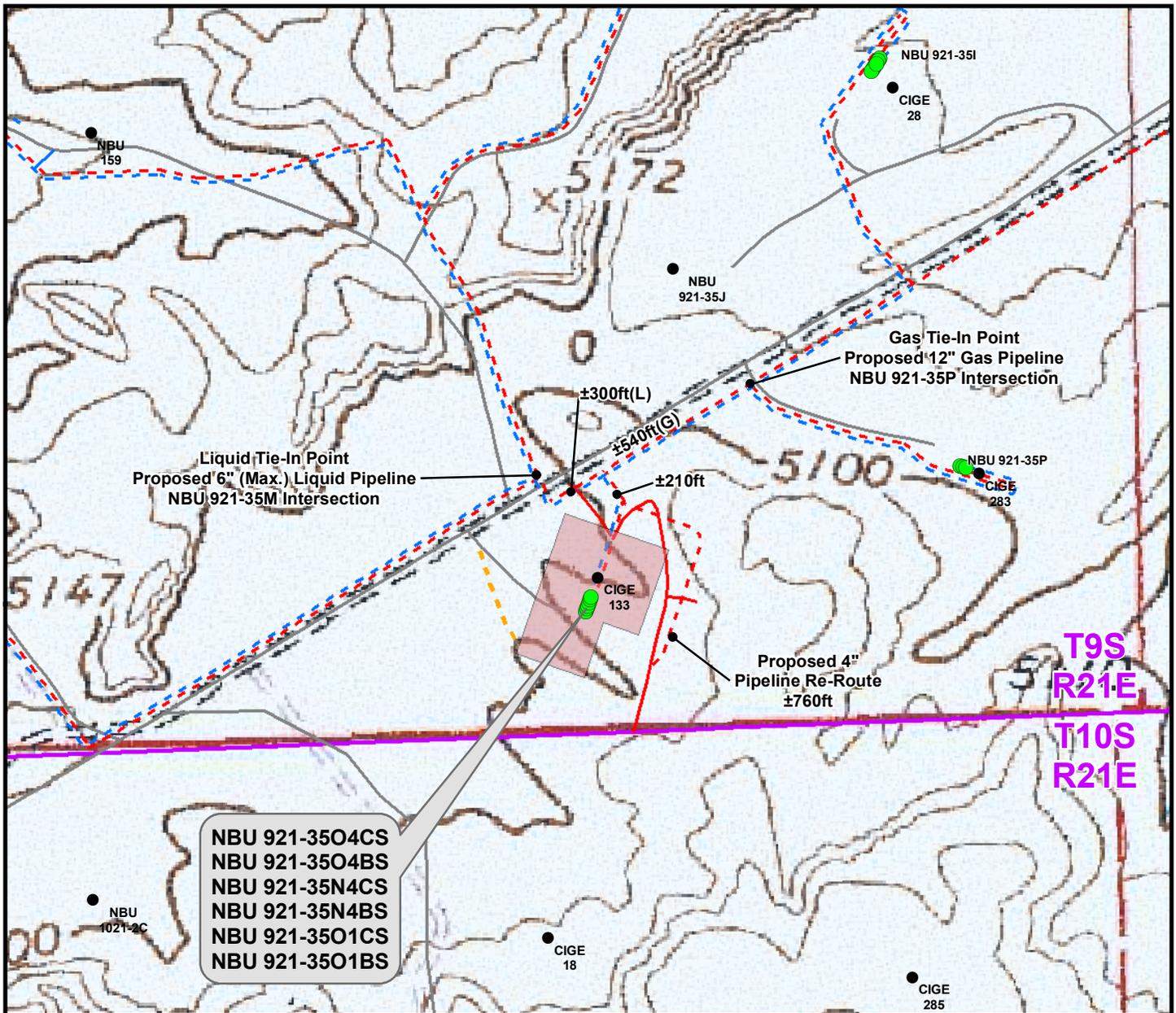
NBU 921-35O4CS, NBU 921-35O4BS,
NBU 921-35N4CS, NBU 921-35N4BS,
NBU 921-35O1CS & NBU 921-35O1BS
 LOCATED IN SECTION 35, T9S, R21E,
 S.L.B.&M., UTAH COUNTY, UTAH

609

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



Scale: 1" = 2,000ft	NAD83 USP Central	Sheet No:
Drawn: KGS	Date: 19 Oct 2010	15 15 of 18
Revised:	Date:	



NBU 921-35O4CS
NBU 921-35O4BS
NBU 921-35N4CS
NBU 921-35N4BS
NBU 921-35O1CS
NBU 921-35O1BS

Proposed Liquid Pipeline	Length
Proposed 6" (Max.) (Meter House to Edge of Pad)	±60ft
Proposed 6" (Max.) (Edge of Pad to 35P Intersection)	±210ft
Proposed 6" (Max.) (35P Intersection to 35M Intersection)	±300ft
TOTAL PROPOSED LIQUID PIPELINE =	±570ft

Proposed Gas Pipeline	Length
Proposed 8" (Meter House to Edge of Pad)	±60ft
Proposed 8" (Edge of Pad to 35M Intersection)	±210ft
Proposed 12" (35M Intersection to 35P Intersection)	±540ft
Proposed 4" (Pipeline Re-Route)	±760ft
TOTAL PROPOSED GAS PIPELINE =	±1,570ft

Legend

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

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

WELL PAD - NBU 921-35O

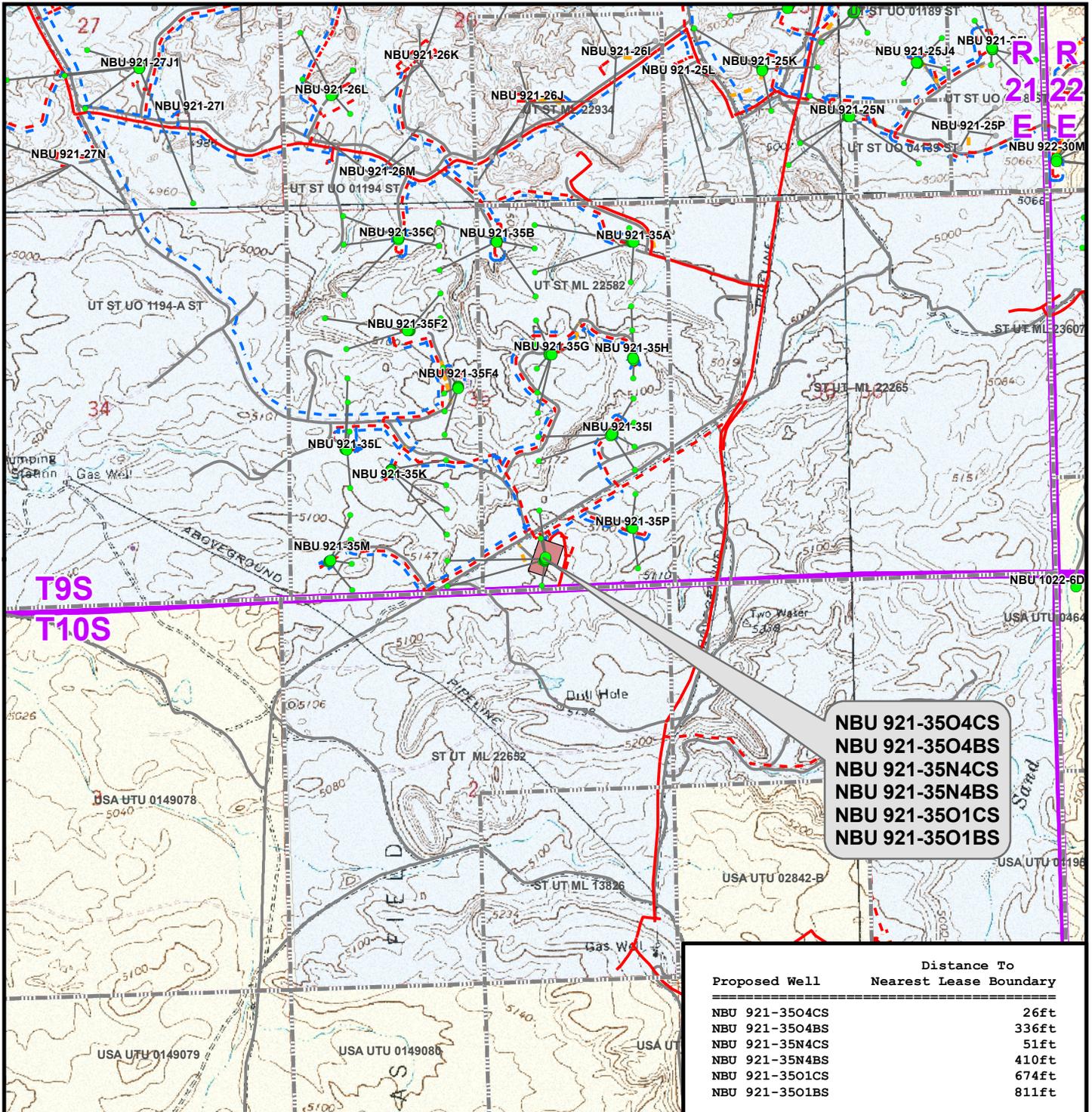
TOPO D2 (PAD & PIPELINE DETAIL)
NBU 921-35O4CS, NBU 921-35O4BS,
NBU 921-35N4CS, NBU 921-35N4BS,
NBU 921-35O1CS & NBU 921-35O1BS
LOCATED IN SECTION 35, T9S, R21E,
S.L.B.&M., UINTAH COUNTY, UTAH

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



Scale: 1" = 500ft	NAD83 USP Central	Sheet No:
Drawn: KGS	Date: 19 Oct 2010	16
Revised:	Date:	

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Legend

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

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

WELL PAD - NBU 921-35O
TOPO E

NBU 921-35O4CS, NBU 921-35O4BS,
NBU 921-35N4CS, NBU 921-35N4BS,
NBU 921-35O1CS & NBU 921-35O1BS
LOCATED IN SECTION 35, 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



Scale: 1" = 2,000ft	NAD83 USP Central
Drawn: KGS	Date: 19 Oct 2010
Revised:	Date:

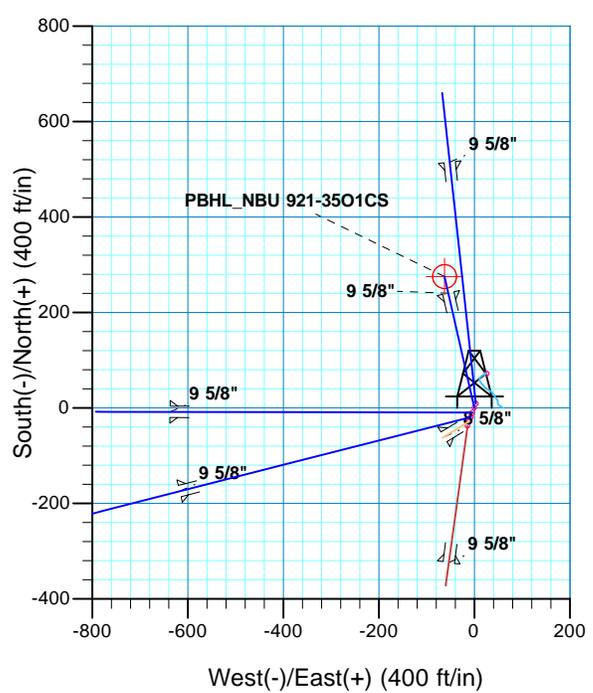
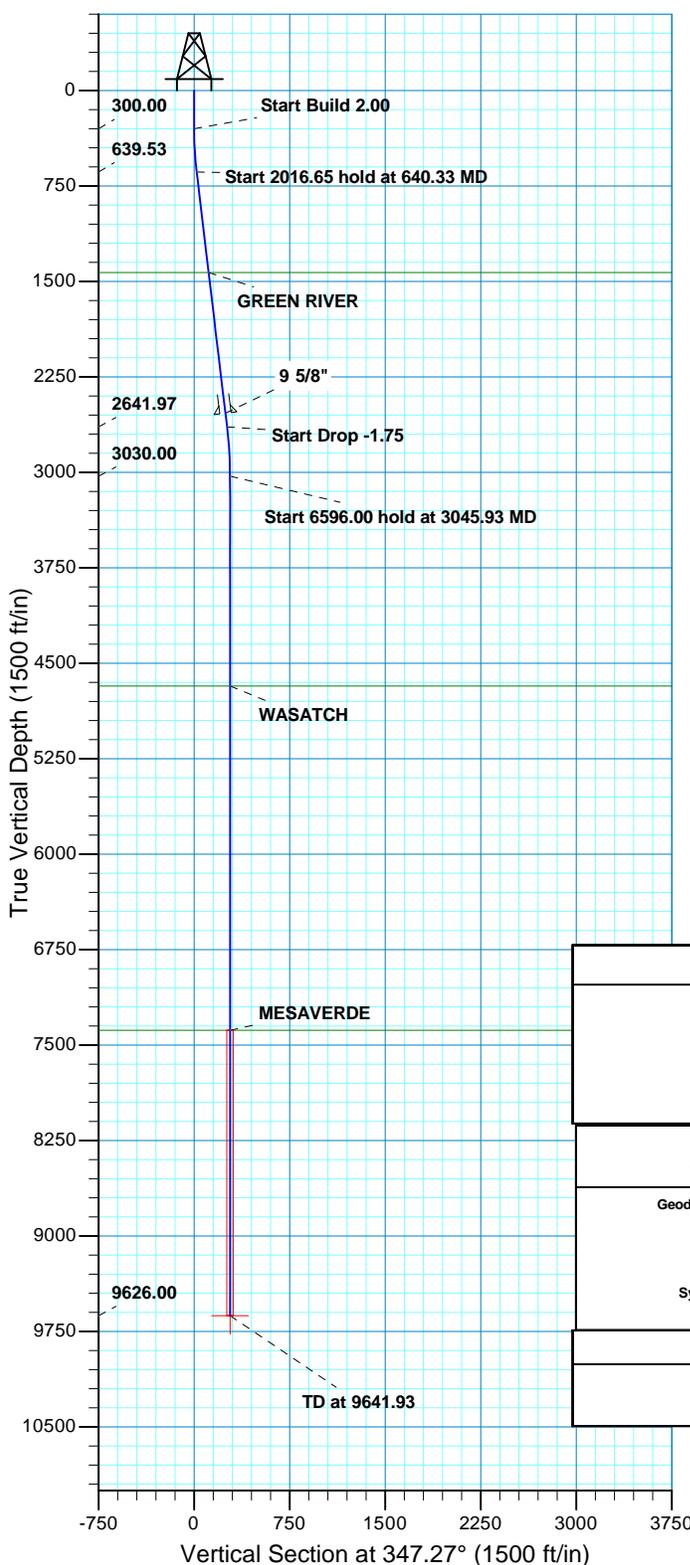
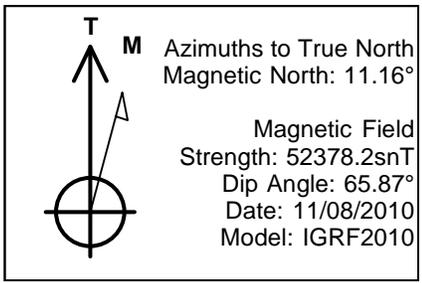
Sheet No:
17
17 of 18

**Kerr-McGee Oil & Gas Onshore, LP
WELL PAD – NBU 921-35O
WELLS – NBU 921-35O4CS, NBU 921-35O4BS,
NBU 921-35N4CS, NBU 921-35N4BS,
NBU 921-35O1CS & NBU 921-35O1BS
Section 35, 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 20.1 miles to a service road to the southeast. Exit left and proceed in a southeasterly direction along the service road approximately 60 feet to the proposed access road. Follow road flags in a southeasterly direction approximately 385 feet to the proposed well pad.

Total distance from Vernal, Utah to the proposed well location is approximately 43.7 miles in a southerly direction.

WELL DETAILS: P_NBU 921-3501CS								
GL 5100' & KB 4' @ 5104.00ft (ASSUMED)								
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude			
0.00	0.00	14524550.81	2056370.79	39° 59' 10.986 N	109° 30' 54.299 W			
DESIGN TARGET DETAILS								
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
PBHL	9626.00	275.34	-62.20	14524825.08	2056304.02	39° 59' 13.708 N	109° 30' 55.098 W	Circle (Radius: 25.00)
- plan hits target center								



SECTION DETAILS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	
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	
640.33	6.81	347.27	639.53	19.70	-4.45	2.00	347.27	20.19	
2656.98	6.81	347.27	2641.97	252.83	-57.11	0.00	0.00	259.20	
3045.93	0.00	0.00	3030.00	275.34	-62.20	1.75	180.00	282.28	
9641.93	0.00	0.00	9626.00	275.34	-62.20	0.00	0.00	282.28 PBHL_NBU 921-3501CS	
PROJECT DETAILS: UTAH - UTM (feet), NAD27, Zone 12N							FORMATION TOP DETAILS		
Geodetic System: Universal Transverse Mercator (US Survey Feet) Datum: NAD 1927 (NADCON CONUS) Ellipsoid: Clarke 1866 Zone: Zone 12N (114 W to 108 W) Location: SECTION 35 T9S R21E System Datum: Mean Sea Level							TVDPath	MDPath	Formation
							1430.00	1436.41	GREEN RIVER
							4679.00	4694.93	WASATCH
			7384.00	7399.93	MESAVERDE				
CASING DETAILS									
	TVD	MD	Name	Size					
	2536.00	2550.26	9 5/8"	9.625					



Scientific Drilling
Rocky Mountain Operations

US ROCKIES REGION PLANNING

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

UINTAH_NBU 921-350 PAD

P_NBU 921-3501CS

P_NBU 921-3501CS

Plan: PLAN #1 11-17-10 RHS

Standard Planning Report

17 November, 2010

Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well P_NBU 921-35O1CS
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL 5100' & KB 4' @ 5104.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	MD Reference:	GL 5100' & KB 4' @ 5104.00ft (ASSUMED)
Site:	UINTAH_NBU 921-35O PAD	North Reference:	True
Well:	P_NBU 921-35O1CS	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_NBU 921-35O1CS		
Design:	PLAN #1 11-17-10 RHS		

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	UINTAH_NBU 921-35O PAD, SECTION 35 T9S R21E				
Site Position:		Northing:	14,524,559.98 usft	Latitude:	39° 59' 11.076 N
From:	Lat/Long	Easting:	2,056,374.00 usft	Longitude:	109° 30' 54.256 W
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence:	0.95 °

Well	P_NBU 921-35O1CS, 398 FSL 1766 FEL					
Well Position	+N/-S	-9.11 ft	Northing:	14,524,550.82 usft	Latitude:	39° 59' 10.986 N
	+E/-W	-3.36 ft	Easting:	2,056,370.79 usft	Longitude:	109° 30' 54.299 W
Position Uncertainty		0.00 ft	Wellhead Elevation:		Ground Level:	5,100.00 ft

Wellbore	P_NBU 921-35O1CS				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	11/08/2010	11.16	65.87	52,378

Design	PLAN #1 11-17-10 RHS			
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	347.27

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	
640.33	6.81	347.27	639.53	19.70	-4.45	2.00	2.00	0.00	347.27	
2,656.98	6.81	347.27	2,641.97	252.83	-57.11	0.00	0.00	0.00	0.00	
3,045.93	0.00	0.00	3,030.00	275.34	-62.20	1.75	-1.75	0.00	180.00	
9,641.93	0.00	0.00	9,626.00	275.34	-62.20	0.00	0.00	0.00	0.00	PBHL_NBU 921-35O

Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well P_NBU 921-35O1CS
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL 5100' & KB 4' @ 5104.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	MD Reference:	GL 5100' & KB 4' @ 5104.00ft (ASSUMED)
Site:	UINTAH_NBU 921-35O PAD	North Reference:	True
Well:	P_NBU 921-35O1CS	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_NBU 921-35O1CS		
Design:	PLAN #1 11-17-10 RHS		

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	
100.00	0.00	0.00	100.00	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	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
Start Build 2.00										
400.00	2.00	347.27	399.98	1.70	-0.38	1.75	2.00	2.00	0.00	
500.00	4.00	347.27	499.84	6.81	-1.54	6.98	2.00	2.00	0.00	
600.00	6.00	347.27	599.45	15.31	-3.46	15.69	2.00	2.00	0.00	
640.33	6.81	347.27	639.53	19.70	-4.45	20.19	2.00	2.00	0.00	
Start 2016.65 hold at 640.33 MD										
700.00	6.81	347.27	698.78	26.59	-6.01	27.26	0.00	0.00	0.00	
800.00	6.81	347.27	798.07	38.15	-8.62	39.12	0.00	0.00	0.00	
900.00	6.81	347.27	897.37	49.71	-11.23	50.97	0.00	0.00	0.00	
1,000.00	6.81	347.27	996.67	61.28	-13.84	62.82	0.00	0.00	0.00	
1,100.00	6.81	347.27	1,095.96	72.84	-16.45	74.67	0.00	0.00	0.00	
1,200.00	6.81	347.27	1,195.26	84.40	-19.06	86.52	0.00	0.00	0.00	
1,300.00	6.81	347.27	1,294.55	95.96	-21.68	98.37	0.00	0.00	0.00	
1,400.00	6.81	347.27	1,393.85	107.52	-24.29	110.23	0.00	0.00	0.00	
1,436.41	6.81	347.27	1,430.00	111.73	-25.24	114.54	0.00	0.00	0.00	
GREEN RIVER										
1,500.00	6.81	347.27	1,493.14	119.08	-26.90	122.08	0.00	0.00	0.00	
1,600.00	6.81	347.27	1,592.44	130.64	-29.51	133.93	0.00	0.00	0.00	
1,700.00	6.81	347.27	1,691.73	142.20	-32.12	145.78	0.00	0.00	0.00	
1,800.00	6.81	347.27	1,791.03	153.76	-34.73	157.63	0.00	0.00	0.00	
1,900.00	6.81	347.27	1,890.32	165.32	-37.34	169.49	0.00	0.00	0.00	
2,000.00	6.81	347.27	1,989.62	176.88	-39.96	181.34	0.00	0.00	0.00	
2,100.00	6.81	347.27	2,088.91	188.44	-42.57	193.19	0.00	0.00	0.00	
2,200.00	6.81	347.27	2,188.21	200.00	-45.18	205.04	0.00	0.00	0.00	
2,300.00	6.81	347.27	2,287.50	211.56	-47.79	216.89	0.00	0.00	0.00	
2,400.00	6.81	347.27	2,386.80	223.12	-50.40	228.74	0.00	0.00	0.00	
2,500.00	6.81	347.27	2,486.09	234.68	-53.01	240.60	0.00	0.00	0.00	
2,550.26	6.81	347.27	2,536.00	240.49	-54.33	246.55	0.00	0.00	0.00	
9 5/8"										
2,600.00	6.81	347.27	2,585.39	246.24	-55.62	252.45	0.00	0.00	0.00	
2,656.98	6.81	347.27	2,641.97	252.83	-57.11	259.20	0.00	0.00	0.00	
Start Drop -1.75										
2,700.00	6.05	347.27	2,684.72	257.53	-58.17	264.02	1.75	-1.75	0.00	
2,800.00	4.30	347.27	2,784.30	266.33	-60.16	273.05	1.75	-1.75	0.00	
2,900.00	2.55	347.27	2,884.12	272.17	-61.48	279.03	1.75	-1.75	0.00	
3,000.00	0.80	347.27	2,984.07	275.03	-62.13	281.96	1.75	-1.75	0.00	
3,045.93	0.00	0.00	3,030.00	275.34	-62.20	282.28	1.75	-1.75	0.00	
Start 6596.00 hold at 3045.93 MD										
3,100.00	0.00	0.00	3,084.07	275.34	-62.20	282.28	0.00	0.00	0.00	
3,200.00	0.00	0.00	3,184.07	275.34	-62.20	282.28	0.00	0.00	0.00	
3,300.00	0.00	0.00	3,284.07	275.34	-62.20	282.28	0.00	0.00	0.00	
3,400.00	0.00	0.00	3,384.07	275.34	-62.20	282.28	0.00	0.00	0.00	
3,500.00	0.00	0.00	3,484.07	275.34	-62.20	282.28	0.00	0.00	0.00	
3,600.00	0.00	0.00	3,584.07	275.34	-62.20	282.28	0.00	0.00	0.00	
3,700.00	0.00	0.00	3,684.07	275.34	-62.20	282.28	0.00	0.00	0.00	
3,800.00	0.00	0.00	3,784.07	275.34	-62.20	282.28	0.00	0.00	0.00	
3,900.00	0.00	0.00	3,884.07	275.34	-62.20	282.28	0.00	0.00	0.00	

Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well P_NBU 921-3501CS
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL 5100' & KB 4' @ 5104.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	MD Reference:	GL 5100' & KB 4' @ 5104.00ft (ASSUMED)
Site:	UINTAH_NBU 921-350 PAD	North Reference:	True
Well:	P_NBU 921-3501CS	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_NBU 921-3501CS		
Design:	PLAN #1 11-17-10 RHS		

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)	
4,000.00	0.00	0.00	3,984.07	275.34	-62.20	282.28	0.00	0.00	0.00	
4,100.00	0.00	0.00	4,084.07	275.34	-62.20	282.28	0.00	0.00	0.00	
4,200.00	0.00	0.00	4,184.07	275.34	-62.20	282.28	0.00	0.00	0.00	
4,300.00	0.00	0.00	4,284.07	275.34	-62.20	282.28	0.00	0.00	0.00	
4,400.00	0.00	0.00	4,384.07	275.34	-62.20	282.28	0.00	0.00	0.00	
4,500.00	0.00	0.00	4,484.07	275.34	-62.20	282.28	0.00	0.00	0.00	
4,600.00	0.00	0.00	4,584.07	275.34	-62.20	282.28	0.00	0.00	0.00	
4,694.93	0.00	0.00	4,679.00	275.34	-62.20	282.28	0.00	0.00	0.00	
WASATCH										
4,700.00	0.00	0.00	4,684.07	275.34	-62.20	282.28	0.00	0.00	0.00	
4,800.00	0.00	0.00	4,784.07	275.34	-62.20	282.28	0.00	0.00	0.00	
4,900.00	0.00	0.00	4,884.07	275.34	-62.20	282.28	0.00	0.00	0.00	
5,000.00	0.00	0.00	4,984.07	275.34	-62.20	282.28	0.00	0.00	0.00	
5,100.00	0.00	0.00	5,084.07	275.34	-62.20	282.28	0.00	0.00	0.00	
5,200.00	0.00	0.00	5,184.07	275.34	-62.20	282.28	0.00	0.00	0.00	
5,300.00	0.00	0.00	5,284.07	275.34	-62.20	282.28	0.00	0.00	0.00	
5,400.00	0.00	0.00	5,384.07	275.34	-62.20	282.28	0.00	0.00	0.00	
5,500.00	0.00	0.00	5,484.07	275.34	-62.20	282.28	0.00	0.00	0.00	
5,600.00	0.00	0.00	5,584.07	275.34	-62.20	282.28	0.00	0.00	0.00	
5,700.00	0.00	0.00	5,684.07	275.34	-62.20	282.28	0.00	0.00	0.00	
5,800.00	0.00	0.00	5,784.07	275.34	-62.20	282.28	0.00	0.00	0.00	
5,900.00	0.00	0.00	5,884.07	275.34	-62.20	282.28	0.00	0.00	0.00	
6,000.00	0.00	0.00	5,984.07	275.34	-62.20	282.28	0.00	0.00	0.00	
6,100.00	0.00	0.00	6,084.07	275.34	-62.20	282.28	0.00	0.00	0.00	
6,200.00	0.00	0.00	6,184.07	275.34	-62.20	282.28	0.00	0.00	0.00	
6,300.00	0.00	0.00	6,284.07	275.34	-62.20	282.28	0.00	0.00	0.00	
6,400.00	0.00	0.00	6,384.07	275.34	-62.20	282.28	0.00	0.00	0.00	
6,500.00	0.00	0.00	6,484.07	275.34	-62.20	282.28	0.00	0.00	0.00	
6,600.00	0.00	0.00	6,584.07	275.34	-62.20	282.28	0.00	0.00	0.00	
6,700.00	0.00	0.00	6,684.07	275.34	-62.20	282.28	0.00	0.00	0.00	
6,800.00	0.00	0.00	6,784.07	275.34	-62.20	282.28	0.00	0.00	0.00	
6,900.00	0.00	0.00	6,884.07	275.34	-62.20	282.28	0.00	0.00	0.00	
7,000.00	0.00	0.00	6,984.07	275.34	-62.20	282.28	0.00	0.00	0.00	
7,100.00	0.00	0.00	7,084.07	275.34	-62.20	282.28	0.00	0.00	0.00	
7,200.00	0.00	0.00	7,184.07	275.34	-62.20	282.28	0.00	0.00	0.00	
7,300.00	0.00	0.00	7,284.07	275.34	-62.20	282.28	0.00	0.00	0.00	
7,399.93	0.00	0.00	7,384.00	275.34	-62.20	282.28	0.00	0.00	0.00	
MESAVERDE										
7,400.00	0.00	0.00	7,384.07	275.34	-62.20	282.28	0.00	0.00	0.00	
7,500.00	0.00	0.00	7,484.07	275.34	-62.20	282.28	0.00	0.00	0.00	
7,600.00	0.00	0.00	7,584.07	275.34	-62.20	282.28	0.00	0.00	0.00	
7,700.00	0.00	0.00	7,684.07	275.34	-62.20	282.28	0.00	0.00	0.00	
7,800.00	0.00	0.00	7,784.07	275.34	-62.20	282.28	0.00	0.00	0.00	
7,900.00	0.00	0.00	7,884.07	275.34	-62.20	282.28	0.00	0.00	0.00	
8,000.00	0.00	0.00	7,984.07	275.34	-62.20	282.28	0.00	0.00	0.00	
8,100.00	0.00	0.00	8,084.07	275.34	-62.20	282.28	0.00	0.00	0.00	
8,200.00	0.00	0.00	8,184.07	275.34	-62.20	282.28	0.00	0.00	0.00	
8,300.00	0.00	0.00	8,284.07	275.34	-62.20	282.28	0.00	0.00	0.00	
8,400.00	0.00	0.00	8,384.07	275.34	-62.20	282.28	0.00	0.00	0.00	
8,500.00	0.00	0.00	8,484.07	275.34	-62.20	282.28	0.00	0.00	0.00	
8,600.00	0.00	0.00	8,584.07	275.34	-62.20	282.28	0.00	0.00	0.00	
8,700.00	0.00	0.00	8,684.07	275.34	-62.20	282.28	0.00	0.00	0.00	

Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well P_NBU 921-35O1CS
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL 5100' & KB 4' @ 5104.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	MD Reference:	GL 5100' & KB 4' @ 5104.00ft (ASSUMED)
Site:	UINTAH_NBU 921-35O PAD	North Reference:	True
Well:	P_NBU 921-35O1CS	Survey Calculation Method:	Minimum Curvature
Wellbore:	P_NBU 921-35O1CS		
Design:	PLAN #1 11-17-10 RHS		

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)	
8,800.00	0.00	0.00	8,784.07	275.34	-62.20	282.28	0.00	0.00	0.00	
8,900.00	0.00	0.00	8,884.07	275.34	-62.20	282.28	0.00	0.00	0.00	
9,000.00	0.00	0.00	8,984.07	275.34	-62.20	282.28	0.00	0.00	0.00	
9,100.00	0.00	0.00	9,084.07	275.34	-62.20	282.28	0.00	0.00	0.00	
9,200.00	0.00	0.00	9,184.07	275.34	-62.20	282.28	0.00	0.00	0.00	
9,300.00	0.00	0.00	9,284.07	275.34	-62.20	282.28	0.00	0.00	0.00	
9,400.00	0.00	0.00	9,384.07	275.34	-62.20	282.28	0.00	0.00	0.00	
9,500.00	0.00	0.00	9,484.07	275.34	-62.20	282.28	0.00	0.00	0.00	
9,600.00	0.00	0.00	9,584.07	275.34	-62.20	282.28	0.00	0.00	0.00	
9,641.93	0.00	0.00	9,626.00	275.34	-62.20	282.28	0.00	0.00	0.00	
PBHL_NBU 921-35O1CS										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
PBHL_NBU 921-35O1C - hit/miss target - Shape - plan hits target center - Circle (radius 25.00)	0.00	0.00	9,626.00	275.34	-62.20	14,524,825.08	2,056,304.02	39° 59' 13.708 N	109° 30' 55.098 W	

Casing Points						
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)		
2,550.26	2,536.00	9 5/8"	9.625	12.250		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,436.41	1,430.00	GREEN RIVER				
4,694.93	4,679.00	WASATCH				
7,399.93	7,384.00	MESAVERDE				

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Comment	
300.00	300.00	0.00	0.00	Start Build 2.00	
640.33	639.53	19.70	-4.45	Start 2016.65 hold at 640.33 MD	
2,656.98	2,641.97	252.83	-57.11	Start Drop -1.75	
3,045.93	3,030.00	275.34	-62.20	Start 6596.00 hold at 3045.93 MD	
9,641.93	9,626.00	275.34	-62.20	TD at 9641.93	



Scientific Drilling
Rocky Mountain Operations

US ROCKIES REGION PLANNING

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

UINTAH_NBU 921-350 PAD

P_NBU 921-3501CS

P_NBU 921-3501CS

Plan: PLAN #1 11-17-10 RHS

Survey Report - Geographic

17 November, 2010



Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well P_NBU 921-3501CS
Project:	UTAH - UTM (feet), NAD27, Zone 12N	TVD Reference:	GL 5100' & KB 4' @ 5104.00ft (ASSUMED)
Site:	UINTAH_NBU 921-350 PAD	MD Reference:	GL 5100' & KB 4' @ 5104.00ft (ASSUMED)
Well:	P_NBU 921-3501CS	North Reference:	True
Wellbore:	P_NBU 921-3501CS	Survey Calculation Method:	Minimum Curvature
Design:	PLAN #1 11-17-10 RHS	Database:	EDM5000-RobertS-Local

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	UINTAH_NBU 921-350 PAD, SECTION 35 T9S R21E				
Site Position:		Northing:	14,524,559.98 usft	Latitude:	39° 59' 11.076 N
From:	Lat/Long	Easting:	2,056,374.00 usft	Longitude:	109° 30' 54.256 W
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence:	0.95 °

Well	P_NBU 921-3501CS, 398 FSL 1766 FEL					
Well Position	+N/-S	0.00 ft	Northing:	14,524,550.82 usft	Latitude:	39° 59' 10.986 N
	+E/-W	0.00 ft	Easting:	2,056,370.79 usft	Longitude:	109° 30' 54.299 W
Position Uncertainty	0.00 ft	Wellhead Elevation:	ft	Ground Level:	5,100.00 ft	

Wellbore	P_NBU 921-3501CS				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	11/08/2010	11.16	65.87	52,378

Design	PLAN #1 11-17-10 RHS				
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	347.27	

Survey Tool Program	Date	11/08/2010			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
0.00	9,641.93	PLAN #1 11-17-10 RHS (P_NBU 921-350)	SDI MWD	SDI MWD - Standard ver 1.0.1	

Planned Survey											
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude		
0.00	0.00	0.00	0.00	0.00	0.00	14,524,550.82	2,056,370.79	39° 59' 10.986 N	109° 30' 54.299 W		
100.00	0.00	0.00	100.00	0.00	0.00	14,524,550.82	2,056,370.79	39° 59' 10.986 N	109° 30' 54.299 W		
200.00	0.00	0.00	200.00	0.00	0.00	14,524,550.82	2,056,370.79	39° 59' 10.986 N	109° 30' 54.299 W		
300.00	0.00	0.00	300.00	0.00	0.00	14,524,550.82	2,056,370.79	39° 59' 10.986 N	109° 30' 54.299 W		
Start Build 2.00											
400.00	2.00	347.27	399.98	1.70	-0.38	14,524,552.52	2,056,370.38	39° 59' 11.003 N	109° 30' 54.304 W		
500.00	4.00	347.27	499.84	6.81	-1.54	14,524,557.60	2,056,369.14	39° 59' 11.053 N	109° 30' 54.319 W		
600.00	6.00	347.27	599.45	15.31	-3.46	14,524,566.07	2,056,367.08	39° 59' 11.137 N	109° 30' 54.343 W		
640.33	6.81	347.27	639.53	19.70	-4.45	14,524,570.44	2,056,366.01	39° 59' 11.181 N	109° 30' 54.356 W		
Start 2016.65 hold at 640.33 MD											

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well P_NBU 921-35O1CS
Project:	UTAH - UTM (feet), NAD27, Zone 12N	TVD Reference:	GL 5100' & KB 4' @ 5104.00ft (ASSUMED)
Site:	UINTAH_NBU 921-35O PAD	MD Reference:	GL 5100' & KB 4' @ 5104.00ft (ASSUMED)
Well:	P_NBU 921-35O1CS	North Reference:	True
Wellbore:	P_NBU 921-35O1CS	Survey Calculation Method:	Minimum Curvature
Design:	PLAN #1 11-17-10 RHS	Database:	EDM5000-RobertS-Local

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
700.00	6.81	347.27	698.78	26.59	-6.01	14,524,577.31	2,056,364.34	39° 59' 11.249 N	109° 30' 54.376 W	
800.00	6.81	347.27	798.07	38.15	-8.62	14,524,588.82	2,056,361.54	39° 59' 11.363 N	109° 30' 54.410 W	
900.00	6.81	347.27	897.37	49.71	-11.23	14,524,600.34	2,056,358.73	39° 59' 11.477 N	109° 30' 54.443 W	
1,000.00	6.81	347.27	996.67	61.28	-13.84	14,524,611.86	2,056,355.93	39° 59' 11.592 N	109° 30' 54.477 W	
1,100.00	6.81	347.27	1,095.96	72.84	-16.45	14,524,623.37	2,056,353.13	39° 59' 11.706 N	109° 30' 54.510 W	
1,200.00	6.81	347.27	1,195.26	84.40	-19.06	14,524,634.89	2,056,350.32	39° 59' 11.820 N	109° 30' 54.544 W	
1,300.00	6.81	347.27	1,294.55	95.96	-21.68	14,524,646.40	2,056,347.52	39° 59' 11.934 N	109° 30' 54.577 W	
1,400.00	6.81	347.27	1,393.85	107.52	-24.29	14,524,657.92	2,056,344.72	39° 59' 12.049 N	109° 30' 54.611 W	
1,436.41	6.81	347.27	1,430.00	111.73	-25.24	14,524,662.11	2,056,343.69	39° 59' 12.090 N	109° 30' 54.623 W	
GREEN RIVER										
1,500.00	6.81	347.27	1,493.14	119.08	-26.90	14,524,669.43	2,056,341.91	39° 59' 12.163 N	109° 30' 54.644 W	
1,600.00	6.81	347.27	1,592.44	130.64	-29.51	14,524,680.95	2,056,339.11	39° 59' 12.277 N	109° 30' 54.678 W	
1,700.00	6.81	347.27	1,691.73	142.20	-32.12	14,524,692.46	2,056,336.30	39° 59' 12.392 N	109° 30' 54.712 W	
1,800.00	6.81	347.27	1,791.03	153.76	-34.73	14,524,703.98	2,056,333.50	39° 59' 12.506 N	109° 30' 54.745 W	
1,900.00	6.81	347.27	1,890.32	165.32	-37.34	14,524,715.49	2,056,330.70	39° 59' 12.620 N	109° 30' 54.779 W	
2,000.00	6.81	347.27	1,989.62	176.88	-39.96	14,524,727.01	2,056,327.89	39° 59' 12.734 N	109° 30' 54.812 W	
2,100.00	6.81	347.27	2,088.91	188.44	-42.57	14,524,738.53	2,056,325.09	39° 59' 12.849 N	109° 30' 54.846 W	
2,200.00	6.81	347.27	2,188.21	200.00	-45.18	14,524,750.04	2,056,322.29	39° 59' 12.963 N	109° 30' 54.879 W	
2,300.00	6.81	347.27	2,287.50	211.56	-47.79	14,524,761.56	2,056,319.48	39° 59' 13.077 N	109° 30' 54.913 W	
2,400.00	6.81	347.27	2,386.80	223.12	-50.40	14,524,773.07	2,056,316.68	39° 59' 13.191 N	109° 30' 54.946 W	
2,500.00	6.81	347.27	2,486.09	234.68	-53.01	14,524,784.59	2,056,313.88	39° 59' 13.306 N	109° 30' 54.980 W	
2,550.26	6.81	347.27	2,536.00	240.49	-54.33	14,524,790.37	2,056,312.47	39° 59' 13.363 N	109° 30' 54.997 W	
9 5/8"										
2,600.00	6.81	347.27	2,585.39	246.24	-55.62	14,524,796.10	2,056,311.07	39° 59' 13.420 N	109° 30' 55.014 W	
2,656.98	6.81	347.27	2,641.97	252.83	-57.11	14,524,802.66	2,056,309.47	39° 59' 13.485 N	109° 30' 55.033 W	
Start Drop -1.75										
2,700.00	6.05	347.27	2,684.72	257.53	-58.17	14,524,807.34	2,056,308.33	39° 59' 13.532 N	109° 30' 55.046 W	
2,800.00	4.30	347.27	2,784.30	266.33	-60.16	14,524,816.11	2,056,306.20	39° 59' 13.619 N	109° 30' 55.072 W	
2,900.00	2.55	347.27	2,884.12	272.17	-61.48	14,524,821.93	2,056,304.78	39° 59' 13.676 N	109° 30' 55.089 W	
3,000.00	0.80	347.27	2,984.07	275.03	-62.13	14,524,824.77	2,056,304.09	39° 59' 13.704 N	109° 30' 55.097 W	
3,045.93	0.00	0.00	3,030.00	275.34	-62.20	14,524,825.08	2,056,304.02	39° 59' 13.708 N	109° 30' 55.098 W	
Start 6596.00 hold at 3045.93 MD										
3,100.00	0.00	0.00	3,084.07	275.34	-62.20	14,524,825.08	2,056,304.02	39° 59' 13.708 N	109° 30' 55.098 W	
3,200.00	0.00	0.00	3,184.07	275.34	-62.20	14,524,825.08	2,056,304.02	39° 59' 13.708 N	109° 30' 55.098 W	
3,300.00	0.00	0.00	3,284.07	275.34	-62.20	14,524,825.08	2,056,304.02	39° 59' 13.708 N	109° 30' 55.098 W	
3,400.00	0.00	0.00	3,384.07	275.34	-62.20	14,524,825.08	2,056,304.02	39° 59' 13.708 N	109° 30' 55.098 W	
3,500.00	0.00	0.00	3,484.07	275.34	-62.20	14,524,825.08	2,056,304.02	39° 59' 13.708 N	109° 30' 55.098 W	
3,600.00	0.00	0.00	3,584.07	275.34	-62.20	14,524,825.08	2,056,304.02	39° 59' 13.708 N	109° 30' 55.098 W	
3,700.00	0.00	0.00	3,684.07	275.34	-62.20	14,524,825.08	2,056,304.02	39° 59' 13.708 N	109° 30' 55.098 W	
3,800.00	0.00	0.00	3,784.07	275.34	-62.20	14,524,825.08	2,056,304.02	39° 59' 13.708 N	109° 30' 55.098 W	
3,900.00	0.00	0.00	3,884.07	275.34	-62.20	14,524,825.08	2,056,304.02	39° 59' 13.708 N	109° 30' 55.098 W	
4,000.00	0.00	0.00	3,984.07	275.34	-62.20	14,524,825.08	2,056,304.02	39° 59' 13.708 N	109° 30' 55.098 W	
4,100.00	0.00	0.00	4,084.07	275.34	-62.20	14,524,825.08	2,056,304.02	39° 59' 13.708 N	109° 30' 55.098 W	
4,200.00	0.00	0.00	4,184.07	275.34	-62.20	14,524,825.08	2,056,304.02	39° 59' 13.708 N	109° 30' 55.098 W	
4,300.00	0.00	0.00	4,284.07	275.34	-62.20	14,524,825.08	2,056,304.02	39° 59' 13.708 N	109° 30' 55.098 W	
4,400.00	0.00	0.00	4,384.07	275.34	-62.20	14,524,825.08	2,056,304.02	39° 59' 13.708 N	109° 30' 55.098 W	
4,500.00	0.00	0.00	4,484.07	275.34	-62.20	14,524,825.08	2,056,304.02	39° 59' 13.708 N	109° 30' 55.098 W	
4,600.00	0.00	0.00	4,584.07	275.34	-62.20	14,524,825.08	2,056,304.02	39° 59' 13.708 N	109° 30' 55.098 W	
4,694.93	0.00	0.00	4,679.00	275.34	-62.20	14,524,825.08	2,056,304.02	39° 59' 13.708 N	109° 30' 55.098 W	
WASATCH										
4,700.00	0.00	0.00	4,684.07	275.34	-62.20	14,524,825.08	2,056,304.02	39° 59' 13.708 N	109° 30' 55.098 W	
4,800.00	0.00	0.00	4,784.07	275.34	-62.20	14,524,825.08	2,056,304.02	39° 59' 13.708 N	109° 30' 55.098 W	

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well P_NBU 921-35O1CS
Project:	UTAH - UTM (feet), NAD27, Zone 12N	TVD Reference:	GL 5100' & KB 4' @ 5104.00ft (ASSUMED)
Site:	UINTAH_NBU 921-35O PAD	MD Reference:	GL 5100' & KB 4' @ 5104.00ft (ASSUMED)
Well:	P_NBU 921-35O1CS	North Reference:	True
Wellbore:	P_NBU 921-35O1CS	Survey Calculation Method:	Minimum Curvature
Design:	PLAN #1 11-17-10 RHS	Database:	EDM5000-RobertS-Local

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
4,900.00	0.00	0.00	4,884.07	275.34	-62.20	14,524,825.08	2,056,304.02	39° 59' 13.708 N	109° 30' 55.098 W	
5,000.00	0.00	0.00	4,984.07	275.34	-62.20	14,524,825.08	2,056,304.02	39° 59' 13.708 N	109° 30' 55.098 W	
5,100.00	0.00	0.00	5,084.07	275.34	-62.20	14,524,825.08	2,056,304.02	39° 59' 13.708 N	109° 30' 55.098 W	
5,200.00	0.00	0.00	5,184.07	275.34	-62.20	14,524,825.08	2,056,304.02	39° 59' 13.708 N	109° 30' 55.098 W	
5,300.00	0.00	0.00	5,284.07	275.34	-62.20	14,524,825.08	2,056,304.02	39° 59' 13.708 N	109° 30' 55.098 W	
5,400.00	0.00	0.00	5,384.07	275.34	-62.20	14,524,825.08	2,056,304.02	39° 59' 13.708 N	109° 30' 55.098 W	
5,500.00	0.00	0.00	5,484.07	275.34	-62.20	14,524,825.08	2,056,304.02	39° 59' 13.708 N	109° 30' 55.098 W	
5,600.00	0.00	0.00	5,584.07	275.34	-62.20	14,524,825.08	2,056,304.02	39° 59' 13.708 N	109° 30' 55.098 W	
5,700.00	0.00	0.00	5,684.07	275.34	-62.20	14,524,825.08	2,056,304.02	39° 59' 13.708 N	109° 30' 55.098 W	
5,800.00	0.00	0.00	5,784.07	275.34	-62.20	14,524,825.08	2,056,304.02	39° 59' 13.708 N	109° 30' 55.098 W	
5,900.00	0.00	0.00	5,884.07	275.34	-62.20	14,524,825.08	2,056,304.02	39° 59' 13.708 N	109° 30' 55.098 W	
6,000.00	0.00	0.00	5,984.07	275.34	-62.20	14,524,825.08	2,056,304.02	39° 59' 13.708 N	109° 30' 55.098 W	
6,100.00	0.00	0.00	6,084.07	275.34	-62.20	14,524,825.08	2,056,304.02	39° 59' 13.708 N	109° 30' 55.098 W	
6,200.00	0.00	0.00	6,184.07	275.34	-62.20	14,524,825.08	2,056,304.02	39° 59' 13.708 N	109° 30' 55.098 W	
6,300.00	0.00	0.00	6,284.07	275.34	-62.20	14,524,825.08	2,056,304.02	39° 59' 13.708 N	109° 30' 55.098 W	
6,400.00	0.00	0.00	6,384.07	275.34	-62.20	14,524,825.08	2,056,304.02	39° 59' 13.708 N	109° 30' 55.098 W	
6,500.00	0.00	0.00	6,484.07	275.34	-62.20	14,524,825.08	2,056,304.02	39° 59' 13.708 N	109° 30' 55.098 W	
6,600.00	0.00	0.00	6,584.07	275.34	-62.20	14,524,825.08	2,056,304.02	39° 59' 13.708 N	109° 30' 55.098 W	
6,700.00	0.00	0.00	6,684.07	275.34	-62.20	14,524,825.08	2,056,304.02	39° 59' 13.708 N	109° 30' 55.098 W	
6,800.00	0.00	0.00	6,784.07	275.34	-62.20	14,524,825.08	2,056,304.02	39° 59' 13.708 N	109° 30' 55.098 W	
6,900.00	0.00	0.00	6,884.07	275.34	-62.20	14,524,825.08	2,056,304.02	39° 59' 13.708 N	109° 30' 55.098 W	
7,000.00	0.00	0.00	6,984.07	275.34	-62.20	14,524,825.08	2,056,304.02	39° 59' 13.708 N	109° 30' 55.098 W	
7,100.00	0.00	0.00	7,084.07	275.34	-62.20	14,524,825.08	2,056,304.02	39° 59' 13.708 N	109° 30' 55.098 W	
7,200.00	0.00	0.00	7,184.07	275.34	-62.20	14,524,825.08	2,056,304.02	39° 59' 13.708 N	109° 30' 55.098 W	
7,300.00	0.00	0.00	7,284.07	275.34	-62.20	14,524,825.08	2,056,304.02	39° 59' 13.708 N	109° 30' 55.098 W	
7,399.93	0.00	0.00	7,384.00	275.34	-62.20	14,524,825.08	2,056,304.02	39° 59' 13.708 N	109° 30' 55.098 W	
MESAVERDE										
7,400.00	0.00	0.00	7,384.07	275.34	-62.20	14,524,825.08	2,056,304.02	39° 59' 13.708 N	109° 30' 55.098 W	
7,500.00	0.00	0.00	7,484.07	275.34	-62.20	14,524,825.08	2,056,304.02	39° 59' 13.708 N	109° 30' 55.098 W	
7,600.00	0.00	0.00	7,584.07	275.34	-62.20	14,524,825.08	2,056,304.02	39° 59' 13.708 N	109° 30' 55.098 W	
7,700.00	0.00	0.00	7,684.07	275.34	-62.20	14,524,825.08	2,056,304.02	39° 59' 13.708 N	109° 30' 55.098 W	
7,800.00	0.00	0.00	7,784.07	275.34	-62.20	14,524,825.08	2,056,304.02	39° 59' 13.708 N	109° 30' 55.098 W	
7,900.00	0.00	0.00	7,884.07	275.34	-62.20	14,524,825.08	2,056,304.02	39° 59' 13.708 N	109° 30' 55.098 W	
8,000.00	0.00	0.00	7,984.07	275.34	-62.20	14,524,825.08	2,056,304.02	39° 59' 13.708 N	109° 30' 55.098 W	
8,100.00	0.00	0.00	8,084.07	275.34	-62.20	14,524,825.08	2,056,304.02	39° 59' 13.708 N	109° 30' 55.098 W	
8,200.00	0.00	0.00	8,184.07	275.34	-62.20	14,524,825.08	2,056,304.02	39° 59' 13.708 N	109° 30' 55.098 W	
8,300.00	0.00	0.00	8,284.07	275.34	-62.20	14,524,825.08	2,056,304.02	39° 59' 13.708 N	109° 30' 55.098 W	
8,400.00	0.00	0.00	8,384.07	275.34	-62.20	14,524,825.08	2,056,304.02	39° 59' 13.708 N	109° 30' 55.098 W	
8,500.00	0.00	0.00	8,484.07	275.34	-62.20	14,524,825.08	2,056,304.02	39° 59' 13.708 N	109° 30' 55.098 W	
8,600.00	0.00	0.00	8,584.07	275.34	-62.20	14,524,825.08	2,056,304.02	39° 59' 13.708 N	109° 30' 55.098 W	
8,700.00	0.00	0.00	8,684.07	275.34	-62.20	14,524,825.08	2,056,304.02	39° 59' 13.708 N	109° 30' 55.098 W	
8,800.00	0.00	0.00	8,784.07	275.34	-62.20	14,524,825.08	2,056,304.02	39° 59' 13.708 N	109° 30' 55.098 W	
8,900.00	0.00	0.00	8,884.07	275.34	-62.20	14,524,825.08	2,056,304.02	39° 59' 13.708 N	109° 30' 55.098 W	
9,000.00	0.00	0.00	8,984.07	275.34	-62.20	14,524,825.08	2,056,304.02	39° 59' 13.708 N	109° 30' 55.098 W	
9,100.00	0.00	0.00	9,084.07	275.34	-62.20	14,524,825.08	2,056,304.02	39° 59' 13.708 N	109° 30' 55.098 W	
9,200.00	0.00	0.00	9,184.07	275.34	-62.20	14,524,825.08	2,056,304.02	39° 59' 13.708 N	109° 30' 55.098 W	
9,300.00	0.00	0.00	9,284.07	275.34	-62.20	14,524,825.08	2,056,304.02	39° 59' 13.708 N	109° 30' 55.098 W	
9,400.00	0.00	0.00	9,384.07	275.34	-62.20	14,524,825.08	2,056,304.02	39° 59' 13.708 N	109° 30' 55.098 W	
9,500.00	0.00	0.00	9,484.07	275.34	-62.20	14,524,825.08	2,056,304.02	39° 59' 13.708 N	109° 30' 55.098 W	
9,600.00	0.00	0.00	9,584.07	275.34	-62.20	14,524,825.08	2,056,304.02	39° 59' 13.708 N	109° 30' 55.098 W	
9,641.93	0.00	0.00	9,626.00	275.34	-62.20	14,524,825.08	2,056,304.02	39° 59' 13.708 N	109° 30' 55.098 W	
PBHL_NBU 921-35O1CS										

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well P_NBU 921-3501CS
Project:	UTAH - UTM (feet), NAD27, Zone 12N	TVD Reference:	GL 5100' & KB 4' @ 5104.00ft (ASSUMED)
Site:	UINTAH_NBU 921-350 PAD	MD Reference:	GL 5100' & KB 4' @ 5104.00ft (ASSUMED)
Well:	P_NBU 921-3501CS	North Reference:	True
Wellbore:	P_NBU 921-3501CS	Survey Calculation Method:	Minimum Curvature
Design:	PLAN #1 11-17-10 RHS	Database:	EDM5000-RobertS-Local

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PBHL_NBU 921-3501C - plan hits target center - Circle (radius 25.00)	0.00	0.00	9,626.00	275.34	-62.20	14,524,825.08	2,056,304.02	39° 59' 13.708 N	109° 30' 55.098 W

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)	
2,550.26	2,536.00	9 5/8"	9.625	12.250	

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,436.41	1,430.00	GREEN RIVER			
4,694.93	4,679.00	WASATCH			
7,399.93	7,384.00	MESAVERDE			

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment	
		+N/-S (ft)	+E/-W (ft)		
300	300	0	0	Start Build 2.00	
640	640	20	-4	Start 2016.65 hold at 640.33 MD	
2657	2642	253	-57	Start Drop -1.75	
3046	3030	275	-62	Start 6596.00 hold at 3045.93 MD	
9642	9626	275	-62	TD at 9641.93	

Checked By: _____ Approved By: _____ Date: _____

NBU 921-35N4BS

Surface: 388' FSL 1,770' FEL (SW/4SE/4) Lot 2
BHL: 410' FSL 2,164' FWL (SE/4SW/4) Lot 3
Mineral Lease: UO 1194 ST

NBU 921-35N4CS

Surface: 379' FSL 1,773' FEL (SW/4SE/4) Lot 2
BHL: 51' FSL 2,153' FWL (SE/4SW/4) Lot 3
Mineral Lease: UO 1194 ST

NBU 921-35O1BS

Surface: 407' FSL 1,763' FEL (SW/4SE/4) Lot 2
BHL: 1,059' FSL 1,833' FEL (SW/4SE/4) Lot 2
Mineral Lease: ML 22582

NBU 921-35O1CS

Surface: 398' FSL 1,766' FEL (SW/4SE/4) Lot 2
BHL: 674' FSL 1,828' FEL (SW/4SE/4) Lot 2
Mineral Lease: ML 22582

NBU 921-35O4BS

Surface: 370' FSL 1,777' FEL (SW/4SE/4) Lot 2
BHL: 336' FSL 1,833' FEL (SW/4SE/4) Lot 2
Mineral Lease: ML 22582

NBU 921-35O4CS

Surface: 360' FSL 1,780' FEL (SW/4SE/4) Lot 2
BHL: 26' FSL 1,826' FEL (SW/4SE/4) Lot 2
Mineral Lease: ML 22582

Pad: NBU 921-35O
Section 35 T9S R21E

Uintah County, Utah
Operator: Kerr-McGee Oil & Gas Onshore LP

MULTI-POINT SURFACE USE PLAN of OPERATIONS (SUPO)

This SUPO contains surface operating procedures for Kerr-McGee Oil & Gas Onshore LP (KMG), a wholly owned subsidiary of Anadarko Petroleum Corporation (APC) pertaining to actions that involve the State of Utah School and Institutional Trust Lands Administration (SITLA) in the development of minerals leased to APC/KMG (including, but not limited to, APDs/SULAs/ROEs/ROWs and/or easements).

See associated Utah Division of Oil, Gas, and Mining (UDOGM) Form 3(s), plats, maps, and other attachments for site-specific information on projects represented herein.

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.

A. Existing Roads:

Existing roads consist of county roads and improved/unimproved lease roads. APC/KMG will maintain existing roads in a condition that is the same as or better than before operations began and in a safe and usable condition. Maintenance of existing roads will continue until final abandonment and reclamation of well pads and/or other facilities. The road maintenance may include, but is not limited to, blading, ditching, culvert installation/cleanout, surfacing, and dust control.

Typically, roads, gathering lines and electrical distribution lines will occupy common disturbance corridors and roadways will be used as working space. All disturbances located in the same corridor will overlap each other to the maximum extent possible; in no case will the maximum disturbance width of the access road and

utility corridors exceed 50', unless otherwise approved.

B. Planned Access Roads:

Approximately $\pm 385'$ (0.07 miles) of road re-route is proposed (see Topo Map B). Applicable Uintah County encroachment and/or pipeline crossing permits will be obtained prior to construction/development. No other pipelines will be crossed at this location.

Where roads are new or to be reconstructed, they will be located, designed, and maintained to meet the standards of SITLA and other commonly accepted Best Management Practices (BMPs). If a new road/corridor were to cross a water of the United States, KMG will adhere to the requirements of applicable Nationwide or Individual Permits of the Department of Army Corps of Engineers.

Turnouts; major cut and fills; culverts; bridges; gates; cattle guards; low water crossings; or modifications needed to existing infrastructure/facilities were determined at the on-site and, as applicable, are typically shown on attached Exhibits and Topo maps.

C. Location of Existing and Proposed Facilities:

This pad will expand the existing pad for the CIGE 133. This well location is a vertical producing well according to Utah Division of Oil, Gas and Mining (UDOGM) records as of November 11, 2010.

Production facilities (see Well Pad Design Summary and Facilities Diagram):

Production facilities will be installed on the disturbed portion of each well pad and may include bermed components (typically excluding dehy's and/or separators) that contain fluids (i.e. production tanks, produced liquids tanks). The berms will be constructed of compacted subsoil or corrugated metal, impervious, designed to hold 110% of the capacity of the largest tank, and be independent of the back cut. All permanent (on-site six months or longer) aboveground structures constructed or installed, including pumping units, will be painted a flat, non-reflective, earth-tone color chosen at the onsite in coordination with SITLA.

Production 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 are not to be used for disposal of liquids from additional sources without prior approval of UDOGM.

Gathering facilities:

The following pipeline transmission facilities will apply if the well is productive (see Topo D):

The total gas gathering (steel line pipe with fusion bond epoxy coating) pipeline distances from the meter to the tie in point is $\pm 1,570'$ and the individual segments are broken up as follows:

- $\pm 60'$ (0.01 miles) –New 8" buried gas pipeline from the meter to the edge of the pad.
- $\pm 210'$ (0.04 miles) –New 8" buried gas pipeline from the edge of pad to the NBU 921-35M pad intersection.
- $\pm 540'$ (0.1 miles) –New 12" buried gas pipeline from the NBU 921-35M pad intersection to the NBU 921-35P pad intersection.
- $\pm 760'$ (0.1 miles) –Re-route 4" buried gas pipeline around the well pad.

The total liquid gathering pipeline distance from the separator to the tie in point is $\pm 570'$ and the individual segments are broken up as follows:

- $\pm 60'$ (0.01 miles) –New 6” buried liquid pipeline from the meter to the edge of the pad.
- $\pm 210'$ (0.04 miles) –New 6” buried liquid pipeline from the edge of pad to the NBU 921-35P pad intersection.
- $\pm 300'$ (0.06 miles) –New 6” buried liquid pipeline from the NBU 921-35P pad intersection to the NBU 921-35M pad intersection.

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.

The proposed pipelines will be buried and will include gas gathering and liquid gathering pipelines in the same trench. 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. Kerr-McGee requests a permanent 30' right-of-way adjacent to the road for life-of-project for maintenance, repairs, and/or upgrades, no additional right-of-way will be needed beyond the 30'. Where the pipeline is not adjacent to the road or well pad, Kerr-McGee requests a temporary 45' construction right-of-way and 30' permanent right-of-way.

The proposed trench width for the pipeline would range from 18-48 inches and will be excavated to a depth of 48 to 60 inches of normal soil cover or 24 inches of cover in consolidated rock. During construction blasting may occur along the proposed right-of-way where trenching equipment cannot cut into the bedrock. Large debris and rocks removed from the earth during trenching and blasting that could not be returned to the trench would be distributed evenly and naturally in the project area. The proposed pipelines will be pressure tested pneumatically (depending on size) or with fluids (either fresh or produced). If fluids are used, there will be no discharge to the surface.

Pipeline signs will be installed along the right-of-way to indicate the pipeline proximity, ownership, and to provide emergency contact phone numbers. Above ground valves, T's, and/or cathodic protection will be installed at various locations for connection, corrosion prevention and/or for safety purposes.

D. Location and Type of Water Supply:

Water for drilling purposes will be obtained from one of the following sources:

- Dalbo Inc.'s underground well located in Ouray, Utah, Sec. 32 T4S R3E, Water User Claim number 43-8496, application number 53617.
- Price Water Pumping Inc. Green River and White River, various sources, Water Right Number 49-1659, application number: a35745.

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.

E. Source of Construction Materials:

Construction operations will typically be completed with native materials found on location. If needed, 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 and described in subsequent Sundry requests. No construction materials will be removed from State lands without prior approval from SITLA.

F. Methods of Handling Waste Materials:

Should the well be productive, produced water will be contained in a water tank and will be transported by pipeline and/or truck to an approved disposal sites facilities and/or Salt Water Disposal (SWD) injection well. Currently, those facilities are:

- RNI in Sec. 5 T9S R22E
- 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
- Ouray #1 SWD in Sec. 1 T9S R21E
- 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. 33 T9S R21E
- NBU 921-34L SWD in Sec. 34 T9S R21E

Drill cuttings and/or fluids will be contained in the reserve/frac pit. Cuttings will be buried in pit(s) upon closure. Unless otherwise approved, 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 runoff. Should fluid hydrocarbons be encountered during drilling, completions or well testing, product 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 SITLA. Should timely removal prove infeasible, the pit will be netted with mesh no larger than 1 inch until such time as hydrocarbons can be removed. Hydrocarbon removal will also take place prior to the closure of the pit, unless authorization is provided for disposal via alternative pit closure methods (e.g. solidification).

The reserve and/or fracture stimulation pit will be lined with a synthetic material 20-mil or thicker, 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. Any additional pits necessary to 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.

For the protection of livestock and wildlife, all open pits and cellars will be fenced/covered 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.

Pits containing drilling cuttings, mud, and/or completions fluids will be allowed to dry. Any free fluids remaining after six (6) months 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. Additional drying methods may include fly-ash solidification or sprinkler evaporation. Installation and operation of any sprinklers, pumps, and equipment will ensure that water spray or mist does not drift. Reserve pit liners will be cut off or folded as near to the mud surface as possible and as safety considerations allow and buried on location.

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 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.

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.

Any undesirable event, accidental release, or in excess of reportable quantities will be managed according to the notification requirements of UDOGMs "Reporting Oil and Gas Undesirable Events" rule, and, where State wells are participatory to a Federal agreement, according to NTL-3A.

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.

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 and may be kept in limited quantities on drilling sites and well locations for short periods of time during drilling or completion activities.

G. Ancillary Facilities:

None are anticipated.

H. Well Site Layout (see Well Pad Design Summary):

The location, orientation and aerial extent of each drill pad; reserve/completion/flare pit; 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 and facility layout; however, the area of disturbance, as described in the survey, will not be exceeded.

Coordinates are provided in the National Spatial Reference System, North American Datum, 1983 (NAD83) or latest edition. Distances are depicted on each plat to the nearest two adjacent section lines.

I. Plans for Reclamation of the Surface:

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. This 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 are not limited to: 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 includes pit closure, re-contouring (where possible), soil bed preparation, topsoil placement, seeding, and/or weed control.

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.

Final Reclamation

Final reclamation will be performed for newly drilled unproductive wells and/or at 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 APC/KMG. The primary purpose of this inspection will be to review the existing conditions, or agree upon a revised final reclamation and abandonment plan. 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, final grading will be conducted over the entire surface of the well site and access road. Where practical, the area will be ripped to a depth of 18 to 24 inches on 18 to 24-inch centers and surface materials will be pitted with small depressions to form longitudinal depressions 12 to 18 inches deep perpendicular to the natural flow of water.

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.

Upon successfully completing reclamation of a P&A location, a Final Abandonment Notice will be submitted to UDOGM.

Seeding and Measures Common to Interim and Final Reclamation

Reclaimed areas may be fenced to exclude grazing and encourage re-vegetation.

On slopes where severe erosion can become a problem and the use of machinery is not practical, seed will be hand broadcast and raked with twice the specified amount of seed. The slope 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 and bonded fiber matrix at a rate to achieve a minimum of 80 percent soil coverage.

Seeding will occur year-round as conditions allow. 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 site specific seed mix will be provided by SITLA.

J. Surface/Mineral Ownership:

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

K. Other Information:

None

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

Danielle Piernot
Regulatory Analyst I
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 for State lease activities is provided by State Surety Bond 22013542, and for applicable Federal lease activities and pursuant to 43 CFR 3104, 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

November 19, 2010
Date



Kerr-McGee Oil & Gas Onshore LP
PO Box 173779
DENVER, CO 80217-3779

October 27, 2010

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

Re: Directional Drilling R649-3-11
NBU 921-35O1CS
T9S-R21E
Section 35: SWSE (Surf), SWSE (Bottom)
Surface: 398' FSL, 1766' FEL
Bottom Hole: 674' FSL, 1828' FEL
Uintah County, Utah

Dear Ms. Mason:

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

- Kerr-McGee's NBU 921-35O1CS is located within the Natural Buttes Unit area.
- Kerr-McGee is permitting this well as a directional well in order to minimize surface disturbance. Locating the well at the surface location and directionally drilling from this location, Kerr-McGee will be able to utilize the existing road and pipelines in the area.
- Furthermore, Kerr-McGee certifies that it is the sole working interest owner within 460 feet of the entire directional well bore.

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

Sincerely,

KERR-MCGEE OIL & GAS ONSHORE LP

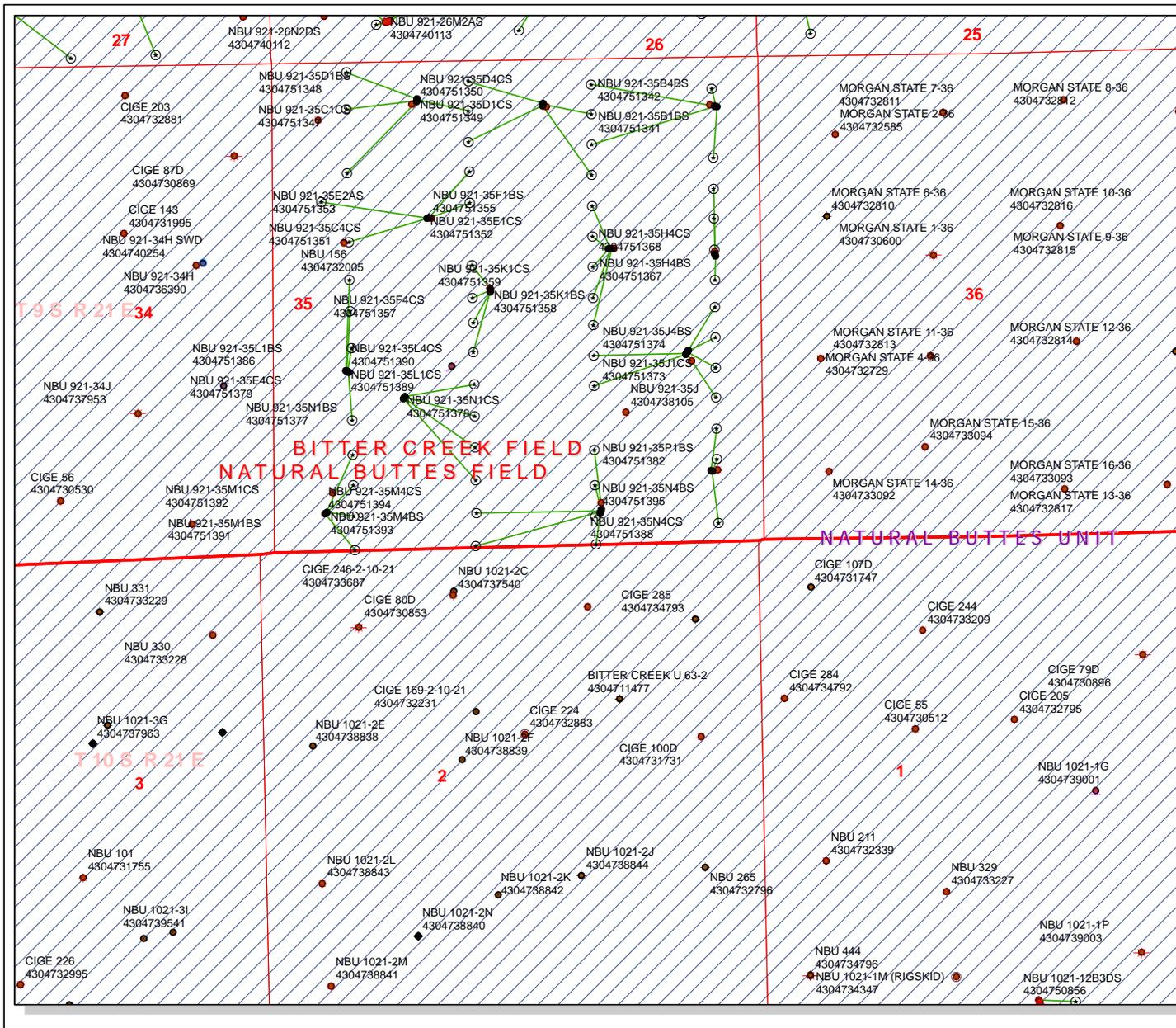
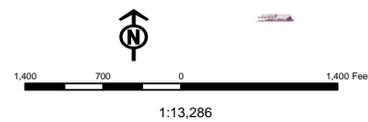
A handwritten signature in blue ink that reads 'Joe Matney'.

Joe Matney
Sr. Staff Landman

API Number: 4304751385
Well Name: NBU 921-3501CS
Township 09.0 S Range 21.0 E Section 35
Meridian: SLBM
 Operator: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Map Prepared:
 Map Produced by Diana Mason

Units	Wells Query
STATUS	<-all other values-->
ACTIVE	APD - Approved Permit
EXPLORATORY	DRL - Spudded (Drilling Commenced)
GAS STORAGE	GIW - Gas Injection
NF PP OIL	GS - Gas Storage
NF SECONDARY	LA - Location Abandoned
PI OIL	LOC - New Location
PP GAS	OPS - Operation Suspended
PP GEOTHERML	PA - Plugged Abandoned
PP OIL	PGW - Producing Gas Well
SECONDARY	POW - Producing Oil Well
TERMINATED	RET - Retired APD
Fields	SGW - Shut-in Gas Well
Sections	SOW - Shut-in Oil Well
Township	TA - Temp. Abandoned
Bottom Hole Location - AGRC	TW - Test Well
	WDW - Water Disposal
	WW - Water Injection Well
	WSW - Water Supply Well



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 1, 2010

Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2010 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 2010 within the Natural Buttes Unit, Uintah County, Utah.

API #	WELL NAME	LOCATION
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(Proposed PZ WASATCH-MESA VERDE)

NBU 921-35F2 Pad

43-047-51355	NBU 921-35F1BS	Sec 35 T09S R21E 1684 FNL 1709 FWL
	BHL	Sec 35 T09S R21E 1531 FNL 2146 FWL

NBU 921-35F4 PAD

43-047-51356	NBU 921-35F4BS	Sec 35 T09S R21E 2473 FNL 2358 FWL
	BHL	Sec 35 T09S R21E 2210 FNL 2158 FWL

43-047-51357	NBU 921-35F4CS	Sec 35 T09S R21E 2483 FNL 2358 FWL
	BHL	Sec 35 T09S R21E 2567 FNL 2159 FWL

43-047-51358	NBU 921-35K1BS	Sec 35 T09S R21E 2493 FNL 2358 FWL
	BHL	Sec 35 T09S R21E 2484 FSL 2161 FWL

43-047-51359	NBU 921-35K1CS	Sec 35 T09S R21E 2503 FNL 2357 FWL
	BHL	Sec 35 T09S R21E 2163 FSL 2155 FWL

NBU 921-35G Pad

43-047-51360	NBU 921-35G1BS	Sec 35 T09S R21E 2053 FNL 1633 FEL
	BHL	Sec 35 T09S R21E 1583 FNL 1819 FEL

43-047-51361	NBU 921-35G1CS	Sec 35 T09S R21E 2053 FNL 1653 FEL
	BHL	Sec 35 T09S R21E 1916 FNL 1820 FEL

43-047-51362	NBU 921-35G4BS	Sec 35 T09S R21E 2053 FNL 1643 FEL
	BHL	Sec 35 T09S R21E 2250 FNL 1822 FEL

API #	WELL NAME			LOCATION						
(Proposed PZ WASATCH-MESA VERDE)										
43-047-51363	NBU 921-35G4CS	Sec	35	T09S	R21E	2053	FNL	1623	FEL	
	BHL	Sec	35	T09S	R21E	2583	FNL	1823	FEL	
43-047-51364	NBU 921-35J1BS	Sec	35	T09S	R21E	2053	FNL	1613	FEL	
	BHL	Sec	35	T09S	R21E	2419	FSL	1824	FEL	
NBU 921-35H PAD										
43-047-51365	NBU 921-35H1BS	Sec	35	T09S	R21E	2143	FNL	0486	FEL	
	BHL	Sec	35	T09S	R21E	1411	FNL	0494	FEL	
43-047-51366	NBU 921-35H1CS	Sec	35	T09S	R21E	2133	FNL	0490	FEL	
	BHL	Sec	35	T09S	R21E	1743	FNL	0495	FEL	
43-047-51367	NBU 921-35H4BS	Sec	35	T09S	R21E	2124	FNL	0493	FEL	
	BHL	Sec	35	T09S	R21E	2075	FNL	0495	FEL	
43-047-51368	NBU 921-35H4CS	Sec	35	T09S	R21E	2152	FNL	0483	FEL	
	BHL	Sec	35	T09S	R21E	2407	FNL	0495	FEL	
NBU 921-35I PAD										
43-047-51369	NBU 921-35I1BS	Sec	35	T09S	R21E	2106	FSL	0794	FEL	
	BHL	Sec	35	T09S	R21E	2572	FSL	0496	FEL	
43-047-51370	NBU 921-35I1CS	Sec	35	T09S	R21E	2098	FSL	0800	FEL	
	BHL	Sec	35	T09S	R21E	2240	FSL	0496	FEL	
43-047-51371	NBU 921-35I4BS	Sec	35	T09S	R21E	2090	FSL	0806	FEL	
	BHL	Sec	35	T09S	R21E	1908	FSL	0496	FEL	
43-047-51372	NBU 921-35I4CS	Sec	35	T09S	R21E	2082	FSL	0811	FEL	
	BHL	Sec	35	T09S	R21E	1577	FSL	0497	FEL	
43-047-51373	NBU 921-35J1CS	Sec	35	T09S	R21E	2074	FSL	0817	FEL	
	BHL	Sec	35	T09S	R21E	2086	FSL	1825	FEL	
43-047-51374	NBU 921-35J4BS	Sec	35	T09S	R21E	2066	FSL	0823	FEL	
	BHL	Sec	35	T09S	R21E	1752	FSL	1826	FEL	
NBU 921-35K PAD										
43-047-51375	NBU 921-35K4BS	Sec	35	T09S	R21E	1710	FSL	1409	FWL	
	BHL	Sec	35	T09S	R21E	1814	FSL	2165	FWL	
43-047-51376	NBU 921-35K4CS	Sec	35	T09S	R21E	1702	FSL	1403	FWL	
	BHL	Sec	35	T09S	R21E	1469	FSL	2163	FWL	
43-047-51377	NBU 921-35N1BS	Sec	35	T09S	R21E	1694	FSL	1397	FWL	
	BHL	Sec	35	T09S	R21E	1124	FSL	2161	FWL	
43-047-51378	NBU 921-35N1CS	Sec	35	T09S	R21E	1686	FSL	1392	FWL	
	BHL	Sec	35	T09S	R21E	0771	FSL	2162	FWL	

API #	WELL NAME	LOCATION									
NBU 921-35L PAD											
43-047-51379	NBU 921-35E4CS	Sec	35	T09S	R21E	2016	FSL	0768	FWL		
	BHL	Sec	35	T09S	R21E	2343	FNL	0823	FWL		
43-047-51386	NBU 921-35L1BS	Sec	35	T09S	R21E	2013	FSL	0778	FWL		
	BHL	Sec	35	T09S	R21E	2658	FSL	0826	FWL		
43-047-51389	NBU 921-35L1CS	Sec	35	T09S	R21E	2009	FSL	0787	FWL		
	BHL	Sec	35	T09S	R21E	2255	FSL	0835	FWL		
43-047-51390	NBU 921-35L4CS	Sec	35	T09S	R21E	2005	FSL	0796	FWL		
	BHL	Sec	35	T09S	R21E	1470	FSL	0832	FWL		
NBU 921-35P PAD											
43-047-51380	NBU 921-35P4CS	Sec	35	T09S	R21E	0781	FSL	0557	FEL		
	BHL	Sec	35	T09S	R21E	0208	FSL	0489	FEL		
43-047-51381	NBU 921-35P1CS	Sec	35	T09S	R21E	0778	FSL	0547	FEL		
	BHL	Sec	35	T09S	R21E	0913	FSL	0497	FEL		
43-047-51382	NBU 921-35P1BS	Sec	35	T09S	R21E	0785	FSL	0566	FEL		
	BHL	Sec	35	T09S	R21E	1245	FSL	0497	FEL		
NBU 921-35O PAD											
43-047-51383	NBU 921-35O4CS	Sec	35	T09S	R21E	0360	FSL	1780	FEL		
	BHL	Sec	35	T09S	R21E	0026	FSL	1826	FEL		
43-047-51384	NBU 921-35O4BS	Sec	35	T09S	R21E	0370	FSL	1777	FEL		
	BHL	Sec	35	T09S	R21E	0336	FSL	1833	FEL		
43-047-51385	NBU 921-35O1CS	Sec	35	T09S	R21E	0398	FSL	1766	FEL		
	BHL	Sec	35	T09S	R21E	0674	FSL	1828	FEL		
43-047-51387	NBU 921-35O1BS	Sec	35	T09S	R21E	0407	FSL	1763	FEL		
	BHL	Sec	35	T09S	R21E	1059	FSL	1833	FEL		
43-047-51388	NBU 921-35N4CS	Sec	35	T09S	R21E	0379	FSL	1773	FEL		
	BHL	Sec	35	T09S	R21E	0051	FSL	2153	FWL		
43-047-51395	NBU 921-35N4BS	Sec	35	T09S	R21E	0388	FSL	1770	FEL		
	BHL	Sec	35	T09S	R21E	0410	FSL	2164	FWL		
NBU 921-35M PAD											
43-047-51391	NBU 921-35M1BS	Sec	35	T09S	R21E	0469	FSL	0526	FWL		
	BHL	Sec	35	T09S	R21E	1096	FSL	0830	FWL		
43-047-51392	NBU 921-35M1CS	Sec	35	T09S	R21E	0474	FSL	0534	FWL		
	BHL	Sec	35	T09S	R21E	0760	FSL	0830	FWL		

API #	WELL NAME	LOCATION
43-047-51393	NBU 921-35M4BS	Sec 35 T09S R21E 0478 FSL 0543 FWL BHL Sec 35 T09S R21E 0423 FSL 0831 FWL
43-047-51394	NBU 921-35M4CS	Sec 35 T09S R21E 0464 FSL 0517 FWL BHL Sec 35 T09S R21E 0055 FSL 0834 FWL

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

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: 2010.12.01 10:03:00 -07'00'

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

MCoulthard:mc:12-1-10

From: Jim Davis
To: Bonner, Ed; Hill, Brad; Mason, Diana
CC: Curry, Kristine; Danielle Piernot; Garrison, LaVonne; Hayden, Martha;...
Date: 12/22/2010 5:49 AM
Subject: Kerr McGee APD approvals in 9S 21E Sec 35
Attachments: KMG approvals 921-35 on 12.22.2010.xls

The following wells have been approved by SITLA under the following arch and paleo stipulations. This is a long list, so I'm attaching a spreadsheet with the same information.

A note on arch and paleo stipulations: Wells that have an arch note "non-significant site" do not need to be avoided or mitigated. Only those that say "needs to be avoided".

The paleo reports make recommendations for "spot paleo monitoring" or "full paleo monitoring". It is my understanding that Kerr McGee is taking these stipulations and doing full monitoring in either case, in an abundance of caution.

-Jim Davis

Well Name	API	Paleo Stipulations	Arch Stipulations
Kerr-McGee's NBU 921-35A1BS (U-07-MQ-1437b,i,p,s)		API #4304751339	IPC 10-98 Spot Paleo Monitoring
Kerr-McGee's NBU 921-35A4CS (U-07-MQ-1437b,i,p,s)		API #4304751340	IPC 10-98 Spot Paleo Monitoring
Kerr-McGee's NBU 921-35B1BS (U-07-MQ-1437b,i,p,s)		API #4304751341	IPC 10-98 Spot Paleo Monitoring
Kerr-McGee's NBU 921-35B4BS (U-07-MQ-1437b,i,p,s)		API #4304751342	IPC 10-98 Spot Paleo Monitoring
Kerr-McGee's NBU 921-35B1CS (U-07-MQ-1437b,i,p,s; eligible site 42Un6461, just south of proposed pipeline needs to be avoided)		API #4304751343	IPC 10-98 Spot Paleo Monitoring
Kerr-McGee's NBU 921-35B4CS (U-07-MQ-1437b,i,p,s; eligible site 42Un6461, just south of proposed pipeline needs to be avoided)		API #4304751344	IPC 10-98 Spot Paleo Monitoring
Kerr-McGee's NBU 921-35C1BS (U-07-MQ-1437b,i,p,s; eligible site 42Un6461, just south of proposed pipeline needs to be avoided)		API #4304751345	IPC 10-98 Spot Paleo Monitoring
Kerr-McGee's NBU 921-35C4BS (U-07-MQ-1437b,i,p,s; eligible site 42Un6461, just south of proposed pipeline needs to be avoided)		API #4304751346	IPC 10-98 Spot Paleo Monitoring
Kerr-McGee's NBU 921-35C1CS (U-07-MQ-1437b,i,p,s)		API #4304751347	IPC 10-97 Full Paleo Monitoring (U-07-MQ-1437b,i,p,s)
Kerr-McGee's NBU 921-35D1BS (U-07-MQ-1437b,i,p,s)		API #4304751348	IPC 10-97 Full Paleo Monitoring (U-07-MQ-1437b,i,p,s)
Kerr-McGee's NBU 921-35D1CS (U-07-MQ-1437b,i,p,s)		API #4304751349	IPC 10-97 Full Paleo Monitoring (U-07-MQ-1437b,i,p,s)
Kerr-McGee's NBU 921-35D4CS (U-07-MQ-1437b,i,p,s)		API #4304751350	IPC 10-97 Full Paleo Monitoring (U-07-MQ-1437b,i,p,s)
Kerr-McGee's NBU 921-35C4CS (U-07-MQ-1437b,i,p,s)		API #4304751351	IPC 10-97 Full Paleo Monitoring (U-07-MQ-1437b,i,p,s)
Kerr-McGee's NBU 921-35E1CS (U-07-MQ-1437b,i,p,s)		API #4304751352	IPC 10-97 Full Paleo Monitoring (U-07-MQ-1437b,i,p,s)
Kerr-McGee's NBU 921-35E2AS (U-07-MQ-1437b,i,p,s)		API #4304751353	IPC 10-97 Full Paleo Monitoring (U-07-MQ-1437b,i,p,s)
Kerr-McGee's NBU 921-35F1BS (U-07-MQ-1437b,i,p,s)		API #4304751355	IPC 10-97 Full Paleo Monitoring (U-07-MQ-1437b,i,p,s)
Kerr-McGee's NBU 921-35F4BS (U-07-MQ-1437b,i,p,s)		API #4304751356	IPC 10-97 Full Paleo Monitoring (U-07-MQ-1437b,i,p,s)
Kerr-McGee's NBU 921-35F4CS (U-07-MQ-1437b,i,p,s)		API #4304751357	IPC 10-97 Full Paleo Monitoring (U-07-MQ-1437b,i,p,s)
Kerr-McGee's NBU 921-35K1BS		API #4304751358	IPC 10-97 Full Paleo Monitoring (U-07-MQ-1437b,i,p,s)

MQ-1437b,i,p,s)			
Kerr-McGee's NBU 921-35K1CS	API #4304751359	IPC 10-97 Full Paleo Monitoring	(U-07-MQ-1437b,i,p,s)
Kerr-McGee's NBU 921-35G1BS	API #4304751360	IPC 10-98 Spot Paleo Monitoring	(U-07-MQ-1437b,i,p,s; 1 non-significant site, 42Un2395, adjacent to the road)
Kerr-McGee's NBU 921-35G1CS	API #4304751361	IPC 10-98 Spot Paleo Monitoring	(U-07-MQ-1437b,i,p,s; 1 non-significant site, 42Un2395, adjacent to the road)
Kerr-McGee's NBU 921-35G4BS	API #4304751362	IPC 10-98 Spot Paleo Monitoring	(U-07-MQ-1437b,i,p,s; 1 non-significant site, 42Un2395, adjacent to the road)
Kerr-McGee's NBU 921-35G4CS	API #4304751363	IPC 10-98 Spot Paleo Monitoring	(U-07-MQ-1437b,i,p,s; 1 non-significant site, 42Un2395, adjacent to the road)
Kerr-McGee's NBU 921-35J1S	API #4304751364	IPC 10-98 Spot Paleo Monitoring	(U-07-MQ-1437b,i,p,s; 1 non-significant site, 42Un2395, adjacent to the road)
Kerr-McGee's NBU 921-35H1BS	API #4304751365	IPC 10-98 Spot Paleo Monitoring	(U-07-MQ-1437b,i,p,s)
Kerr-McGee's NBU 921-35H1CS	API #4304751366	IPC 10-98 Spot Paleo Monitoring	(U-07-MQ-1437b,i,p,s)
Kerr-McGee's NBU 921-35H4BS	API #4304751367	IPC 10-98 Spot Paleo Monitoring	(U-07-MQ-1437b,i,p,s)
Kerr-McGee's NBU 921-35H4CS	API #4304751368	IPC 10-98 Spot Paleo Monitoring	(U-07-MQ-1437b,i,p,s)
Kerr-McGee's NBU 921-35I1BS	API #4304751369	IPC 10-100 Full Paleo Monitoring	(U-07-MQ-1437b,i,p,s)
Kerr-McGee's NBU 921-35I1CS	API #4304751370	IPC 10-100 Full Paleo Monitoring	(U-07-MQ-1437b,i,p,s)
Kerr-McGee's NBU 921-35I4BS	API #4304751371	IPC 10-100 Full Paleo Monitoring	(U-07-MQ-1437b,i,p,s)
Kerr-McGee's NBU 921-35I4CS	API #4304751372	IPC 10-100 Full Paleo Monitoring	(U-07-MQ-1437b,i,p,s)
Kerr-McGee's NBU 921-35J1CS	API #4304751373	IPC 10-98 Spot Paleo Monitoring	(U-07-MQ-1437b,i,p,s)
Kerr-McGee's NBU 921-35J4BS	API #4304751374	IPC 10-100 Full Paleo Monitoring	(U-07-MQ-1437b,i,p,s)
Kerr-McGee's NBU 921-35K4BS	API #4304751375	IPC 10-99 Spot Paleo Monitoring	(U-07-MQ-1437b,i,p,s)
Kerr-McGee's NBU 921-35K4CS	API #4304751376	IPC 10-99 Spot Paleo Monitoring	(U-07-MQ-1437b,i,p,s)
Kerr-McGee's NBU 921-35N1BS	API #4304751377	IPC 10-99 Spot Paleo Monitoring	(U-07-MQ-1437b,i,p,s)
Kerr-McGee's NBU 921-35N1CS	API #4304751378	IPC 10-99 Spot Paleo Monitoring	(U-07-MQ-1437b,i,p,s)
Kerr-McGee's NBU 921-35E4CS	API #4304751379	IPC 10-99 Spot Paleo Monitoring	(U-07-MQ-1437b,i,p,s)
Kerr-McGee's NBU 921-35P4CS	API #4304751380	IPC 10-100 Full Paleo Monitoring	(U-07-MQ-1437b,i,p,s)
Kerr-McGee's NBU 921-35P1CS	API #4304751381	IPC 10-100 Full Paleo Monitoring	(U-07-MQ-1437b,i,p,s)
Kerr-McGee's NBU 921-35P1BS	API #4304751382	IPC 10-100 Full Paleo Monitoring	(U-07-MQ-1437b,i,p,s)
Kerr-McGee's NBU 921-35O4CS	API #4304751383	IPC 10-100 Full Paleo Monitoring	(U-07-MQ-1437b,i,p,s; 1 non-significant site, 42Un1836, adjacent to pipeline)
Kerr-McGee's NBU 921-35O4BS	API #4304751384	IPC 10-100 Full Paleo Monitoring	(U-07-MQ-1437b,i,p,s; 1 non-significant site, 42Un1836, adjacent to pipeline)
Kerr-McGee's NBU 921-35O1CS	API #4304751385	IPC 10-100 Full Paleo Monitoring	(U-07-MQ-1437b,i,p,s; 1 non-significant site, 42Un1836, adjacent to pipeline)
Kerr-McGee's NBU 921-35L1BS	API #4304751386	IPC 10-99 Spot Paleo Monitoring	

(U-07-MQ-1437b,i,p,s)		
Kerr-McGee's NBU 921-35O1BS	API #4304751387	IPC 10-100 Spot Paleo Monitoring
(U-07-MQ-1437b,i,p,s; 1 non-significant site, 42Un1836, adjacent to pipeline)		
Kerr-McGee's NBU 921-35N4CS	API #4304751388	IPC 10-100 Spot Paleo Monitoring
(U-07-MQ-1437b,i,p,s; 1 non-significant site, 42Un1836, adjacent to pipeline)		
Kerr-McGee's NBU 921-35L1CS	API #4304751389	IPC 10-99 Spot Paleo Monitoring
(U-07-MQ-1437b,i,p,s)		
Kerr-McGee's NBU 921-35L4CS	API #4304751390	IPC 10-99 Spot Paleo Monitoring
(U-07-MQ-1437b,i,p,s)		
Kerr-McGee's NBU 921-35M1BS	API #4304751391	IPC 10-99 Spot Paleo Monitoring
(U-07-MQ-1437b,i,p,s)		
Kerr-McGee's NBU 921-35M1CS	API #4304751392	IPC 10-99 Spot Paleo Monitoring
(U-07-MQ-1437b,i,p,s)		
Kerr-McGee's NBU 921-35M4BS	API #4304751393	IPC 10-99 Spot Paleo Monitoring
(U-07-MQ-1437b,i,p,s)		
Kerr-McGee's NBU 921-35M4CS	API #4304751394	IPC 10-99 Spot Paleo Monitoring
(U-07-MQ-1437b,i,p,s)		
Kerr-McGee's NBU 921-35N4BS	API #4304751395	IPC 10-100 Spot Paleo Monitoring
(U-07-MQ-1437b,i,p,s; 1 non-significant site, 42Un1836, adjacent to pipeline)		

Well Name	KERR-MCGEE OIL & GAS ONSHORE, L.P. NBU 921-3501CS 430475138			
String	Surf	Prod		
Casing Size(")	8.625	4.500		
Setting Depth (TVD)	2526	9626		
Previous Shoe Setting Depth (TVD)	40	2526		
Max Mud Weight (ppg)	8.3	12.0		
BOPE Proposed (psi)	500	5000		
Casing Internal Yield (psi)	3390	7780		
Operators Max Anticipated Pressure (psi)	5872	11.7		

Calculations	Surf String	8.625	"
Max BHP (psi)	$.052 * \text{Setting Depth} * \text{MW} =$	1094	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	$\text{Max BHP} - (0.12 * \text{Setting Depth}) =$	791	NO <input type="text" value="air drill"/>
MASP (Gas/Mud) (psi)	$\text{Max BHP} - (0.22 * \text{Setting Depth}) =$	538	NO <input type="text"/>
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	$\text{Max BHP} - .22 * (\text{Setting Depth} - \text{Previous Shoe Depth}) =$	547	NO <input type="text" value="Reasonable depth in area"/>
Required Casing/BOPE Test Pressure=		2373	psi
*Max Pressure Allowed @ Previous Casing Shoe=		40	psi *Assumes 1psi/ft frac gradient

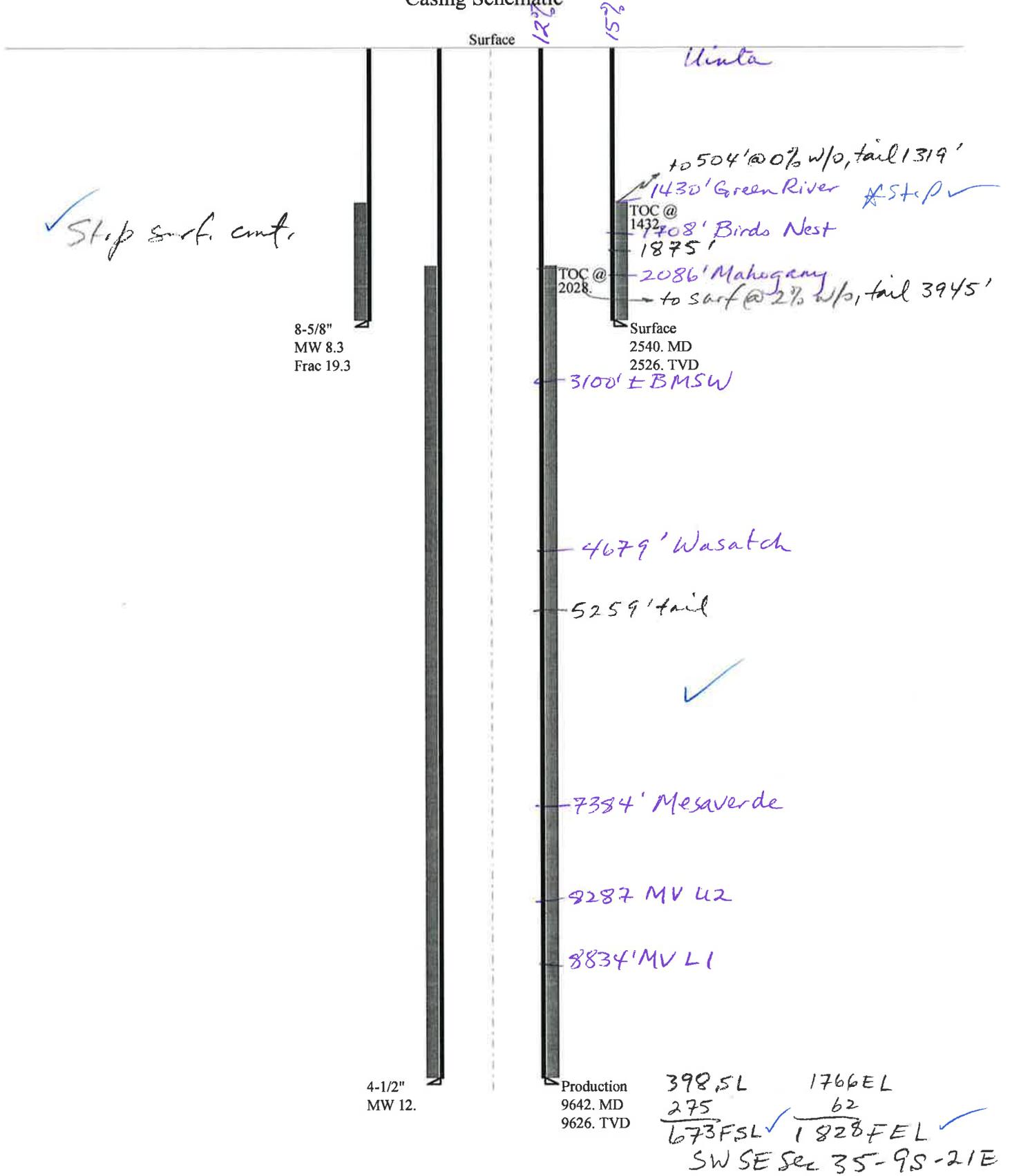
Calculations	Prod String	4.500	"
Max BHP (psi)	$.052 * \text{Setting Depth} * \text{MW} =$	6007	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	$\text{Max BHP} - (0.12 * \text{Setting Depth}) =$	4852	YES <input type="text"/>
MASP (Gas/Mud) (psi)	$\text{Max BHP} - (0.22 * \text{Setting Depth}) =$	3889	YES <input type="text" value="OK"/>
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	$\text{Max BHP} - .22 * (\text{Setting Depth} - \text{Previous Shoe Depth}) =$	4445	NO <input type="text" value="Reasonable"/>
Required Casing/BOPE Test Pressure=		5000	psi
*Max Pressure Allowed @ Previous Casing Shoe=		2526	psi *Assumes 1psi/ft frac gradient

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

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

43047513850000 NBU 921-3501CS

Casing Schematic



Well name:	43047513850000 NBU 921-3501CS		
Operator:	KERR-MCGEE OIL & GAS ONSHORE, L.P.		
String type:	Surface	Project ID:	43-047-51385
Location:	UINTAH COUNTY		

Design parameters:

Collapse

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

Minimum design factors:

Collapse:

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
 Surface temperature: 74 °F
 Bottom hole temperature: 109 °F
 Temperature gradient: 1.40 °F/100ft
 Minimum section length: 100 ft

Cement top: 1,432 ft

Burst

Max anticipated surface pressure: 2,235 psi
 Internal gradient: 0.120 psi/ft
 Calculated BHP 2,538 psi

No backup mud specified.

Tension:

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

Tension is based on air weight.
 Neutral point: 2,228 ft

Directional Info - Build & Drop

Kick-off point 300 ft
 Departure at shoe: 245 ft
 Maximum dogleg: 2 °/100ft
 Inclination at shoe: 6.81 °

Re subsequent strings:

Next setting depth: 9,626 ft
 Next mud weight: 12,000 ppg
 Next setting BHP: 6,001 psi
 Fracture mud wt: 19,250 ppg
 Fracture depth: 2,540 ft
 Injection pressure: 2,540 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	2540	8.625	28.00	I-55	LT&C	2526	2540	7.892	100584
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	1093	1880	1.720	2538	3390	1.34	70.7	348	4.92 J

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

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

Date: December 27, 2010
 Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 2526 ft, a mud weight of 8.33 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

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

Well name:	43047513850000 NBU 921-3501CS		
Operator:	KERR-MCGEE OIL & GAS ONSHORE, L.P.		
String type:	Production	Project ID:	43-047-51385
Location:	UINTAH COUNTY		

Design parameters:

Collapse

Mud weight: 12.000 ppg
 Internal fluid density: 1.000 ppg

Minimum design factors:

Collapse:

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
 Surface temperature: 74 °F
 Bottom hole temperature: 209 °F
 Temperature gradient: 1.40 °F/100ft
 Minimum section length: 100 ft

Cement top: 2,028 ft

Burst

Max anticipated surface pressure: 3,883 psi
 Internal gradient: 0.220 psi/ft
 Calculated BHP 6,001 psi

No backup mud specified.

Tension:

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

Tension is based on air weight.
 Neutral point: 7,915 ft

Directional Info - Build & Drop

Kick-off point 300 ft
 Departure at shoe: 282 ft
 Maximum dogleg: 2 °/100ft
 Inclination at shoe: 0 °

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	9642	4.5	11.60	I-80	LT&C	9626	9642	3.875	127274
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	5501	6360	1.156	6001	7780	1.30	111.7	212	1.90 J

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

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

Date: December 27, 2010
 Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 9626 ft, a mud weight of 12 ppg. An internal gradient of .052 psi/ft was used for collapse from TD to TD. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

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

ON-SITE PREDRILL EVALUATION

Utah Division of Oil, Gas and Mining

Operator	KERR-MCGEE OIL & GAS ONSHORE, L.P.										
Well Name	NBU 921-35O1CS										
API Number	43047513850000	APD No	3223	Field/Unit	NATURAL BUTTES						
Location: 1/4,1/4	SWSE	Sec	35	Tw	9.0S	Rng	21.0E	398	FSL	1766	FEL
GPS Coord (UTM)	626781	4427089	Surface Owner								

Participants

See Other Comments:

Regional/Local Setting & Topography

The general area is within the Natural Buttes Unit in the lower portion of the Sand Wash Drainage of Uintah, County, approximately 36 air miles and 43.7 road miles south of Vernal, Utah. Access is by State of Utah Highways, Uintah County and existing oilfield development roads to the site. Topography of the Sand Wash area is characterized by broad open flats dissected by numerous sub-drainages, which often become steep with ridges and draws with exposed sandstone layers. No perennial streams occur in the drainage. Individual draws or washes are ephemeral with spring runoff or flows from sometimes-intense summer rainstorms. No springs exist in the area. An occasional constructed pond occurs, furnishing water for antelope or livestock.

The NBU 921-35O pad will be created by significantly enlarging the existing pad of the CIGE 133 gas well. It will be enlarged in all directions except to the north. Six gas wells, to be directionally drilled, will be added. They are the NBU 921-35O1BS, NBU 921-35O1CS, NBU 921-35N4BS, NBU 921-35N4CS, NBU 921-35O4BS and NBU 921-35O4CS. . The site is in moderately rolling terrain which slopes to the west. A drainage intersects the location on the south. It will be blocked with excess spoils until after drilling. After the pad is put into production its length will be reduced on this end and the drainage re-routed thru the area to the west. The surface of the pad may be sandy and need hardening. A major tributary of Sand Wash is about 1/2 mile to the east of the site and the White River about 3 mile down drainage. The selected site appears to be suitable for enlarging a pad, drilling and operating the proposed wells and is the only site in the immediate area.

Both the surface and minerals are owned by SITLA. Jim Davis represented SITLA at the pre-site investigation. Mr. Davis had no concerns pertaining to this location excepted as covered above. SITLA provided a seed mix to be used when reclaiming the site.

Ben Williams represented the Utah Division of Wildlife Resources. Mr. Williams stated the area is classified as crucial yearlong antelope habitat but recommended no restrictions for this species. No other wildlife will be significantly affected.

The proposed reserve pit is 120' x 260' x 12' deep located in a cut on the snortheast corner of the location. Kerr McGee plans a 30-mil liner with a double felt sub-liner.

Vegetation is a desert shrub type, which includes rabbit brush, Indian ricegrass, big sage, Russian thistle, stipa commata, greasewood, broom snakeweed, shadscale and halogeton.

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

Surface soils are a moderately deep sandy loam.

Surface Use Plan

Current Surface Use

Grazing
 Wildlife Habitat
 Existing Well Pad

New Road Miles	Well Pad	Src Const Material	Surface Formation
0	Width 352 Length 475	Onsite	UNTA

Ancillary Facilities N

Waste Management Plan Adequate?

Environmental Parameters

Affected Floodplains and/or Wetlands N

Flora / Fauna

Vegetation is a desert shrub type, which includes rabbit brush, Indian ricegrass, big sage, Russian thistle, stipa commata, greasewood, broom snakeweed, shadscale and halogeton.

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

Soil Type and Characteristics

Surface soils are a moderately deep sandy loam.

Erosion Issues N

Sedimentation Issues N

Site Stability Issues N

Drainage Diversion Required? Y

Berm Required? N

Erosion Sedimentation Control Required? Y

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

Reserve Pit

Site-Specific Factors		Site Ranking
Distance to Groundwater (feet)	100 to 200	5
Distance to Surface Water (feet)	>1000	0
Dist. Nearest Municipal Well (ft)	>5280	0
Distance to Other Wells (feet)		20
Native Soil Type	Mod permeability	10
Fluid Type	Fresh Water	5
Drill Cuttings	Normal Rock	0
Annual Precipitation (inches)		0

Affected Populations

Presence Nearby Utility Conduits	Not Present	0	
	Final Score	40	1 Sensitivity Level

Characteristics / Requirements

The proposed reserve pit is 120' x 260' x 12' deep located in a cut on the snortheast corner of the location. Kerr McGee plans a 30-mil liner with a double felt sub-liner.

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

Other Observations / Comments

Floyd Bartlett (DOGM), Sheila Wopsock, Clay Einerson, Lovell Young, Grizz Oleen, Charles Chase, Colby Sutton, Doyle Holmes, Claudia Sass, (Kerr McGee), Mitch Batty, John Slaugh, (Timberline Engineering and Land Surveying), Jim Davis (SITLA) and Ben Williams, (UDWR).

Floyd Bartlett
Evaluator

11/30/2010
Date / Time

Application for Permit to Drill

Statement of Basis

12/28/2010

Utah Division of Oil, Gas and Mining

Page 1

APD No	API WellNo	Status	Well Type	Surf Owner	CBM
3223	43047513850000	LOCKED	GW	S	No
Operator	KERR-MCGEE OIL & GAS ONSHORE, L.P.		Surface Owner-APD		
Well Name	NBU 921-35O1CS		Unit	NATURAL BUTTES	
Field	NATURAL BUTTES		Type of Work	DRILL	
Location	SWSE 35 9S 21E S 398 FSL 1766 FEL		GPS Coord (UTM)	626785E 4427082N	

Geologic Statement of Basis

Kerr McGee proposes to set 2,540' of surface casing at this location. The depth to the base of the moderately saline water at this location is estimated to be at a depth of 3,100'. A search of Division of Water Rights records shows one water well within a 10,000 foot radius of the center of Section 35. The well is listed as 2,640 feet deep and used for drilling water. The surface formation at this site is the Uinta Formation. The Uinta Formation is made up of interbedded shales and sandstones. The sandstones are mostly lenticular and discontinuous and should not be a significant source of useable ground water. Production casing cement should be brought up to cover the base of the moderately saline ground water in order to isolate fresher waters uphole.

Brad Hill
APD Evaluator

12/15/2010
Date / Time

Surface Statement of Basis

The general area is within the Natural Buttes Unit in the lower portion of the Sand Wash Drainage of Uintah, County, approximately 36 air miles and 43.7 road miles south of Vernal, Utah. Access is by State of Utah Highways, Uintah County and existing oilfield development roads to the site. Topography of the Sand Wash area is characterized by broad open flats dissected by numerous sub-drainages, which often become steep with ridges and draws with exposed sandstone layers. No perennial streams occur in the drainage. Individual draws or washes are ephemeral with spring runoff or flows from sometimes-intense summer rainstorms. No springs exist in the area. An occasional constructed pond occurs, furnishing water for antelope or livestock.

The NBU 921-35O pad will be created by significantly enlarging the existing pad of the CIGE 133 gas well. It will be enlarged in all directions except to the north. Six gas wells, to be directionally drilled, will be added. They are the NBU 921-35O1BS, NBU 921-35O1CS, NBU 921-35N4BS, NBU 921-35N4CS, NBU 921-35O4BS and NBU 921-35O4CS. . The site is in moderately rolling terrain which slopes to the west. A drainage intersects the location on the south. It will be blocked with excess spoils until after drilling. After the pad is put into production its length will be reduced on this end and the drainage re-routed thru the area to the west. The surface of the pad may be sandy and need hardening. A major tributary of Sand Wash is about 1/2 mile to the east of the site and the White River about 3 mile down drainage. The selected site appears to be suitable for enlarging a pad, drilling and operating the proposed wells and is the only site in the immediate area.

Both the surface and minerals are owned by SITLA. Jim Davis represented SITLA at the pre-site investigation. Mr. Davis had no concerns pertaining to this location excepted as covered above. SITLA provided a seed mix to be used when reclaiming the site.

Ben Williams represented the Utah Division of Wildlife Resources. Mr. Williams stated the area is classified as crucial yearlong antelope habitat but recommended no restrictions for this species. No other wildlife will be significantly affected.

Application for Permit to Drill Statement of Basis

12/28/2010

Utah Division of Oil, Gas and Mining

Page 2

Floyd Bartlett
Onsite Evaluator

11/30/2010
Date / Time

Conditions of Approval / Application for Permit to Drill

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

**WORKSHEET
APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 11/23/2010

API NO. ASSIGNED: 43047513850000

WELL NAME: NBU 921-3501CS

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

PHONE NUMBER: 720 929-6156

CONTACT: Danielle Piernot

PROPOSED LOCATION: SWSE 35 090S 210E

Permit Tech Review:

SURFACE: 0398 FSL 1766 FEL

Engineering Review:

BOTTOM: 0674 FSL 1828 FEL

Geology Review:

COUNTY: UINTAH

LATITUDE: 39.98630

LONGITUDE: -109.51507

UTM SURF EASTINGS: 626785.00

NORTHINGS: 4427082.00

FIELD NAME: NATURAL BUTTES

LEASE TYPE: 3 - State

LEASE NUMBER: ML 22582

PROPOSED PRODUCING FORMATION(S): WASATCH-MESA VERDE

SURFACE OWNER: 3 - State

COALBED METHANE: NO

RECEIVED AND/OR REVIEWED:

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

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



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 921-3501CS
API Well Number: 43047513850000
Lease Number: ML 22582
Surface Owner: STATE
Approval Date: 12/28/2010

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:

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

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

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

Surface casing shall be cemented to the surface.

Additional Approvals:

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

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

Notification Requirements:

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

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

Contact Information:

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

- Carol Daniels 801-538-5284 - office
- Dustin Doucet 801-538-5281 - office
801-733-0983 - after office hours
- Dan Jarvis 801-538-5338 - office
801-231-8956 - after office hours

Reporting Requirements:

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

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

Approved By:



For John Rogers
Associate Director, Oil & Gas

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: ML 22582
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: 7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: NBU 921-3501CS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047513850000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6515 Ext
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0398 FSL 1766 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSE Section: 35 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 type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input checked="" type="checkbox"/> SPUD REPORT Date of Spud: 2/1/2011	<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
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	<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.

MIRU PETE MARTIN BUCKET RIG. DRILLED 20" CONDUCTOR HOLE TO 40'.
 RAN 14" 36.7# SCHEDULE 10 CONDUCTOR PIPE. CMT W/28 SX READY MIX
 SPUD WELL LOCATION ON FEBUARY 01, 2011 AT 14:45 HRS.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
 02/02/2011

NAME (PLEASE PRINT) Andy Lytle	PHONE NUMBER 720 929-6100	TITLE Regulatory Analyst
SIGNATURE N/A		DATE 2/2/2011

BLM - Vernal Field Office - Notification Form

Operator KERR-McGEE OIL & GAS Rig Name/# BUCKET RIG
 Submitted By ANDY LYTLE Phone Number 720.929.6100
 Well Name/Number NBU 921-35O1CS
 Qtr/Qtr SWSE Section 35 Township 9S Range 21E
 Lease Serial Number ML 22582
 API Number 4304751385

Spud Notice – Spud is the initial spudding of the well, not drilling out below a casing string.

Date/Time 01/31/2011 10:30 HRS AM PM

Casing – Please report time casing run starts, not cementing times.

- Surface Casing
 Intermediate Casing
 Production Casing
 Liner
 Other

RECEIVED

JAN 28 2011

DIV. OF OIL, GAS & MINING

Date/Time 02/27/2011 08:00 HRS AM PM

BOPE

- Initial BOPE test at surface casing point
 BOPE test at intermediate casing point
 30 day BOPE test
 Other

Date/Time _____ AM PM

Remarks ESTIMATED DATE AND TIME. PLEASE CONTACT KENNY GATHINGS AT

435.828.0986 OR LOVEL YOUNG AT 435.781.7051

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: ML 22582
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: 7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: NBU 921-3501CS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047513850000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6515 Ext
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0398 FSL 1766 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSE Section: 35 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 type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 2/18/2011	<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
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	<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.

MIRU PROPETRO AIR RIG ON FEBRUARY 16, 2011. DRILLED 11" SURFACE HOLE TO 2560'. RAN 8 5/8" 28# IJ-55 SURFACE CSG. PUMP 140 BBLs FRESH WATER. PUMP 20 BBLs GEL WATER. LEAD CEMENT W/ 200 SX CLASS G PREM LITE @ 11.0 PPG, 3.82 YD. TAILED CEMENT W/ 200 SX CLASS G PREM LITE @ 15.8 PPG, 1.15 YD. DROP PLUG ON THE FLY, DISPLACED W/ 154 BBLs WATER. LIFT PRESSURE 290 PSI, BUMP PLUG & HOLD 800 PSI FOR 5 MIN. FLOAT HELD; NO CEMENT TO SURFACE. TOP OUT W/ 250 SX CLASS G PREM LITE @ 15.8 PPG, 1.15 YD. WORT.

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

NAME (PLEASE PRINT) Andy Lytle	PHONE NUMBER 720 929-6100	TITLE Regulatory Analyst
SIGNATURE N/A		DATE 2/22/2011

Carol Daniels - RUN CSG & B.O.P'S TEST PIONEER 54 NBU 921-3501CS

From: "Anadarko - Pioneer 54"
To: , "DAVID HACKFORD"
Date: 3/12/2011 7:27 AM
Subject: RUN CSG & B.O.P'S TEST PIONEER 54 NBU 921-3501CS

State of Utah - Notification Form

Operator Anadarko Petroleum Rig Name/# PIONEER 54
Submitted By STUART NEILSON Phone Number 435- 790-2921
Well Name/Number NBU 921-3501CS
Qtr/Qtr SE/4 SW/4 Section 35 Township 9S Range 21E
Lease Serial Number ML 22582
API Number 43047513850000

Casing – Time casing run starts, not cementing times.

Production Casing
Other

Date/Time _ _ AM PM

RECEIVED
MAR 14 2011
DIV. OF OIL, GAS & MINING

BOPE
Initial BOPE test at surface casing point
Other

Date/Time 3/12/11 12 AM PM

Rig Move
Location To: _

Date/Time _ _ AM PM

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

FORM 9

5. LEASE DESIGNATION AND SERIAL NUMBER:
ML 22582

SUNDRY NOTICES AND REPORTS ON WELLS

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

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:
NATURAL BUTTES

1. TYPE OF WELL
Gas Well

8. WELL NAME and NUMBER:
NBU 921-3501CS

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

9. API NUMBER:
43047513850000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779
PHONE NUMBER: 720 929-6515 Ext

9. FIELD and POOL or WILDCAT:
NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE:
0398 FSL 1766 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
Qtr/Qtr: SWSE Section: 35 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
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<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 3/18/2011	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
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	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input type="text"/>

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

MIRU ROTARY RIG. FINISHED DRILLING FROM 2560' TO 9660' ON MARCH 16, 2011. RAN 4-1/2" 11.6# I-80 PRODUCTION CASING. CEMENTED PRODUCTION CASING. RELEASE PIONEER RIG 54 ON MARCH 18, 2011 @ 12:00 HRS. DETAILS OF CEMENT JOB WILL BE INCLUDED WITH THE WELL COMPLETION REPORT. WELL IS WAITING ON FINAL COMPLETION ACTIVITIES.

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

NAME (PLEASE PRINT) Andy Lytle **PHONE NUMBER** 720 929-6100 **TITLE** Regulatory Analyst

SIGNATURE N/A **DATE** 3/21/2011

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
		5. LEASE DESIGNATION AND SERIAL NUMBER: ML 22582
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
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4. LOCATION OF WELL FOOTAGES AT SURFACE: 0398 FSL 1766 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSE Section: 35 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"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 6/21/2011	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON
	<input checked="" type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER
		OTHER: <input type="text"/>
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. THE SUBJECT WELL WAS PLACED ON PRODUCTION ON 06/21/2011 AT 12:00 PM. THE CHRONOLOGICAL WELL HISTORY WILL BE SUBMITTED WITH THE WELL COMPLETION REPORT.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY		
NAME (PLEASE PRINT) Sheila Wopsock	PHONE NUMBER 435 781-7024	TITLE Regulatory Analyst
SIGNATURE N/A		DATE 6/22/2011

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
		5. LEASE DESIGNATION AND SERIAL NUMBER: ML 22582
SUNDRY NOTICES AND REPORTS ON WELLS		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
1. TYPE OF WELL Gas Well		8. WELL NAME and NUMBER: NBU 921-3501CS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		9. API NUMBER: 43047513850000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6515 Ext	9. FIELD and POOL or WILDCAT: NATURAL BUTTES
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0398 FSL 1766 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSE Section: 35 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 checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 7/14/2011 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input checked="" type="checkbox"/> OTHER	
	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input type="text" value="Water Shut Off"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.		
<p>The operator request authorization to workover the subject well location. The workover operations will consist of water shut off by perforation cement squeeze. Stage 8 perfs from 6707-6870 will be squeezed off with cement. Please see attached procedure.</p>		
		<p>Approved by the Utah Division of Oil, Gas and Mining</p> <p>Date: <u>07/18/2011</u></p> <p>By: <u><i>Derek Quist</i></u></p>
NAME (PLEASE PRINT) Gina Becker	PHONE NUMBER 720 929-6086	TITLE Regulatory Analyst II
SIGNATURE N/A		DATE 7/14/2011

Name: NBU 921-3501CS
Location: SWSE Sec 35 T9S R21E
Uintah County, UT
Date: 6/1/2011

PERF ABANDONMENT / WATER SHUT OFF

ELEVATIONS: 5100' GL 5119' KB *Frac Registry TVD: 9654*

TOTAL DEPTH: 9660' **PBTD:** 9600'
SURFACE CASING: 8 5/8", 28# J-55 LT&C @ 2546'
PRODUCTION CASING: 4 1/2", 11.6#, I-80 BT&C @ 9645'
 Marker Joint **4736-4757 & 7291-7311'**

TUBULAR PROPERTIES:

	BURST (psi)	COLLAPSE (psi)	DRIFT DIA. (in.)	CAPACITIES	
				(bbl/ft)	(gal/ft)
2 3/8" 4.7# J-55 tbg	7,700	8,100	1.901"	0.00387	0.1624
4 1/2" 11.6# I-80 (See above)	7780	6350	3.875"	0.0155	0.6528
4 1/2" 11.6# P- 110	10691	7580	3.875"	0.0155	0.6528
2 3/8" by 4 1/2" Annulus				0.0101	0.4227

TOPS:

1456' Green River Top
 1736' Bird's Nest Top
 2236' Mahogany Top
 4725' Wasatch Top
 7418' Mesaverde Top

BOTTOMS:

7418' Wasatch Bottom
 9660' Mesaverde Bottom (TD)

T.O.C. @ 130'

Contacts:

VILLA, JOEL	828-8923	OPERATOR
RASMUSSEN, JERRY	828-8239	FOREMAN
JENSEN, STEVE	828-6113	MECH LEAD
PORTILLO, JORDAN	781-9785/828-6221	ENGINEER

Relevant History:

- June 2011 – Completed well- IP'd At 1.1 mmcf/day
- July 2011 - Well test showed well making 888mcf/day and 446 bbls/day on a 18 choke
 - Production log showed high inflow of water from Stage 8

Symptoms:

- High LGR. Water shut-off needed in Stage 8 for continued production.

Procedure Outline:

- MIRU. N/D WH. N/U BOP. Unland tubing. POOH
- RIH w/ gauge ring and junk basket to ~6900'. RIH W/ 4-1/2" CBP set same @ ~6890'.
- Establish injection rate.
- R/U cement company and pump recommended balanced plug cement job into perforations from (6707'-6870'), based off of injection rate. PU reverse circulate tubing until clean, with at least 40 BBL. Apply appropriate pressure on balance plug. WOC.
- POOH. RIH w/ 3-7/8" POBS. D-O balance plug. Pressure test casing and perforations to 1000 psi for 10 minutes. Resqueeze if necessary.
- D-O CBP.
- Land tubing at +/- 8800'. Pump off bit sub.
- N/D BOP. N/U WH. RDMO. RTP

Fluid Entry Results				
	Company:	Anadarko		
	Well:	NBU 921-3501CS		
	Date:	7-Jul-11		
	Field:			
	Gas:	690 mcf/day		
	Water:	500		
Perforations Depth (ft)	Water		Gas	
	Surface B/D	%	Surface mcf/d	%
6707-6708	95	19.67%	---	0.00%
6719-6720	Trace	---	Trace	---
6794-6796	187	38.72%	---	0.00%
6868-6870	116	24.02%	---	0.00%
6890	Set CBP			

Perforations:**Name** NBU 921-3501CS**Perforation and CBP Summary**

Stage	Zones	Perforations		SPF	Holes	Fracture Coverage		
		Top, ft	Bottom, ft					
1	MESAVERDE	9322	9324	3	6	9309	to	9329.5
	MESAVERDE	9382	9383	3	3	9376.5	to	9384.5
	MESAVERDE	9426	9428	3	6	9415	to	9435
	MESAVERDE	9593	9595	3	6	9584.5	to	9610
	# of Perfs/stage				21	CBP DEPTH	9,182	
2	MESAVERDE	9001	9002	4	4	8990.5	to	9006.5
	MESAVERDE	9114	9117	4	12	9098.5	to	9117
	MESAVERDE	9150	9152	4	8	9149.5	to	9156.5
	# of Perfs/stage				24	CBP DEPTH	8,990	
	3	MESAVERDE	8876	8877	4	4	8861.5	to
MESAVERDE		8919	8921	4	8	8907	to	8922.5
MESAVERDE		8935	8937	4	8	8932	to	8946.5
MESAVERDE		8959	8960	4	4	8952.5	to	8964.5
# of Perfs/stage					24	CBP DEPTH	8,763	
4	MESAVERDE	8567	8569	4	8	8564	to	8588
	MESAVERDE	8634	8636	4	8	8619	to	8646.5
	MESAVERDE	8717	8718	4	4	8709.5	to	8727.5
	MESAVERDE	8732	8733	4	4	8732	to	8738
	# of Perfs/stage				24	CBP DEPTH	8,478	
5	MESAVERDE	8408	8410	4	8	8381	to	8413
	MESAVERDE	8444	8448	4	16	8423	to	8468.5
	# of Perfs/stage				24	CBP DEPTH	8,152	
6	MESAVERDE	7942	7943	4	4	7939.5	to	7949
	MESAVERDE	7964	7965	4	4	7961	to	7967.5
	MESAVERDE	7979	7980	4	4	7971.5	to	7986
	MESAVERDE	8050	8051	4	4	8044	to	8056
	MESAVERDE	8120	8122	4	8	8088.5	to	8129
	# of Perfs/stage				24	CBP DEPTH	7,480	
7	WASATCH	7209	7210	3	3	7204	to	7213
	WASATCH	7344	7346	3	6	7337.5	to	7359
	WASATCH	7378	7380	3	6	7366.5	to	7386
	MESAVERDE	7448	7450	3	6	7427.5	to	7461
	# of Perfs/stage				21	CBP DEPTH	6,900	
8	WASATCH	6707	6708	4	4	6700.5	to	6713
	WASATCH	6719	6720	4	4	6715.5	to	6723
	WASATCH	6794	6796	4	8	6788	to	6798.5
	WASATCH	6868	6870	4	8	6862	to	6875
	# of Perfs/stage				24	CBP DEPTH	6,657	
	Totals				186			

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: ML 22582
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: NBU 921-3501CS	
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047513850000	
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6515 Ext	9. FIELD and POOL or WILDCAT: NATURAL BUTTES
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0398 FSL 1766 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSE Section: 35 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"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input checked="" type="checkbox"/> OTHER
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 9/1/2011		<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION
<input type="checkbox"/> SPUD REPORT Date of Spud:		<input type="checkbox"/> OTHER: <input type="text" value="WATER SHUT-OFF"/>
<input type="checkbox"/> DRILLING REPORT Report Date:		
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.		
<p>THE OPERATOR HAS PERFORMED A WORKOVER ON THE SUBJECT WELL. THE WORKOVER OPERATIONS CONSISTED OF A WATER SHUT OFF BY PERFORATION CEMENT SQUEEZE. PERFS FROM 6707-6870 WAS SQUEEZED OFF WITH CEMENT. THE SUBJECT WELL WAS RETURNED TO PRODUCTION ON 09/01/2011 AT 12:00 PM PLEASE SEE THE ATTACHED CHRONOLOGICAL WELL HISTORY FOR DETAILS.</p>		
<p>Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY</p>		
NAME (PLEASE PRINT) Sheila Wopsock	PHONE NUMBER 435 781-7024	TITLE Regulatory Analyst
SIGNATURE N/A		DATE 9/2/2011

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-3501CS (BLUE)		Spud Conductor: 1/31/2011		Spud Date: 2/16/2011	
Project: UTAH-UINTAH			Site: NBU 921-350 PAD		Rig Name No: ROCKY MOUNTAIN WELL SERVICE 3/3
Event: WELL WORK EXPENSE			Start Date: 8/18/2011		End Date: 8/31/2011
Active Datum: RKB @5,119.00ft (above Mean Sea Level)			UWI: SW/SE/0/9/S/21/E/35/0/0/6/PM/S/398.00/E/0/1,766.00/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
8/25/2011	7:00 - 18:00	11.00	WO/REP	30		P		<p>7AM [DAY 1] JSA -- R/D RIG, R/U RIG, POOH W/ TBG, W.L., RIH W/ TBG, PMPG CMT.</p> <p>R/D FROM NBU 921-3501BS. MOVE OVER & R/U UP ON NBU 921-3501CS. FTP=230#, FCP=230#. BLEW WELL DOWN. CONTROL TBG W/ 35 BBLS TMAC. NDWH, NUBOP, R/U FLOOR & TBG EQUIPMENT. POOH STDG BACK 2-3/8" L-80 TBG. [SLM] L/D BHA. TBG LOOKED GOOD.</p> <p>12 AM MIRU CHS. RIH W/ HALL 8K CBP & SET PLUG @ 6890'. POOH, RDMO CHS. HUNG UP @ 5500' WHEN POOH??</p> <p>1:30 RIH ON 2-3/8" TBG. EOT @ 6880'. MIRU PRO PETRO. P.T. SURFACE LINE TO 2500#. ESTB CIRC W/ 130 BBLS TMAC. NOT FULL CIRCULATION. PMP 2.6. BBLS F.W., 3.1 BBLS CMT, [15 SX] 1.15 YEILD, 15.8# NEAT CMT, 1% CAL, 1 BBL F.W., & 24.7 BBLS DISPLACEMENT W/ TMAC WATER.</p> <p>POOH W/ 8 JTS W/ EOT @ 6626'. REVERSE CIRCULATE W/ 40 BBLS TMAC. TOOK 7 BBLS TO CATCH PSI WHEN REVERSE CIRCULATING. CONTINUE POOH STDG BACK ALL TBG. RDMO PROPETRO.</p> <p>6PM SWI-SDFN. PREP TO D/O CMT & P.T. IN AM.</p>
8/26/2011	7:00 - 16:00	9.00	WO/REP	30		P		<p>7AM [DAY 2] JSA -- RIH W/ TBG, DRLG EQUIP, POOH W/ TBG.</p> <p>SICP= VACUM. P/U GOOD USED 3-7/8" DRAG BIT, NEW POBS, NEW XN NIPPLE & RIH ON 2-3/8" TBG. TAG CMT @ 6794'. R/U SWVL & RIG PUMP. ESTABLISH CIRCULATION W/ TMAC WATER. TOOK 40 BBLS TO GET CIRCULATION.</p> <p>DRILL & C/O 81' MEDIUM CMT TO 6875'. FELL THROUGH, RIH TO 6884;. P.T. CSG TO 500#. LOST 500# IN 5 MINUTES. PERFS-6707-08, 6794-96, & 6868-70'. CBP @ 6890'.</p> <p>POOH STDG BACK TBG. L/D BHA. P/U WTRFD CIRC FOR 4.5 X 11.6# CSG. RIH ON TBG. RETAINER @ 6640'.</p> <p>4 PM SWI- SDF-WE</p>

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-3501CS (BLUE)		Spud Conductor: 1/31/2011	Spud Date: 2/16/2011
Project: UTAH-UINTAH		Site: NBU 921-350 PAD	Rig Name No: ROCKY MOUNTAIN WELL SERVICE 3/3
Event: WELL WORK EXPENSE		Start Date: 8/18/2011	End Date: 8/31/2011
Active Datum: RKB @5,119.00ft (above Mean Sea Level)		UWI: SW/SE/0/9/S/21/E/35/0/0/6/PM/S/398.00/E/0/1,766.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
8/29/2011	7:00 - 15:00	8.00	WO/REP	30		P		<p>7AM [DAY 3] JSA -- PROPETRO, PSI, POOH W/ TBG, RIH W/ TBG.</p> <p>MIRU PROPETRO & WTFRD CMT MANIFOLD. SICP=0#, SITP=0#. P.T. TBG TO 1000#. LOST 0# IN 5 MINUTES. SET CICR @ 6640'. FILL HOLE W/ 23 BBLS TMAC @ 660# @ 2.5 BPM. PMP'D 30 BBLS TOTAL. STING INTO RETAINER. HOLD 500# ON BACKSIDE. ESTABLISH INJECTION RATE OF 1150# @ 1/2 BPM W/ 5 BBLS GONE.</p> <p>CALL FOR FLUID LOSS MATERIAL-- CFL-117. PSI UP CSG AGAIN TO 500#. PMP 2 BBLS F.W. @ 2.5 BPM @ 1100#. MIX & PMP 25 SKS NEAT G CMT, 15.8#, 1.15 YEILD @ 1 BPM @ 1100#. [5.1 BBLS] MIX & PMP 25 SKS CMT, 2% CFL-117 [FLUID LOSS ADDITIVE] @ 1.7 BPM @ 1100#. [5.1 BBLS] DISPLACE WITH 20.5 BBLS.</p> <p>CSG PSI WENT TO 1500# AFTER 7 BBLS PUMPED @ 1.7 BPM @ 1300#. CICR LEAK?? PMPG 2200# @ 0.5 BPM AT END OF 20.5 BBLS. STING OUT, PUH 62'. REVERSE CIRCULATE TBG CLEAN W/ 43 BBLS. CMT BACK IN RETURNS AT 22 BBLS PUMPED & BACK TO WATER AT 27 BBLS PUMPED. [EST 20 SKS PUMPED-- 4 BBLS INTO PERFS]</p> <p>RDMO PROPETRO.</p> <p>CONTINUE POOH STDG BACK TBG. L/D BHA. FOUND RUBBER CHUNK IN ELEMENT ON TOOL.</p> <p>P/U 3-7/8" FLOW TECH CONE BIT, POBS, XN NIPPLE & RIH ON 2-3/8" TBG. EOT @ 1500'.</p> <p>3 PM SWI-SDFD. LET CMT CURE OVER NIGHT. PREP TO D/O & P.T. IN AM.</p>
8/30/2011	7:00 -		WO/REP	30		P		<p>7AM [DAY 3] JSA-- RIH W/ TBG, D/O CICR, PSI,</p> <p>SITP= SLIGHT VACUM, SICP=SLIGHT VACUM. P/U 3-7/8" FLOW TECH CONE BIT, XO, & RIH ON 2-3/8" L-80 TBG. TAG CMT @ 6639'. R/U SWVL & RIG PUMP. ESTABLISH CIRCULATION W/ TMAC WATER. C/O 1' CMT TO TOP OF CICR @ 6640'. D/O CICR IN 4 HRS. RIH & D/O 78' HARD CMT TO 6720'. FELL THROUGH. RIH TO 6751'. CIRCULATE WELL CLEAN. P.T. CSG TO 500#. LOST 0# IN 10 MINUTES.</p> <p>POOH STDG BACK TBG. EOT @ 3150'.</p> <p>5PM SWI-SDFN. PREP TO RIH W/ BIT, POBS & C/O TO PBTD & LAND TBG IN AM.</p>

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-3501CS (BLUE)		Spud Conductor: 1/31/2011	Spud Date: 2/16/2011
Project: UTAH-UINTAH		Site: NBU 921-350 PAD	Rig Name No: ROCKY MOUNTAIN WELL SERVICE 3/3
Event: WELL WORK EXPENSE		Start Date: 8/18/2011	End Date: 8/31/2011
Active Datum: RKB @5,119.00ft (above Mean Sea Level)		UWI: SW/SE/0/9/S/21/E/35/0/0/6/PM/S/398.00/E/0/1,766.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
8/31/2011	7:00 -		WO/REP	30		P		<p>7AM [DAY 5] JSA--POOH W/ TBG, RIH W/ TBG, DRLG CBP, LANDING TBG, BROATCHING TBG.</p> <p>SITP=0#, SICP=0#. EOT @ 3150' CONTINUE POOH STDG BACK TBG. L/D BHA. P/U GOOD USED 3-7/8" FLOW TECH DRAG MILL, POBS W/ XN & RIH ON 2-3/8" TBG.</p> <p>TAG HALL 8K CBP @ 6890'. R/U SWVL & RIG PUMP. ESTABLISH CIRCULATION W/ TMAC WATER. D/O HALL 8K CBP IN 8 MIN. WELL WENT ON VACUM. RIH WTO 8960'. BROATCH TBG W/ 1.907 BROATCH. CONTINUE RIH, P/U TBG FROM FLOAT. [SLM & DRIFTRD] TAG @ 9597'. B.P. @ 9595'. POOH & L/D 21 JTS ON FLOAT. LAND TBG ON HANGER W/ 282 JTS 2-3/8" L-80 YELL BND TBG. EOT @ 8960.51', POBS W/ XN @ 8958.31'. R/D FLOOR & TBG EQUIPMENT. NDBOP, NUWH. DROP BALL DN TBG & PUMP OFF THE DRAG MILL @ 700#. LTR=90 BBLS. RACK EQUIPMENT. RDMO.</p> <p>1PM LEAVE WELL SHUT IN TO BUILD PSI.</p>

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

AMENDED REPORT FORM 8
(highlight changes)

5. LEASE DESIGNATION AND SERIAL NUMBER:
ML 22582

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT or CA AGREEMENT NAME
UTU63047A

8. WELL NAME and NUMBER:
NBU 921-3501CS

9. API NUMBER:
4304751385

10. FIELD AND POOL, OR WILDCAT
NATURAL BUTTES

11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
SWSE 35 9S 21E S

12. COUNTY **UINTAH** 13. STATE **UTAH**

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL: OIL WELL GAS WELL DRY OTHER _____

b. TYPE OF WORK: NEW WELL HORIZ. LATS. DEEP-EN RE-ENTRY DIFF. RESVR. OTHER _____

2. NAME OF OPERATOR:
KERR MCGEE OIL & GAS ONSHORE, L.P.

3. ADDRESS OF OPERATOR: P.O. BOX 173779 CITY DENVER STATE CO ZIP 80217 PHONE NUMBER: (720) 929-6100

4. LOCATION OF WELL (FOOTAGES)
AT SURFACE: **SWSE 398 FSL 1766 FEL S35, T9S, R21E**
AT TOP PRODUCING INTERVAL REPORTED BELOW: **SWSE 690 FSL 1847 FEL S35, T9S, R21E**
AT TOTAL DEPTH: **SWSE 659 FSL 1832 FEL S35, T9S, R21E**

14. DATE SPUDDED: 2/1/2011 15. DATE T.D. REACHED: 3/16/2011 16. DATE COMPLETED: 6/21/2011 ABANDONED READY TO PRODUCE 17. ELEVATIONS (DF, RKB, RT, GL): 5100 GL

18. TOTAL DEPTH: MD 9,660 TVD 9,636 19. PLUG BACK T.D.: MD 9,601 TVD 9,577 20. IF MULTIPLE COMPLETIONS, HOW MANY? * 21. DEPTH BRIDGE MD PLUG SET: TVD

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)
GRC-ACBL-RCBL-RCBL/GR-BHP-HDIL/ZDL/CNGR

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

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

HOLE SIZE	SIZE/GRADE	WEIGHT (#ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
20"	14" STL	36.7#		40		28			
11	8 5/8" IJ-55	28#		2,546		650		0	
7 7/8"	4 1/2" I-80	11.6#		9,645				130	

25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 3/8"	8,960							

26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)	INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS	
(A) WASATCH	6,707	7,380			6,707 7,380	0.36	39	Open <input checked="" type="checkbox"/>	Squeezed <input type="checkbox"/>
(B) MESAVERDE	7,448	9,595			7,448 9,595	0.36	147	Open <input checked="" type="checkbox"/>	Squeezed <input type="checkbox"/>
(C)								Open <input type="checkbox"/>	Squeezed <input type="checkbox"/>
(D)								Open <input type="checkbox"/>	Squeezed <input type="checkbox"/>

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

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
6707 - 9595	PUMP 6,388 BBLs SLICK H2O & 145,313 LBS SAND

RECEIVED

JUL 26 2011

DIV. OF OIL, GAS & MINING

29. ENCLOSED ATTACHMENTS:

- ELECTRICAL/MECHANICAL LOGS GEOLOGIC REPORT DST REPORT DIRECTIONAL SURVEY
 SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION CORE ANALYSIS OTHER: _____

30. WELL STATUS:

PROD

31. INITIAL PRODUCTION

INTERVAL A (As shown in Item #26)

DATE FIRST PRODUCED: 6/21/2011		TEST DATE: 6/25/2011		HOURS TESTED: 24		TEST PRODUCTION RATES: →	OIL – BBL: 0	GAS – MCF: 1,056	WATER – BBL: 520	PROD. METHOD: FLOWING
CHOKE SIZE: 20/64	TBG. PRESS. 1,350	CSG. PRESS. 2,450	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL: 0	GAS – MCF: 1,056	WATER – BBL: 520	INTERVAL STATUS: PROD

INTERVAL B (As shown in Item #26)

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

INTERVAL C (As shown in Item #26)

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

INTERVAL D (As shown in Item #26)

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

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

33. SUMMARY OF POROUS ZONES (Include Aquifers):

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

34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
GREEN RIVER	1,456				
BIRD'S NEST	1,736				
MAHOGANY	2,236				
WASATCH	4,725				
MESAVERDE	7,418	7,418	TD		

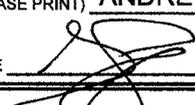
35. ADDITIONAL REMARKS (include plugging procedure)

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

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

NAME (PLEASE PRINT) ANDREW LYTLE

TITLE REGULATORY ANALYST

SIGNATURE 

DATE 7/20/2011

This report must be submitted within 30 days of

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

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

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

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

Phone: 801-538-5340
Fax: 801-359-3940

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 921-3501CS (BLUE)	Spud Conductor: 1/31/2011	Spud Date: 2/16/2011
Project: UTAH-UINTAH	Site: NBU 921-350 PAD	Rig Name No: PROPETRO 12/12, PIONEER 54/54
Event: DRILLING	Start Date: 2/3/2011	End Date: 3/18/2011
Active Datum: RKB @5,119.00ft (above Mean Sea Level)	UWI: SW/SE/0/9/S/21/E/35/0/0/6/PM/S/398.00/E/0/1,766.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
2/16/2011	18:30 - 19:30	1.00	MIRU	01	A	P		MOVE RIG IN OFF THE NBU 921-3501BS
	19:30 - 22:00	2.50	MIRU	01	B	P		RIG UP
	22:00 - 22:30	0.50	DRLSUR	06	A	P		P/U 1.83 DEG BENT HOUSING HUNTING MTR SN 8085 . 7/8 LOBE .17 RPG. M/U Q506 SN 7023207 2ND RUN, W/ 6-18'S. INSTALL RUBBER
	22:30 - 23:30	1.00	DRLSUR	02	B	P		SPUD SURFACE 02/16/2010 @ 22:30 HRS. DRILL 11" SURFACE HOLE F/40'-210' (170' @ 113'/HR) PSI ON/ OFF 690/410, UP/ DOWN/ ROT 25/20/22. 532 GPM, 45 RPM ON TOP DRIVE,90 RPM ON MM 15-18K WOB
2/17/2011	23:30 - 0:00	0.50	DRLSUR	06	A	P		TOH T/PU DIR. TOOLS
	0:00 - 1:30	1.50	DRLSUR	06	A	P		P/U DIR TOOLS & SCRIBE,TIH T/210'
	1:30 - 15:30	14.00	DRLSUR	02	D	P		DRILL/ SLIDE 11" SURFACE HOLE F/ 210'-1720' (1510' @ 108'/HR) PSI ON/ OFF 1130/910, UP/ DOWN/ ROT 70/57/61 136 SPM, 532 GPM, 18-22K WOB, 45 RPM ON TOP DRIVE,90 RPM ON MM, LOST RETURNS @ 1320' RUN AIR AS NEEDED TO MAINTAIN CIRC & RESERVE PIT LEVEL
2/18/2011	15:30 - 0:00	8.50	DRLSUR	02	D	P		DRILL/ SLIDE 11" SURFACE HOLE F/1720'-2440' (720' @ 85'/HR) PSI ON/ OFF 1100/910, UP/ DOWN/ ROT 80/62/70 136 SPM, 532 GPM, 18-22K WOB, 45 RPM ON TOP DRIVE,90 RPM ON MM, RUN AIR AS NEEDED TO MAINTAIN CIRC & RESERVE PIT LEVEL
	0:00 - 2:00	2.00	DRLSUR	02	D	P		DRILL/ SLIDE 11" SURFACE HOLE F/2440'-2560' (120' @ 60'/HR) PSI ON/ OFF 1100/910, UP/ DOWN/ ROT 85/65/72 136 SPM, 532 GPM, 18-22K WOB, 45 RPM ON TOP DRIVE,90 RPM ON MM, RUN AIR AS NEEDED TO MAINTAIN CIRC & RESERVE PIT LEVEL(TD 11" DIR. SURF, HOLE @ 02:00)
	2:00 - 3:30	1.50	DRLSUR	05	C	P		CIRC & COND HOLE F/LAYDOWN,CALIBER LOG & CSG
	3:30 - 7:30	4.00	DRLSUR	06	A	P		LAY DOWN DRILL STRING,11" BHA & DIR. TOOLS
	7:30 - 9:30	2.00	DRLSUR	11	D	P		HOLD SAFTEY MEETING R/U PIONEER LOGGING SERVICES,RUN CALIPER LOG F/2564' T/40'(LOGGERS TD 2564',DRILLERS TD 2560')
	9:30 - 10:00	0.50	CSG	12	B	P		R/U T/RUN 8 5/8" 28# SURF. CSG
	10:00 - 13:30	3.50	CSG	12	C	P		HOLD SAFTEY MEETING,RUN FLOAT SHOE, SHOE JNT.,BAFFEL& 56 JNTS 8 5/8" 28# LT&C SURF. CSG W/THE SHOE SET @2531' & THE BAFFEL SET @ 2485'
	13:30 - 14:00	0.50	CSG	12	A	P		RUN 75' 1" PIPE DOWN ANNULUS,R/U PRO PETRO CEMENT EQUIP.
14:00 - 15:30	1.50	CSG	12	E	P		HOLD SAFETY MEETING. INSTALL CEMENT HEAD. PSI TEST TO 2000 PSI. PUMP 140 BBLS OF 8.3# H2O AHEAD. NO CIRC. PUMP 20 BBLS OF 8.4# GEL WATER AHEAD. NO CIRC. PUMP 200 SX(136.1 BBLS) 11# 3.82 YIELD LEAD CEMENT, PUMP 200 SX (41 BBLS) OF 15.8# 1.15 YIELD TAIL(2% CALC, 1/4#/SK OF FLOCELE), NO CIRC. DROP PLUG ON FLY AND DISPLACE W/154 BBLS OF 8.3# H2O. LIFT PRESSURE WAS 290 PSI, BUMP PLUG AND HOLD 800 PSI FOR 5 MIN. FLOAT HELD,NO CEMENT TO SURF.	

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-3501CS (BLUE) Spud Conductor: 1/31/2011 Spud Date: 2/16/2011
 Project: UTAH-UINTAH Site: NBU 921-350 PAD Rig Name No: PROPETRO 12/12, PIONEER 54/54
 Event: DRILLING Start Date: 2/3/2011 End Date: 3/18/2011
 Active Datum: RKB @5,119.00ft (above Mean Sea Level) UWI: SW/SE/0/9/S/21/E/35/0/0/6/PM/S/398.00/E/0/1,766.00/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	15:30 - 16:00	0.50	CSG	12	F	P		TOP OUT W/100 SKS 15.8 PPG CLASS "G" CEMENT W/4% CACL2 & 1/4#/SK FLOCELE,NO CEMENT TO SURF.
	16:00 - 17:30	1.50	CSG	13	A	P		WAIT ON CEMENT
	17:30 - 18:00	0.50	CSG	12	F	P		TOP OUT W/150 SKS 15.8 PPG CLASS "G" CEMENT W/4% CACL2 & 1/4#/SK FLOCELE,RELEASE RIG @ 18:00 02/18/2011
	18:00 - 18:00	0.00	CSG					CONDUCTOR CASING: Cond. Depth set: 40' Cement sx used: 28
								SPUD DATE/TIME: 02/16/2011 22:30
								SURFACE HOLE: Surface From depth: 40' Surface To depth: 2,560 Total SURFACE hours: 25.50 Surface Casing size: 8 5/8 # of casing joints ran: 57 Casing set MD: 2,531.0 # sx of cement: 200/200/250 Cement blend (ppg): 11.0/15.8/15.8 Cement yield (ft3/sk): 3.82/1.15/1.15 # of bbls to surface: Describe cement issues: NONE Describe hole issues: NONE
3/12/2011	18:00 - 19:00	1.00	DRLPRO	01	C	P		SKID RIG TO THE NBU 921-3501CS, LEVEL & CENTER RIG, OFF DRLG SIDE KEPT SINKING 4-2X4'S UNDER SUB TO GET LEVEL
	19:00 - 20:00	1.00	DRLPRO	14	A	P		N/U BOPE
	20:00 - 0:00	4.00	DRLPRO	15	A	P		HPJSM W/ RIG & TESTER, R/U & TEST BOPE. RAMS & ALL VALVES 250-LOW 5000 HIGH, ANN 2500, CASING 1500 F/ 30 MIN'S
3/13/2011	0:00 - 0:30	0.50	DRLPRO	14	B	P		INSTALL WEAR BUSHING
	0:30 - 5:30	4.00	DRLPRO	06	A	P		P/U BIT & MM, CHANGE OUT NMDC'S & SUBS, TIH TO 2449'
	5:30 - 7:00	1.50	DRLPRO	09	A	P		CUT DRLG LINE
	7:00 - 8:30	1.50	DRLPRO	02	F	P		DRLG CEMENT, F/E & OPEN HOLE TO 2575'
	8:30 - 16:30	8.00	DRLPRO	02	D	P		DIR DRLG F/ 2575 TO 3777', 1202' @ 150.25' PH, WOB 18-20, CIRC RESERVE PIT W/ GEL & POLY SWEEPS,RPM 50, GPM 596, PU/SO/ROT 125-100-110, PSI ON/OFF 2100-1700, DIFF 300-500, TOR ON/OFF 7-6 K SLIDES 66' IN 1.42 HRS = 46.5' PH ROT 1136' IN 6.58 HRS = 172.6' PH
	16:30 - 17:00	0.50	DRLPRO	07	A	P		SERVICE RIG
	17:00 - 0:00	7.00	DRLPRO	02	D	P		DRLG F/ 3777 TO 4830', 1053' @ 150.4' PH, WOB 20, CIRC RESERVE PIT W/ GEL & POLY SWEEPS, RPM 50, GPM 596, PU/SO/ROT 145-120-125, PSI ON/OFF 2200-1800, DIFF 300-500, TOR ON/OFF 8-7 K
3/14/2011	0:00 - 15:00	15.00	DRLPRO	02	D	P		100% ROT DRLG F/ 4830 TO 6814', 1984' @ 132.3' PH, WOB 18-20, CIRC RESERVE W/ GEL & POLY SWEEPS & 10' FLARE, RPM 50, GPM 596, PU/SO/ROT 175-140-150, PSI ON/OFF 2600-1900, DIFF 300-500, TOR ON/OFF 10-9 K
	15:00 - 15:30	0.50	DRLPRO	07	A	P		100% ROT SERVICE RIG

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-3501CS (BLUE)		Spud Conductor: 1/31/2011		Spud Date: 2/16/2011	
Project: UTAH-UINTAH		Site: NBU 921-350 PAD		Rig Name No: PROPETRO 12/12, PIONEER 54/54	
Event: DRILLING		Start Date: 2/3/2011		End Date: 3/18/2011	
Active Datum: RKB @5,119.00ft (above Mean Sea Level)		UWI: SW/SE/0/9/S/21/E/35/0/0/6/PM/S/398.00/E/0/1,766.00/0/0			

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	15:30 - 0:00	8.50	DRLPRO	02	D	P		DRLG F/ 6814 TO 7575', 761' @ 95.1' PH, CIRC RESERVE PIT W/ GEL & POLY SWEEPS, WOB 22, CIRC RESERVE PIT W/ GEL & POLY SWEEPS, 10-15' FLARE BACKGROUND GAS, 30' CONN GAS, RPM 50, 1-PUMP GPM 454, PU/SO/ROT 205-175-157, PSI ON/OFF 1520-1300, DIFF 200-400, TOR 10-9 K SLIDES 65' IN 1.25 HRS = 51.2' PH ROT 696' IH 7.25 HRS = 96' PH
3/15/2011	0:00 - 15:00	15.00	DRLPRO	02	D	P		DRLG F/ 7575 TO 8670', 1095' @ 73' PH, MW 9.5, VIS 36, RPM 50, GPM 454, SPM 120, PU/SOROT 211/171/186, PSI ON/OFF 2200-2000, DIFF 200-450, TOR 11-10 K
	15:00 - 15:30	0.50	DRLPRO	22	N	X		TOOK 70 BBL GAIN, CIRC OUT GAS, BOP DRILL 1 MIN, 40-50' FLARE
	15:30 - 18:00	2.50	DRLPRO	02	D	P		DRLG F/ 8670 TO 8810', 140' @ 56' PH
	18:00 - 18:30	0.50	DRLPRO	07	A	P		SEVICE RIG, WINTERIZE CHOKE MANIFOLD
	18:30 - 0:00	5.50	DRLPRO	02	D	P		DRLG F/ 8810 TO 9040', 230' @ 41.8' PH, WOB 22, MW 11.3, VIS 38, RPM 50, MM 104, SPM 120, GPM 454, PU/SO/ROT 225-175-190, PSI ON/OFF 2300-1900, DIFF 200-400, TOR 12-10 K 100% ROT
3/16/2011	0:00 - 17:30	17.50	DRLPRO	02	D	P		DRLG F/ 9040 TO 9660', 620' @ 35.42' PH WOB 22, MW 12.0, VIS 44, RPM 60, MM 104, SPM 120, GPM 454, PU/SO/ROT 215-174-191, PSI ON/OFF 2800-2500, TOR 12-10 K 100% ROT
	17:30 - 18:00	0.50	DRLPRO	07	A	P		RIG SERVICE
	18:00 - 20:00	2.00	DRLPRO	05	F	P		PUMP HIGH VISC SWEEP CIRC HOLE CLEAN
	20:00 - 0:00	4.00	DRLPRO	06	E	P		WIPER TRIP UP TO 4000'
3/17/2011	0:00 - 2:00	2.00	DRLPRO	06	E	P		RIH WIPER TRIP
	2:00 - 4:00	2.00	DRLPRO	05	F	P		PUMP HIGH VISC SWEEP CIRC HOLE CLEAN
	4:00 - 7:30	3.50	DRLPRO	06	B	P		POOH FOR O-HOLE LOGS
	7:30 - 8:30	1.00	DRLPRO	05	F	P		CIRC MUD OVER SHAKER AT SHOE
	8:30 - 9:30	1.00	DRLPRO	06	B	P		POOH FOR O-HOLE LOGS
	9:30 - 15:30	6.00	DRLPRO	11	D	P		RIG UP AND RUN O-HOLE LOGS LOGGER TD 9655' RIG DOWN
	15:30 - 18:30	3.00	DRLPRO	11	E	P		RIG UP PIONEER LOGGERS RIH TO 600' CALIPER ARMS PLUGGED UP POOH WITH TOOL AND CLEAN ARMS RIH TO 150' LOG UP OK RIH TO SHOE AND LOG UP TO SURFACE RIG DOWN LOGGERS
	18:30 - 19:00	0.50	DRLPRO	14	B	P		PULL W/BUSHING
	19:00 - 19:30	0.50	DRLPRO	12	A	P		SAFETY MEETING
	19:30 - 0:00	4.50	DRLPRO	12	C	P		RIG UP CSG EQUIPMENT
3/18/2011	0:00 - 3:30	3.50	DRLPRO	12	C	P		RUN 4.5" 11.6# I-80 BUTT CSG RUN 232 JTS 4.5" 11.6# CSG TO 9645' FC 9602 MARKER AT 7327' AND 4737'
	3:30 - 5:00	1.50	DRLPRO	05	D	P		CIRC PRIOR TO CEMENT JOB
	5:00 - 8:00	3.00	DRLPRO	12	E	P		CEMENT 4.5" 11.6# I-80 BUTT PUMPED PLUG @ 07:45 40 BBL CMT TO SURFACE PLUG HELD
	8:00 - 8:30	0.50	DRLPRO	14	B	P		SET SLIPS 110K
	8:30 - 10:00	1.50	DRLPRO	14	A	P		NIPPLE DOWN BOPE

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-3501CS (BLUE)		Spud Conductor: 1/31/2011	Spud Date: 2/16/2011
Project: UTAH-UINTAH		Site: NBU 921-350 PAD	Rig Name No: PROPETRO 12/12, PIONEER 54/54
Event: DRILLING		Start Date: 2/3/2011	End Date: 3/18/2011
Active Datum: RKB @5,119.00ft (above Mean Sea Level)		UWI: SW/SE/0/9/S/21/E/35/0/0/6/PM/S/398.00/E/0/1,766.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	10:00 - 12:00	2.00	DRLPRO	01	E	P		CLEAN PITS PREPAIR TO SKID RIG RELEASE RIG @ 12:00 3/18/2011 PRODUCTION: Rig Move/Skid start date/time: 3/12/2011 18:00 Rig Move/Skid finish date/time: 3/12/2011 19:00 Total MOVE hours: 1.0 Prod Rig Spud date/time: 3/13/2011 7:00 Rig Release date/time: 3/18/2011 12:00 Total SPUD to RR hours: 125.0 Planned depth MD 9,665 Planned depth TVD 9,645 Actual MD: 9,660 Actual TVD: 9,636 Open Wells \$: AFE \$: Open wells \$/ft: PRODUCTION HOLE: Prod. From depth: 2,452 Prod. To depth: 9,660 Total PROD hours: 79 Log Depth: 9655 Float Collar Top Depth: 9602 Production Casing size: 4 1/2 # of casing joints ran: 230 Casing set MD: 9,645.0 Stage 1 # sx of cement: LEAD=1268, TAIL=518 Cement density (ppg:) 11.5-14.3 Cement yield (ft3/sk): 2.03-1.31 Stage 2 # sx of cement: Cement density (ppg): Cement yield (ft3/sk): Top Out Cmt # sx of cement: Cement density (ppg): Cement yield (ft3/sk): Est. TOC (Lead & Tail) or 2 Stage : Describe cement issues: Describe hole issues: DIRECTIONAL INFO: KOP: 249 Max angle: 9.20 Departure: 340.00 Max dogleg MD: 2.30-3531

1 General

1.1 Customer Information

Company	US ROCKIES REGION
Representative	
Address	

1.2 Well Information

Well	NBU 921-3501CS (BLUE)		
Common Name	NBU 921-3501CS		
Well Name	NBU 921-3501CS	Wellbore No.	OH
Report No.	1	Report Date	6/13/2011
Project	UTAH-UINTAH	Site	NBU 921-350 PAD
Rig Name/No.		Event	COMPLETION
Start Date	6/13/2011	End Date	6/21/2011
Spud Date	2/16/2011	Active Datum	RKB @5,119.00ft (above Mean Sea Level)
UWI	SW/SE/0/9/S/21/E/35/0/0/6/PM/S/398.00/E/0/1,766.00/0/0		

1.3 General

Contractor	CUTTERS WIRELINE	Job Method	PERFORATE	Supervisor	DAVE DANIELS
Perforated Assembly	PRODUCTION CASING	Conveyed Method	WIRELINE		

1.4 Initial Conditions

Fluid Type		Fluid Density		Gross Interval	6,707.0 (ft)-9,595.0 (ft)	Start Date/Time	6/13/2011 12:00AM
Surface Press		Estimate Res Press		No. of Intervals	30	End Date/Time	6/13/2011 12:00AM
TVD Fluid Top		Fluid Head		Total Shots	186	Net Perforation Interval	50.00 (ft)
Hydrostatic Press		Press Difference		Avg Shot Density	3.72 (shot/ft)	Final Surface Pressure	
Balance Cond	NEUTRAL					Final Press Date	

1.5 Summary

2 Intervals

2.1 Perforated Interval

Date	Formation/Reservoir	CCL@ (ft)	CCL-T S (ft)	MD Top (ft)	MD Base (ft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diameter (in)	Carr Type /Carr Manuf	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
12:00AM	WASATCH/			6,707.0	6,708.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO	
														N	

2.1 Perforated Interval (Continued)

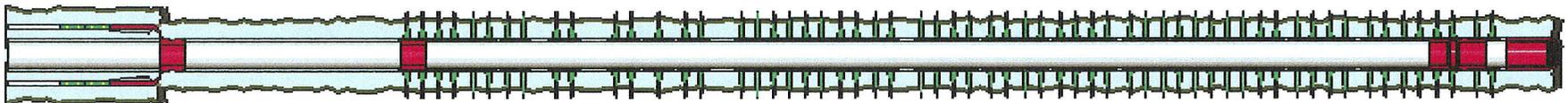
Date	Formation/ Reservoir	CCL@ (ft)	CCL-T S (ft)	MD Top (ft)	MD Base (ft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diamete r (in)	Carr Type /Carr Manuf	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
12:00AM	WASATCH/			6,719.0	6,720.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00AM	WASATCH/			6,794.0	6,796.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00AM	WASATCH/			6,868.0	6,870.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00AM	WASATCH/			7,209.0	7,210.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AM	WASATCH/			7,344.0	7,346.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AM	WASATCH/			7,378.0	7,380.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AM	MESAVERDE/			7,448.0	7,450.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AM	MESAVERDE/			7,942.0	7,943.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00AM	MESAVERDE/			7,964.0	7,965.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00AM	MESAVERDE/			7,979.0	7,980.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00AM	MESAVERDE/			8,050.0	8,051.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00AM	MESAVERDE/			8,120.0	8,122.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00AM	MESAVERDE/			8,408.0	8,410.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00AM	MESAVERDE/			8,444.0	8,448.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00AM	MESAVERDE/			8,567.0	8,569.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00AM	MESAVERDE/			8,634.0	8,636.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00AM	MESAVERDE/			8,717.0	8,718.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00AM	MESAVERDE/			8,732.0	8,733.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00AM	MESAVERDE/			8,876.0	8,877.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00AM	MESAVERDE/			8,919.0	8,921.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00AM	MESAVERDE/			8,935.0	8,937.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (ft)	CCL-T S (ft)	MD Top (ft)	MD Base (ft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diamete r (in)	Carr Type /Carr Manuf	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
12:00AM	MESAVERDE/			8,959.0	8,960.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00AM	MESAVERDE/			9,001.0	9,002.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00AM	MESAVERDE/			9,114.0	9,117.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00AM	MESAVERDE/			9,150.0	9,152.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00AM	MESAVERDE/			9,322.0	9,324.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AM	MESAVERDE/			9,382.0	9,383.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AM	MESAVERDE/			9,426.0	9,428.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AM	MESAVERDE/			9,593.0	9,595.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	

3 Plots

3.1 Wellbore Schematic



US ROCKIES REGION
Operation Summary Report

Well: NBU 921-3501CS (BLUE)	Spud Conductor: 1/31/2011	Spud Date: 2/16/2011
Project: UTAH-UINTAH	Site: NBU 921-350 PAD	Rig Name No: MILES 3/3
Event: COMPLETION	Start Date: 6/13/2011	End Date: 6/21/2011
Active Datum: RKB @5,119.00ft (above Mean Sea Level)	UWI: SW/SE/0/9/S/21/E/35/0/0/6/PM/S/398.00/E/0/1,766.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
6/8/2011	10:30 - 10:45	0.25	COMP	48		P		HSM & JSA W/ROYAL WELL SERVICE
	10:45 - 17:00	6.25	COMP	31	I	P		MIRU - SPOT EQUIP. NDWH, NU BOP. RU FLOOR & TBG EQUIP. WHP = 0 PSI. PREP & TALLY TBG. PU 3 7/8" BIT & SUB. RIH ON 2 3/8" TBG. TAG FILL @ 9585'. RU PMP & PWR SWVL. EST CIRC. DRLG OUT FLOAT COLLAR & CMT DWN TO 9625'. (SHOE @ 9643') CIRC WELL CLEAN. RD PWR SWVL, RU TBG EQUIP. POOH & LD 51 JTS ON FLOAT. EOT @ 8424'. SWI - SDFN. PREP TO CONT. TO POOH W/BHA IN AM.
6/9/2011	6:45 - 7:00	0.25	COMP	48		P		HSM & JSA W/ROYAL WELL SERVICE
	7:00 - 10:30	3.50	COMP	31	I	P		WHP = 0 PSI. EOT @ 8424'. CONT. TO POOH & LD TBG ON FLOAT. LD BIT & SUB. ND BOP, NUWH. RDMO SERVICE UNIT. ROAD RIG TO NBU 921-35B PAD,
6/10/2011	7:00 - 15:00	8.00	COMP	33	C	P		FILL SURFACE CSG. PSI TEST T/ 1000 PSI. HELD FOR 15 MIN LOST 6 PSI. PSI TEST T/ 3500 PSI. HELD FOR 15 MIN LOST 31 PSI. 1ST PSI TEST T/ 7000 PSI. HELD FOR 30 MIN LOST 69 PSI. 2ND PSI TEST T/ 7000 PSI. HELD FOR 30 MIN. LOST 31 PSI. BLEED OFF PSI. MOVE T/ NEXT WELL. SWIFWE.

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-3501CS (BLUE)		Spud Conductor: 1/31/2011		Spud Date: 2/16/2011	
Project: UTAH-UINTAH		Site: NBU 921-350 PAD		Rig Name No: MILES 3/3	
Event: COMPLETION		Start Date: 6/13/2011		End Date: 6/21/2011	
Active Datum: RKB @5,119.00ft (above Mean Sea Level)		UWI: SW/SE/0/9/S/21/E/35/0/0/6/PM/S/398.00/E/0/1,766.00/0/0			

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
6/13/2011	7:30 - 18:00	10.50	COMP	36	B	P		<p>PERF STG 1)PU 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 & 120 DEG PHASING. PERF AS PER STG 1 PERF DESIGN. POOH X-OVER FOR FRAC CREW</p> <p>FRAC STG 1)WHP 300 PSI, BRK 2926 PSI @ 3.1 BPM. ISIP 2496 PSI, FG .70. PUMP 100 BBLS @ 35.2 BPM @ 6165 PSI = 60% HOLES OPEN. ISIP 2894 PSI, FG .74, NPI 390 PSI. MP 6583 PSI, MR 48.1 BPM, AP 5826 PSI, AR 39.9 BPM, PMP 1004 BBLS SW & 14,157 LBS OF 30/50 SND & 2547 LBS OF 20/40 RESIN SND. TOTAL PROP 16,704 LBS SWI X-OVER TO WIRE LINE</p> <p>PERF STG 2)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 9182' P/U PERF AS PER PERF DESIGN. POOH.X-OVER FOR FRAC CREW.</p> <p>FRAC STG 2)WHP 1780 PSI, BRK 4513 PSI @ 5.9 BPM. ISIP 2683 PSI, FG .73. PUMP 100 BBLS @ 34.8 BPM @ 5842 PSI = 60% HOLES OPEN. ISIP 3045 PSI, FG .77, NPI 362 PSI. MP 6437 PSI, MR 45.8 BPM, AP 6088 PSI, AR 43.7 BPM, PMP 728 BBLS SW & 10,770 LBS OF 30/50 SND & 2116 LBS OF 20/40 RESIN SND. TOTAL PROP 12,886 LBS SWI X-OVER TO PERF</p> <p>PERF STG 3)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 8990' P/U PERF AS PER PERF DESIGN. POOH.X-OVER TO FRAC CREW.</p> <p>FRAC STG 3)WHP 1728 PSI, BRK 3382 PSI @ 6.0 BPM. ISIP 2606 PSI, FG .73. PUMP 100 BBLS @ 43.4 BPM @ 5411 PSI = 79% HOLES OPEN. ISIP 3128 PSI, FG .79, NPI 522 PSI. MP 6599 PSI, MR 48.8 BPM, AP 6079 PSI, AR 44-9 BPM, PMP 686 BBLS SW & 9432 LBS OF 30/50 SND & 2529 LBS OF 20/40 RESIN SND. TOTAL PROP 11,961 LBS,SWI X-OVER TO WL</p> <p>PERF STG 4)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 8763' P/U PERF AS PER PERF DESIGN. POOH.X-OVER TO FRAC CREW.</p> <p>FRAC STG 4)WHP 1170 PSI, BRK 3735 PSI @ 4.7 BPM. ISIP 2494 PSI, FG .73. PUMP 100 BBLS @ 38.1 BPM @ 5246 PSI = 66% HOLES OPEN. ISIP 2745 PSI, FG .76, NPI 251 PSI. MP 6295 PSI, MR 50.6 BPM, AP 5951 PSI, AR 48.7 BPM, PMP 614 BBLS SW & 6,613 LBS OF 30/50 SND & 2,510 LBS OF 20/40 RESIN SND. TOTAL PROP 11,123 LBS,SWI X-OVER TO WL.</p>

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-35O1CS (BLUE)	Spud Conductor: 1/31/2011	Spud Date: 2/16/2011
Project: UTAH-UINTAH	Site: NBU 921-35O PAD	Rig Name No: MILES 3/3
Event: COMPLETION	Start Date: 6/13/2011	End Date: 6/21/2011
Active Datum: RKB @5,119.00ft (above Mean Sea Level)	UWI: SW/SE/0/9/S/21/E/35/0/0/6/PM/S/398.00/E/0/1,766.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
								<p>PERF STG 5)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 8478' P/U PERF AS PER STG 5 PERF DESIGN. POOH. X-OVER FOR FRAC CREW.</p> <p>FRAC STG 5)WHP 1635 PSI, BRK 3313 PSI @ 4.7 BPM. ISIP 2246 PSI, FG .71. PUMP 100 BBLS @ 39.6 BPM @ 4811 PSI = 73% HOLES OPEN. ISIP 2664 PSI, FG .75, NPI 418 PSI. MP 6485 PSI, MR 45.5 BPM, AP 6162 PSI, AR 43.7 BPM, PMP 606 BBLS SW & 8,959 LBS OF 30/50 SND & 2,243 LBS OF 20/40 RESIN SND. TOTAL PROP 11,202 LBS. SWIFN.</p> <p>PERF STG 6 IN THE :AM.</p>

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 921-3501CS (BLUE)		Spud Conductor: 1/31/2011		Spud Date: 2/16/2011	
Project: UTAH-UINTAH		Site: NBU 921-350 PAD		Rig Name No: MILES 3/3	
Event: COMPLETION		Start Date: 6/13/2011		End Date: 6/21/2011	
Active Datum: RKB @5,119.00ft (above Mean Sea Level)		UWI: SW/SE/0/9/S/21/E/35/0/0/6/PM/S/398.00/E/0/1,766.00/0/0			

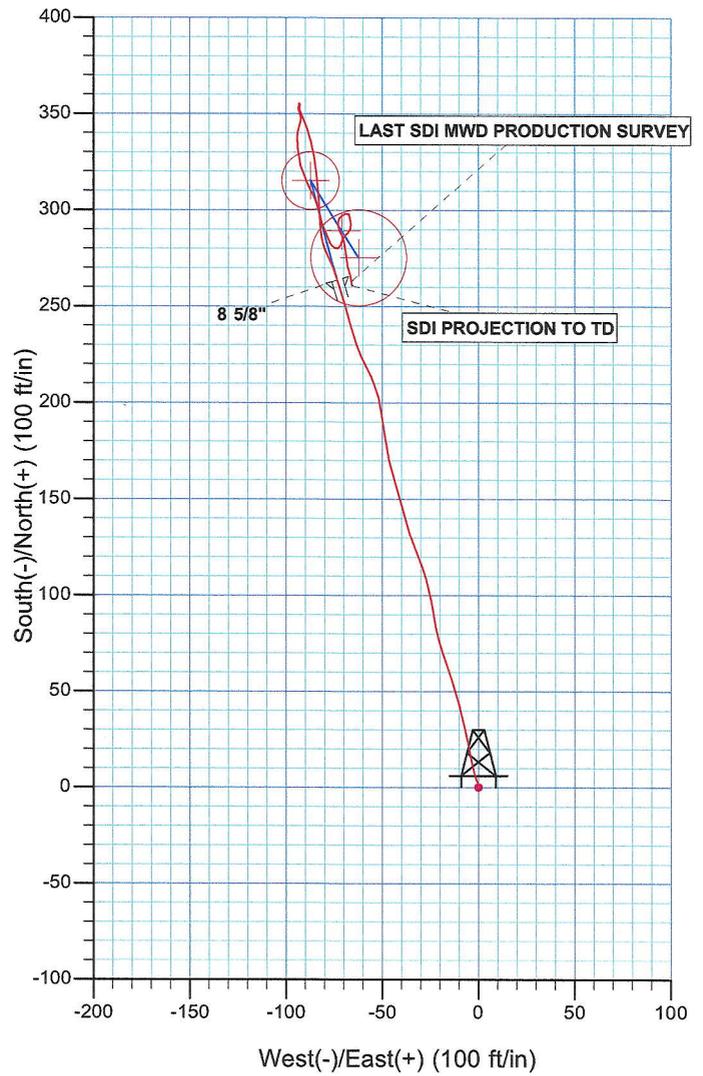
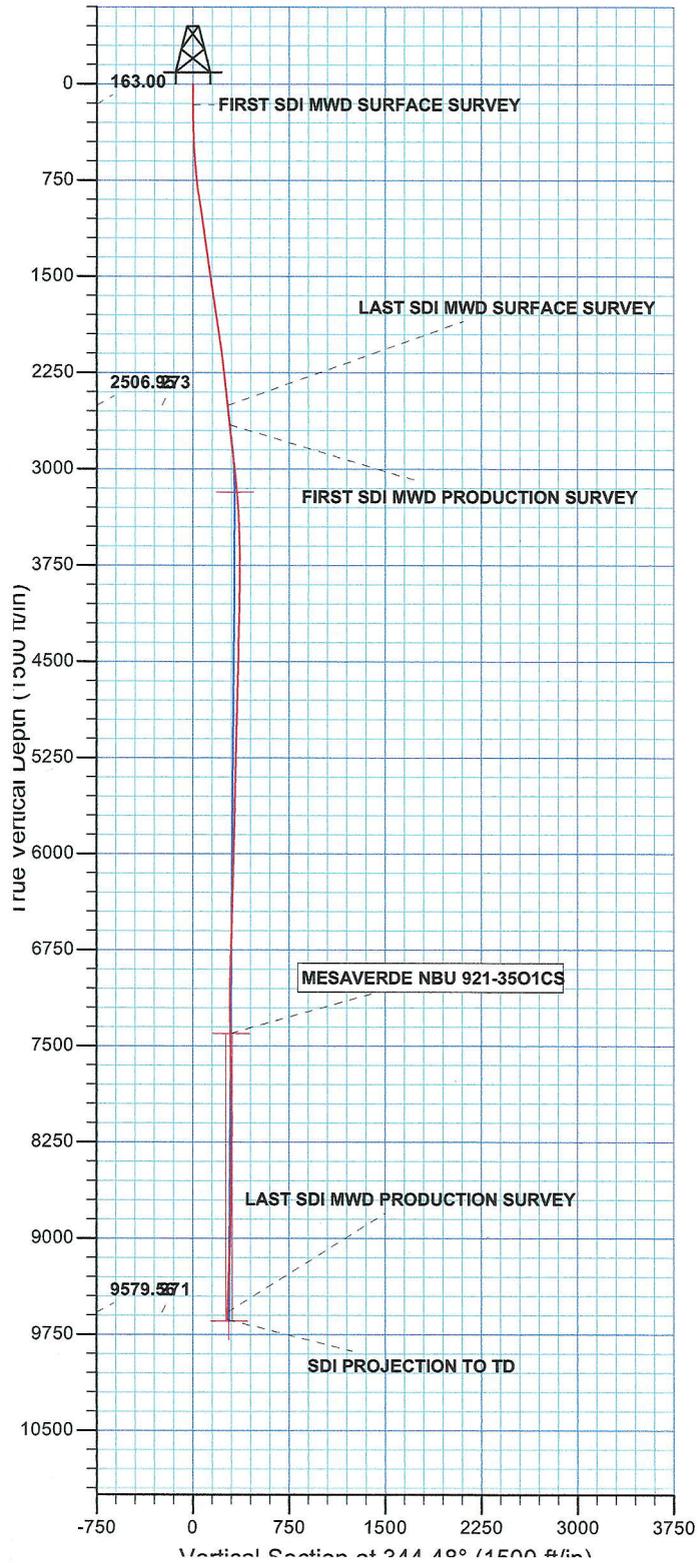
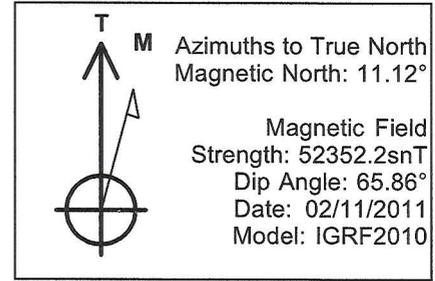
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
6/14/2011	8:10 - 18:00	9.83	COMP	36	B	P		<p>PERF STG 6)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 8152' P/U PERF AS PER PERF DESIGN. POOH.X-OVER TO FRAC CREW</p> <p>FRAC STG 6)WHP 536 PSI, BRK 3214 PSI @ 4.6 BPM. ISIP 2900 PSI, FG .70. PUMP 100 BBLS @ 50.5 BPM @ 5478 PSI = 81% HOLES OPEN. ISIP 2525 PSI, FG .75, NPI 435 PSI. MP 5797 PSI, MR 50.7 BPM, AP 5446 PSI, AR 50.2 BPM, PMP 620 BBLS SW & 8840 LBS OF 30/50 SND & 2737 LBS OF 20/40 RESIN SND. TOTAL PROP 11,577 LBS SWI X-OVER TO WL</p> <p>PERF STG 7)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 7480' P/U PERF AS PER PERF DESIGN. POOH.X-OVER FOR FRAC CREW</p> <p>FRAC STG 7)WHP 420 PSI, BRK 1802 PSI @ 4.5 BPM. ISIP 1152 PSI, FG .60. PUMP 100 BBLS @ 50.5 BPM @ 4511 PSI = 91% HOLES OPEN. ISIP 2032 PSI, FG .72, NPI 880 PSI. MP 5520 PSI, MR 50.8 BPM, AP 4798 PSI, AR 50.3 BPM, PMP 1338 BBLS SW & 38,996 LBS OF 30/50 SND & 5145 LBS OF 20/40 RESIN SND. TOTAL PROP 44,141 LBS SWI X-OVER TO WL</p> <p>PERF STG 8)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 6900' P/U PERF AS PER PERF DESIGN. POOH.X-OVER TO FRAC CREW</p> <p>FRAC STG 8)WHP 314 PSI, BRK 1860 PSI @ 4.4 BPM. ISIP 1112 PSI, FG .60. PUMP 100 BBLS @ 50.5 BPM @ 4752 PSI = 73% HOLES OPEN. ISIP 1947 PSI, FG .73, NPI 835 PSI. MP 6057 PSI, MR 51 BPM, AP 4833 PSI, AR 50.4 BPM, PMP 792 BBLS SW & 20,119 LBS OF 30/50 SND & 5,600 LBS OF 20/40 RESIN SND. TOTAL PROP 25,719 LBS SWI X-OVER TO WL</p> <p>KILL PLUG-PU 4 1/2 HAL CBP RIH SET @ 6657 POOH SWI</p> <p>TOTAL SAND = 145,313 LBS TOTAL CLFL = 6388 BBLS TOTAL SCALE = 796 GAL TOTAL BIO = 110 GAL</p>
6/20/2011	7:00 - 7:15	0.25	COMP	48		P		JSA- PU TBG. SET WH COVER.
	7:15 - 12:30	5.25	COMP	31	I	P		SET WH COVER. HOOK UP FLOW LINE. SPOT TBG TRAILER. MU 3-7/8" BIT AND POBS. RIH AS MEAS AND PU 2-3/8" L-80 TBG. TAG AT 6643'. RU DRLG EQUIP. FILL TBG AND PRES TEST TO 3000#. GOOD. EST CIRC AND D/O PLUGS.

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-3501CS (BLUE)		Spud Conductor: 1/31/2011		Spud Date: 2/16/2011	
Project: UTAH-UINTAH			Site: NBU 921-350 PAD		Rig Name No: MILES 3/3
Event: COMPLETION			Start Date: 6/13/2011		End Date: 6/21/2011
Active Datum: RKB @5,119.00ft (above Mean Sea Level)			UWI: SW/SE/0/9/S/21/E/35/0/0/6/PM/S/398.00/E/0/1,766.00/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	12:30 - 16:00	3.50	COMP	44	C	P		#1- C/O 25' SAND TO CBP AT 6668'. D/O IN 10 MIN. 500# INC. FCP 0. RIH. #2- C/O 30' SAND TO CBP AT 6900'. D/O IN 8 MIN. 200# INC. FCP 0-100. RIH. #3- C/O 45' SAND TO CBP AT 7490'. D/O IN 7 MIN. 400# INC. FCP 100-700. RIH. #4- C/O 28' SAND TO CBP AT 8150'. D/O IN 5 MIN. 700# INC. FCP 400-600. HAVE 258-JTS IN, EOT AT 8181. CIRC CLEAN. SWI AND SDFN. JSA- PPE. D/O PLUGS.
6/21/2011	7:00 - 7:15	0.25	COMP	48		P		SITP 0, SICP 2750. BWD. EST CIRC AND CONT D/O PLUGS.
	7:15 - 11:00	3.75	COMP	44	C	P		#5- C/O 30' SAND TO CBP AT 8478'. D/O IN 5 MIN. 700# INC. FCP 500-600. RIH. #6- C/O 45' SAND TO CBP AT 8763'. D/O IN 3 MIN. 500# INC. FCP 600-700. RIH. #7- C/O 25' SAND TO CBP AT 8988'. D/O IN 4 MIN. 500# INC. FCP 500. RIH. #8- C/O 25' SAND TO CBP AT 9182'. D/O IN 2 MIN. 600# INC. FCP 600. RIH. PBTD- C/O 35' SAND TO PBTD AT 9625' (30' RATHOLE) W/ 305-JTS IN. CIRC CLEAN. RD PWR SWIVEL. POOH AS LD 32-JTS TBG. PU 4" 10K HANGER. LUB IN AND LAND 282-JTS 2-3/8" L-80 TBG W/ EOT AT 8960.34'. RD FLOOR. ND BOP. NU WH. POBS AT 2700#. SITP 850, SICP 1550, SURFACE OPEN- NO FLOW OR BLOW. TURN OVER TO FBC AND SALES. TBG DETAIL KB 19.00 4" 10K HANGER .83 282-JTS L-80 8938.31 1.87" XN FE POBS 2.20 EOT 8960.34
	12:00 - 12:00	0.00	PROD	50				TWTR 6388 / TWR 2400 / LTR 3988 WELL TURNED TO SALES @ 1200 HR ON 6/21/11 - 700 MCFD, 1920 BWPD, CP 1900#, FTP 1800#, CK 20/64"
6/22/2011	7:00 -			33	A			7 AM FLBK REPORT: CP 2800#, TP 1700#, 20/64" CK, 47 BWPH, HVY SAND, - GAS TTL BBLS RECOVERED: 3400 BBLS LEFT TO RECOVER: 2988
6/23/2011	7:00 -			33	A			7 AM FLBK REPORT: CP 2900#, TP 1600#, 20/64" CK, 36 BWPH, MED SAND, - GAS TTL BBLS RECOVERED: 4382 BBLS LEFT TO RECOVER: 2006
6/24/2011	7:00 -			33	A			7 AM FLBK REPORT: CP 2650#, TP 1450#, 20/64" CK, 28 BWPH, LIGHT SAND, - GAS TTL BBLS RECOVERED: 5121 BBLS LEFT TO RECOVER: 1267
6/25/2011	7:00 -			33	A			7 AM FLBK REPORT: CP 2450#, TP 1350#, 20/64" CK, 20 BWPH, TRACE SAND, - GAS TTL BBLS RECOVERED: 5703 BBLS LEFT TO RECOVER: 685

WELL DETAILS: NBU 921-3501CS					
GL 5100' & KB 19' @ 5119.00R (PIONEER 54)					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	14524550.81	2056370.79	39° 59' 10.986 N	109° 30' 54.299 W



PROJECT DETAILS: UTAH - UTM (feet), NAD27, Zone 12N
Geodetic System: Universal Transverse Mercator (US Survey Feet)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: Zone 12N (114 W to 108 W)
Location: SECTION 35 T9S R21E
System Datum: Mean Sea Level



US ROCKIES REGION PLANNING

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

UINTAH_NBU 921-350 PAD

NBU 921-3501CS

NBU 921-3501CS

Design: NBU 921-3501CS

Standard Survey Report

29 March, 2011



Company: US ROCKIES REGION PLANNING	Local Co-ordinate Reference: Well NBU 921-3501CS
Project: UTAH - UTM (feet), NAD27, Zone 12N	TVD Reference: GL 5100' & KB 19' @ 5119.00ft (PIONEER 54)
Site: UINTAH_NBU 921-350 PAD	MD Reference: GL 5100' & KB 19' @ 5119.00ft (PIONEER 54)
Well: NBU 921-3501CS	North Reference: True
Wellbore: NBU 921-3501CS	Survey Calculation Method: Minimum Curvature
Design: NBU 921-3501CS	Database: EDM5000-RobertS-Local

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 UINTAH_NBU 921-350 PAD, SECTION 35 T9S R21E
Site Position: Northing: 14,524,559.98 usft Latitude: 39° 59' 11.076 N
From: Lat/Long Easting: 2,056,374.00 usft Longitude: 109° 30' 54.256 W
Position Uncertainty: 0.00 ft Slot Radius: 13.200 in Grid Convergence: 0.95 °

Well NBU 921-3501CS, 398 FSL 1766 FEL
Well Position +N/-S 0.00 ft Northing: 14,524,550.82 usft Latitude: 39° 59' 10.986 N
+E/-W 0.00 ft Easting: 2,056,370.79 usft Longitude: 109° 30' 54.299 W
Position Uncertainty 0.00 ft Wellhead Elevation: ft Ground Level: 5,100.00 ft

Wellbore NBU 921-3501CS					
Magnetics	Model Name IGRF2010	Sample Date 02/11/2011	Declination (°) 11.12	Dip Angle (°) 65.86	Field Strength (nT) 52,352

Design NBU 921-3501CS				
Audit Notes:				
Version: 1.0 Phase: ACTUAL Tie On Depth: 0.00				
Vertical Section:	Depth From (TVD) (ft) 0.00	+N/-S (ft) 0.00	+E/-W (ft) 0.00	Direction (°) 344.48

Survey Program Date 03/29/2011		
From (ft) To (ft) Survey (Wellbore) Tool Name Description		
15.00 2,525.00 Survey #1 SDI MWD SURFACE (NBU 921	SDI MWD	SDI MWD - Standard ver 1.0.1
2,677.00 9,660.00 Survey #2 SDI MWD PRODUCTION (NBU	SDI MWD	SDI MWD - Standard ver 1.0.1

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15.00	0.00	0.00	15.00	0.00	0.00	0.00	0.00	0.00	0.00
163.00	0.22	24.38	163.00	0.26	0.12	0.22	0.15	0.15	0.00
FIRST SDI MWD SURFACE SURVEY									
249.00	1.21	349.38	248.99	1.30	0.02	1.25	1.21	1.15	-40.70
334.00	1.97	341.51	333.96	3.57	-0.61	3.60	0.93	0.89	-9.26
425.00	2.14	340.18	424.90	6.65	-1.68	6.86	0.19	0.19	-1.46
515.00	2.58	346.05	514.82	10.20	-2.74	10.56	0.56	0.49	6.52
605.00	3.88	349.62	604.68	15.16	-3.78	15.62	1.46	1.44	3.97
695.00	5.69	348.13	694.36	22.52	-5.24	23.10	2.02	2.01	-1.66

Company: US ROCKIES REGION PLANNING
Project: UTAH - UTM (feet), NAD27, Zone 12N
Site: UINTAH_NBU 921-350 PAD
Well: NBU 921-3501CS
Wellbore: NBU 921-3501CS
Design: NBU 921-3501CS

Local Co-ordinate Reference: Well NBU 921-3501CS
TVD Reference: GL 5100' & KB 19' @ 5119.00ft (PIONEER 54)
MD Reference: GL 5100' & KB 19' @ 5119.00ft (PIONEER 54)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM5000-RobertS-Local

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)	
785.00	7.29	347.14	783.78	32.45	-7.43	33.26	1.78	1.78	-1.10	
875.00	8.18	345.05	872.96	44.21	-10.36	45.37	1.04	0.99	-2.32	
965.00	8.81	342.37	961.97	56.96	-14.10	58.66	0.83	0.70	-2.98	
1,055.00	9.20	340.40	1,050.87	70.31	-18.60	72.72	0.55	0.43	-2.19	
1,145.00	8.33	349.75	1,139.82	83.50	-22.17	86.39	1.85	-0.97	10.39	
1,235.00	8.01	350.46	1,228.90	96.10	-24.37	99.12	0.37	-0.36	0.79	
1,325.00	7.42	344.86	1,318.09	107.90	-26.93	111.17	1.06	-0.66	-6.22	
1,415.00	8.78	336.85	1,407.19	119.82	-31.14	123.79	1.96	1.51	-8.90	
1,505.00	8.20	341.40	1,496.21	132.22	-35.89	137.00	0.99	-0.64	5.06	
1,595.00	8.42	347.25	1,585.26	144.73	-39.39	150.00	0.97	0.24	6.50	
1,685.00	8.64	342.26	1,674.27	157.60	-42.91	163.33	0.86	0.24	-5.54	
1,775.00	8.17	346.73	1,763.30	170.26	-46.44	176.48	0.89	-0.52	4.97	
1,865.00	8.16	352.94	1,852.39	182.82	-48.69	189.19	0.98	-0.01	6.90	
1,955.00	8.54	350.62	1,941.44	195.76	-50.56	202.15	0.56	0.42	-2.58	
2,045.00	8.13	341.17	2,030.49	208.37	-53.71	215.15	1.59	-0.46	-10.50	
2,135.00	7.37	330.83	2,119.68	219.44	-58.57	227.11	1.76	-0.84	-11.49	
2,225.00	6.71	340.53	2,209.00	229.44	-63.14	237.96	1.51	-0.73	10.78	
2,315.00	6.96	345.45	2,298.36	239.67	-66.26	248.66	0.71	0.28	5.47	
2,405.00	6.78	343.26	2,387.71	250.04	-69.16	259.43	0.35	-0.20	-2.43	
2,495.00	6.32	343.63	2,477.13	259.88	-72.09	269.69	0.51	-0.51	0.41	
2,525.00	6.24	343.49	2,506.95	263.02	-73.02	272.97	0.27	-0.27	-0.47	
LAST SDI MWD SURFACE SURVEY										
2,677.00	5.20	331.68	2,658.19	277.01	-78.63	287.95	1.03	-0.68	-7.77	
FIRST SDI MWD PRODUCTION SURVEY										
2,772.00	6.03	350.87	2,752.74	285.73	-81.47	297.11	2.15	0.87	20.20	
2,867.00	7.17	358.06	2,847.12	296.58	-82.46	307.83	1.48	1.20	7.57	
2,962.00	6.29	354.56	2,941.46	307.68	-83.15	318.72	1.02	-0.93	-3.68	
3,057.00	6.03	354.26	3,035.91	317.83	-84.15	328.76	0.28	-0.27	-0.32	
3,152.00	5.47	350.61	3,130.43	327.26	-85.38	338.18	0.70	-0.59	-3.84	
3,247.00	5.02	346.35	3,225.04	335.77	-87.10	346.83	0.63	-0.47	-4.48	
3,341.00	4.24	340.63	3,318.73	343.04	-89.23	354.41	0.96	-0.83	-6.09	
3,436.00	3.39	333.33	3,413.52	348.87	-91.65	360.67	1.03	-0.89	-7.68	
3,531.00	1.46	0.20	3,508.43	352.59	-92.91	364.59	2.30	-2.03	28.28	
3,626.00	1.29	1.20	3,603.40	354.87	-92.88	366.78	0.18	-0.18	1.05	
3,721.00	0.68	194.92	3,698.40	355.39	-93.01	367.32	2.06	-0.64	-175.03	
3,816.00	0.73	199.53	3,793.39	354.28	-93.35	366.34	0.08	0.05	4.85	
3,911.00	0.83	178.76	3,888.38	353.02	-93.54	365.18	0.31	0.11	-21.86	
4,006.00	1.11	161.85	3,983.37	351.46	-93.24	363.59	0.42	0.29	-17.80	
4,101.00	1.22	160.28	4,078.35	349.63	-92.61	361.66	0.12	0.12	-1.65	
4,196.00	1.15	179.15	4,173.33	347.72	-92.26	359.73	0.42	-0.07	19.86	
4,291.00	1.14	189.66	4,268.31	345.84	-92.40	357.95	0.22	-0.01	11.06	
4,386.00	1.10	200.69	4,363.29	344.05	-92.88	356.36	0.23	-0.04	11.61	
4,482.00	1.28	194.00	4,459.27	342.15	-93.47	354.69	0.24	0.19	-6.97	

Company: US ROCKIES REGION PLANNING
Project: UTAH - UTM (feet), NAD27, Zone 12N
Site: UINTAH_NBU 921-35O PAD
Well: NBU 921-35O1CS
Wellbore: NBU 921-35O1CS
Design: NBU 921-35O1CS

Local Co-ordinate Reference: Well NBU 921-35O1CS
TVD Reference: GL 5100' & KB 19' @ 5119.00ft (PIONEER 54)
MD Reference: GL 5100' & KB 19' @ 5119.00ft (PIONEER 54)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM5000-RobertS-Local

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,577.00	1.25	191.66	4,554.25	340.11	-93.93	352.84	0.06	-0.03	-2.46
4,672.00	1.35	177.98	4,649.22	337.97	-94.10	350.83	0.34	0.11	-14.40
4,767.00	1.14	174.71	4,744.20	335.91	-93.98	348.81	0.23	-0.22	-3.44
4,861.00	1.22	185.84	4,838.18	333.99	-93.99	346.96	0.26	0.09	11.84
4,956.00	1.31	164.97	4,933.16	331.93	-93.81	344.93	0.49	0.09	-21.97
5,051.00	1.43	171.93	5,028.13	329.71	-93.36	342.67	0.22	0.13	7.33
5,146.00	1.39	173.84	5,123.10	327.39	-93.07	340.36	0.06	-0.04	2.01
5,241.00	1.05	172.42	5,218.08	325.38	-92.84	338.36	0.36	-0.36	-1.49
5,336.00	1.28	170.34	5,313.06	323.47	-92.54	336.44	0.25	0.24	-2.19
5,430.00	1.19	152.37	5,407.04	321.57	-91.91	334.44	0.42	-0.10	-19.12
5,525.00	1.26	163.02	5,502.02	319.70	-91.15	332.43	0.25	0.07	11.21
5,620.00	1.25	155.26	5,597.00	317.76	-90.41	330.37	0.18	-0.01	-8.17
5,715.00	1.29	157.76	5,691.97	315.83	-89.57	328.28	0.07	0.04	2.63
5,809.00	1.52	158.31	5,785.94	313.69	-88.71	325.99	0.25	0.24	0.59
5,904.00	1.42	153.77	5,880.91	311.47	-87.73	323.58	0.16	-0.11	-4.78
5,999.00	1.50	154.50	5,975.88	309.29	-86.67	321.20	0.09	0.08	0.77
6,094.00	1.25	153.82	6,070.85	307.24	-85.68	318.96	0.26	-0.26	-0.72
6,198.00	1.29	156.28	6,174.83	305.15	-84.71	316.69	0.07	0.04	2.37
6,284.00	1.56	161.62	6,260.80	303.15	-83.95	314.56	0.35	0.31	6.21
6,379.00	1.75	166.48	6,355.76	300.51	-83.20	311.82	0.25	0.20	5.12
6,474.00	1.57	163.16	6,450.72	297.86	-82.49	309.07	0.21	-0.19	-3.49
6,569.00	1.67	166.27	6,545.68	295.26	-81.78	306.38	0.14	0.11	3.27
6,663.00	1.85	163.34	6,639.64	292.48	-81.02	303.50	0.21	0.19	-3.12
6,756.00	2.15	155.71	6,732.58	289.45	-79.87	300.27	0.43	0.32	-8.20
6,853.00	2.00	155.52	6,829.52	286.25	-78.42	296.80	0.15	-0.15	-0.20
6,947.00	2.19	160.35	6,923.46	283.07	-77.14	293.39	0.28	0.20	5.14
7,042.00	1.80	113.09	7,018.41	280.77	-75.16	290.65	1.72	-0.41	-49.75
7,137.00	1.15	85.74	7,113.37	280.26	-72.83	289.53	0.99	-0.68	-28.79
7,233.00	1.58	15.59	7,209.35	281.61	-71.52	290.48	1.67	0.45	-73.07
7,328.00	1.30	20.32	7,304.32	283.88	-70.79	292.47	0.32	-0.29	4.98
7,423.00	1.33	35.54	7,399.30	285.79	-69.78	294.04	0.37	0.03	16.02
7,519.00	0.98	38.67	7,495.28	287.33	-68.61	295.22	0.37	-0.36	3.26
7,614.00	1.02	49.78	7,590.26	288.51	-67.46	296.05	0.21	0.04	11.69
7,709.00	1.41	18.26	7,685.24	290.17	-66.45	297.37	0.80	0.41	-33.18
7,804.00	1.94	349.31	7,780.20	292.86	-66.38	299.95	1.03	0.56	-30.47
7,899.00	1.89	355.00	7,875.15	296.00	-66.82	303.09	0.21	-0.05	5.99
7,994.00	0.79	318.41	7,970.13	298.05	-67.39	305.22	1.41	-1.16	-38.52
8,089.00	1.45	249.04	8,065.11	298.11	-68.95	305.69	1.46	0.69	-73.02
8,184.00	1.23	231.39	8,160.08	297.05	-70.86	305.18	0.49	-0.23	-18.58
8,279.00	0.88	215.77	8,255.07	295.82	-72.09	304.32	0.47	-0.37	-16.44
8,374.00	0.73	186.04	8,350.06	294.62	-72.58	303.30	0.46	-0.16	-31.29
8,469.00	0.64	196.55	8,445.05	293.51	-72.79	302.29	0.16	-0.09	11.06
8,564.00	0.78	170.13	8,540.05	292.37	-72.83	301.20	0.37	0.15	-27.81
8,659.00	0.98	168.61	8,635.03	290.93	-72.56	299.74	0.21	0.21	-1.60

Company: US ROCKIES REGION PLANNING
Project: UTAH - UTM (feet), NAD27, Zone 12N
Site: UINTAH_NBU 921-350 PAD
Well: NBU 921-3501CS
Wellbore: NBU 921-3501CS
Design: NBU 921-3501CS

Local Co-ordinate Reference: Well NBU 921-3501CS
TVD Reference: GL 5100' & KB 19' @ 5119.00ft (PIONEER 54)
MD Reference: GL 5100' & KB 19' @ 5119.00ft (PIONEER 54)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM5000-RobertS-Local

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)	
8,754.00	1.02	159.40	8,730.02	289.35	-72.10	298.09	0.17	0.04	-9.69	
8,849.00	1.28	149.14	8,825.00	287.64	-71.26	296.22	0.35	0.27	-10.80	
8,943.00	1.40	163.04	8,918.98	285.64	-70.39	294.06	0.37	0.13	14.79	
9,038.00	1.79	166.47	9,013.94	283.09	-69.70	291.42	0.42	0.41	3.61	
9,133.00	2.10	172.16	9,108.88	279.92	-69.12	288.21	0.38	0.33	5.99	
9,228.00	2.20	173.60	9,203.82	276.39	-68.68	284.69	0.12	0.11	1.52	
9,323.00	2.24	170.00	9,298.75	272.75	-68.15	281.04	0.15	0.04	-3.79	
9,471.00	2.19	162.48	9,446.64	267.20	-66.80	275.33	0.20	-0.03	-5.08	
9,512.00	1.90	172.67	9,487.61	265.78	-66.48	273.88	1.13	-0.71	24.85	
9,604.00	2.00	167.65	9,579.56	262.70	-65.94	270.77	0.22	0.11	-5.46	
LAST SDI MWD PRODUCTION SURVEY										
9,660.00	2.00	167.65	9,635.52	260.79	-65.52	268.81	0.00	0.00	0.00	
SDI PROJECTION TO TD										

Design Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment	
		+N/-S (ft)	+E/-W (ft)		
163.00	163.00	0.26	0.12	FIRST SDI MWD SURFACE SURVEY	
2,525.00	2,506.95	263.02	-73.02	LAST SDI MWD SURFACE SURVEY	
2,677.00	2,658.19	277.01	-78.63	FIRST SDI MWD PRODUCTION SURVEY	
9,604.00	9,579.56	262.70	-65.94	LAST SDI MWD PRODUCTION SURVEY	
9,660.00	9,635.52	260.79	-65.52	SDI PROJECTION TO TD	

Checked By: _____ Approved By: _____ Date: _____



US ROCKIES REGION PLANNING

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

UINTAH_NBU 921-350 PAD

NBU 921-3501CS

NBU 921-3501CS

Design: NBU 921-3501CS

Survey Report - Geographic

29 March, 2011



Company: US ROCKIES REGION PLANNING	Local Co-ordinate Reference: Well NBU 921-35O1CS
Project: UTAH - UTM (feet), NAD27, Zone 12N	TVD Reference: GL 5100' & KB 19' @ 5119.00ft (PIONEER 54)
Site: UINTAH_NBU 921-35O PAD	MD Reference: GL 5100' & KB 19' @ 5119.00ft (PIONEER 54)
Well: NBU 921-35O1CS	North Reference: True
Wellbore: NBU 921-35O1CS	Survey Calculation Method: Minimum Curvature
Design: NBU 921-35O1CS	Database: EDM5000-RobertS-Local

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 UINTAH_NBU 921-35O PAD, SECTION 35 T9S R21E
Site Position: Northing: 14,524,559.98 usft Latitude: 39° 59' 11.076 N
From: Lat/Long Easting: 2,056,374.00 usft Longitude: 109° 30' 54.256 W
Position Uncertainty: 0.00 ft Slot Radius: 13.200 in Grid Convergence: 0.95 °

Well NBU 921-35O1CS, 398 FSL 1766 FEL
Well Position +N/-S 0.00 ft Northing: 14,524,550.82 usft Latitude: 39° 59' 10.986 N
+E/-W 0.00 ft Easting: 2,056,370.79 usft Longitude: 109° 30' 54.299 W
Position Uncertainty 0.00 ft Wellhead Elevation: ft Ground Level: 5,100.00 ft

Wellbore NBU 921-35O1CS					
Magnetics	Model Name IGRF2010	Sample Date 02/11/2011	Declination (°) 11.12	Dip Angle (°) 65.86	Field Strength (nT) 52,352

Design NBU 921-35O1CS				
Audit Notes:				
Version: 1.0 Phase: ACTUAL Tie On Depth: 0.00				
Vertical Section:	Depth From (TVD) (ft) 0.00	+N/-S (ft) 0.00	+E/-W (ft) 0.00	Direction (°) 344.48

Survey Program Date 03/29/2011		
From (ft) To (ft) Survey (Wellbore) Tool Name Description		
15.00 2,525.00 Survey #1 SDI MWD SURFACE (NBU 921	SDI MWD	SDI MWD - Standard ver 1.0.1
2,677.00 9,660.00 Survey #2 SDI MWD PRODUCTION (NBU	SDI MWD	SDI MWD - Standard ver 1.0.1

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.00	0.00	0.00	0.00	0.00	0.00	14,524,550.82	2,056,370.79	39° 59' 10.986 N	109° 30' 54.299 W
15.00	0.00	0.00	15.00	0.00	0.00	14,524,550.82	2,056,370.79	39° 59' 10.986 N	109° 30' 54.299 W
163.00	0.22	24.38	163.00	0.26	0.12	14,524,551.08	2,056,370.90	39° 59' 10.989 N	109° 30' 54.297 W
FIRST SDI MWD SURFACE SURVEY									
249.00	1.21	349.38	248.99	1.30	0.02	14,524,552.12	2,056,370.79	39° 59' 10.999 N	109° 30' 54.299 W
334.00	1.97	341.51	333.96	3.57	-0.61	14,524,554.38	2,056,370.12	39° 59' 11.021 N	109° 30' 54.307 W
425.00	2.14	340.18	424.90	6.65	-1.68	14,524,557.44	2,056,369.00	39° 59' 11.052 N	109° 30' 54.320 W
515.00	2.58	346.05	514.82	10.20	-2.74	14,524,560.97	2,056,367.88	39° 59' 11.087 N	109° 30' 54.334 W
605.00	3.88	349.62	604.68	15.16	-3.78	14,524,565.91	2,056,366.76	39° 59' 11.136 N	109° 30' 54.347 W
695.00	5.69	348.13	694.36	22.52	-5.24	14,524,573.25	2,056,365.17	39° 59' 11.209 N	109° 30' 54.366 W
785.00	7.29	347.14	783.78	32.45	-7.43	14,524,583.15	2,056,362.82	39° 59' 11.307 N	109° 30' 54.394 W

Company: US ROCKIES REGION PLANNING
Project: UTAH - UTM (feet), NAD27, Zone 12N
Site: UINTAH_NBU 921-350 PAD
Well: NBU 921-3501CS
Wellbore: NBU 921-3501CS
Design: NBU 921-3501CS

Local Co-ordinate Reference: Well NBU 921-3501CS
TVD Reference: GL 5100' & KB 19' @ 5119.00ft (PIONEER 54)
MD Reference: GL 5100' & KB 19' @ 5119.00ft (PIONEER 54)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM5000-RobertS-Local

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
875.00	8.18	345.05	872.96	44.21	-10.36	14,524,594.85	2,056,359.70	39° 59' 11.423 N	109° 30' 54.432 W
965.00	8.81	342.37	961.97	56.96	-14.10	14,524,607.54	2,056,355.75	39° 59' 11.549 N	109° 30' 54.480 W
1,055.00	9.20	340.40	1,050.87	70.31	-18.60	14,524,620.81	2,056,351.03	39° 59' 11.681 N	109° 30' 54.538 W
1,145.00	8.33	349.75	1,139.82	83.50	-22.17	14,524,633.94	2,056,347.23	39° 59' 11.811 N	109° 30' 54.584 W
1,235.00	8.01	350.46	1,228.90	96.10	-24.37	14,524,646.50	2,056,344.82	39° 59' 11.936 N	109° 30' 54.612 W
1,325.00	7.42	344.86	1,318.09	107.90	-26.93	14,524,658.25	2,056,342.07	39° 59' 12.052 N	109° 30' 54.645 W
1,415.00	8.78	336.85	1,407.19	119.82	-31.14	14,524,670.11	2,056,337.65	39° 59' 12.170 N	109° 30' 54.699 W
1,505.00	8.20	341.40	1,496.21	132.22	-35.89	14,524,682.42	2,056,332.70	39° 59' 12.293 N	109° 30' 54.760 W
1,595.00	8.42	347.25	1,585.26	144.73	-39.39	14,524,694.87	2,056,328.99	39° 59' 12.417 N	109° 30' 54.805 W
1,685.00	8.64	342.26	1,674.27	157.60	-42.91	14,524,707.68	2,056,325.26	39° 59' 12.544 N	109° 30' 54.850 W
1,775.00	8.17	346.73	1,763.30	170.26	-46.44	14,524,720.28	2,056,321.52	39° 59' 12.669 N	109° 30' 54.895 W
1,865.00	8.16	352.94	1,852.39	182.82	-48.69	14,524,732.81	2,056,319.06	39° 59' 12.793 N	109° 30' 54.924 W
1,955.00	8.54	350.62	1,941.44	195.76	-50.56	14,524,745.71	2,056,316.97	39° 59' 12.921 N	109° 30' 54.949 W
2,045.00	8.13	341.17	2,030.49	208.37	-53.71	14,524,758.27	2,056,313.62	39° 59' 13.046 N	109° 30' 54.989 W
2,135.00	7.37	330.83	2,119.68	219.44	-58.57	14,524,769.25	2,056,308.57	39° 59' 13.155 N	109° 30' 55.051 W
2,225.00	6.71	340.53	2,209.00	229.44	-63.14	14,524,779.17	2,056,303.84	39° 59' 13.254 N	109° 30' 55.110 W
2,315.00	6.96	345.45	2,298.36	239.67	-66.26	14,524,789.35	2,056,300.54	39° 59' 13.355 N	109° 30' 55.150 W
2,405.00	6.78	343.26	2,387.71	250.04	-69.16	14,524,799.67	2,056,297.47	39° 59' 13.457 N	109° 30' 55.188 W
2,495.00	6.32	343.63	2,477.13	259.88	-72.09	14,524,809.46	2,056,294.38	39° 59' 13.555 N	109° 30' 55.225 W
2,525.00	6.24	343.49	2,506.95	263.02	-73.02	14,524,812.59	2,056,293.40	39° 59' 13.586 N	109° 30' 55.237 W
LAST SDI MWD SURFACE SURVEY									
2,677.00	5.20	331.68	2,658.19	277.01	-78.63	14,524,826.48	2,056,287.55	39° 59' 13.724 N	109° 30' 55.309 W
FIRST SDI MWD PRODUCTION SURVEY									
2,772.00	6.03	350.87	2,752.74	285.73	-81.47	14,524,835.15	2,056,284.57	39° 59' 13.810 N	109° 30' 55.346 W
2,867.00	7.17	358.06	2,847.12	296.58	-82.46	14,524,845.98	2,056,283.40	39° 59' 13.918 N	109° 30' 55.358 W
2,962.00	6.29	354.56	2,941.46	307.68	-83.15	14,524,857.08	2,056,282.52	39° 59' 14.027 N	109° 30' 55.367 W
3,057.00	6.03	354.26	3,035.91	317.83	-84.15	14,524,867.20	2,056,281.36	39° 59' 14.128 N	109° 30' 55.380 W
3,152.00	5.47	350.61	3,130.43	327.26	-85.38	14,524,876.61	2,056,279.97	39° 59' 14.221 N	109° 30' 55.396 W
3,247.00	5.02	346.35	3,225.04	335.77	-87.10	14,524,885.09	2,056,278.10	39° 59' 14.305 N	109° 30' 55.418 W
3,341.00	4.24	340.63	3,318.73	343.04	-89.23	14,524,892.33	2,056,275.86	39° 59' 14.377 N	109° 30' 55.445 W
3,436.00	3.39	333.33	3,413.52	348.87	-91.65	14,524,898.11	2,056,273.34	39° 59' 14.434 N	109° 30' 55.476 W
3,531.00	1.46	0.20	3,508.43	352.59	-92.91	14,524,901.81	2,056,272.02	39° 59' 14.471 N	109° 30' 55.493 W
3,626.00	1.29	1.20	3,603.40	354.87	-92.88	14,524,904.09	2,056,272.01	39° 59' 14.494 N	109° 30' 55.492 W
3,721.00	0.68	194.92	3,698.40	355.39	-93.01	14,524,904.61	2,056,271.88	39° 59' 14.499 N	109° 30' 55.494 W
3,816.00	0.73	199.53	3,793.39	354.28	-93.35	14,524,903.49	2,056,271.55	39° 59' 14.488 N	109° 30' 55.498 W
3,911.00	0.83	178.76	3,888.38	353.02	-93.54	14,524,902.23	2,056,271.38	39° 59' 14.475 N	109° 30' 55.501 W
4,006.00	1.11	161.85	3,983.37	351.46	-93.24	14,524,900.67	2,056,271.71	39° 59' 14.460 N	109° 30' 55.497 W
4,101.00	1.22	160.28	4,078.35	349.63	-92.61	14,524,898.86	2,056,272.37	39° 59' 14.442 N	109° 30' 55.489 W
4,196.00	1.15	179.15	4,173.33	347.72	-92.26	14,524,896.96	2,056,272.75	39° 59' 14.423 N	109° 30' 55.484 W
4,291.00	1.14	189.66	4,268.31	345.84	-92.40	14,524,895.07	2,056,272.64	39° 59' 14.404 N	109° 30' 55.486 W
4,386.00	1.10	200.69	4,363.29	344.05	-92.88	14,524,893.28	2,056,272.19	39° 59' 14.387 N	109° 30' 55.492 W
4,482.00	1.28	194.00	4,459.27	342.15	-93.47	14,524,891.37	2,056,271.64	39° 59' 14.368 N	109° 30' 55.500 W
4,577.00	1.25	191.66	4,554.25	340.11	-93.93	14,524,889.31	2,056,271.21	39° 59' 14.348 N	109° 30' 55.506 W
4,672.00	1.35	177.98	4,649.22	337.97	-94.10	14,524,887.18	2,056,271.07	39° 59' 14.327 N	109° 30' 55.508 W
4,767.00	1.14	174.71	4,744.20	335.91	-93.98	14,524,885.12	2,056,271.23	39° 59' 14.306 N	109° 30' 55.506 W
4,861.00	1.22	185.84	4,838.18	333.99	-93.99	14,524,883.20	2,056,271.25	39° 59' 14.287 N	109° 30' 55.507 W
4,956.00	1.31	164.97	4,933.16	331.93	-93.81	14,524,881.14	2,056,271.46	39° 59' 14.267 N	109° 30' 55.504 W
5,051.00	1.43	171.93	5,028.13	329.71	-93.36	14,524,878.93	2,056,271.95	39° 59' 14.245 N	109° 30' 55.498 W
5,146.00	1.39	173.84	5,123.10	327.39	-93.07	14,524,876.61	2,056,272.28	39° 59' 14.222 N	109° 30' 55.495 W
5,241.00	1.05	172.42	5,218.08	325.38	-92.84	14,524,874.61	2,056,272.55	39° 59' 14.202 N	109° 30' 55.492 W
5,336.00	1.28	170.34	5,313.06	323.47	-92.54	14,524,872.71	2,056,272.87	39° 59' 14.183 N	109° 30' 55.488 W
5,430.00	1.19	152.37	5,407.04	321.57	-91.91	14,524,870.82	2,056,273.53	39° 59' 14.165 N	109° 30' 55.480 W
5,525.00	1.26	163.02	5,502.02	319.70	-91.15	14,524,868.96	2,056,274.33	39° 59' 14.146 N	109° 30' 55.470 W
5,620.00	1.25	155.26	5,597.00	317.76	-90.41	14,524,867.03	2,056,275.10	39° 59' 14.127 N	109° 30' 55.461 W
5,715.00	1.29	157.76	5,691.97	315.83	-89.57	14,524,865.11	2,056,275.97	39° 59' 14.108 N	109° 30' 55.450 W

Company: US ROCKIES REGION PLANNING
Project: UTAH - UTM (feet), NAD27, Zone 12N
Site: UINTAH_NBU 921-350 PAD
Well: NBU 921-3501CS
Wellbore: NBU 921-3501CS
Design: NBU 921-3501CS

Local Co-ordinate Reference: Well NBU 921-3501CS
TVD Reference: GL 5100' & KB 19' @ 5119.00ft (PIONEER 54)
MD Reference: GL 5100' & KB 19' @ 5119.00ft (PIONEER 54)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM5000-RobertS-Local

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
5,809.00	1.52	158.31	5,785.94	313.69	-88.71	14,524,862.99	2,056,276.86	39° 59' 14.087 N	109° 30' 55.439 W
5,904.00	1.42	153.77	5,880.91	311.47	-87.73	14,524,860.78	2,056,277.89	39° 59' 14.065 N	109° 30' 55.426 W
5,999.00	1.50	154.50	5,975.88	309.29	-86.67	14,524,858.62	2,056,278.98	39° 59' 14.043 N	109° 30' 55.412 W
6,094.00	1.25	153.82	6,070.85	307.24	-85.68	14,524,856.58	2,056,280.00	39° 59' 14.023 N	109° 30' 55.400 W
6,198.00	1.29	156.28	6,174.83	305.15	-84.71	14,524,854.51	2,056,281.01	39° 59' 14.002 N	109° 30' 55.387 W
6,284.00	1.56	161.62	6,260.80	303.15	-83.95	14,524,852.53	2,056,281.80	39° 59' 13.982 N	109° 30' 55.378 W
6,379.00	1.75	166.48	6,355.76	300.51	-83.20	14,524,849.90	2,056,282.59	39° 59' 13.956 N	109° 30' 55.368 W
6,474.00	1.57	163.16	6,450.72	297.86	-82.49	14,524,847.26	2,056,283.35	39° 59' 13.930 N	109° 30' 55.359 W
6,569.00	1.67	166.27	6,545.68	295.26	-81.78	14,524,844.68	2,056,284.10	39° 59' 13.905 N	109° 30' 55.350 W
6,663.00	1.85	163.34	6,639.64	292.48	-81.02	14,524,841.91	2,056,284.91	39° 59' 13.877 N	109° 30' 55.340 W
6,756.00	2.15	155.71	6,732.58	289.45	-79.87	14,524,838.90	2,056,286.11	39° 59' 13.847 N	109° 30' 55.325 W
6,853.00	2.00	155.52	6,829.52	286.25	-78.42	14,524,835.73	2,056,287.61	39° 59' 13.815 N	109° 30' 55.306 W
6,947.00	2.19	160.35	6,923.46	283.07	-77.14	14,524,832.56	2,056,288.95	39° 59' 13.784 N	109° 30' 55.290 W
7,042.00	1.80	113.09	7,018.41	280.77	-75.16	14,524,830.30	2,056,290.97	39° 59' 13.761 N	109° 30' 55.265 W
7,137.00	1.15	85.74	7,113.37	280.26	-72.83	14,524,829.83	2,056,293.30	39° 59' 13.756 N	109° 30' 55.235 W
7,233.00	1.58	15.59	7,209.35	281.61	-71.52	14,524,831.20	2,056,294.59	39° 59' 13.770 N	109° 30' 55.218 W
7,328.00	1.30	20.32	7,304.32	283.88	-70.79	14,524,833.48	2,056,295.28	39° 59' 13.792 N	109° 30' 55.208 W
7,423.00	1.33	35.54	7,399.30	285.79	-69.78	14,524,835.40	2,056,296.26	39° 59' 13.811 N	109° 30' 55.195 W
7,519.00	0.98	38.67	7,495.28	287.33	-68.61	14,524,836.97	2,056,297.40	39° 59' 13.826 N	109° 30' 55.180 W
7,614.00	1.02	49.78	7,590.26	288.51	-67.46	14,524,838.17	2,056,298.53	39° 59' 13.838 N	109° 30' 55.166 W
7,709.00	1.41	18.26	7,685.24	290.17	-66.45	14,524,839.84	2,056,299.52	39° 59' 13.854 N	109° 30' 55.153 W
7,804.00	1.94	349.31	7,780.20	292.86	-66.38	14,524,842.53	2,056,299.54	39° 59' 13.881 N	109° 30' 55.152 W
7,899.00	1.89	355.00	7,875.15	296.00	-66.82	14,524,845.67	2,056,299.05	39° 59' 13.912 N	109° 30' 55.157 W
7,994.00	0.79	318.41	7,970.13	298.05	-67.39	14,524,847.71	2,056,298.45	39° 59' 13.932 N	109° 30' 55.165 W
8,089.00	1.45	249.04	8,065.11	298.11	-68.95	14,524,847.74	2,056,296.89	39° 59' 13.933 N	109° 30' 55.185 W
8,184.00	1.23	231.39	8,160.08	297.05	-70.86	14,524,846.64	2,056,294.99	39° 59' 13.922 N	109° 30' 55.209 W
8,279.00	0.88	215.77	8,255.07	295.82	-72.09	14,524,845.39	2,056,293.79	39° 59' 13.910 N	109° 30' 55.225 W
8,374.00	0.73	186.04	8,350.06	294.62	-72.58	14,524,844.19	2,056,293.31	39° 59' 13.898 N	109° 30' 55.231 W
8,469.00	0.64	196.55	8,445.05	293.51	-72.79	14,524,843.08	2,056,293.12	39° 59' 13.887 N	109° 30' 55.234 W
8,564.00	0.78	170.13	8,540.05	292.37	-72.83	14,524,841.93	2,056,293.10	39° 59' 13.876 N	109° 30' 55.235 W
8,659.00	0.98	168.61	8,635.03	290.93	-72.56	14,524,840.50	2,056,293.39	39° 59' 13.862 N	109° 30' 55.231 W
8,754.00	1.02	159.40	8,730.02	289.35	-72.10	14,524,838.92	2,056,293.88	39° 59' 13.846 N	109° 30' 55.225 W
8,849.00	1.28	149.14	8,825.00	287.64	-71.26	14,524,837.24	2,056,294.75	39° 59' 13.829 N	109° 30' 55.214 W
8,943.00	1.40	163.04	8,918.98	285.64	-70.39	14,524,835.25	2,056,295.65	39° 59' 13.809 N	109° 30' 55.203 W
9,038.00	1.79	166.47	9,013.94	283.09	-69.70	14,524,832.71	2,056,296.38	39° 59' 13.784 N	109° 30' 55.194 W
9,133.00	2.10	172.16	9,108.88	279.92	-69.12	14,524,829.55	2,056,297.02	39° 59' 13.753 N	109° 30' 55.187 W
9,228.00	2.20	173.60	9,203.82	276.39	-68.68	14,524,826.02	2,056,297.52	39° 59' 13.718 N	109° 30' 55.181 W
9,323.00	2.24	170.00	9,298.75	272.75	-68.15	14,524,822.39	2,056,298.10	39° 59' 13.682 N	109° 30' 55.175 W
9,471.00	2.19	162.48	9,446.64	267.20	-66.80	14,524,816.87	2,056,299.55	39° 59' 13.627 N	109° 30' 55.157 W
9,512.00	1.90	172.67	9,487.61	265.78	-66.48	14,524,815.46	2,056,299.90	39° 59' 13.613 N	109° 30' 55.153 W
9,604.00	2.00	167.65	9,579.56	262.70	-65.94	14,524,812.38	2,056,300.49	39° 59' 13.583 N	109° 30' 55.146 W
LAST SDI MWD PRODUCTION SURVEY									
9,660.00	2.00	167.65	9,635.52	260.79	-65.52	14,524,810.48	2,056,300.94	39° 59' 13.564 N	109° 30' 55.141 W
SDI PROJECTION TO TD									

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well NBU 921-35O1CS
Project:	UTAH - UTM (feet), NAD27, Zone 12N	TVD Reference:	GL 5100' & KB 19' @ 5119.00ft (PIONEER 54)
Site:	UINTAH_NBU 921-35O PAD	MD Reference:	GL 5100' & KB 19' @ 5119.00ft (PIONEER 54)
Well:	NBU 921-35O1CS	North Reference:	True
Wellbore:	NBU 921-35O1CS	Survey Calculation Method:	Minimum Curvature
Design:	NBU 921-35O1CS	Database:	EDM5000-RobertS-Local

Design Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
163.00	163.00	0.26	0.12	FIRST SDI MWD SURFACE SURVEY
2,525.00	2,506.95	263.02	-73.02	LAST SDI MWD SURFACE SURVEY
2,677.00	2,658.19	277.01	-78.63	FIRST SDI MWD PRODUCTION SURVEY
9,604.00	9,579.56	262.70	-65.94	LAST SDI MWD PRODUCTION SURVEY
9,660.00	9,635.52	260.79	-65.52	SDI PROJECTION TO TD

Checked By: _____ Approved By: _____ Date: _____

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

FORM 6

ENTITY ACTION FORM

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

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304751395	NBU 921-35N4BS		SWSE	35	9S	21E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
<i>B</i>	99999	<i>2900</i>	2/1/2011			<i>2/15/11</i>	
Comments: MIRU PETE MARTIN BUCKET RIG. <i>WSMVD</i> SPUD WELL LOCATION ON 02/01/2011 AT 12:40 HRS. <i>BHL = SESW</i>							

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304751385	NBU 921-35O1CS		SWSE	35	9S	21E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
<i>B</i>	99999	<i>2900</i>	2/1/2011			<i>2/15/11</i>	
Comments: MIRU PETE MARTIN BUCKET RIG. <i>WSMVD</i> SPUD WELL LOCATION ON 02/01/2011 AT 14:45 HRS. <i>BHL = SWSE</i>							

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304751387	NBU 921-35O1BS		SWSE	35	9S	21E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
<i>B</i>	99999	<i>2900</i>	2/1/2011			<i>2/15/11</i>	
Comments: MIRU PETE MARTIN BUCKET RIG. <i>WSMVD</i> SPUD WELL LOCATION ON 02/01/2011 AT 16:00 HRS. <i>BHL = SWSE</i>							

ACTION CODES:

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

ANDY LYTLE

Name (Please Print)

Signature

REGULATORY ANALYST

Title

2/2/2011

Date

RECEIVED

FEB 02 2011

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: ML 22582
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: 7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: NBU 921-3501CS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047513850000
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: 0398 FSL 1766 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSE Section: 35 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 type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 3/12/2014	<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 SUBJECT WELL WAS RETURNED TO PRODUCTION ON 3/12/2014.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
 March 19, 2014

NAME (PLEASE PRINT) Teena Paulo	PHONE NUMBER 720 929-6236	TITLE Staff Regulatory Specialist
SIGNATURE N/A	DATE 3/19/2014	