

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 921-35B4BS		
2. TYPE OF WORK DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>				3. FIELD OR WILDCAT NATURAL BUTTES		
4. TYPE OF WELL Gas Well <input type="checkbox"/> Coalbed Methane Well: NO <input type="checkbox"/>				5. UNIT or COMMUNITIZATION AGREEMENT NAME NATURAL BUTTES		
6. NAME OF OPERATOR KERR-MCGEE OIL & GAS ONSHORE, L.P.				7. OPERATOR PHONE 720 929-6007		
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	520 FNL 464 FEL	NENE	35	9.0 S	21.0 E	S
Top of Uppermost Producing Zone	916 FNL 1817 FEL	NWNE	35	9.0 S	21.0 E	S
At Total Depth	916 FNL 1817 FEL	NWNE	35	9.0 S	21.0 E	S
21. COUNTY UINTAH		22. DISTANCE TO NEAREST LEASE LINE (Feet) 916		23. NUMBER OF ACRES IN DRILLING UNIT 321		
		25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 665		26. PROPOSED DEPTH MD: 9862 TVD: 9634		
27. ELEVATION - GROUND LEVEL 4991		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 11/18/2010		EMAIL gnbregulatory@anadarko.com		
API NUMBER ASSIGNED 43047513420000		 Permit Manager				

Proposed Hole, Casing, and Cement						
String	Hole Size	Casing Size	Top (MD)	Bottom (MD)		
Prod	7.875	4.5	0	9862		
Pipe	Grade	Length	Weight			
	Grade I-80 Buttress	9862	11.6			

Proposed Hole, Casing, and Cement						
String	Hole Size	Casing Size	Top (MD)	Bottom (MD)		
Surf	11	8.625	0	2330		
Pipe	Grade	Length	Weight			
	Grade J-55 LT&C	2330	28.0			

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

NBU 921-35B4BS

Surface: 520 FNL / 464 FEL NENE
BHL: 916 FNL / 1817 FEL NWNE

Section 35 T9S R21E

Unitah County, Utah
Mineral Lease: UT ST ML22582

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	1403	
Birds Nest	1706	Water
Mahogany	2081	Water
Wasatch	4686	Gas
Mesaverde	7348	Gas
MVU2	8283	Gas
MVL1	8863	Gas
TVD	9634	
TD	9862	

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 9,634' TVD, approximately equals 5,902 psi (calculated at 0.61 psi/foot).

Maximum anticipated surface pressure equals approximately 3,783 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. 4 of 4

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 2,330	28.00	IJ-55	LTC	0.85	1.72	5.28
PRODUCTION	4-1/2"	0 to 9,862	11.60	I-80	BTC	2.00	1.06	2.78

*Burst on surface casing is controlled by fracture gradient as shoe with gas gradient above. D.F. = 2.31

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

2) MASP (Prod Casing) = Pore Pressure at TD - (0.22 psi/ft-partial evac gradient x TD)
 (Burst Assumptions: TD = 12.0 ppg) 0.22 psi/ft = gradient for partially evac wellbore
 (Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)
MASP 3,783 psi

3) Maximum Anticipated Bottom Hole Pressure (MABHP) = Pore Pressure at TD
 (Burst Assumptions: TD = 12.0 ppg) 0.61 psi/ft = bottomhole gradient
 (Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)
MABHP 5,902 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	1,830'	65/35 Poz + 6% Gel + 10 pps gilsonite + 0.25 pps Flocele + 3% salt BWOW	170	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	4,182'	Premium Lite II +0.25 pps celloflake + 5 pps gilsonite + 10% gel + 0.5% extender	300	10%	11.00	3.38
	TAIL	5,680'	50/50 Poz/G + 10% salt + 2% gel + 0.1% R-3	1,090	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.

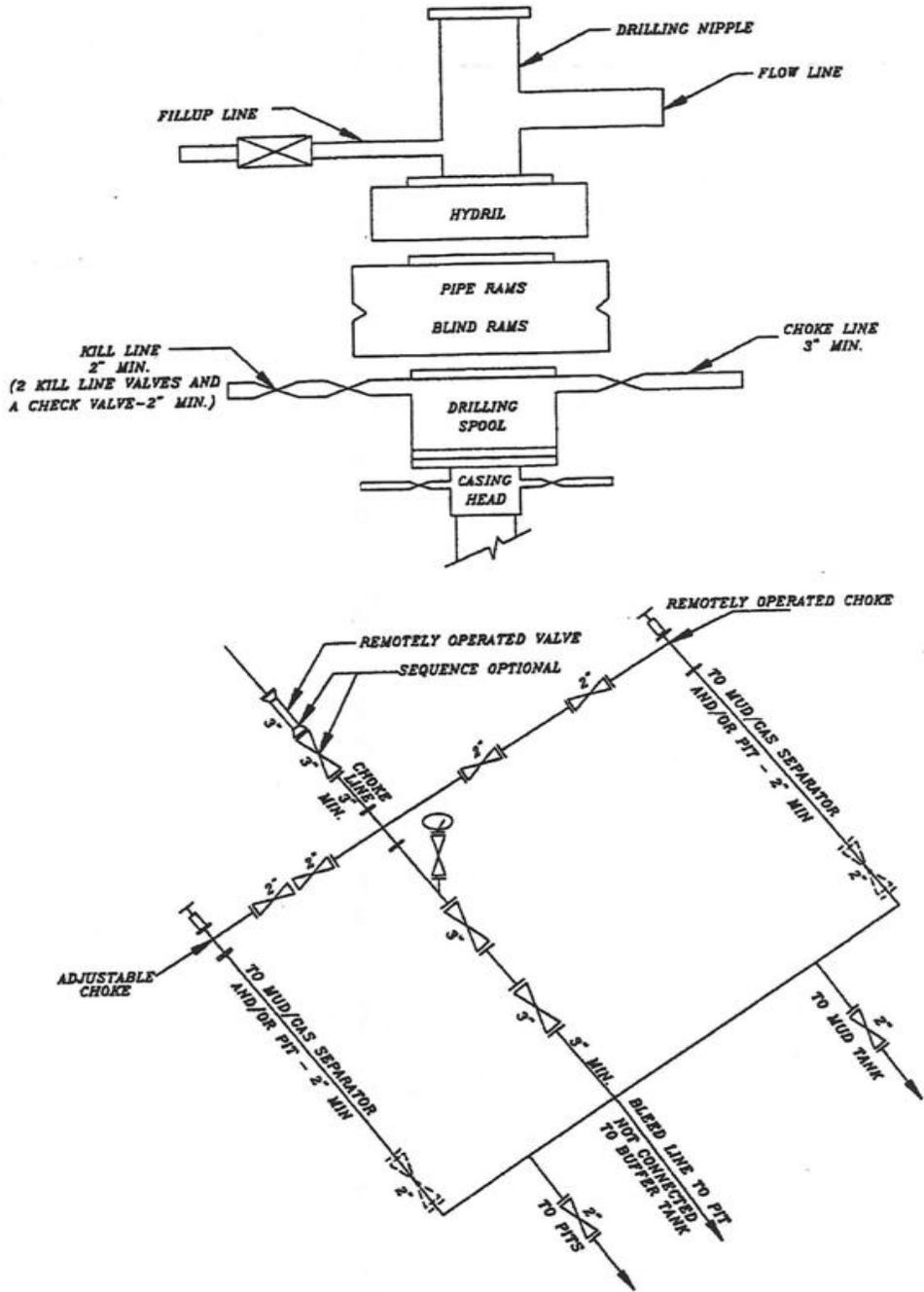
Surveys will be taken at 1,000' minimum intervals.

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 921-35B4BS

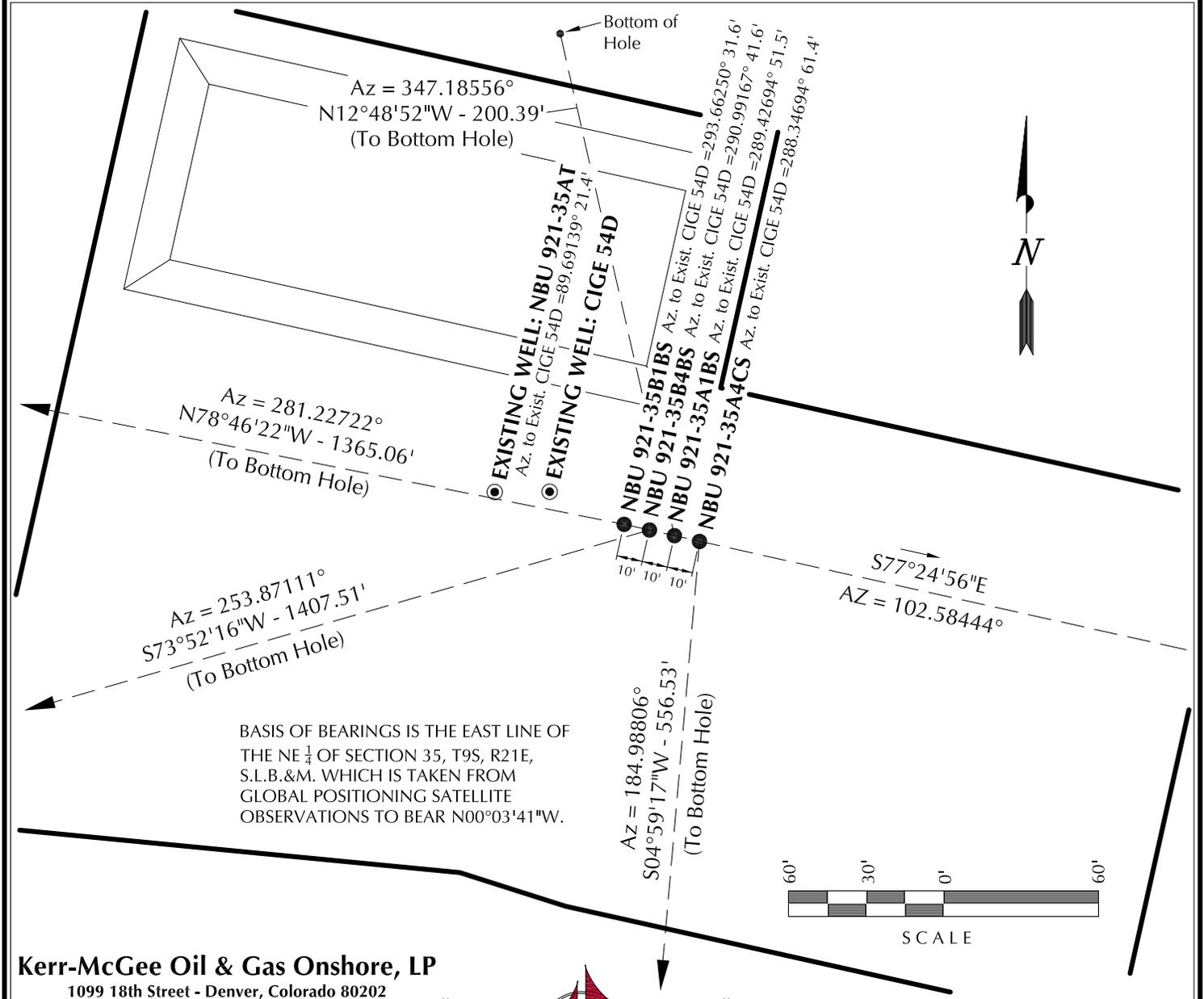


SCHEMATIC DIAGRAM OF 5,000 PSI BOP STACK

WELL NAME	SURFACE POSITION					BOTTOM HOLE				
	NAD83		NAD27		FOOTAGES	NAD83		NAD27		FOOTAGES
	LATITUDE	LONGITUDE	LATITUDE	LONGITUDE		LATITUDE	LONGITUDE	LATITUDE	LONGITUDE	
NBU 921-35A4CS	39°59'53.912"	109°30'39.860"	39°59'54.038"	109°30'37.387"	524' FNL 445' FEL	39°59'48.434"	109°30'40.477"	39°59'48.561"	109°30'38.005"	1079' FNL 494' FEL
NBU 921-35A1BS	39°59'53.934"	109°30'39.985"	39°59'54.060"	109°30'37.512"	522' FNL 455' FEL	39°59'55.864"	109°30'40.557"	39°59'55.990"	109°30'38.084"	327' FNL 499' FEL
NBU 921-35B4BS	39°59'53.956"	109°30'40.110"	39°59'54.082"	109°30'37.637"	520' FNL 464' FEL	39°59'50.085"	109°30'57.476"	39°59'50.212"	109°30'55.003"	916' FNL 1817' FEL
NBU 921-35B1BS	39°59'53.978"	109°30'40.237"	39°59'54.104"	109°30'37.764"	518' FNL 474' FEL	39°59'56.596"	109°30'57.439"	39°59'56.722"	109°30'54.965"	257' FNL 1813' FEL
CIGE 54D	39°59'54.103"	109°30'40.609"	39°59'54.229"	109°30'38.136"	505' FNL 503' FEL					
NBU 921-35AT	39°59'54.102"	109°30'40.883"	39°59'54.228"	109°30'38.410"	505' FNL 525' FEL					

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 921-35A4CS	-554.4'	-48.4'	NBU 921-35A1BS	195.4'	-44.4'	NBU 921-35B4BS	-391.0'	-1352.1'	NBU 921-35B1BS	265.8'	-1338.9'



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

WELL PAD - NBU 921-35A

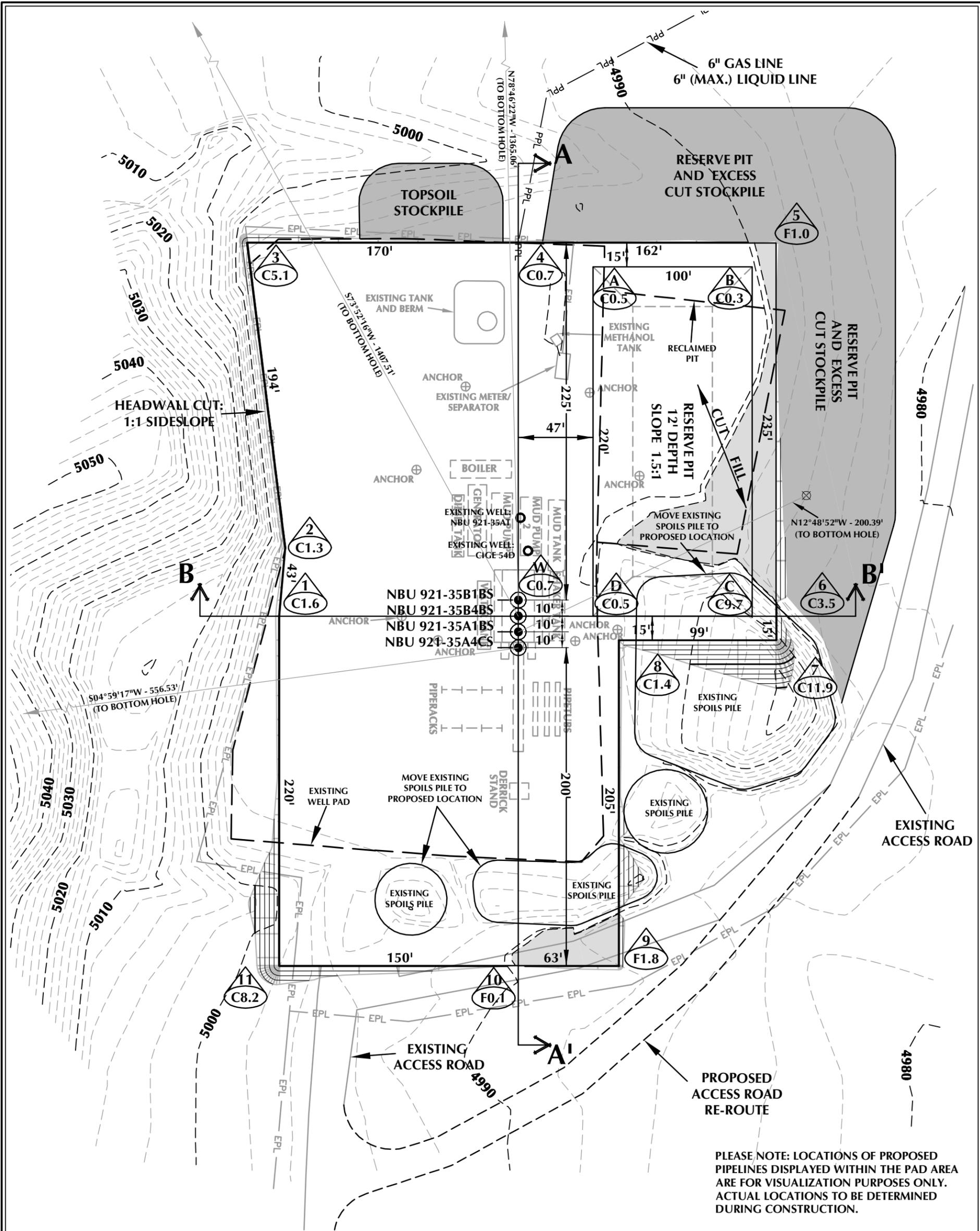
WELL PAD INTERFERENCE PLAT
WELLS - NBU 921-35A4CS, NBU 921-35A1BS,
NBU 921-35B4BS & NBU 921-35B1BS
LOCATED IN SECTION 35, T9S, R21E,
S.L.B.&M., UTAH COUNTY, UTAH.

609

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

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

DATE SURVEYED: 09-30-10	SURVEYED BY: M.S.B.	SHEET NO: 5
DATE DRAWN: 10-04-10	DRAWN BY: K.H.G.	
SCALE: 1" = 60'	Date Last Revised: 12-03-10 M.W.W.	5 OF 16



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 921-35A DESIGN SUMMARY

EXISTING GRADE @ CENTER OF WELL PAD = 4990.5'
 FINISHED GRADE ELEVATION = 4989.8'
 CUT SLOPES = VARIES
 FILL SLOPES = 1.5:1
 TOTAL WELL PAD AREA = 2.99 ACRES
 TOTAL DAMAGE AREA = 6.13 ACRES
 SHRINKAGE FACTOR = 1.10
 SWELL FACTOR = 1.00

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

WELL PAD - NBU 921-35A

WELL PAD - LOCATION LAYOUT
 NBU 921-35A4CS, NBU 921-35A1BS,
 NBU 921-35B4BS & NBU 921-35B1BS
 LOCATED IN SECTION 35, T9S, R21E,
 S.L.B.&M., UINTAH COUNTY, UTAH

WELL PAD QUANTITIES
 TOTAL CUT FOR WELL PAD = 7,340 C.Y.
 TOTAL FILL FOR WELL PAD = 525 C.Y.
 TOPSOIL @ 6" DEPTH = 941 C.Y.
 EXCESS MATERIAL = 6,815 C.Y.

RESERVE PIT QUANTITIES
 TOTAL CUT FOR RESERVE PIT
 +/- 7,410 CY
 RESERVE PIT CAPACITY (2' OF FREEBOARD)
 +/- 28,150 BARRELS



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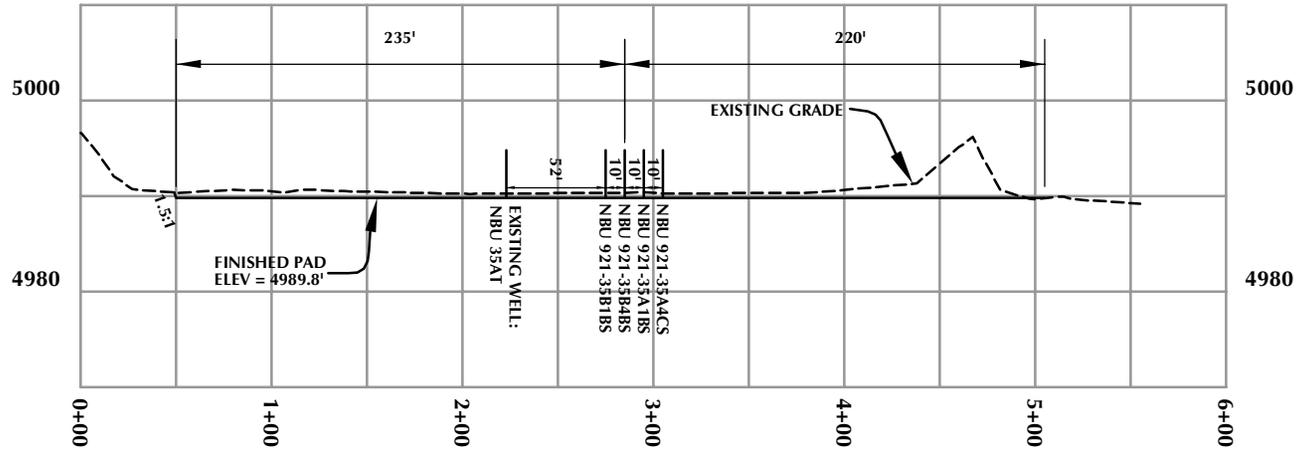
WELL PAD LEGEND

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

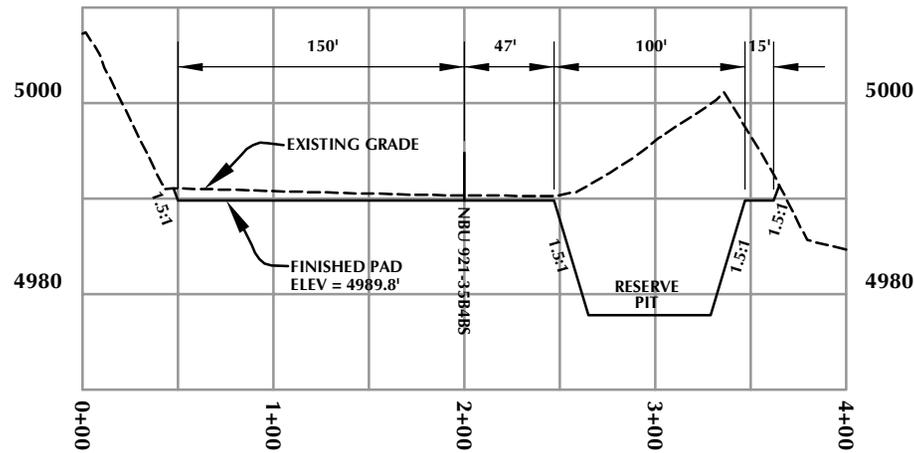


HORIZONTAL 0 30 60 1" = 60'
 2' CONTOURS

Scale: 1"=60' Date: 10/18/10 SHEET NO:
 REVISED: JFE 12/9/10 **6** 6 OF 16



CROSS SECTION A-A'



CROSS SECTION B-B'

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

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WELL PAD - NBU 921-35A

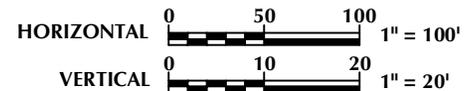
WELL PAD - CROSS SECTIONS
NBU 921-35A4CS, NBU 921-35A1BS,
NBU 921-35B4BS & NBU 921-35B1BS
LOCATED IN SECTION 35, T9S, R21E,
S.L.B.&M., UINTAH COUNTY, UTAH



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209 NORTH 300 WEST - VERNAL, UTAH 84078

(435) 789-1365



Scale: 1"=100'

Date: 10/15/10

SHEET NO:

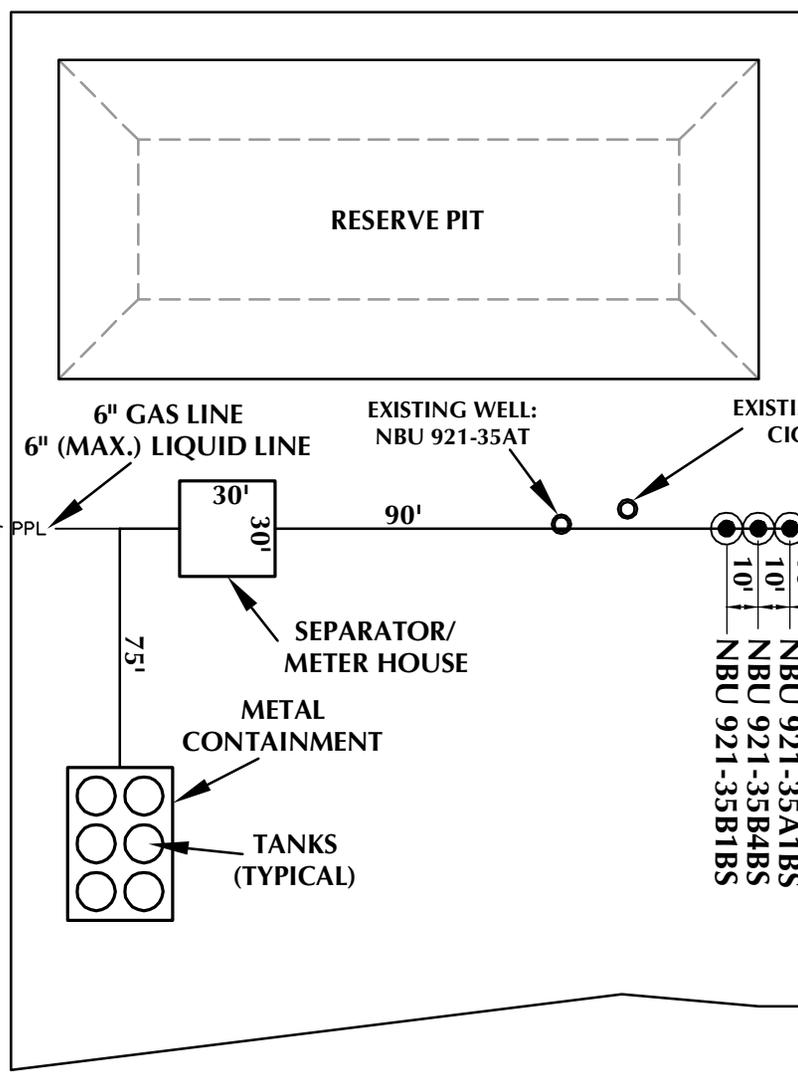
REVISED:

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7 OF 16

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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.

PROPOSED ACCESS ROAD RE-ROUTE

EXISTING ACCESS ROAD

PROPOSED WELL PAD

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

WELL PAD - NBU 921-35A

WELL PAD - FACILITIES DIAGRAM
 NBU 921-35A4CS, NBU 921-35A1BS,
 NBU 921-35B4BS & NBU 921-35B1BS
 LOCATED IN SECTION 35, T9S, R21E,
 S.L.B.&M., Uintah County, Utah



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

Scale: 1"=60' Date: 10/15/10
 REVISED: JFE 12/9/10

SHEET NO:
8 8 OF 16

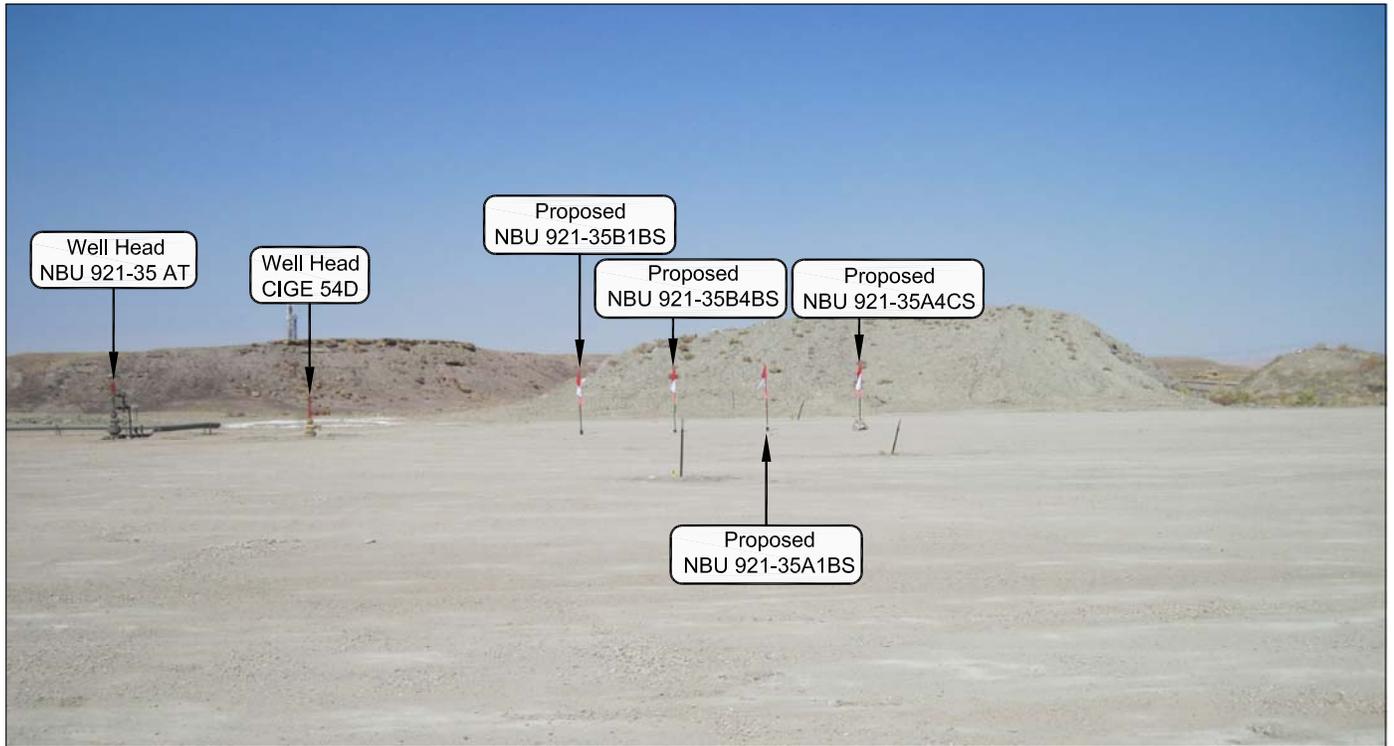


PHOTO VIEW: FROM CORNER 1 TO LOCATION STAKE

CAMERA ANGLE: NORTHERLY



PHOTO VIEW: FROM EXISTING ACCESS ROAD

CAMERA ANGLE: NORTHWESTERLY

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

WELL PAD - NBU 921-35A

LOCATION PHOTOS

**NBU 921-35A4CS, NBU 921-35A1BS,
NBU 921-35B4BS & NBU 921-35B1BS
LOCATED IN SECTION 35, T9S, R21E,
S.L.B.&M., UINTAH COUNTY, UTAH.**



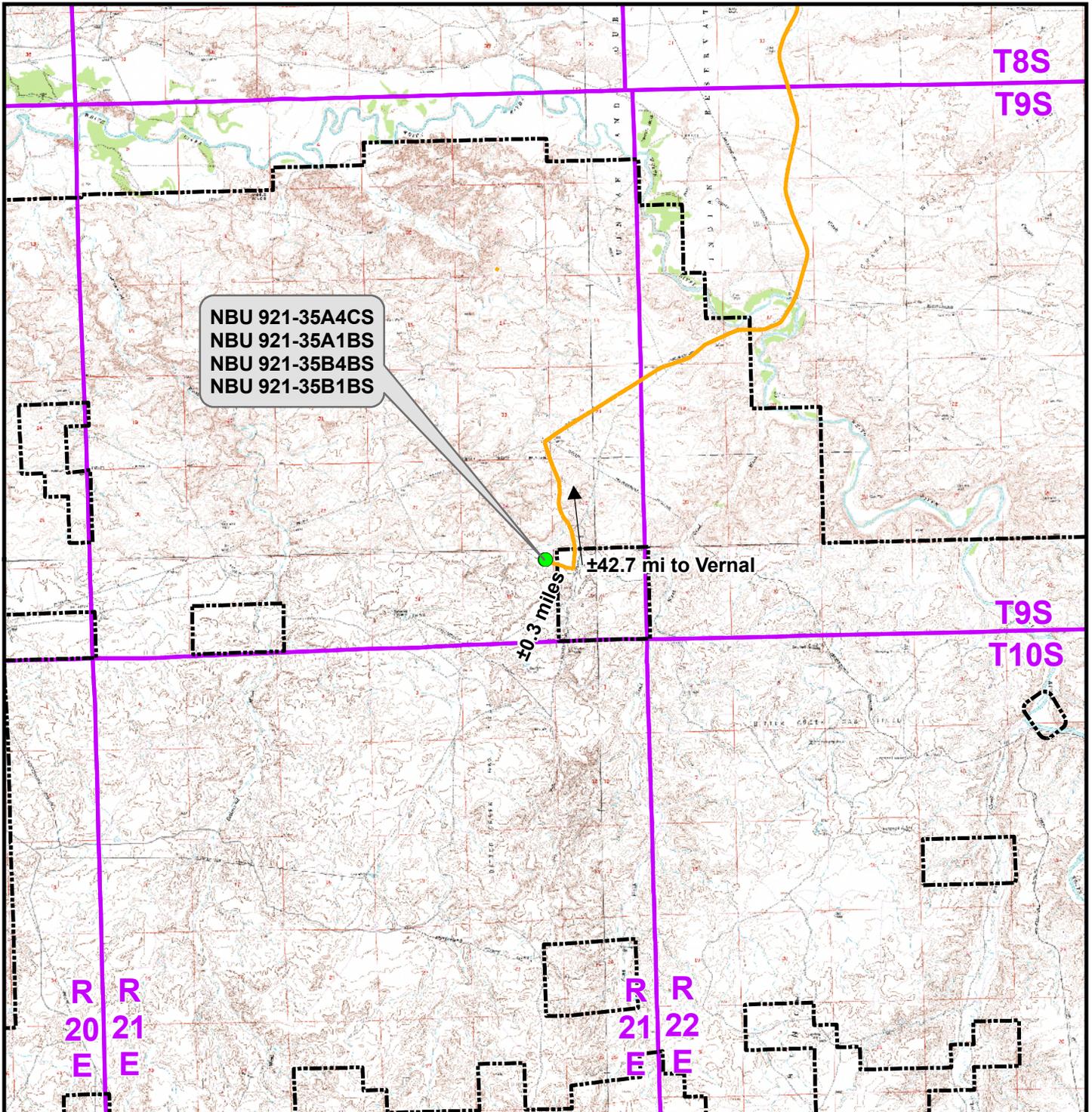
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TIMBERLINE

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209 NORTH 300 WEST - VERNAL, UTAH 84078

DATE PHOTOS TAKEN: 09-30-10	PHOTOS TAKEN BY: M.S.B.	9 9 OF 16
DATE DRAWN: 10-04-10	DRAWN BY: K.H.G.	
Date Last Revised:		



Legend

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

Distance From Well Pad - NBU 921-35A To Unit Boundary: ±445ft

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

WELL PAD - NBU 921-35A

TOPO A

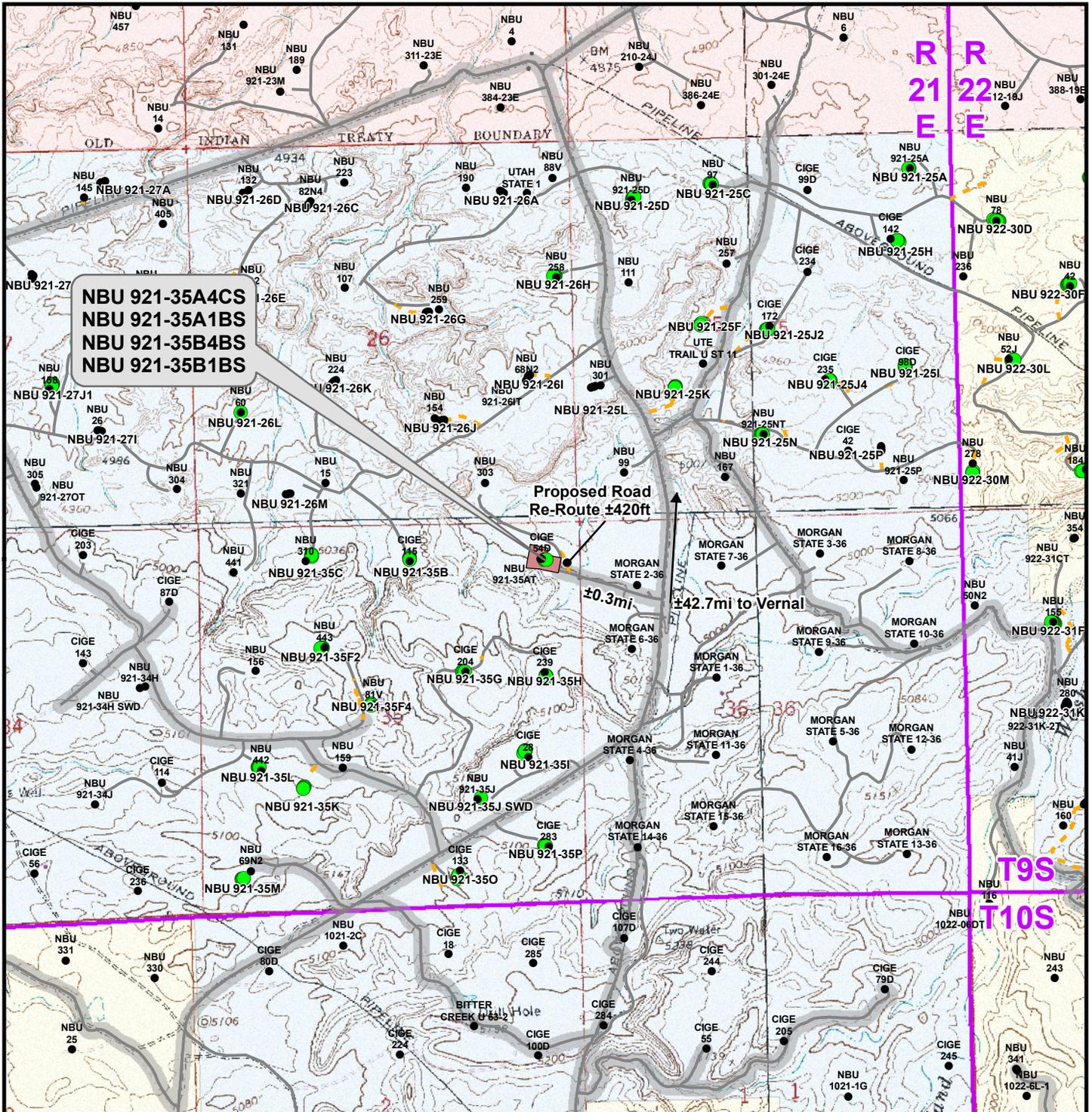
NBU 921-35A4CS, NBU 921-35A1BS,
 NBU 921-35B4BS & NBU 921-35B1BS
 LOCATED IN SECTION 35, T9S, R21E,
 S.L.B.&M., UINTAH COUNTY, UTAH



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



Scale: 1:100,000	NAD83 USP Central	Sheet No:
Drawn: TL	Date: 19 Oct 2010	10
Revised:	Date:	



**NBU 921-35A4CS
NBU 921-35A1BS
NBU 921-35B4BS
NBU 921-35B1BS**

Proposed Road Re-Route ±420ft

±0.3mi ±42.7mi to Vernal

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: ±420ft

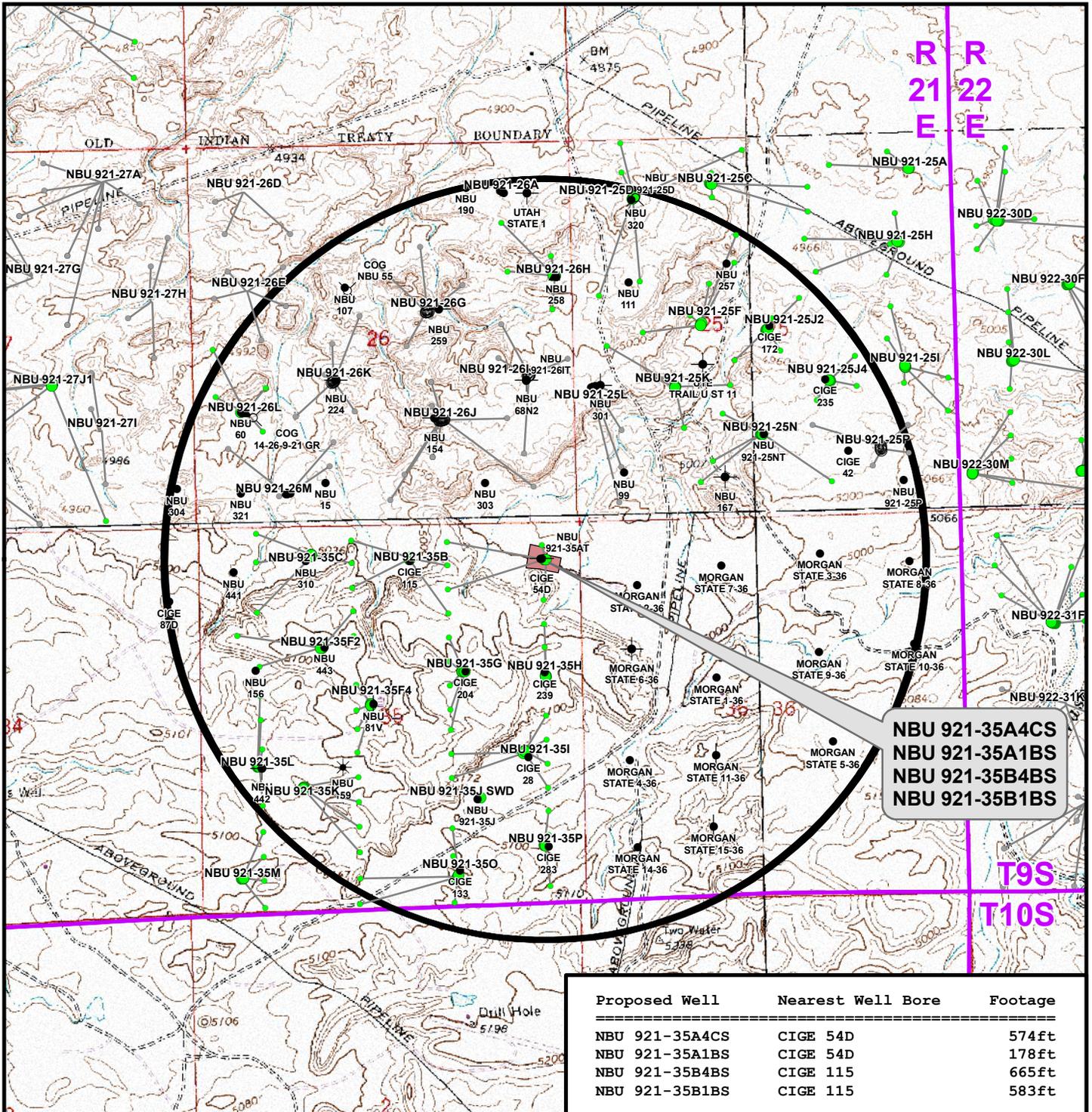
Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

WELL PAD - NBU 921-35A

TOPO B
NBU 921-35A4CS, NBU 921-35A1BS,
NBU 921-35B4BS & NBU 921-35B1BS
LOCATED IN SECTION 35, T9S, R21E,
S.L.B.&M., UINTAH COUNTY, UTAH



Scale: 1" = 2,000ft	NAD83 USP Central	Sheet No: 11
Drawn: TL	Date: 19 Oct 2010	11 of 16
Revised: TL	Date: 9 Dec 2010	



NBU 921-35A4CS
 NBU 921-35A1BS
 NBU 921-35B4BS
 NBU 921-35B1BS

Proposed Well	Nearest Well Bore	Footage
NBU 921-35A4CS	CIGE 54D	574ft
NBU 921-35A1BS	CIGE 54D	178ft
NBU 921-35B4BS	CIGE 115	665ft
NBU 921-35B1BS	CIGE 115	583ft

Well locations derived from State of Utah, Dept. of Natural Resources, Division of Oil, Gas and Mining

- Legend**
- Well - Proposed
 - Bottom Hole - Proposed
 - Well Pad
 - Well Path
 - Bottom Hole - Existing
 - Well - 1 Mile Radius
 - Producing
 - ★ Active
 - ⊙ Spudded (Drilling commenced; Not yet completed)
 - ▲ Approved permit (APD); not yet spudded
 - New Permit (Not yet approved or drilled)
 - ⊕ Inactive
 - ⊗ Drilling Operations Suspended
 - Temporarily-Abandoned
 - Shut-In
 - Plugged and Abandoned
 - ⊗ Location Abandoned
 - ⊗ Dry hole marker, buried
 - ⊗ Returned APD (Unapproved)

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

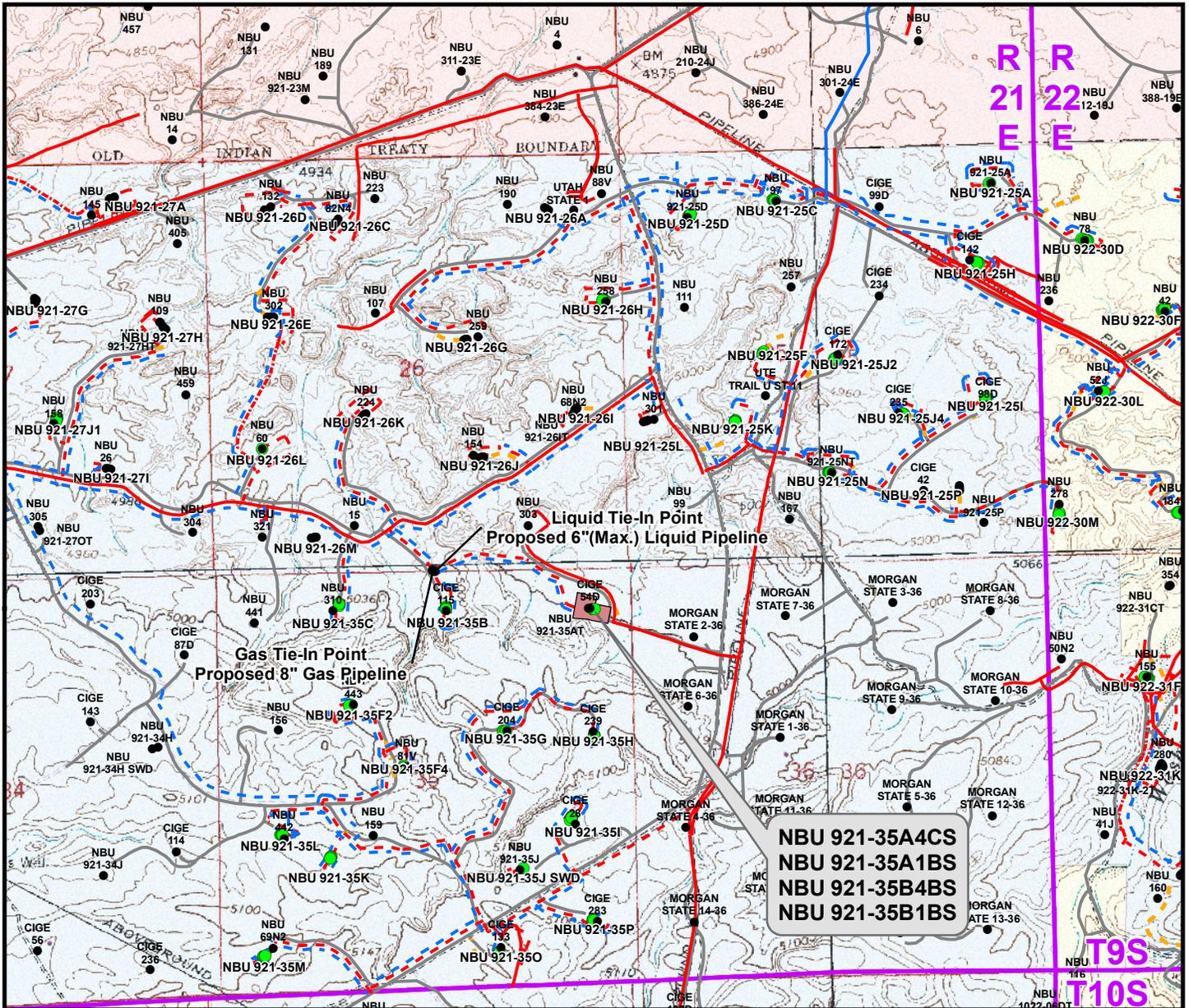
WELL PAD - NBU 921-35A

TOPO C
 NBU 921-35A4CS, NBU 921-35A1BS,
 NBU 921-35B4BS & NBU 921-35B1BS
 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	Sheet No:
Drawn: TL	Date: 19 Oct 2010	12 12 of 16
Revised: TL	Date: 9 Dec 2010	



NBU 921-35A4CS
NBU 921-35A1BS
NBU 921-35B4BS
NBU 921-35B1BS

Proposed Liquid Pipeline	Length
Proposed 6" (Max.) (Meter House to Edge of Pad)	±70ft
Proposed 6" (Max.) (Edge of Pad to 35B Intersection)	±2,240ft
TOTAL PROPOSED LIQUID PIPELINE =	±2,310ft

Proposed Gas Pipeline	Length
Proposed 6" (Meter House to Edge of Pad)	±70ft
Proposed 6" (Edge of Pad to Proposed 4" Re-Route Intersection)	±920ft
Proposed 4" Re-Route	±50ft
Proposed 6" (Proposed 4" Re-Route Intersection to 35B Intersection)	±1,320ft
TOTAL PROPOSED GAS PIPELINE =	±2,360ft

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

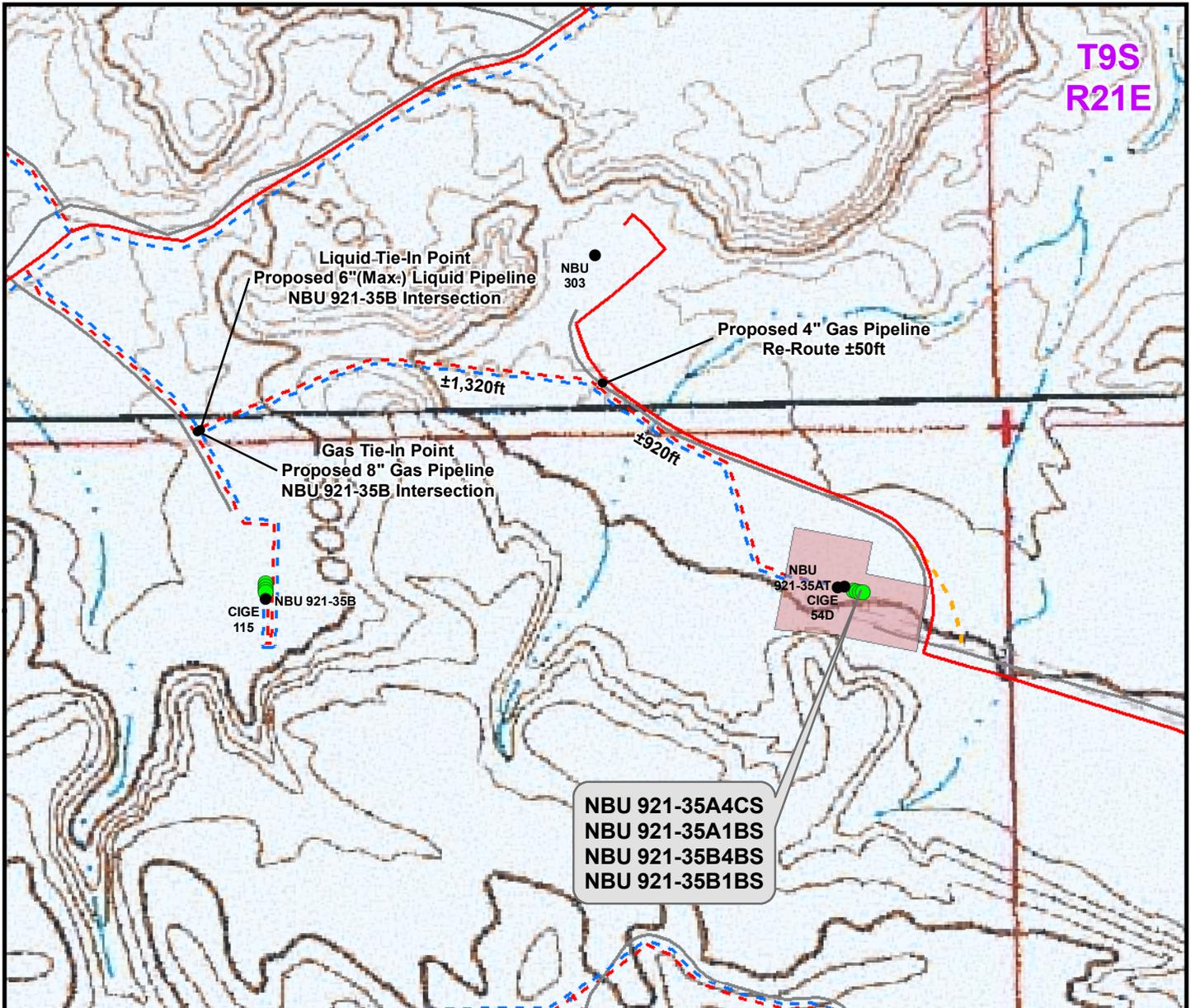
WELL PAD - NBU 921-35A

TOPO D
NBU 921-35A4CS, NBU 921-35A1BS,
NBU 921-35B4BS & NBU 921-35B1BS
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" = 2,000ft	NAD83 USP Central	Sheet No:
Drawn: TL	Date: 19 Oct 2010	13 13 of 16
Revised: TL	Date: 9 Dec 2010	

T9S
R21E



NBU 921-35A4CS
NBU 921-35A1BS
NBU 921-35B4BS
NBU 921-35B1BS

Proposed Liquid Pipeline	Length
Proposed 6" (Max.) (Meter House to Edge of Pad)	±70ft
Proposed 6" (Max.) (Edge of Pad to 35B Intersection)	±2,240ft
TOTAL PROPOSED LIQUID PIPELINE =	±2,310ft

Proposed Gas Pipeline	Length
Proposed 6" (Meter House to Edge of Pad)	±70ft
Proposed 6" (Edge of Pad to Proposed 4" Re-Route Intersection)	±920ft
Proposed 4" Re-Route	±50ft
Proposed 6" (Proposed 4" Re-Route Intersection to 35B Intersection)	±1,320ft
TOTAL PROPOSED GAS PIPELINE =	±2,360ft

Legend

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

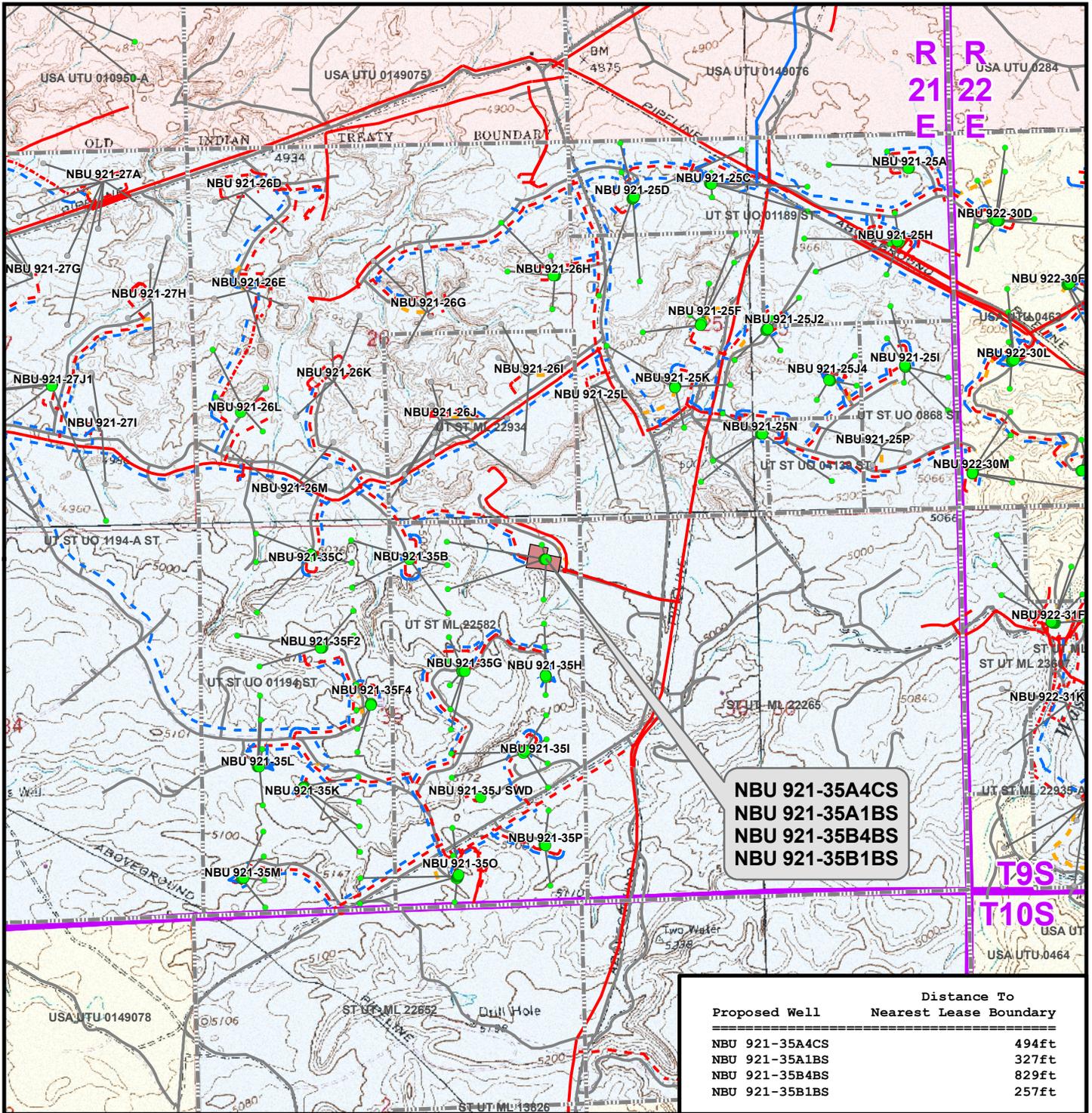
WELL PAD - NBU 921-35A

TOPO D2 (PAD & PIPELINE DETAIL)
NBU 921-35A4CS, NBU 921-35A1BS,
NBU 921-35B4BS & NBU 921-35B1BS
LOCATED IN SECTION 35, T9S, R21E,
S.L.B.&M., UTAH COUNTY, UTAH

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



Scale: 1" = 500ft	NAD83 USP Central	Sheet No:
Drawn: TL	Date: 19 Oct 2010	14
Revised: TL	Date: 9 Dec 2010	



**NBU 921-35A4CS
NBU 921-35A1BS
NBU 921-35B4BS
NBU 921-35B1BS**

Proposed Well	Distance To Nearest Lease Boundary
NBU 921-35A4CS	494ft
NBU 921-35A1BS	327ft
NBU 921-35B4BS	829ft
NBU 921-35B1BS	257ft

Legend

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

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

WELL PAD - NBU 921-35A

TOPO E
NBU 921-35A4CS, NBU 921-35A1BS,
NBU 921-35B4BS & NBU 921-35B1BS
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



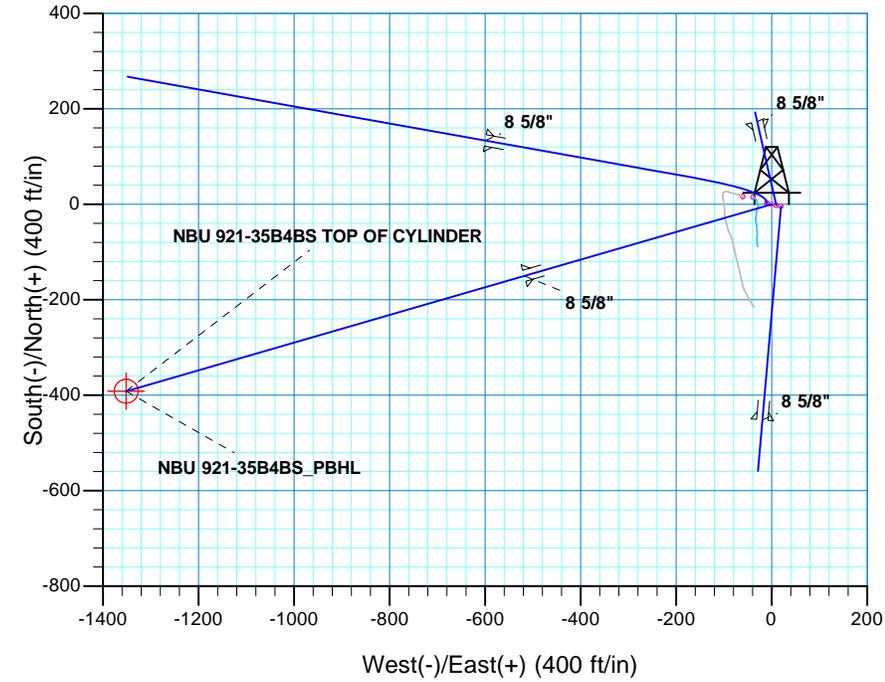
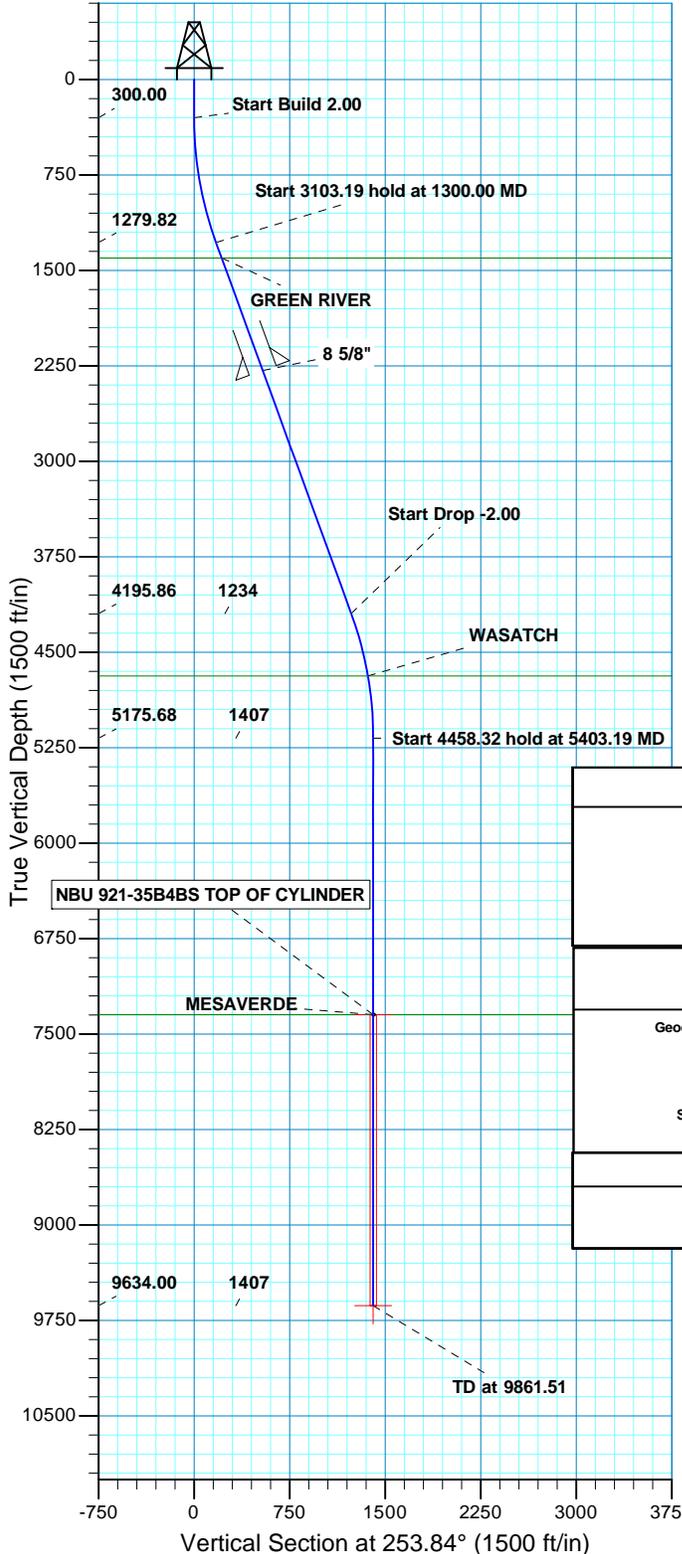
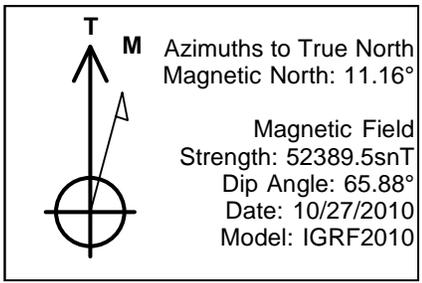
Scale: 1" = 2,000ft	NAD83 USP Central	Sheet No:
Drawn: TL	Date: 19 Oct 2010	15
Revised: TL	Date: 9 Dec 2010	

**Kerr-McGee Oil & Gas Onshore, LP
WELL PAD – NBU 921-35A
WELLS – NBU 921-35A4CS, NBU 921-35A1BS,
NBU 921-35B4BS & NBU 921-35B1BS
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 19.2 miles to a service road to the northwest. Exit right and proceed in a northwesterly direction along the service road approximately 0.3 miles to the proposed well location.

Total distance from Vernal, Utah to the proposed well location is approximately 43.0 miles in a southerly direction.

WELL DETAILS: NBU 921-35B4BS						
GL 4990 & KB 14' @ 5004.00ft (ASSUMED)						
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	
0.00	0.00	14528931.75	2057594.39	39° 59' 54.082 N	109° 30' 37.638 W	
DESIGN TARGET DETAILS						
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude Longitude Shape
TOP OF CYLINDER	7348.00	-391.48	-1351.33	14528517.73	2056249.79	39° 59' 50.212 N 109° 30' 55.004 W Point
- plan hits target center						
PBHL	9634.00	-391.48	-1351.33	14528517.73	2056249.79	39° 59' 50.212 N 109° 30' 55.004 W Circle (Radius: 25.00)
- plan hits target center						



SECTION DETAILS										
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
1300.00	20.00	253.84	1279.82	-48.07	-165.94	2.00	253.84	172.77	0.00	
4403.19	20.00	253.84	4195.86	-343.41	-1185.38	0.00	0.00	1234.12	0.00	
5403.19	0.00	0.00	5175.68	-391.48	-1351.33	2.00	180.00	1406.89	0.00	
9861.51	0.00	0.00	9634.00	-391.48	-1351.33	0.00	0.00	1406.89	NBU 921-35B4BS_PBHL	

PROJECT DETAILS: Uintah County, UT UTM12		
Geodetic System: Universal Transverse Mercator (US Survey Feet)		
Datum: NAD 1927 - Western US		
Ellipsoid: Clarke 1866		
Zone: Zone 12N (114 W to 108 W)		
Location: SEC 35 T9S R21E		
System Datum: Mean Sea Level		

FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
1403.00	1431.09	GREEN RIVER
4686.00	4911.10	WASATCH
7348.00	7575.51	MESAVERDE

CASING DETAILS			
TVD	MD	Name	Size
2286.00	2370.76	8 5/8"	8.625



Scientific Drilling
Rocky Mountain Operations

Kerr McGee Oil and Gas Onshore LP

Uintah County, UT UTM12

NBU 921-35A Pad

NBU 921-35B4BS

OH

Plan: PLAN #1

Standard Planning Report

27 October, 2010

Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 921-35B4BS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 4990 & KB 14' @ 5004.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 4990 & KB 14' @ 5004.00ft (ASSUMED)
Site:	NBU 921-35A Pad	North Reference:	True
Well:	NBU 921-35B4BS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1		

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

Site	NBU 921-35A Pad, SEC 35 T9S R21E				
Site Position:		Northing:	14,528,933.77 usft	Latitude:	39° 59' 54.103 N
From:	Lat/Long	Easting:	2,057,584.54 usft	Longitude:	109° 30' 37.764 W
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence:	0.96 °

Well	NBU 921-35B4BS, 520' FNL 464' FEL					
Well Position	+N/-S	-2.19 ft	Northing:	14,528,931.75 usft	Latitude:	39° 59' 54.082 N
	+E/-W	9.80 ft	Easting:	2,057,594.38 usft	Longitude:	109° 30' 37.638 W
Position Uncertainty		0.00 ft	Wellhead Elevation:		Ground Level:	4,990.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	10/27/2010	11.16	65.88	52,389

Design	PLAN #1			
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	253.84

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	
1,300.00	20.00	253.84	1,279.82	-48.07	-165.94	2.00	2.00	0.00	253.84	
4,403.19	20.00	253.84	4,195.86	-343.41	-1,185.38	0.00	0.00	0.00	0.00	
5,403.20	0.00	0.00	5,175.68	-391.48	-1,351.33	2.00	-2.00	0.00	180.00	
9,861.51	0.00	0.00	9,634.00	-391.48	-1,351.33	0.00	0.00	0.00	0.00	NBU 921-35B4BS_P1

Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 921-35B4BS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 4990 & KB 14' @ 5004.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 4990 & KB 14' @ 5004.00ft (ASSUMED)
Site:	NBU 921-35A Pad	North Reference:	True
Well:	NBU 921-35B4BS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1		

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	253.84	399.98	-0.49	-1.68	1.75	2.00	2.00	0.00	
500.00	4.00	253.84	499.84	-1.94	-6.70	6.98	2.00	2.00	0.00	
600.00	6.00	253.84	599.45	-4.37	-15.07	15.69	2.00	2.00	0.00	
700.00	8.00	253.84	698.70	-7.76	-26.78	27.88	2.00	2.00	0.00	
800.00	10.00	253.84	797.47	-12.11	-41.80	43.52	2.00	2.00	0.00	
900.00	12.00	253.84	895.62	-17.42	-60.13	62.60	2.00	2.00	0.00	
1,000.00	14.00	253.84	993.06	-23.68	-81.74	85.10	2.00	2.00	0.00	
1,100.00	16.00	253.84	1,089.64	-30.88	-106.59	110.98	2.00	2.00	0.00	
1,200.00	18.00	253.84	1,185.27	-39.02	-134.68	140.21	2.00	2.00	0.00	
1,300.00	20.00	253.84	1,279.82	-48.07	-165.94	172.77	2.00	2.00	0.00	
Start 3103.19 hold at 1300.00 MD										
1,400.00	20.00	253.84	1,373.78	-57.59	-198.80	206.97	0.00	0.00	0.00	
1,431.09	20.00	253.84	1,403.00	-60.55	-209.01	217.60	0.00	0.00	0.00	
GREEN RIVER										
1,500.00	20.00	253.84	1,467.75	-67.11	-231.65	241.17	0.00	0.00	0.00	
1,600.00	20.00	253.84	1,561.72	-76.63	-264.50	275.37	0.00	0.00	0.00	
1,700.00	20.00	253.84	1,655.69	-86.14	-297.35	309.58	0.00	0.00	0.00	
1,800.00	20.00	253.84	1,749.66	-95.66	-330.20	343.78	0.00	0.00	0.00	
1,900.00	20.00	253.84	1,843.63	-105.18	-363.05	377.98	0.00	0.00	0.00	
2,000.00	20.00	253.84	1,937.60	-114.69	-395.90	412.18	0.00	0.00	0.00	
2,100.00	20.00	253.84	2,031.57	-124.21	-428.75	446.38	0.00	0.00	0.00	
2,200.00	20.00	253.84	2,125.54	-133.73	-461.61	480.59	0.00	0.00	0.00	
2,300.00	20.00	253.84	2,219.51	-143.25	-494.46	514.79	0.00	0.00	0.00	
2,370.76	20.00	253.84	2,286.00	-149.98	-517.70	538.99	0.00	0.00	0.00	
8 5/8"										
2,400.00	20.00	253.84	2,313.48	-152.76	-527.31	548.99	0.00	0.00	0.00	
2,500.00	20.00	253.84	2,407.45	-162.28	-560.16	583.19	0.00	0.00	0.00	
2,600.00	20.00	253.84	2,501.42	-171.80	-593.01	617.39	0.00	0.00	0.00	
2,700.00	20.00	253.84	2,595.39	-181.31	-625.86	651.60	0.00	0.00	0.00	
2,800.00	20.00	253.84	2,689.35	-190.83	-658.71	685.80	0.00	0.00	0.00	
2,900.00	20.00	253.84	2,783.32	-200.35	-691.56	720.00	0.00	0.00	0.00	
3,000.00	20.00	253.84	2,877.29	-209.87	-724.42	754.20	0.00	0.00	0.00	
3,100.00	20.00	253.84	2,971.26	-219.38	-757.27	788.40	0.00	0.00	0.00	
3,200.00	20.00	253.84	3,065.23	-228.90	-790.12	822.61	0.00	0.00	0.00	
3,300.00	20.00	253.84	3,159.20	-238.42	-822.97	856.81	0.00	0.00	0.00	
3,400.00	20.00	253.84	3,253.17	-247.93	-855.82	891.01	0.00	0.00	0.00	
3,500.00	20.00	253.84	3,347.14	-257.45	-888.67	925.21	0.00	0.00	0.00	
3,600.00	20.00	253.84	3,441.11	-266.97	-921.52	959.41	0.00	0.00	0.00	
3,700.00	20.00	253.84	3,535.08	-276.49	-954.37	993.62	0.00	0.00	0.00	
3,800.00	20.00	253.84	3,629.05	-286.00	-987.22	1,027.82	0.00	0.00	0.00	
3,900.00	20.00	253.84	3,723.02	-295.52	-1,020.08	1,062.02	0.00	0.00	0.00	
4,000.00	20.00	253.84	3,816.99	-305.04	-1,052.93	1,096.22	0.00	0.00	0.00	
4,100.00	20.00	253.84	3,910.95	-314.55	-1,085.78	1,130.42	0.00	0.00	0.00	
4,200.00	20.00	253.84	4,004.92	-324.07	-1,118.63	1,164.63	0.00	0.00	0.00	
4,300.00	20.00	253.84	4,098.89	-333.59	-1,151.48	1,198.83	0.00	0.00	0.00	
4,400.00	20.00	253.84	4,192.86	-343.11	-1,184.33	1,233.03	0.00	0.00	0.00	
4,403.19	20.00	253.84	4,195.86	-343.41	-1,185.38	1,234.12	0.00	0.00	0.00	

Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 921-35B4BS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 4990 & KB 14' @ 5004.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 4990 & KB 14' @ 5004.00ft (ASSUMED)
Site:	NBU 921-35A Pad	North Reference:	True
Well:	NBU 921-35B4BS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1		

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)	
Start Drop -2.00										
4,500.00	18.06	253.84	4,287.37	-352.19	-1,215.70	1,265.69	2.00	-2.00	0.00	
4,600.00	16.06	253.84	4,382.97	-360.36	-1,243.88	1,295.03	2.00	-2.00	0.00	
4,700.00	14.06	253.84	4,479.53	-367.59	-1,268.85	1,321.02	2.00	-2.00	0.00	
4,800.00	12.06	253.84	4,576.93	-373.88	-1,290.56	1,343.62	2.00	-2.00	0.00	
4,900.00	10.06	253.84	4,675.07	-379.22	-1,308.99	1,362.81	2.00	-2.00	0.00	
4,911.10	9.84	253.84	4,686.00	-379.75	-1,310.83	1,364.73	2.00	-2.00	0.00	
WASATCH										
5,000.00	8.06	253.84	4,773.82	-383.60	-1,324.12	1,378.56	2.00	-2.00	0.00	
5,100.00	6.06	253.84	4,873.05	-387.02	-1,335.93	1,390.86	2.00	-2.00	0.00	
5,200.00	4.06	253.84	4,972.66	-389.48	-1,344.41	1,399.69	2.00	-2.00	0.00	
5,300.00	2.06	253.84	5,072.51	-390.97	-1,349.54	1,405.03	2.00	-2.00	0.00	
5,400.00	0.06	253.84	5,172.49	-391.48	-1,351.32	1,406.89	2.00	-2.00	0.00	
5,403.20	0.00	0.00	5,175.68	-391.48	-1,351.33	1,406.89	2.00	-2.00	0.00	
Start 4458.32 hold at 5403.19 MD										
5,500.00	0.00	0.00	5,272.49	-391.48	-1,351.33	1,406.89	0.00	0.00	0.00	
5,600.00	0.00	0.00	5,372.49	-391.48	-1,351.33	1,406.89	0.00	0.00	0.00	
5,700.00	0.00	0.00	5,472.49	-391.48	-1,351.33	1,406.89	0.00	0.00	0.00	
5,800.00	0.00	0.00	5,572.49	-391.48	-1,351.33	1,406.89	0.00	0.00	0.00	
5,900.00	0.00	0.00	5,672.49	-391.48	-1,351.33	1,406.89	0.00	0.00	0.00	
6,000.00	0.00	0.00	5,772.49	-391.48	-1,351.33	1,406.89	0.00	0.00	0.00	
6,100.00	0.00	0.00	5,872.49	-391.48	-1,351.33	1,406.89	0.00	0.00	0.00	
6,200.00	0.00	0.00	5,972.49	-391.48	-1,351.33	1,406.89	0.00	0.00	0.00	
6,300.00	0.00	0.00	6,072.49	-391.48	-1,351.33	1,406.89	0.00	0.00	0.00	
6,400.00	0.00	0.00	6,172.49	-391.48	-1,351.33	1,406.89	0.00	0.00	0.00	
6,500.00	0.00	0.00	6,272.49	-391.48	-1,351.33	1,406.89	0.00	0.00	0.00	
6,600.00	0.00	0.00	6,372.49	-391.48	-1,351.33	1,406.89	0.00	0.00	0.00	
6,700.00	0.00	0.00	6,472.49	-391.48	-1,351.33	1,406.89	0.00	0.00	0.00	
6,800.00	0.00	0.00	6,572.49	-391.48	-1,351.33	1,406.89	0.00	0.00	0.00	
6,900.00	0.00	0.00	6,672.49	-391.48	-1,351.33	1,406.89	0.00	0.00	0.00	
7,000.00	0.00	0.00	6,772.49	-391.48	-1,351.33	1,406.89	0.00	0.00	0.00	
7,100.00	0.00	0.00	6,872.49	-391.48	-1,351.33	1,406.89	0.00	0.00	0.00	
7,200.00	0.00	0.00	6,972.49	-391.48	-1,351.33	1,406.89	0.00	0.00	0.00	
7,300.00	0.00	0.00	7,072.49	-391.48	-1,351.33	1,406.89	0.00	0.00	0.00	
7,400.00	0.00	0.00	7,172.49	-391.48	-1,351.33	1,406.89	0.00	0.00	0.00	
7,500.00	0.00	0.00	7,272.49	-391.48	-1,351.33	1,406.89	0.00	0.00	0.00	
7,575.51	0.00	0.00	7,348.00	-391.48	-1,351.33	1,406.89	0.00	0.00	0.00	
MESAVERDE - NBU 921-35B4BS TOP OF CYLINDER										
7,600.00	0.00	0.00	7,372.49	-391.48	-1,351.33	1,406.89	0.00	0.00	0.00	
7,700.00	0.00	0.00	7,472.49	-391.48	-1,351.33	1,406.89	0.00	0.00	0.00	
7,800.00	0.00	0.00	7,572.49	-391.48	-1,351.33	1,406.89	0.00	0.00	0.00	
7,900.00	0.00	0.00	7,672.49	-391.48	-1,351.33	1,406.89	0.00	0.00	0.00	
8,000.00	0.00	0.00	7,772.49	-391.48	-1,351.33	1,406.89	0.00	0.00	0.00	
8,100.00	0.00	0.00	7,872.49	-391.48	-1,351.33	1,406.89	0.00	0.00	0.00	
8,200.00	0.00	0.00	7,972.49	-391.48	-1,351.33	1,406.89	0.00	0.00	0.00	
8,300.00	0.00	0.00	8,072.49	-391.48	-1,351.33	1,406.89	0.00	0.00	0.00	
8,400.00	0.00	0.00	8,172.49	-391.48	-1,351.33	1,406.89	0.00	0.00	0.00	
8,500.00	0.00	0.00	8,272.49	-391.48	-1,351.33	1,406.89	0.00	0.00	0.00	
8,600.00	0.00	0.00	8,372.49	-391.48	-1,351.33	1,406.89	0.00	0.00	0.00	
8,700.00	0.00	0.00	8,472.49	-391.48	-1,351.33	1,406.89	0.00	0.00	0.00	
8,800.00	0.00	0.00	8,572.49	-391.48	-1,351.33	1,406.89	0.00	0.00	0.00	

Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 921-35B4BS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 4990 & KB 14' @ 5004.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 4990 & KB 14' @ 5004.00ft (ASSUMED)
Site:	NBU 921-35A Pad	North Reference:	True
Well:	NBU 921-35B4BS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1		

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)	
8,900.00	0.00	0.00	8,672.49	-391.48	-1,351.33	1,406.89	0.00	0.00	0.00	
9,000.00	0.00	0.00	8,772.49	-391.48	-1,351.33	1,406.89	0.00	0.00	0.00	
9,100.00	0.00	0.00	8,872.49	-391.48	-1,351.33	1,406.89	0.00	0.00	0.00	
9,200.00	0.00	0.00	8,972.49	-391.48	-1,351.33	1,406.89	0.00	0.00	0.00	
9,300.00	0.00	0.00	9,072.49	-391.48	-1,351.33	1,406.89	0.00	0.00	0.00	
9,400.00	0.00	0.00	9,172.49	-391.48	-1,351.33	1,406.89	0.00	0.00	0.00	
9,500.00	0.00	0.00	9,272.49	-391.48	-1,351.33	1,406.89	0.00	0.00	0.00	
9,600.00	0.00	0.00	9,372.49	-391.48	-1,351.33	1,406.89	0.00	0.00	0.00	
9,700.00	0.00	0.00	9,472.49	-391.48	-1,351.33	1,406.89	0.00	0.00	0.00	
9,800.00	0.00	0.00	9,572.49	-391.48	-1,351.33	1,406.89	0.00	0.00	0.00	
9,861.51	0.00	0.00	9,634.00	-391.48	-1,351.33	1,406.89	0.00	0.00	0.00	
NBU 921-35B4BS_PBHL										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
NBU 921-35B4BS TOP - hit/miss target - Shape - Point	0.00	0.00	7,348.00	-391.48	-1,351.33	14,528,517.74	2,056,249.79	39° 59' 50.212 N	109° 30' 55.004 W	
NBU 921-35B4BS_PBHL - plan hits target center - Circle (radius 25.00)	0.00	0.00	9,634.00	-391.48	-1,351.33	14,528,517.74	2,056,249.79	39° 59' 50.212 N	109° 30' 55.004 W	

Casing Points						
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)		
2,370.76	2,286.00	8 5/8"	8.625	11.000		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,431.09	1,403.00	GREEN RIVER				
4,911.10	4,686.00	WASATCH				
7,575.51	7,348.00	MESAVERDE				

Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 921-35B4BS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 4990 & KB 14' @ 5004.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 4990 & KB 14' @ 5004.00ft (ASSUMED)
Site:	NBU 921-35A Pad	North Reference:	True
Well:	NBU 921-35B4BS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1		

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
300.00	300.00	0.00	0.00	Start Build 2.00
1,300.00	1,279.82	-48.07	-165.94	Start 3103.19 hold at 1300.00 MD
4,403.19	4,195.86	-343.41	-1,185.38	Start Drop -2.00
5,403.20	5,175.68	-391.48	-1,351.33	Start 4458.32 hold at 5403.19 MD
9,861.51	9,634.00	-391.48	-1,351.33	TD at 9861.51

NBU 921-35A1BS

Surface: 522' FNL 455' FEL (NE/4NE/4)
BHL: 327' FNL 499' FEL (NE/4NE/4)

NBU 921-35A4CS

Surface: 524' FNL 445' FEL (NE/4NE/4)
BHL: 1,079' FNL 494' FEL (NE/4NE/4)

NBU 921-35B1BS

Surface: 518' FNL 474' FEL (NE/4NE/4)
BHL: 257' FNL 1,813' FEL (NW/4NE/4)

NBU 921-35B4BS

Surface: 520' FNL 464' FEL (NE/4NE/4)
BHL: 916' FNL 1,817' FEL (NW/4NE/4)

Pad: NBU 921-35A
Section 35 T9S R21E
Mineral Lease: ML 22582

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 $\pm 420'$ (0.08 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 NBU 921-35AT and the CIGE 54D. The NBU 921-25AT well location is a vertical producing well and the CIGE 54D well is a SWD Monitor 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 $\pm 2,360'$ and the individual segments are broken up as follows:

- $\pm 70'$ (0.01 miles) – New 6" buried gas pipeline from the meter to the edge of the pad.
- $\pm 920'$ (0.2 miles) – New 6" buried gas pipeline from the edge of pad to the proposed 4" pipeline re-route intersection.
- $\pm 50'$ (0.01 miles) – Re-route 4" buried gas pipeline to the proposed 6" gas pipeline.

±1,320' (0.3 miles) –New 6" buried gas pipeline from the proposed 4" pipeline re-route intersection to the NBU 921-35B pad intersection.

The total liquid gathering pipeline distance from the separator to the tie in point is ±2,310' and the individual segments are broken up as follows:

±70' (0.01 miles) –New 6" buried liquid pipeline from the separator to the edge of the pad.

±2,240' (0.4 miles) –New 6" buried liquid pipeline from the edge of pad to the NBU 921-35B 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 25, 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 921-35B4BS
T9S-R21E
Section 35: NENE (Surf), NWNE (Bottom)
Surface: 520' FNL, 464' FEL
Bottom Hole: 916' FNL, 1817' 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 921-35B4BS 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

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)

November 19, 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 921-35A Pad

43-047-51339	NBU 921-35A1BS	Sec 35 T09S R21E 0522 FNL 0455 FEL
	BHL	Sec 35 T09S R21E 0327 FNL 0499 FEL

43-047-51340	NBU 921-35A4CS	Sec 35 T09S R21E 0524 FNL 0445 FEL
	BHL	Sec 35 T09S R21E 1079 FNL 0494 FEL

43-047-51341	NBU 921-35B1BS	Sec 35 T09S R21E 0518 FNL 0474 FEL
	BHL	Sec 35 T09S R21E 0257 FNL 1813 FEL

43-047-51342	NBU 921-35B4BS	Sec 35 T09S R21E 0520 FNL 0464 FEL
	BHL	Sec 35 T09S R21E 0916 FNL 1817 FEL

NBU 921-35B Pad

43-047-51343	NBU 921-35B1CS	Sec 35 T09S R21E 0468 FNL 2339 FEL
	BHL	Sec 35 T09S R21E 0582 FNL 1816 FEL

43-047-51344	NBU 921-35B4CS	Sec 35 T09S R21E 0488 FNL 2340 FEL
	BHL	Sec 35 T09S R21E 1249 FNL 1818 FEL

43-047-51345	NBU 921-35C1BS	Sec 35 T09S R21E 0458 FNL 2338 FEL
	BHL	Sec 35 T09S R21E 0207 FNL 2154 FWL

43-047-51346	NBU 921-35C4BS	Sec 35 T09S R21E 0478 FNL 2339 FEL
	BHL	Sec 35 T09S R21E 0860 FNL 2144 FWL

API # WELL NAME LOCATION

(Proposed PZ WASATCH-MESA VERDE)

NBU 921-35C Pad

43-047-51347 NBU 921-35C1CS Sec 35 T09S R21E 0399 FNL 1591 FWL
 BHL Sec 35 T09S R21E 0522 FNL 2147 FWL

43-047-51348 NBU 921-35D1BS Sec 35 T09S R21E 0389 FNL 1592 FWL
 BHL Sec 35 T09S R21E 0089 FNL 0831 FWL

43-047-51349 NBU 921-35D1CS Sec 35 T09S R21E 0409 FNL 1589 FWL
 BHL Sec 35 T09S R21E 0488 FNL 0823 FWL

43-047-51350 NBU 921-35D4CS Sec 35 T09S R21E 0418 FNL 1588 FWL
 BHL Sec 35 T09S R21E 1182 FNL 0818 FWL

NBU 921-35F2 Pad

43-047-51351 NBU 921-35C4CS Sec 35 T09S R21E 1686 FNL 1699 FWL
 BHL Sec 35 T09S R21E 1187 FNL 2148 FWL

43-047-51352 NBU 921-35E1CS Sec 35 T09S R21E 1691 FNL 1679 FWL
 BHL Sec 35 T09S R21E 1933 FNL 0826 FWL

43-047-51353 NBU 921-35E2AS Sec 35 T09S R21E 1688 FNL 1689 FWL
 BHL Sec 35 T09S R21E 1498 FNL 0535 FWL

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

Michael L. Coulthard

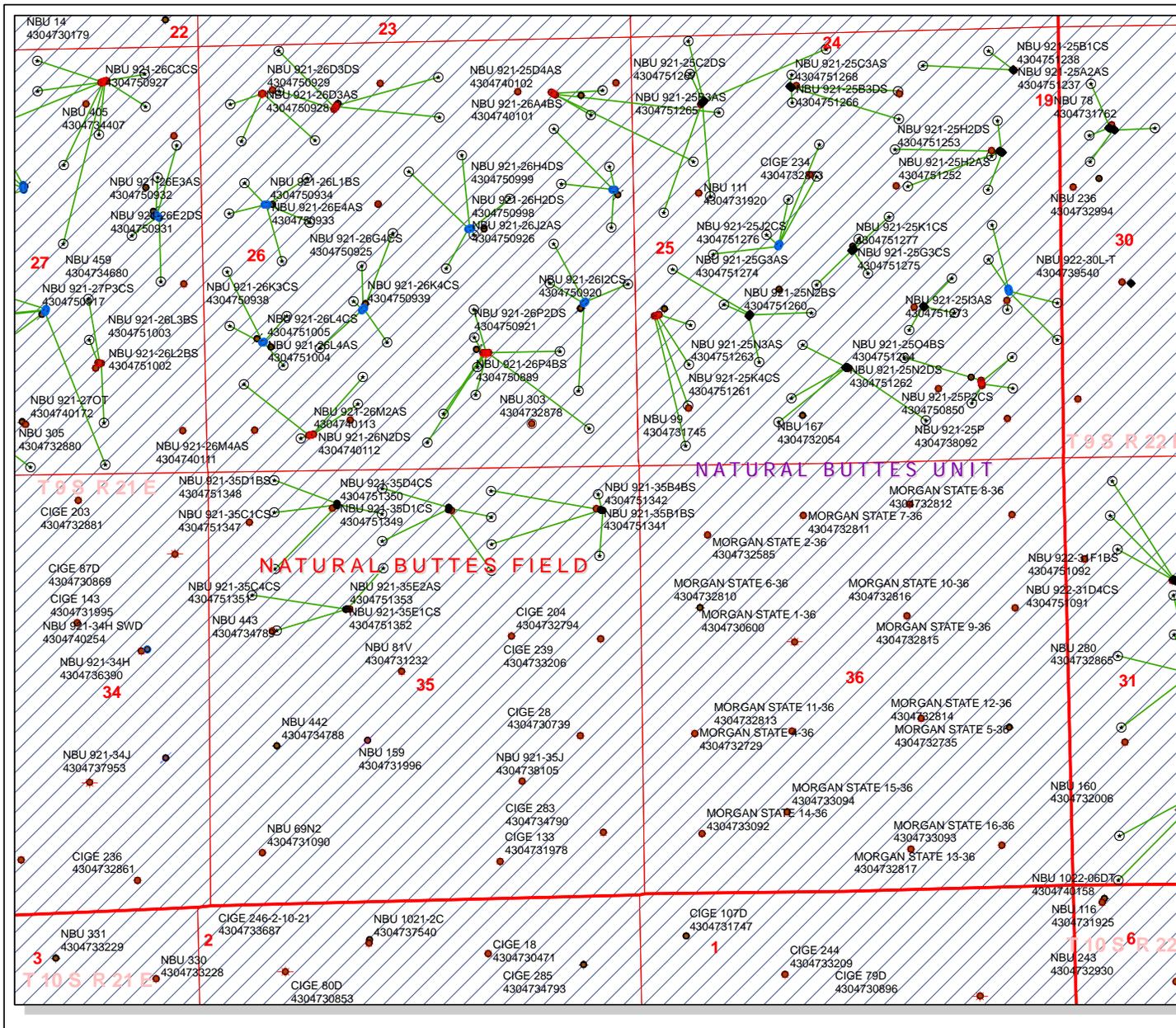
Digitally signed by Michael L. Coulthard
 DN: cn=Michael L. Coulthard, o=Bureau of Land Management,
 ou=Branch of Minerals, email=Michael_Coulthard@blm.gov, c=US
 Date: 2010.11.19 09:52:13 -07'00'

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

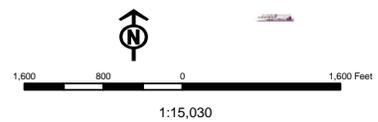
MCoulthard:mc:11-19-10

API Number: 4304751342
Well Name: NBU 921-35B4BS
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 | ✕ - call other values- |
| ACTIVE | ◆ APD - Approved Permit |
| EXPLORATORY | ○ DRL - Spudded (Drilling Commenced) |
| GAS STORAGE | ○ LOC - New Location |
| NF PP OIL | ○ OPS - Operation Suspended |
| NF SECONDARY | ○ PA - Plugged Abandoned |
| PI OIL | ○ PGW - Producing Gas Well |
| PP GAS | ○ POW - Producing Oil Well |
| PP GEOTHERMAL | ○ RET - Returned APD |
| PP OIL | ○ SGW - Shut-in Gas Well |
| SECONDARY | ○ SOW - Shut-in Oil Well |
| TERMINATED | ○ TA - Temp. Abandoned |
| Fields | ○ TW - Test Well |
| Sections | ○ WDW - Water Disposal |
| Township | ○ WWI - Water Injection Well |
| Bottom Hole Location - AGRC | ○ WSW - Water Supply Well |



Well Name	KERR-MCGEE OIL & GAS ONSHORE, L.P. NBU 921-35B4BS 430475134			
String	Surf	Prod		
Casing Size(")	8.625	4.500		
Setting Depth (TVD)	2248	9634		
Previous Shoe Setting Depth (TVD)	40	2248		
Max Mud Weight (ppg)	8.3	12.0		
BOPE Proposed (psi)	500	5000		
Casing Internal Yield (psi)	3390	7780		
Operators Max Anticipated Pressure (psi)	5877	11.7		

Calculations	Surf String	8.625	"
Max BHP (psi)	$.052 * \text{Setting Depth} * \text{MW} =$	974	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	$\text{Max BHP} - (0.12 * \text{Setting Depth}) =$	704	NO <input type="text" value="air drill"/>
MASP (Gas/Mud) (psi)	$\text{Max BHP} - (0.22 * \text{Setting Depth}) =$	479	YES <input type="text" value="OK"/>
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	$\text{Max BHP} - .22 * (\text{Setting Depth} - \text{Previous Shoe Depth}) =$	488	NO <input type="text" value="Reasonable depth in area"/>
Required Casing/BOPE Test Pressure=		2248	psi
*Max Pressure Allowed @ Previous Casing Shoe=		40	psi *Assumes 1psi/ft frac gradient

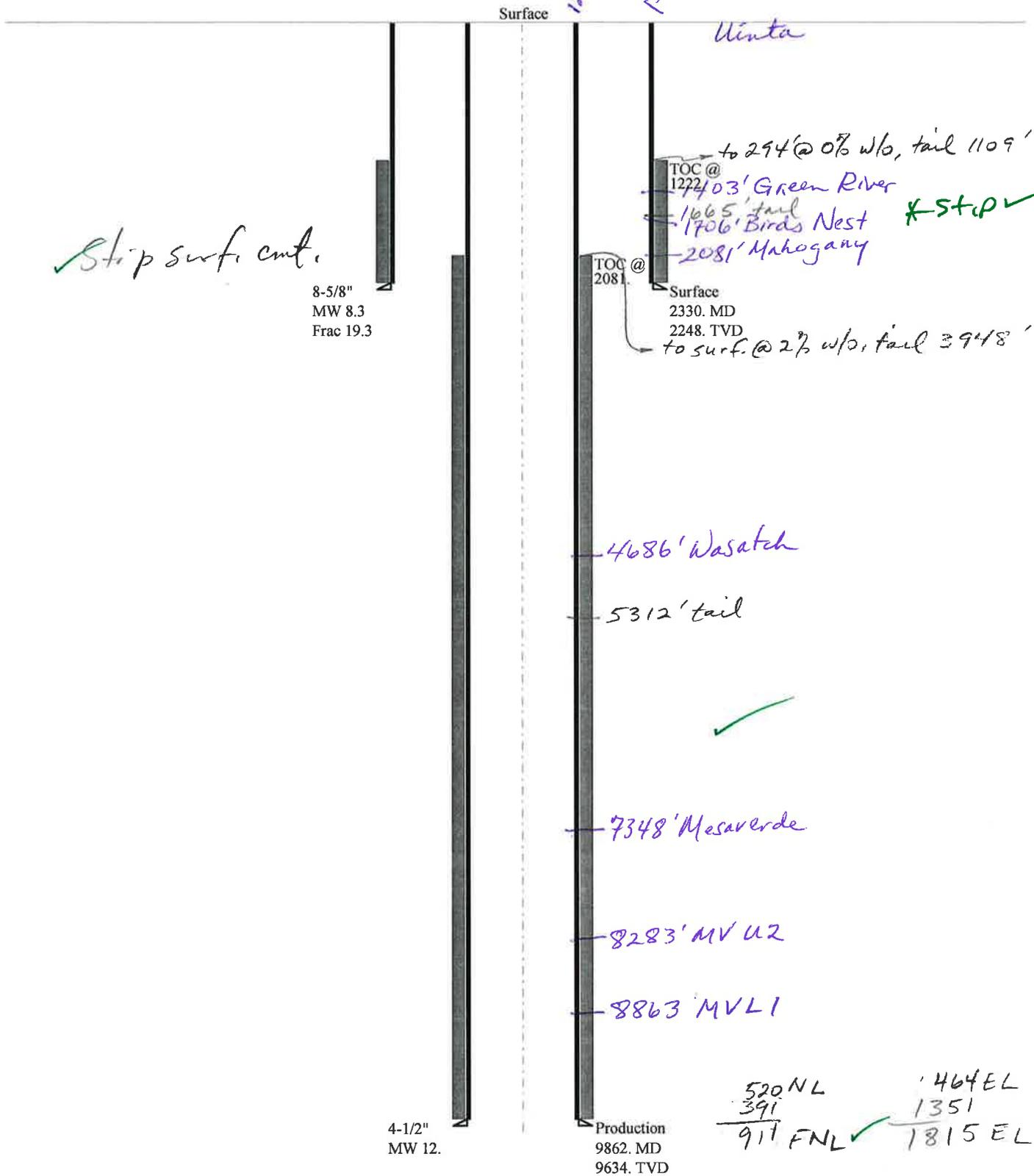
Calculations	Prod String	4.500	"
Max BHP (psi)	$.052 * \text{Setting Depth} * \text{MW} =$	6012	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	$\text{Max BHP} - (0.12 * \text{Setting Depth}) =$	4856	YES <input type="text"/>
MASP (Gas/Mud) (psi)	$\text{Max BHP} - (0.22 * \text{Setting Depth}) =$	3893	YES <input type="text" value="OK"/>
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	$\text{Max BHP} - .22 * (\text{Setting Depth} - \text{Previous Shoe Depth}) =$	4387	NO <input type="text" value="Reasonable"/>
Required Casing/BOPE Test Pressure=		5000	psi
*Max Pressure Allowed @ Previous Casing Shoe=		2248	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

43047513420000 NBU 921-35B4BS

Casing Schematic



NWNE sec 35-9.5-21E

Well name:	43047513420000 NBU 921-35B4BS		
Operator:	KERR-MCGEE OIL & GAS ONSHORE, L.P.		
String type:	Surface	Project ID:	43-047-51342
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: 105 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 100 ft

Cement top: 1,222 ft

Burst

Max anticipated surface pressure: 2,050 psi
Internal gradient: 0.120 psi/ft
Calculated BHP 2,320 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: 2,036 ft

Directional Info - Build & Drop

Kick-off point 300 ft
Departure at shoe: 525 ft
Maximum dogleg: 2 °/100ft
Inclination at shoe: 20 °

Re subsequent strings:

Next setting depth: 9,634 ft
Next mud weight: 12.000 ppg
Next setting BHP: 6,006 psi
Fracture mud wt: 19.250 ppg
Fracture depth: 2,330 ft
Injection pressure: 2,330 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	2330	8.625	28.00	I-55	LT&C	2248	2330	7.892	92268
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	973	1880	1.933	2320	3390	1.46	62.9	348	5.53 J

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

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

Date: December 8, 2010
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 2248 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:	43047513420000 NBU 921-35B4BS		
Operator:	KERR-MCGEE OIL & GAS ONSHORE, L.P.		
String type:	Production	Project ID:	43-047-51342
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

Environment:

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

Burst:

Design factor 1.00

Cement top: 2,081 ft

Burst

Max anticipated surface pressure: 3,886 psi
 Internal gradient: 0.220 psi/ft
 Calculated BHP 6,006 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)

Directional Info - Build & Drop

Kick-off point 300 ft
 Departure at shoe: 1407 ft
 Maximum dogleg: 2 °/100ft
 Inclination at shoe: 0 °

Tension is based on air weight.

Neutral point: 8,134 ft

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	9862	4.5	11.60	I-80	LT&C	9634	9862	3.875	130178
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	5505	6360	1.155	6006	7780	1.30	111.8	212	1.90 J

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

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

Date: December 8, 2010
 Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 9634 ft, a mud weight of 12 ppg. An internal gradient of .052 psi/ft was used for collapse from TD to 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

Engineering responsibility for use of this design will be that of the purchaser.

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)		

ON-SITE PREDRILL EVALUATION

Utah Division of Oil, Gas and Mining

Operator KERR-MCGEE OIL & GAS ONSHORE, L.P.
Well Name NBU 921-35B4BS
API Number 43047513420000 **APD No** 3155 **Field/Unit** NATURAL BUTTES
Location: 1/4,1/4 NENE **Sec** 35 **Tw** 9.0S **Rng** 21.0E 520 FNL 464 FEL
GPS Coord (UTM) 627156 4428429 **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 43.0 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 921-35A pad will be created by slightly enlarging the existing pad of the CIGE 541 and NBU 921-35AT gas wells. It will be primarily enlarged to the east and north. Four gas wells, to be directionally drilled, will be added. They are the NBU 921-35B1BS, 921-35A1BS, 921-35B4BS and 921-35A4CS. The pad begins at the foot of an existing vertical cut into a side-hill on the south. It extends east into a gentle area. The pad will be widened from 47 to 60 feet between Corners 8 and 9. No drainages intersect the site and no diversions are needed. The reserve pit is proposed on the north and has a slight fill on the northeast corner. With the planned 15 foot outer bench and the spoils pile beyond the bench, it should be stable. 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.

Surface Use Plan

Current Surface Use

- Grazing
- Wildlfe Habitat
- Existing Well Pad

New Road Miles	Well Pad	Src Const Material	Surface Formation
0	Width 312 Length 455	Onsite	UNTA

Ancillary Facilities N

Waste Management Plan Adequate?

Environmental Parameters

Affected Floodplains and/or Wetlands N

Flora / Fauna

Vegetation is a poor desert shrub type, which includes 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 shallow and rocky

Erosion Issues N

Sedimentation Issues N

Site Stability Issues N

Drainage Diverson Required? N

Berm Required? N

Erosion Sedimentation Control Required? N

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 220' x 12' deep located mostly in a cut on the northwest 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

11/30/2010

Evaluator

Date / Time

Application for Permit to Drill

Statement of Basis

12/27/2010

Utah Division of Oil, Gas and Mining

Page 1

APD No	API WellNo	Status	Well Type	Surf Owner	CBM
3155	43047513420000	LOCKED	GW	S	No
Operator	KERR-MCGEE OIL & GAS ONSHORE, L.P.		Surface Owner-APD		
Well Name	NBU 921-35B4BS		Unit	NATURAL BUTTES	
Field	NATURAL BUTTES		Type of Work	DRILL	
Location	NENE 35 9S 21E S 520 FNL 464 FEL		GPS Coord (UTM)	627163E	4428422N

Geologic Statement of Basis

Kerr McGee proposes to set 2,330' of surface casing at this location. The depth to the base of the moderately saline water at this location is estimated to be at a depth of 2,000'. 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. The proposed casing and cement should adequately protect. Any usable ground water.

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 43.0 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.

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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

12/27/2010

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 adouble felt subliner shall be properly installed and maintained in the reserve pit.
Surface	The reserve pit shall be fenced upon completion of drilling operations.

**WORKSHEET
APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 11/18/2010

WELL NAME: NBU 921-35B4BS

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

CONTACT: Danielle Piernot

API NO. ASSIGNED: 43047513420000

PHONE NUMBER: 720 929-6156

PROPOSED LOCATION: NENE 35 090S 210E

SURFACE: 0520 FNL 0464 FEL

BOTTOM: 0916 FNL 1817 FEL

COUNTY: UINTAH

LATITUDE: 39.99831

UTM SURF EASTINGS: 627163.00

FIELD NAME: NATURAL BUTTES

LEASE TYPE: 3 - State

LEASE NUMBER: ML 22582

SURFACE OWNER: 3 - State

Permit Tech Review:

Engineering Review:

Geology Review:

LONGITUDE: -109.51037

NORTHINGS: 4428422.00

PROPOSED PRODUCING FORMATION(S): WASATCH-MESA VERDE

COALBED METHANE: NO

RECEIVED AND/OR REVIEWED:

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

Commingle Approved

LOCATION AND SITING:

- R649-2-3.
Unit: NATURAL BUTTES
- R649-3-2. General
- R649-3-3. Exception
- Drilling Unit
Board Cause No: Cause 173-14
Effective Date: 12/2/1999
Siting: 460' Fr U Bdry & Uncommitted Tracts
- R649-3-11. Directional Drill

Comments: Presite Completed

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



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 921-35B4BS
API Well Number: 43047513420000
Lease Number: ML 22582
Surface Owner: STATE
Approval Date: 12/27/2010

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.

Surface casing shall be cemented to the surface.

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

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 921-35B4BS

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

9. API NUMBER:
43047513420000

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:
0520 FNL 0464 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
Qtr/Qtr: NENE 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: 3/16/2011	<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
	<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 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 MARCH 16, 2011 AT 11:00 HRS.

**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 3/17/2011	

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 921-35B4BS
 Qtr/Qtr NENE Section 35 Township 9S Range 21E
 Lease Serial Number ML-22582
 API Number 4304751342

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

Date/Time 03/16/2011 11:00 HRS AM PM

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

- Surface Casing
- Intermediate Casing
- Production Casing
- Liner
- Other

RECEIVED

MAR 14 2011

DIV. OF OIL, GAS & MINING

Date/Time 04/20/2011 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

435.781.7048 OR LOVEL YOUNG AT 435.828.0986

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
4304751341	NBU 921-35B1BS		NENE	35	09S	21E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
B	99999	2900	3/16/2011			3/23/11	
Comments: MIRU PETE MARTIN BUCKET RIG. <i>WSMVD</i> SPUD WELL LOCATION ON 03/16/2011 AT 08:30 HRS. <i>BHL = N WNE</i>							

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304751342	NBU 921-35B4BS		NENE	35	09S	21E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
B	99999	2900	3/16/2011			3/23/11	
Comments: MIRU PETE MARTIN BUCKET RIG. <i>WSMVD</i> SPUD WELL LOCATION ON 03/16/2011 AT 11:00 HRS. <i>BHL = N WNE</i>							

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304751339	NBU 921-35A1BS		NENE	35	09S	21E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
B	99999	2900	3/16/2011			3/23/11	
Comments: MIRU PETE MARTIN BUCKET RIG. <i>WSMVD</i> SPUD WELL LOCATION ON 03/16/2011 AT 14:15 HRS. <i>BHL = NENE</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 *ASL*

REGULATORY ANALYST

3/17/2011

Title

Date

RECEIVED

MAR 17 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 921-35B4BS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047513420000
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: 0520 FNL 0464 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENE 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: 3/28/2011	<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
	<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: 50px;" type="text"/>

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

MIRU AIR RIG ON MARCH 26, 2011. DRILLED 11" SURFACE HOLE TO 2640'.
 RAN 8 5/8" 28# IJ55 SURFACE CASING. CEMENTED SURFACE CASING. WELL
 IS WAITING ON ROTARY RIG. DETAILS OF CEMENT JOB WILL BE INCLUDED WITH WELL COMPLETION REPORT.

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 3/29/2011	

BLM - Vernal Field Office - Notification Form

Operator KERR MCGEE Rig Name/# H&P 311
Submitted By PAT CAIN Phone Number 435- 790-1884
Well Name/Number NBU 921-35B4BS
Qtr/Qtr NE/NE Section 35 Township 9S Range 21E
Lease Serial Number ML 22582
API Number 43-047-51342

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

Date/Time _____ AM PM

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

- Surface Casing
- Intermediate Casing
- Production Casing
- Liner
- Other

Date/Time _ _ AM PM

BOPE

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

Date/Time 5/5/2011 06:00 AM PM

Remarks _____

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:
1. TYPE OF WELL Gas Well		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		8. WELL NAME and NUMBER: NBU 921-35B4BS
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		9. API NUMBER: 43047513420000
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0520 FNL 0464 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENE 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"/> 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"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 50px;" type="text"/>	
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 5/12/2011		
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.		
MIRU ROTARY RIG. FINISHED DRILLING FROM 2640' TO 9867' ON MAY 12, 2011. RAN 4-1/2" 11.6# I-80 PRODUCTION CASING TO 9569'. RAN 4 1/2" 11.6# P110 CSG FROM 9569' TO 9868'. CEMENTED PRODUCTION CASING RELEASED H&P RIG 311 ON MAY 12, 2011 @ 19:00 HRS. DETAILS OF CEMENTED PRODUCTION CASING JOB WILL BE INCLUDED WITH THE WELL COMPLETION REPORT. WELL 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 5/13/2011

BLM - Vernal Field Office - Notification Form

Operator KERR MCGEE Rig Name/# H&P 311
Submitted By DOUG BARONE Phone Number 435- 790-1884
Well Name/Number NBU 921-35B4BS
Qtr/Qtr NE/NE Section 35 Township 9S Range 21E
Lease Serial Number ML 22582
API Number 43-047-51342

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

Date/Time _____ AM PM

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

- Surface Casing
- Intermediate Casing
- Production Casing
- Liner
- Other

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MAY 11 2011

DIV. OF OIL, GAS & MINING

Date/Time 5/12/2011 5:00 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 _____

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 921-35B4BS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		9. API NUMBER: 43047513420000
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: 0520 FNL 0464 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENE 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: 8/10/2011	<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 08/10/2011 AT 3:30 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 8/11/2011

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 921-35B4BS

9. API NUMBER:
4304751342

10. FIELD AND POOL, OR WILDCAT
NATURAL BUTTES

11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
NENE 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: **NENE 520 FNL 464 FEL S35, T9S, R21E**
AT TOP PRODUCING INTERVAL REPORTED BELOW: **NWNE 894 FNL 1821 FEL S35, T9S, R21E**
AT TOTAL DEPTH: **NWNE 906 FNL 1828 FEL S35, T9S, R21E**

14. DATE SPUDDED: **3/16/2011** 15. DATE T.D. REACHED: **5/12/2011** 16. DATE COMPLETED: **8/10/2011** ABANDONED READY TO PRODUCE

17. ELEVATIONS (DF, RKB, RT, GL):
4990 GL

18. TOTAL DEPTH: MD **9,867** TVD **9,656** 19. PLUG BACK T.D.: MD **9,824** TVD **9,613** 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)
RCBL-CHI TRIPLE COMBO-RMTE

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#		2,635		975		0	
7 7/8"	4 1/2" I-80	11.6#		9,569		1,560		770	
7 7/8"	4 1/2" P110	11.6#	9,569	9,868					

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"	9,115							

26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)
(A) WASATCH	7,538	7,592		
(B) MESAVERDE	7,659	9,746		
(C)				
(D)				

27. PERFORATION RECORD

INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
7,538 7,592	0.36	9	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
7,659 9,746	0.36	205	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
			Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
			Open <input type="checkbox"/> Squeezed <input type="checkbox"/>

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

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
7538 - 9746	PUMP 9268 BBLs SLICK H2O & 204123 LBS SAND

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

RECEIVED

SEP 13 2011

DIV. OF OIL, GAS & MINING

31. INITIAL PRODUCTION

INTERVAL A (As shown in Item #26)

DATE FIRST PRODUCED: 8/10/2011		TEST DATE: 8/25/2011		HOURS TESTED: 24		TEST PRODUCTION RATES: →	OIL - BBL: 5	GAS - MCF: 2,323	WATER - BBL: 300	PROD. METHOD: FLOWING
CHOKE SIZE: 20/64	TBG. PRESS. 1,820	CSG. PRESS. 2,650	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL - BBL: 5	GAS - MCF: 2,323	WATER - BBL: 300	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	1,504				
BIRD'S NEST	1,780				
MAHOGANY	2,340				
WASATCH	4,881	7,642			
MESAVERDE	7,642	9,867	TD		

35. ADDITIONAL REMARKS (Include plugging procedure)

Attached is the chronological well history, perforation report and final survey.

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 9-8-2011

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 921-35B4BS [BLUE] Spud Conductor: 3/16/2011 Spud Date: 3/26/2011
 Project: UTAH-UINTAH Site: NBU 921-35A PAD Rig Name No: H&P 311/311, CAPSTAR 310/310
 Event: DRILLING Start Date: 3/6/2011 End Date: 5/12/2011
 Active Datum: RKB @5,015.00ft (above Mean Sea Level) UWI: NE/NE/0/9/S/21/E/35/0/0/26/PM/N/520/E/0/464/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
3/26/2011	13:00 - 14:00	1.00	MIRU	01	C	P		SKID RIG & RIG UP
	14:00 - 16:00	2.00	PRPSPD	14	A	P		WELD ON CONDUCTOR & RIG UP FLOW LINE
	16:00 - 17:00	1.00	PRPSPD	06	A	P		PICK UP 11" BIT & MUD MOTOR
	17:00 - 18:30	1.50	DRLSUR	02	B	P		SPUD 11" SURFACE HOLE F/ 40'-229' /// ROP= 126 FPH /// WOB= 14-16K // RPM= 55/96 /// SPP=950/750 /// GPM= 600 /// NO LOSSES
	18:30 - 20:00	1.50	DRLSUR	06	A	P		TOOH // PU DIR TOOLS & ORIENTATE // TIH
	20:00 - 0:00	4.00	DRLSUR	02	D	P		DIR DRLG 11" SURFACE HOLE F/ 229'- 633' // ROP= 101 FPH // WOB= 18-22K // RPM= 55/96 // SPP= 1150/980 // GPM= 600 // NO LOSSES
3/27/2011	0:00 - 10:30	10.50	DRLSUR	02	D	P		DIR DRLG 11" SURFACE HOLE F/ 633'-1621' // ROP= 94 FPH // WOB= 18-22K // RPM= 55/96 // SPP= 1300/1100 // GPM= 600 // NO LOSSES
	10:30 - 16:00	5.50	DRLSUR	08	A	Z		DRAWWORKS ENGINE WENT DN // WAIT ON MECHANIC AND REPAIR
	16:00 - 18:00	2.00	DRLSUR	02	D	P		DIR DRLG 11" SURFACE HOLE F/ 1621'-1835' // ROP= 107 FPH // WOB= 18-22K // RPM= 55/96 // SPP= 1300/1100 // GPM= 600 // NO LOSSES
	18:00 - 0:00	6.00	DRLSUR	02	D	P		DIR DRLG 11" SURFACE HOLE F/ 1835'-2375' // ROP= 90 FPH // WOB= 18-22K // RPM= 55/96 // SPP= 1300/1100 // GPM= 600 // 80% RETURNS
3/28/2011	-		CSG				CONDUCTOR CASING: Cond. Depth set: 40 Cement sx used: 28	
							SPUD DATE/TIME: 3/26/2011 17:00	
							SURFACE HOLE: Surface From depth: 40 Surface To depth: 2,640 Total SURFACE hours: 27.50 Surface Casing size: 8-5/8" # of casing joints ran: 59 Casing set MD: 2,631.0 # sx of cement: 200/225/550 Cement blend (ppg): 11/15.8/15/8 Cement yield (ft3/sk): 3.38/1.15/1.15 # of bbls to surface: 0 Describe cement issues: NO CMT TO SURFACE Describe hole issues: 85% RETURNS @ 2100'	
	0:00 - 3:30	3.50	DRLSUR	02	D	P		DIR DRLG 11" SURFACE HOLE F/ 2375'-2640' // ROP= 90 FPH // WOB= 18-22K // RPM= 55/96 // SPP= 1300/1100 // GPM= 600 // 80% RETURNS // AIR ON @ 2380' @ 600 CFM // LAST SURVEY @ 2580'=17.98 DEG & 258.82 AZ // 1' LEFT & 1' HIGH // 78.8 % ROTATE & 21.2 % SLIDE
	3:30 - 4:00	0.50	DRLSUR	05	A	P		CIRC & COND HOLE F/ 8-5/8" CSG
	4:00 - 6:30	2.50	DRLSUR	06	A	P		LD DRILL STRING & DIR TOOLS
	6:30 - 10:00	3.50	CSG	12	C	P		PJSM /// RUN 59 JT'S, 8-5/8", 28#, J-55, LT&C CSG /// SHOE SET @ 2619' /// BAFFLE @ 2572'
	10:00 - 10:30	0.50	CSG	05	A	P		CIRC 8-5/8" CSG @ 2619'

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-35B4BS [BLUE] Spud Conductor: 3/16/2011 Spud Date: 3/26/2011
 Project: UTAH-UINTAH Site: NBU 921-35A PAD Rig Name No: H&P 311/311, CAPSTAR 310/310
 Event: DRILLING Start Date: 3/6/2011 End Date: 5/12/2011
 Active Datum: RKB @5,015.00ft (above Mean Sea Level) UWI: NE/NE/0/9/S/21/E/35/0/0/26/PM/N/520/E/0/464/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	10:30 - 12:00	1.50	CSG	12	E	P		PJSM W/SUPERIOR /// TEST LINES TO 2500 PSI // 30 BBL SPACER // LEAD= 200 SX CLASS G @ 11.0 WT & 3.83 YIELD // TAIL= 225 SX CLASS G @ 15.8 WT & 1.15 YIELD // DROP PLUG & DISPLACE W/ 151 BBL'S WATER (LOST RETURNS 145 BBL'S INTO DISPLACEMENT) // PLUG DN @ 11:51 3/28/2011 // BUMP PLUG @ 1050 PSI // FINAL LIFT = 400 PSI // CHECK FLOATS- HELD W/ 1 BBL BACK // NO CMT TO SURFACE
	12:00 - 12:30	0.50	CSG	14	A	P		CUT OFF CONDUCTOR & RIG DN FLOW LINE
	12:30 - 13:00	0.50	CSG	12	E	P		RUN 80' OF 1" & PUMP 1st TOP OUT @ 150 SX & 15.8 WT & 1.15 YIELD // NO CMT TO SURFACE
	13:00 - 14:00	1.00	CSG	13	A	P		WAIT ON CMT
	14:00 - 15:00	1.00	CSG	12	E	P		PUMP SECOND TOP OUT W/ 400 SX @ 15.8 WT & 1.15 YIELD // NO CMT TO SURFACE // RELEASE RIG @ 15:00 3/28/2011
5/5/2011	1:00 - 2:00	1.00	MIRU	01	C	P		SKIDDED RIG FROM NBU 921-35B1BS. VERIFIED THAT RIG WAS CENTERED OVER THE WELL.
	2:00 - 5:30	3.50	MIRU	14	A	P		NU BOPE.
	5:30 - 10:00	4.50	MIRU	15	A	P		TEST BOP, PRESSURE TEST PIPE RAMS, BLIND RAMS, IBOP, FLOOR VALVE, KILL LINE, & KILL LINE VALVES, BOP WING VALVES, HCR VALVE, CHOKE LINE INNER & OUTER CHOKE VALVES, & MANIFOLD 250 PSI LOW/ 5 MINUTES, 5K HIGH FOR 10 MINUTES, TEST ANNULAR 250 LOW/5 MINUTES, 2500 HIGH/10 MINUTES, TEST SUPER CHOKE AND FUNCTION TEST CLOSING UNIT.
	10:00 - 10:30	0.50	MIRU	15	A	P		PRESSURE TESTED SURFACE CASING TO 1500 PSI FOR 30 MINUTES.
	10:30 - 11:00	0.50	MIRU	15	A	P		RIGGED DOWN TESTER.
	11:00 - 11:30	0.50	MIRU	12	A	P		INSTALLED WEAR BUSHING.
	11:30 - 12:00	0.50	MIRU	01	B	P		PREPARED RIG TO SPUD. CHECKED TURN BUCKLES, TANKS, FLOWLINE AND MUD LINE.
	12:00 - 14:00	2.00	MIRU	06	A	P		MADE UP HUGHES Q506F, SERIAL #7130348 WITH 6-16S ON TO A SDI .28 REV/GAL, 1.5 DEGREE BEND, 7:8 LOBE, 6.4, 6.75" MUD MOTOR. PICKED UP/MADE UP DIRECTIONAL TOOLS, INSTALLED AND TESTED E-FIELD TOOL, SCRIBED MUD MOTOR.
	14:00 - 16:00	2.00	MIRU	06	A	P		TRIPPED IN THE HOLE TO 2350'.
	16:00 - 17:00	1.00	MIRU	07	B	P		LEVELED DERRICK.
	17:00 - 18:00	1.00	MIRU	09	A	P		CUT AND SLIPPED 80' OF DRILLING LINE.
	18:00 - 18:30	0.50	MIRU	06	A	P		TRIPPED IN THE HOLE AND TAGGED CEMENT AT 2543'.
	18:30 - 19:30	1.00	MIRU	02	F	P		DRILLED CEMENT, BAFFLE PLATE, SHOE TRACK AND SHOE.
	19:30 - 23:30	4.00	MIRU	02	D	P		DRILLED 2656'-3093', 437' IN 4 HRS, 109.3 FPH. MADE 7 SLIDES, 97 TOTAL FEET IN 0.75 HRS. WOB WAS 15-22K, PUMP #1 AT 110 SPM, 495 GPM, MOTOR TURNING AT 139 RPM WITH TOP DRIVE AT 40 RPM FOR A TOTAL OF 179 RPM AT THE BIT. DIFFERENTIAL PRESSURE WAS 350-500 PSI. ON/OFF BOTTOM PUMP PRESSURE WAS 1350/950 PSI. ON/OFF BOTTOM TORQUE WAS 748K. PU/SO/ROT WAS 111/98/86.
	23:30 - 0:00	0.50	MIRU	07	A	P		CIRCULATING THE RESERVE PIT. RIG SERVICE

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 921-35B4BS [BLUE]	Spud Conductor: 3/16/2011	Spud Date: 3/26/2011
Project: UTAH-UINTAH	Site: NBU 921-35A PAD	Rig Name No: H&P 311/311, CAPSTAR 310/310
Event: DRILLING	Start Date: 3/6/2011	End Date: 5/12/2011
Active Datum: RKB @5,015.00ft (above Mean Sea Level)		UWI: NE/NE/0/9/S/21/E/35/0/0/26/PM/N/520/E/0/464/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
5/6/2011	0:00 - 6:00	6.00	DRLPRO	02	D	P		DRILLED 3093'-3646', 553' IN 6 HRS, 92.2 FPH. MADE 5 SLIDES, 77' IN 1 HR, SLIDING ROP IS 77 FPH. WOB WAS 15-18K, PUMP #1 AT 110 SPM, 495 GPM, MOTOR TURNING AT 139 RPM WITH TOP DRIVE AT 40 RPM FOR A TOTAL OF 179 RPM AT THE BIT. DIFFERENTIAL PRESSURE WAS 350-500 PSI. ON/OFF BOTTOM PUMP PRESSURE WAS 1400/1050 PSI. ON/OFF BOTTOM TORQUE WAS 7/8K. PU/SO/ROT WAS 123/91/104. CIRCULATING THE RESERVE PIT.
	6:00 - 17:30	11.50	DRLPRO	02	D	P		DRILLED 3646'-4464', 818' IN 10.5 HRS, 77.9 FPH. MADE 20 SLIDES, TOTAL FOOTAGE WAS 323' IN 4 HRS OR 80.8 FPH. WOB WAS 15-18K, PUMP #1 AT 110 SPM, 495 GPM, MOTOR TURNING AT 139 RPM WITH TOP DRIVE AT 40 RPM FOR A TOTAL OF 179 RPM AT THE BIT. DIFFERENTIAL PRESSURE WAS 350-500 PSI. ON/OFF BOTTOM PUMP PRESSURE WAS 1500/1150 PSI. ON/OFF BOTTOM TORQUE WAS 7/8K. PU/SO/ROT WAS 150/101/120. CIRCULATING THE RESERVE PIT. RIG SERVICE
	17:30 - 18:00	0.50	DRLPRO	07	A	P		
	18:00 - 0:00	6.00	DRLPRO	02	D	P		DRILLED 4464'-4813', 349' IN 6 HRS, 58.2 FPH. MADE 6 SLIDES, 86 TOTAL FEET IN 2.34 HRS OR 36.8 FPH. WOB WAS 15-20K, PUMP #1 AT 110 SPM, 495 GPM, MOTOR TURNING AT 139 RPM WITH TOP DRIVE AT 40 RPM FOR A TOTAL OF 179 RPM AT THE BIT. DIFFERENTIAL PRESSURE WAS 350-500 PSI. ON/OFF BOTTOM PUMP PRESSURE WAS 1500/1100 PSI. ON/OFF BOTTOM TORQUE WAS 10/7K. PU/SO/ROT WAS 161/125/105. CIRCULATING THE RESERVE PIT. TURNED WELL THRU GAS BUSTER AT 4685', 10-20' FLARE. CONTINUE TO RUN THRU BUSTER WITH FLARE.
5/7/2011	0:00 - 6:00	6.00	DRLPRO	02	D	P		DRILLED 4813'-5455', 642' IN 6 HRS, 107 FPH. MADE 2 SLIDES, 35' IN 1 HOUR. WOB WAS 15-20K, PUMP #1 AT 110 SPM, 495 GPM, MOTOR TURNING AT 139 RPM WITH TOP DRIVE AT 40 RPM FOR A TOTAL OF 179 RPM AT THE BIT. DIFFERENTIAL PRESSURE WAS 350-500 PSI. ON/OFF BOTTOM PUMP PRESSURE WAS 1600/1200 PSI. ON/OFF BOTTOM TORQUE WAS 13/9K. PU/SO/ROT WAS 175/110/132. CIRCULATING THE RESERVE PIT. TURNED WELL THRU GAS BUSTER AT 4685', 10-20' FLARE. CONTINUED TO RUN THRU BUSTER WITH 10-15' FLARE.
	6:00 - 17:30	11.50	DRLPRO	02	D	P		DRILLED 5455'-6229', 774' IN 11.5 HRS, 67.3 FPH. MADE 6 SLIDES, TOTAL FOOTAGE WAS 107' IN 2.5 HRS OR 42.8 FPH. WOB WAS 15-20K, PUMP #1 AT 110 SPM, 495 GPM, MOTOR TURNING AT 139 RPM WITH TOP DRIVE AT 40 RPM FOR A TOTAL OF 179 RPM AT THE BIT. DIFFERENTIAL PRESSURE WAS 350-500 PSI. ON/OFF BOTTOM PUMP PRESSURE WAS 1650/1250 PSI. ON/OFF BOTTOM TORQUE WAS 14/10K. PU/SO/ROT WAS 215/118/147. CIRCULATING THE RESERVE PIT. TURNED WELL THRU GAS BUSTER AT 4685', 10-20' FLARE. CONTINUED TO RUN THRU BUSTER WITH 10-15' FLARE.
	17:30 - 18:00	0.50	DRLPRO	07	A	P		RIG SERVICE

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 921-35B4BS [BLUE] Spud Conductor: 3/16/2011 Spud Date: 3/26/2011
 Project: UTAH-UINTAH Site: NBU 921-35A PAD Rig Name No: H&P 311/311, CAPSTAR 310/310
 Event: DRILLING Start Date: 3/6/2011 End Date: 5/12/2011
 Active Datum: RKB @5,015.00ft (above Mean Sea Level) UWI: NE/NE/0/9/S/21/E/35/0/0/26/PM/N/520/E/0/464/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	18:00 - 0:00	6.00	DRLPRO					DRILLED 6229'-6682', 453' IN 6 HRS, 75.5 FPH. MADE 1 SLIDE, 20' IN 0.75 HRS. WOB WAS 15-20K, PUMP #1 AT 110 SPM, 495 GPM, MOTOR TURNING AT 139 RPM WITH TOP DRIVE AT 40 RPM FOR A TOTAL OF 179 RPM AT THE BIT. DIFFERENTIAL PRESSURE WAS 350-500 PSI. ON/OFF BOTTOM PUMP PRESSURE WAS 1700/1290 PSI. ON/OFF BOTTOM TORQUE WAS 1311K. PU/SO/ROT WAS 220/154/120. CIRCULATING THE RESERVE PIT. TURNED WELL THRU GAS BUSTER AT 4685', 10-20' FLARE. CONTINUED TO RUN THRU BUSTER WITH 10-15' FLARE, FLARE QUIT AT 6550'.
5/8/2011	0:00 - 6:00	6.00	DRLPRO	02	D	P		DRILLED 6682'-7085', 403' IN 6 HRS, 67.2 FPH. MADE NO SLIDES, 100% ROTATING. WOB WAS 15-21K, PUMP #1 AT 110 SPM, 495 GPM, MOTOR TURNING AT 139 RPM WITH TOP DRIVE AT 40 RPM FOR A TOTAL OF 179 RPM AT THE BIT. DIFFERENTIAL PRESSURE WAS 350-500 PSI. ON/OFF BOTTOM PUMP PRESSURE WAS 1700/1290 PSI. ON/OFF BOTTOM TORQUE WAS 13/11K. PU/SO/ROT WAS 230/125/158. 9.2 PPG, 34 VIS, 0 LCM.
	6:00 - 14:30	8.50	DRLPRO	02	D	P		DRILLED 7085'-7590', 505' IN 8.5 HRS, 59.4 FPH. MADE NO SLIDES, 100% ROTATING. WOB WAS 15-21K, PUMP #1 AT 110 SPM, 495 GPM, MOTOR TURNING AT 139 RPM WITH TOP DRIVE AT 40 RPM FOR A TOTAL OF 179 RPM AT THE BIT. DIFFERENTIAL PRESSURE WAS 350-500 PSI. ON/OFF BOTTOM PUMP PRESSURE WAS 1950/1610 PSI. ON/OFF BOTTOM TORQUE WAS 14/14K. PU/SO/ROT WAS 240/125/164. 9.6 PPG, 34 VIS, 0 LCM.
	14:30 - 15:00	0.50	DRLPRO	07	A	P		RIG SERVICE
	15:00 - 0:00	9.00	DRLPRO	02	D	P		DRILLED 7590'-7889', 299' IN 9 HRS, 33.2 FPH. MADE 2 SLIDES, 36' IN 2.5 HRS, 14.4 FPH FOR BOTH SLIDES. WE TOPPED THE MESA VERDE AT 7581' SO SLOWED DOWN THE PUMPS TO 405 GPM, THIS IS THE MINIMUM THAT WE CAN RUN THRU THIS MOTOR. WOB WAS 18-23K, PUMP #1 AT 90 SPM, 405 GPM, MOTOR TURNING AT 113 RPM WITH TOP DRIVE AT 30 RPM FOR A TOTAL OF 143 RPM AT THE BIT. DIFFERENTIAL PRESSURE WAS 350-500 PSI. ON/OFF BOTTOM PUMP PRESSURE WAS 1800/1400 PSI. ON/OFF BOTTOM TORQUE WAS 14/17K. PU/SO/ROT WAS 270/125/171. 10.1 PPG, 36 VIS, 0 LCM.
5/9/2011	0:00 - 6:00	6.00	DRLPRO	02	D	P		DRILLED 7889'-8143', 254' IN 6 HRS, 42.3 FPH. MADE 0 SLIDES, 100% ROTATING. WOB WAS 18-23K, PUMP #1 AT 90 SPM, 405 GPM, MOTOR TURNING AT 113 RPM WITH TOP DRIVE AT 30 RPM FOR A TOTAL OF 143 RPM AT THE BIT. DIFFERENTIAL PRESSURE WAS 350-500 PSI. ON/OFF BOTTOM PUMP PRESSURE WAS 1800/1400 PSI. ON/OFF BOTTOM TORQUE WAS 14/17K. PU/SO/ROT WAS 270/130/174. 10.1 PPG, 36 VIS, 0 LCM.

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-35B4BS [BLUE] Spud Conductor: 3/16/2011 Spud Date: 3/26/2011
 Project: UTAH-UINTAH Site: NBU 921-35A PAD Rig Name No: H&P 311/311, CAPSTAR 310/310
 Event: DRILLING Start Date: 3/6/2011 End Date: 5/12/2011
 Active Datum: RKB @5,015.00ft (above Mean Sea Level) UWI: NE/NE/0/9/S/21/E/35/0/0/26/PM/N/520/E/0/464/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	6:00 - 17:30	11.50	DRLPRO	02	D	P		DRILLED 8143'-8584', 441' IN 11.5 HRS, 38.3 FPH. MADE 1 SLIDE, 15' IN 1 HR. WOB WAS 18-23K, PUMP #1 AT 90 SPM, 405 GPM, MOTOR TURNING AT 113 RPM WITH TOP DRIVE AT 30 RPM FOR A TOTAL OF 143 RPM AT THE BIT. DIFFERENTIAL PRESSURE WAS 350-500 PSI. ON/OFF BOTTOM PUMP PRESSURE WAS 2000/1720 PSI. ON/OFF BOTTOM TORQUE WAS 14/17K. PU/SO/ROT WAS 262/134/178. 11.2 PPG, 36 VIS, 0 LCM.
	17:30 - 18:00	0.50	DRLPRO	07	A	P		RIG SERVICE
	18:00 - 0:00	6.00	DRLPRO	02	D	P		DRILLED 8584'-8704', 120' IN 6 HRS, 20 FPH. MADE 2 SLIDES, TOTAL FOOTAGE SLIDE WAS 58' IN 4.33 HRS OR 13.3 FPH. WOB WAS 20-23K, PUMP #1 AT 90 SPM, 405 GPM, MOTOR TURNING AT 113 RPM WITH TOP DRIVE AT 30 RPM FOR A TOTAL OF 143 RPM AT THE BIT. DIFFERENTIAL PRESSURE WAS 350-500 PSI. ON/OFF BOTTOM PUMP PRESSURE WAS 1950/1650 PSI. ON/OFF BOTTOM TORQUE WAS 15/16K. PU/SO/ROT WAS 254/133/178. 11.3 PPG, 36 VIS, 0 LCM.
5/10/2011	0:00 - 6:00	6.00	DRLPRO	02	D	P		DRILLED 8704'-8961', 257' IN 6 HRS, 42.8 FPH. NO SLIDES, 100% ROTATING. WOB WAS 20-23K, PUMP #1 AT 90 SPM, 405 GPM, MOTOR TURNING AT 113 RPM WITH TOP DRIVE AT 30 RPM FOR A TOTAL OF 143 RPM AT THE BIT. DIFFERENTIAL PRESSURE WAS 350-500 PSI. ON/OFF BOTTOM PUMP PRESSURE WAS 2150/1720 PSI. ON/OFF BOTTOM TORQUE WAS 15/16K. PU/SO/ROT WAS 262/135/180. 11.5 PPG, 36 VIS, 0 LCM.
	6:00 - 17:30	11.50	DRLPRO	02	D	P		DRILLED 8961'-9339', 378' IN 11.5 HRS, 32.9 FPH. NO SLIDES, 100% ROTATING. WOB WAS 20-25K, PUMP #1 AT 95 SPM, 428 GPM, MOTOR TURNING AT 113 RPM WITH TOP DRIVE AT 30 RPM FOR A TOTAL OF 120 RPM AT THE BIT. DIFFERENTIAL PRESSURE WAS 300-400 PSI. ON/OFF BOTTOM PUMP PRESSURE WAS 2300/2050 PSI. ON/OFF BOTTOM TORQUE WAS 15/17K. PU/SO/ROT WAS 279/134/186. 11.8 PPG, 36 VIS, 0 LCM. TRIED ALL COMBINATIONS OF PUMPS STROKES AND ROTARY, BASICALLY KEPT 25K ON THE BIT AND WORKED WITH THE PUMP. IF IT WAS NOT DRILLING GOOD THEN WE WOULD RAISE OR LOWER THE STROKES AND SPEED UP/DECREASE THE ROTARY.
	17:30 - 18:00	0.50	DRLPRO	07	A	P		RIG SERVICE.
	18:00 - 0:00	6.00	DRLPRO	02	D	P		DRILLED 9339'-9586', 247' IN 6 HRS, 41.2 FPH. NO SLIDES, 100% ROTATING. WOB WAS 20-25K, PUMP #1 AT 105 SPM, 473 GPM, MOTOR TURNING AT 132 RPM WITH TOP DRIVE AT 30-50 RPM FOR A TOTAL OF 162-182 RPM AT THE BIT. DIFFERENTIAL PRESSURE WAS 250-350 PSI. ON/OFF BOTTOM PUMP PRESSURE WAS 2900/2450 PSI. ON/OFF BOTTOM TORQUE WAS 16/18K. PU/SO/ROT WAS 262/135/188. 12.2 PPG, 40 VIS, 0 LCM. JUST LEFT THE PUMP AT 105 SPM AND PLAYED WITH THE ROTARY VARYING IT BETWEEN 30 AND 50 RPM. EVERY ONCE IN A WHILE HAVE TO PUT 26K ON THE BIT TO GET IT TO BITE. VERY SMOOTH DRILLING.

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 921-35B4BS [BLUE]	Spud Conductor: 3/16/2011	Spud Date: 3/26/2011
Project: UTAH-UINTAH	Site: NBU 921-35A PAD	Rig Name No: H&P 311/311, CAPSTAR 310/310
Event: DRILLING	Start Date: 3/6/2011	End Date: 5/12/2011
Active Datum: RKB @5,015.00ft (above Mean Sea Level)		UWI: NE/NE/0/9/S/21/E/35/0/0/26/PM/N/520/E/0/464/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
5/11/2011	0:00 - 8:30	8.50	DRLPRO	02	D	P		DRILLED 9586'-9867', 281' IN 9 HRS, 33.1 FPH. NO SLIDES, 100% ROTATING. WOB WAS 20-25K, PUMP #1 AT 105 SPM, 473 GPM, MOTOR TURNING AT 132 RPM WITH TOP DRIVE AT 30-50 RPM FOR A TOTAL OF 162-182 RPM AT THE BIT. DIFFERENTIAL PRESSURE WAS 250-350 PSI. ON/OFF BOTTOM PUMP PRESSURE WAS 2900/2520 PSI. ON/OFF BOTTOM TORQUE WAS 15/19K. PU/SO/ROT WAS 290/140/188. 12.3 PPG, 40 VIS, 0 LCM. JUST LEFT THE PUMP AT 105 SPM AND PLAYED WITH THE ROTARY VARYING IT BETWEEN 30 AND 50 RPM. EVERY ONCE IN A WHILE HAVE TO PUT 26K ON THE BIT TO GET IT TO BITE. VERY SMOOTH DRILLING.
	8:30 - 10:30	2.00	DRLPRO	05	C	P		PUMP SWEEPS, CIRCULATE 2 BOTTOMS UP
	10:30 - 19:00	8.50	DRLPRO	06	E	P		WIPER TRIP TO SHOE,
	19:00 - 20:30	1.50	DRLPRO	05	F	P		PUMP SWEEP, CIRCULATE HOLE CLEAN
	20:30 - 0:00	3.50	DRLPRO	06	A	P		TRIP OUT W/ DP & BHA FOR CASING
5/12/2011	0:00 - 2:30	2.50	DRLPRO	06	A	P		TRIP OUT FOR CASING
	2:30 - 3:00	0.50	DRLPRO	07	A	P		LUBRICATE RIG
	3:00 - 4:30	1.50	DRLPRO	12	A	P		HOLD JSA, RU CASERS
	4:30 - 12:30	8.00	DRLPRO	12	C	P		RUN 7 JTS P-110, 226 JTS I-80, 11.6#, 4 1/2 CASING, LANDED SHOE AT 9855, FLOAT COLLAR AT 9811, MV MARKER AT 7495, WASATCH MARKER AT 4789
	12:30 - 14:00	1.50	DRLPRO	05	D	P		CIRCULATE OUT TRIP GAS, 20' FLARE AT BOTTOMS UP. RD CASERS
	14:00 - 16:00	2.00	DRLPRO	12	E	P		SAFETY MEETING, REVIEW JSA, TEST PUMPS & LINES TO 5K, PUMP 40 BBL SPACER, 510 SX, 12.3# LEAD PREMIUM LITE II + .05 LBS/SK STATIC FREE+ .5 BWOC R-3 + .025 LBS/SK CELLO FLAKE + 5 LBS/SK KOL SEAL + 8% BWOC BENTONITE + .2% BWOC SODIUM METASILICATE + 109 % FRESH WATER, 2.12 YIELD, 1050 SX, 14.3# TAIL CMT, 50/50 POZ (FLY ASH) CLASS G CMT + .05 LBS/SK STATIC FREE + 10% BWOW SODIUM CHLORIDE + .2% BWOC R-3 + .002 GPS FP-6L + 2% BWOC BENTONITE _ 58% FRESH WATER, 1.31 YIELD, DISPLACE W/ 152.5 BBLS H2O, BUMPED PLUG, FLOATS HELD, RETURNED 0 BBLS CMT & 25 BBLS SPACER TO SURFACE, EST CMT TOP AT 400', LIFT PSI-2680, BUMP PSI-3310, PLUG DOWN AT 16:00
	16:00 - 16:30	0.50	DRLPRO	12	B	P		RD CEMENTERS
	16:30 - 18:00	1.50	DRLPRO	01	E	P		ND BOP, SET C-22 SLIPS IN 100K, CUT OFF CASING
	18:00 - 19:00	1.00	DRLPRO	01	E	P		CLEAN PITS, RELEASE RIG AT 19:00

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-35B4BS [BLUE]	Spud Conductor: 3/16/2011	Spud Date: 3/26/2011
Project: UTAH-UINTAH	Site: NBU 921-35A PAD	Rig Name No: H&P 311/311, CAPSTAR 310/310
Event: DRILLING	Start Date: 3/6/2011	End Date: 5/12/2011
Active Datum: RKB @5,015.00ft (above Mean Sea Level)		UWI: NE/NE/0/9/S/21/E/35/0/0/26/PM/N/520/E/0/464/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
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19:00 - 19:00 0.00 DRLPRO

SPUD DATE/TIME: 3/26/2011 17:00

SURFACE HOLE: 11"
 Surface From depth: 40
 Surface To depth: 2,640
 Total SURFACE hours: 27.50
 Surface Casing size: 8 5/8"
 # of casing joints ran: 59
 Casing set MD: 2,631.0
 # sx of cement: 200/225/550
 Cement blend (ppg): 11.0/15.8/15.8
 Cement yield (ft3/sk): 3.38/1.15/1.15
 # of bbls to surface: 0
 Describe cement issues: NO CEMENT TO SURFACE
 Describe hole issues: 85% RETURNS @2100'

PRODUCTION:
 Rig Move/Skid start date/time: 5/5/2011 1:00
 Rig Move/Skid finish date/time: 5/5/2011 2:00
 Total MOVE hours: 1.0
 Prod Rig Spud date/time: 5/5/2011 18:30
 Rig Release date/time: 5/12/2011 19:00
 Total SPUD to RR hours: 168.5
 Planned depth MD 9,878
 Planned depth TVD 9,650
 Actual MD: 9,867
 Actual TVD: 9,655
 Open Wells \$:
 AFE \$:
 Open wells \$/ft:

PRODUCTION HOLE: 7.875"
 Prod. From depth: 2,640
 Prod. To depth: 9,867
 Total PROD hours: 129
 Log Depth: N/A
 Float Collar Top Depth: 9811
 Production Casing size: 4 1/2
 # of casing joints ran: 7- P-110, 226-I-80
 Casing set MD: 9,855.0
 # sx of cement: 510 LEAD, 1050 TAIL
 Cement blend (ppg): 12.3 LEAD, 14.3 TAIL
 Cement yield (ft3/sk): 2.12 LEAD, 1.31 TAIL
 Est. TOC (Lead & Tail) or 2 Stage : 400 LEAD, 4505 TAIL
 Describe cement issues: NONE
 Describe hole issues: NONE

DIRECTIONAL INFO:
 KOP: 199'
 Max angle: 20.25
 Departure: 1417.00
 Max dogleg MD: 3.21

1 General

1.1 Customer Information

Company	US ROCKIES REGION
Representative	
Address	

1.2 Well Information

Well	NBU 921-35B4BS [BLUE]		
Common Name	NBU 921-35B4BS		
Well Name	NBU 921-35B4BS	Wellbore No.	OH
Report No.	1	Report Date	6/22/2011
Project	UTAH-UINTAH	Site	NBU 921-35A PAD
Rig Name/No.		Event	COMPLETION
Start Date	6/22/2011	End Date	8/10/2011
Spud Date	3/26/2011	Active Datum	RKB @5,015.00ft (above Mean Sea Level)
UWI	NE/NE/O/S/21/E/35/O/O/26/PM/N/520/E/O/464/O/O		

1.3 General

Contractor		Job Method	PERFORATE	Supervisor	
Perforated Assembly	PRODUCTION CASING	Conveyed Method	WIRELINE		

1.4 Initial Conditions

Fluid Type		Fluid Density		Gross Interval	7,538.0 (ft)-9,746.0 (ft)	Start Date/Time	8/1/2011 12:00AM
Surface Press		Estimate Res Press		No. of Intervals	40	End Date/Time	8/1/2011 12:00AM
TVD Fluid Top		Fluid Head		Total Shots	214	Net Perforation Interval	64.00 (ft)
Hydrostatic Press		Press Difference		Avg Shot Density	3.34 (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/			7,538.0	7,539.0	3.00		0.360	EXP/	3.375	120.00		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/			7,590.0	7,592.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AM	MESAVERDE/			7,659.0	7,660.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00AM	MESAVERDE/			7,677.0	7,678.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AM	MESAVERDE/			7,715.0	7,717.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00AM	MESAVERDE/			7,758.0	7,761.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AM	MESAVERDE/			7,821.0	7,822.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00AM	MESAVERDE/			7,867.0	7,870.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AM	MESAVERDE/			7,938.0	7,939.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00AM	MESAVERDE/			7,946.0	7,947.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00AM	MESAVERDE/			8,008.0	8,010.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00AM	MESAVERDE/			8,039.0	8,041.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00AM	MESAVERDE/			8,132.0	8,134.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AM	MESAVERDE/			8,164.0	8,166.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AM	MESAVERDE/			8,210.0	8,211.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AM	MESAVERDE/			8,230.0	8,231.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AM	MESAVERDE/			8,306.0	8,308.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AM	MESAVERDE/			8,370.0	8,372.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AM	MESAVERDE/			8,469.0	8,470.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00AM	MESAVERDE/			8,484.0	8,485.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00AM	MESAVERDE/			8,533.0	8,534.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00AM	MESAVERDE/			8,557.0	8,559.0	3.00		0.360	EXP/	3.375	120.00		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
12:00	AMMESAVERDE/			8,599.0	8,600.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00	AMMESAVERDE/			8,618.0	8,620.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00	AMMESAVERDE/			8,660.0	8,662.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00	AMMESAVERDE/			8,779.0	8,780.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00	AMMESAVERDE/			8,802.0	8,803.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00	AMMESAVERDE/			8,931.0	8,933.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00	AMMESAVERDE/			8,978.0	8,980.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00	AMMESAVERDE/			9,008.0	9,010.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00	AMMESAVERDE/			9,089.0	9,091.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00	AMMESAVERDE/			9,139.0	9,140.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00	AMMESAVERDE/			9,188.0	9,189.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00	AMMESAVERDE/			9,208.0	9,209.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00	AMMESAVERDE/			9,243.0	9,244.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00	AMMESAVERDE/			9,314.0	9,316.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00	AMMESAVERDE/			9,584.0	9,586.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00	AMMESAVERDE/			9,638.0	9,640.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00	AMMESAVERDE/			9,662.0	9,664.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00	AMMESAVERDE/			9,744.0	9,746.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	

3 Plots

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 921-35B4BS [BLUE]	Spud Conductor: 3/16/2011	Spud Date: 3/26/2011
Project: UTAH-UINTAH	Site: NBU 921-35A PAD	Rig Name No:
Event: COMPLETION	Start Date: 6/22/2011	End Date: 8/10/2011
Active Datum: RKB @5,015.00ft (above Mean Sea Level)	UWI: NE/NE/0/9/S/21/E/35/0/0/26/PM/N/520/E/0/464/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
6/22/2011	10:30 - 13:30	3.00	COMP	47	A	P		RD WH, NU BOP, PU 3 7/8 BIT & 2 3/8 TBG, RIH, TAGED FILL @ 274'
	13:30 - 14:30	1.00	COMP	49	B	P		RU SWIVEL WAIT ON PARTS FOR SWIVEL.
	14:30 - 17:00	2.50	COMP	31	H	P		BRAKE CIRCULATION WENT THROUGH BRIDGE,RIH,SWI,SDFN.
6/23/2011	7:00 - 7:30	0.50	COMP	48		P		HSM/ PICKING UP PIPE
	7:30 - 10:30	3.00	COMP	31	I	P		FINISH RIH, TAG FILL @ 9748 ', RU SWIVEL, C/O TO 9823 ',
	10:30 - 17:00	6.50	COMP	31	I	P		POOH, LD 2 3/8 TBG ON FLOAT, RD,SDFN.
7/29/2011	7:00 - 13:00	6.00	COMP	47	B	P		HSM, PRESSURE TESTING, MIRU B&C TESTERS, P/T CSG & FRAC VALVES, PRESSURE TO 1000# W/ 7# LOSS IN 15 MIN, BUMP UP TO 3500# W/ 28# LOSS IN 15 MIN. BUMP UP TO 7000# W/ 49# LOSS IN 30 MIN. [GOOD TEST] MIRU CUTTERS WIRE LINE 1ST SHOOT MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE AS PERSAY IN PROCEDURE.
8/1/2011	7:00 - 7:15	0.25	COMP	48		P		HSM,

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 921-35B4BS [BLUE]		Spud Conductor: 3/16/2011	Spud Date: 3/26/2011
Project: UTAH-UINTAH		Site: NBU 921-35A PAD	Rig Name No:
Event: COMPLETION		Start Date: 6/22/2011	End Date: 8/10/2011
Active Datum: RKB @5,015.00ft (above Mean Sea Level)		UWI: NE/NE/0/9/S/21/E/35/0/0/26/PM/N/520/E/0/464/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	7:15 -		COMP	36	E	P		<p>PERF & FRAC FOLLOWING WELL AS PER DESIGN W/ 30/50 MESH SAND & SLK WTR. ALL CBP'S ARE HALIBURTON 8K CBP'S. REFER TO STIM PJR FOR FLUID, SAND AND CHEMICAL VOLUME PUM'D</p> <p>FRAC STG #1] WHP=1,598#, BRK DN PERFS=3,281#, @=6.6 BPM, INJ RT=50.5, INJ PSI=5,805#, INITIAL ISIP=2,873#, INITIAL FG=.74, FINAL ISIP=2,974#, FINAL FG=.75, AVERAGE RATE=50.5, AVERAGE PRESSURE=5,622#, MAX RATE=50.9, MAX PRESSURE=6,230#, NET PRESSURE INCREASE=101#, 24/24 100% CALC PERFS OPEN. X OVER TO WIRE LINE</p> <p>PERF STG #2] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @=9,346', PERF MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW</p> <p>FRAC STG #2] WHP=1,150#, BRK DN PERFS=3,185#, @=4.7 BPM, INJ RT=50.9, INJ PSI=5,610#, INITIAL ISIP=2,425#, INITIAL FG=.70, FINAL ISIP=3,028#, FINAL FG=.77, AVERAGE RATE=50.8, AVERAGE PRESSURE=5,313#, MAX RATE=51.2, MAX PRESSURE=5,949#, NET PRESSURE INCREASE=603#, 22/24 92% CALC PERFS OPEN. X OVER TO WIRE LINE</p> <p>PERF STG #3] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @=9,121', PERF MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW</p> <p>FRAC STG #3] WHP=1,827#, BRK DN PERFS=2,936#, @=4.8 BPM, INJ RT=50.7, INJ PSI=5,625#, INITIAL ISIP=70#, INITIAL FG=.70, FINAL ISIP=2,966#, FINAL FG=.77, AVERAGE RATE=50.7, AVERAGE PRESSURE=5,572#, MAX RATE=51.1, MAX PRESSURE=6,116#, NET PRESSURE INCREASE=619#, 21/24 88% CALC PERFS OPEN. X OVER TO WIRE LINE SWIFN.</p>
8/2/2011	6:45 - 7:00	0.25	COMP	48		P		HSM, PEFF & FRAC

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 921-35B4BS [BLUE]		Spud Conductor: 3/16/2011	Spud Date: 3/26/2011
Project: UTAH-UINTAH		Site: NBU 921-35A PAD	Rig Name No:
Event: COMPLETION		Start Date: 6/22/2011	End Date: 8/10/2011
Active Datum: RKB @5,015.00ft (above Mean Sea Level)		UWI: NE/NE/0/9/S/21/E/35/0/0/26/PM/N/520/E/0/464/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	7:00 - 7:00	0.00	COMP	36	E	P		<p>PERF STG #4] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @=8,833', PERF MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW</p> <p>FRAC STG #4] WHP=677#, BRK DN PERFS=3,962#, @=4.7 BPM, INJ RT=51.3, INJ PSI=5,036#, INITIAL ISIP=2,516#, INITIAL FG=.73, FINAL ISIP=2,857#, FINAL FG=.77, AVERAGE RATE=50.4, AVERAGE PRESSURE=5,616#, MAX RATE=51.6, MAX PRESSURE=6,401#, NET PRESSURE INCREASE=341#, 24/24 100% CALC PERFS OPEN. X OVER TO WIRE LINE</p> <p>PERF STG #5] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @=8,589', PERF MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW</p> <p>FRAC STG #5] WHP=2,311#, BRK DN PERFS=3,048#, @=4.7 BPM, INJ RT=42.4, INJ PSI=5,795#, INITIAL ISIP=2,597#, INITIAL FG=.75, FINAL ISIP=2,838#, FINAL FG=.77, AVERAGE RATE=48.7, AVERAGE PRESSURE=5,860#, MAX RATE=50.9, MAX PRESSURE=6,397#, NET PRESSURE INCREASE=241#, 16/24 70% CALC PERFS OPEN. X OVER TO WIRE LINE</p> <p>PERF STG #6] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @=8,338', PERF MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW</p> <p>FRAC STG #6] WHP=1,641#, BRK DN PERFS=2,334#, @=4.4 BPM, INJ RT=50.6, INJ PSI=5,701#, INITIAL ISIP=1,850#, INITIAL FG=.66, FINAL ISIP=2,534#, FINAL FG=.75, AVERAGE RATE=50.5, AVERAGE PRESSURE=5,463#, MAX RATE=51.1, MAX PRESSURE=6,210#, NET PRESSURE INCREASE=684#, 18/24 74% CALC PERFS OPEN. X OVER TO WIRE LINE</p> <p>PERF STG #7] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @=8,071', PERF MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW</p> <p>SWIFN. HSM,</p>
8/3/2011	7:00 - 7:15	0.25	COMP	48		P		

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 921-35B4BS [BLUE]		Spud Conductor: 3/16/2011	Spud Date: 3/26/2011
Project: UTAH-UINTAH		Site: NBU 921-35A PAD	Rig Name No:
Event: COMPLETION		Start Date: 6/22/2011	End Date: 8/10/2011
Active Datum: RKB @5,015.00ft (above Mean Sea Level)		UWI: NE/NE/0/9/S/21/E/35/0/0/26/PM/N/520/E/0/464/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	7:15 - 7:15	0.00	COMP	36	E	P		<p>FRAC STG #7] WHP=2,190#, BRK DN PERFS=2,343#, @=4.7 BPM, INJ RT=48.6, INJ PSI=5,739#, INITIAL ISIP=2,006#, INITIAL FG=69, FINAL ISIP=2,664#, FINAL FG=.77, AVERAGE RATE=49, AVERAGE PRESSURE=4,535#, MAX RATE=49.5, MAX PRESSURE=5,741#, NET PRESSURE INCREASE=658#, 17/24 71% CALC PERFS OPEN. X OVER TO WIRE LINE</p> <p>PERF STG #8] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @=7,900', PERF MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW</p> <p>FRAC STG #8] WHP=1,858#, BRK DN PERFS=2,574#, @=6.8 BPM, INJ RT=47, INJ PSI=4,875#, INITIAL ISIP=2,131#, INITIAL FG=.71, FINAL ISIP=2,383#, FINAL FG=.74, AVERAGE RATE=47.2, AVERAGE PRESSURE=4,067#, MAX RATE=49.2, MAX PRESSURE=5,004#, NET PRESSURE INCREASE=252#, 21/22 95% CALC PERFS OPEN. X OVER TO WIRE LINE</p> <p>PERF STG #9] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @=7,747', PERF MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW</p> <p>FRAC STG #9] WHP=1,834#, BRK DN PERFS=2,197#, @=4.8 BPM, INJ RT=44.7, INJ PSI=4,519#, INITIAL ISIP=1,992#, INITIAL FG=.70, FINAL ISIP=2,597#, FINAL FG=.78, AVERAGE RATE=46.1, AVERAGE PRESSURE=4,065#, MAX RATE=48.5, MAX PRESSURE=5,368#, NET PRESSURE INCREASE=605#, 21/24 86% CALC PERFS OPEN. X OVER TO WIRE LINE</p> <p>P/U RIH W/ HALIBURTON 8K CBP SET FOR TOP KILL @=7,488. RDMO.</p> <p>TOTAL FLUID PUMP'D=9,268 BBLS TOTAL SAND PUMP'D=204,123# HSM & JSA W/ROYAL WELL SERVICE.</p>
8/9/2011	12:00 - 12:15	0.25	COMP	48		P		MIRU - SPOT EQUIP. WHP = 0 PSI. NDWH, NU BOP. PREP & TALLY TBG. PU 3 7/8 BIT, POBS & XN NIPPLE. RIH ON 181 JTS TBG. EOT @ 5696'. SWI - SDFN. PREP TO CONT. TO PU TBG & RIH TO D/O CBPs.
	12:15 - 18:00	5.75	COMP	30	A	P		HSM & JSA W/ROYAL WELL SERVICE.
8/10/2011	6:00 - 6:15	0.25	COMP	48		P		HSM & JSA W/ROYAL WELL SERVICE.

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 921-35B4BS [BLUE]		Spud Conductor: 3/16/2011	Spud Date: 3/26/2011
Project: UTAH-UINTAH		Site: NBU 921-35A PAD	Rig Name No:
Event: COMPLETION		Start Date: 6/22/2011	End Date: 8/10/2011
Active Datum: RKB @5,015.00ft (above Mean Sea Level)		UWI: NE/NE/0/9/S/21/E/35/0/0/26/PM/N/520/E/0/464/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation																																																												
	6:15 - 15:00	8.75	COMP	44	D	P		<p>WHP = 0 PSI. REPLACE PIPE RAMS IN BOPs. RIH TAG FILL @ 7460'. RD TBG EQUIP. RU PWR SWVL & PMP. EST CIRC. PT RAMS TO 3000 PSI & HOLD 15 MIN. (25 PSI LOSS) C/O FILL & D/O CBPs</p> <table border="1"> <tr> <td>HALCO CBP @</td> <td>C/O FILL</td> <td>D/O CBP</td> </tr> <tr> <td>DIFF PSI</td> <td>FCP</td> <td></td> </tr> <tr> <td>CBP #1 @ 7488'</td> <td>28 FT</td> <td>15 MIN</td> </tr> <tr> <td>400 PSI</td> <td>30 PSI</td> <td></td> </tr> <tr> <td>CBP #2 @ 7747'</td> <td>19 FT</td> <td>09 MIN</td> </tr> <tr> <td>0 PSI</td> <td>80 PSI</td> <td></td> </tr> <tr> <td>CBP #3 @ 7905'</td> <td>28 FT</td> <td>11 MIN</td> </tr> <tr> <td>200 PSI</td> <td>125 PSI</td> <td></td> </tr> <tr> <td>CBP #4 @ 8086'</td> <td>33 FT</td> <td>14 MIN</td> </tr> <tr> <td>200 PSI</td> <td>120 PSI</td> <td></td> </tr> <tr> <td>CBP #5 @ 8338'</td> <td>55 FT</td> <td>13 MIN</td> </tr> <tr> <td>400 PSI</td> <td>400 PSI</td> <td></td> </tr> <tr> <td>CBP #6 @ 8594'</td> <td>16 FT</td> <td>20 MIN</td> </tr> <tr> <td>200 PSI</td> <td>350 PSI</td> <td></td> </tr> <tr> <td>CBP #7 @ 8858'</td> <td>17 FT</td> <td>09 MIN</td> </tr> <tr> <td>700 PSI</td> <td>500 PSI</td> <td></td> </tr> <tr> <td>CBP #8 @ 9121'</td> <td>47 FT</td> <td>09 MIN</td> </tr> <tr> <td>400 PSI</td> <td>625 PSI</td> <td></td> </tr> <tr> <td>CBP #9 @ 9371'</td> <td>14 FT</td> <td>14 MIN</td> </tr> <tr> <td>1000 PSI</td> <td>620 PSI</td> <td></td> </tr> </table> <p>RIH & TAG FILL @ 9793'. C/O SND TO 9825'. (PBSD @ 9810') (32' OF FILL). FCP = 1100 PSI. PMP 20 BBLs TMAC & CIRC WELL CLEAN. ND PWR SWVL, NU TBG EQUIP. LD 23 JTS ON FLOAT, (27 TOTAL ON FLOAT). LND TBG ON HNGR W/288 JTS NEW 2 3/8" 4.7# L80 TBG @ 9115.37'. RD FLOOR & TBG EQUIP. ND BOP, DROP BALL, NUWH. PMP OFF BIT W/30 BBLs TMAC @ 2800 PSI. WAIT 30 MIN FOR BIT TO FALL TO BTM. TURN WELL TO F.B.C.</p> <p>KB 25' HANGER 0.83' XN NIPPLE 1.1' TBG 288 JTS = 9086.89' XN NIPPLE @ 9085.58' EOT @ 9115.37' (315 JTS DLVRD - 27 JTS RTND)</p> <p>TWTR = 9548 BBLs TWR = 1396 BBLs TWLTR = 8152 SICP = 0000 PSI, SITP = 0 PSI.</p>	HALCO CBP @	C/O FILL	D/O CBP	DIFF PSI	FCP		CBP #1 @ 7488'	28 FT	15 MIN	400 PSI	30 PSI		CBP #2 @ 7747'	19 FT	09 MIN	0 PSI	80 PSI		CBP #3 @ 7905'	28 FT	11 MIN	200 PSI	125 PSI		CBP #4 @ 8086'	33 FT	14 MIN	200 PSI	120 PSI		CBP #5 @ 8338'	55 FT	13 MIN	400 PSI	400 PSI		CBP #6 @ 8594'	16 FT	20 MIN	200 PSI	350 PSI		CBP #7 @ 8858'	17 FT	09 MIN	700 PSI	500 PSI		CBP #8 @ 9121'	47 FT	09 MIN	400 PSI	625 PSI		CBP #9 @ 9371'	14 FT	14 MIN	1000 PSI	620 PSI	
HALCO CBP @	C/O FILL	D/O CBP																																																																		
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8/11/2011	7:00 -			33	A			<p>7 AM FLBK REPORT: CP 3000#, TP 2100#, 20/64" CK, 58 BWPH, LIGHT SAND, - GAS TTL BBLs RECOVERED: 2380 BBLs LEFT TO RECOVER: 7168</p>																																																												
8/12/2011	7:00 -			33	A			<p>7 AM FLBK REPORT: CP 3150#, TP 2300#, 20/64" CK, 48 BWPH, LIGHT SAND, - GAS TTL BBLs RECOVERED: 3570 BBLs LEFT TO RECOVER: 5978</p>																																																												
8/13/2011	7:00 -			33	A			<p>7 AM FLBK REPORT: CP 2900#, TP 2000#, 20/64" CK, 30 BWPH, LIGHT SAND, - GAS TTL BBLs RECOVERED: 4436 BBLs LEFT TO RECOVER: 5112</p>																																																												

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-35B4BS [BLUE]		Spud Conductor: 3/16/2011	Spud Date: 3/26/2011
Project: UTAH-UINTAH		Site: NBU 921-35A PAD	Rig Name No:
Event: COMPLETION		Start Date: 6/22/2011	End Date: 8/10/2011
Active Datum: RKB @5,015.00ft (above Mean Sea Level)		UWI: NE/NE/0/9/S/21/E/35/0/0/26/PM/N/520/E/0/464/0/0	

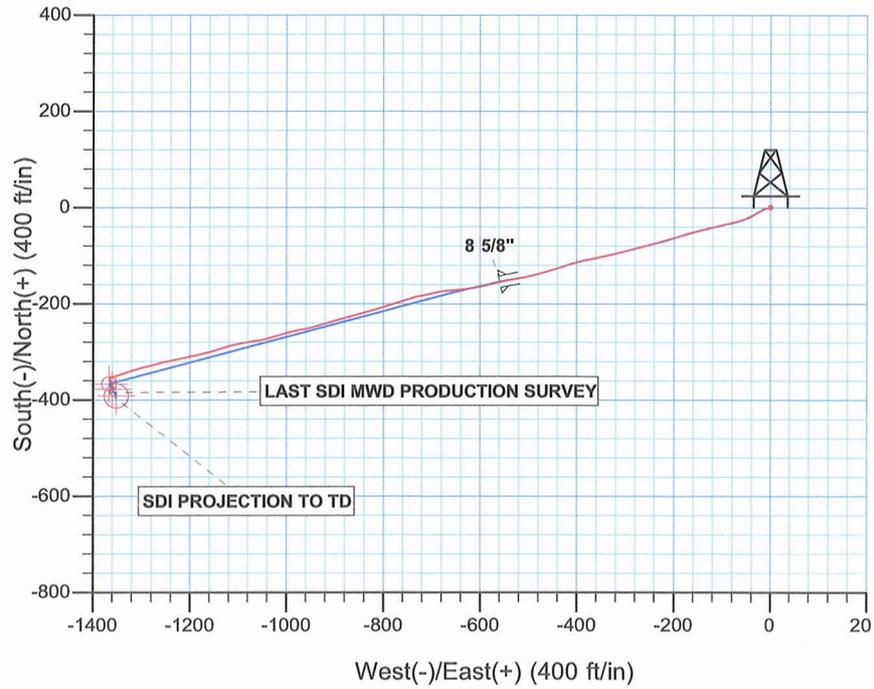
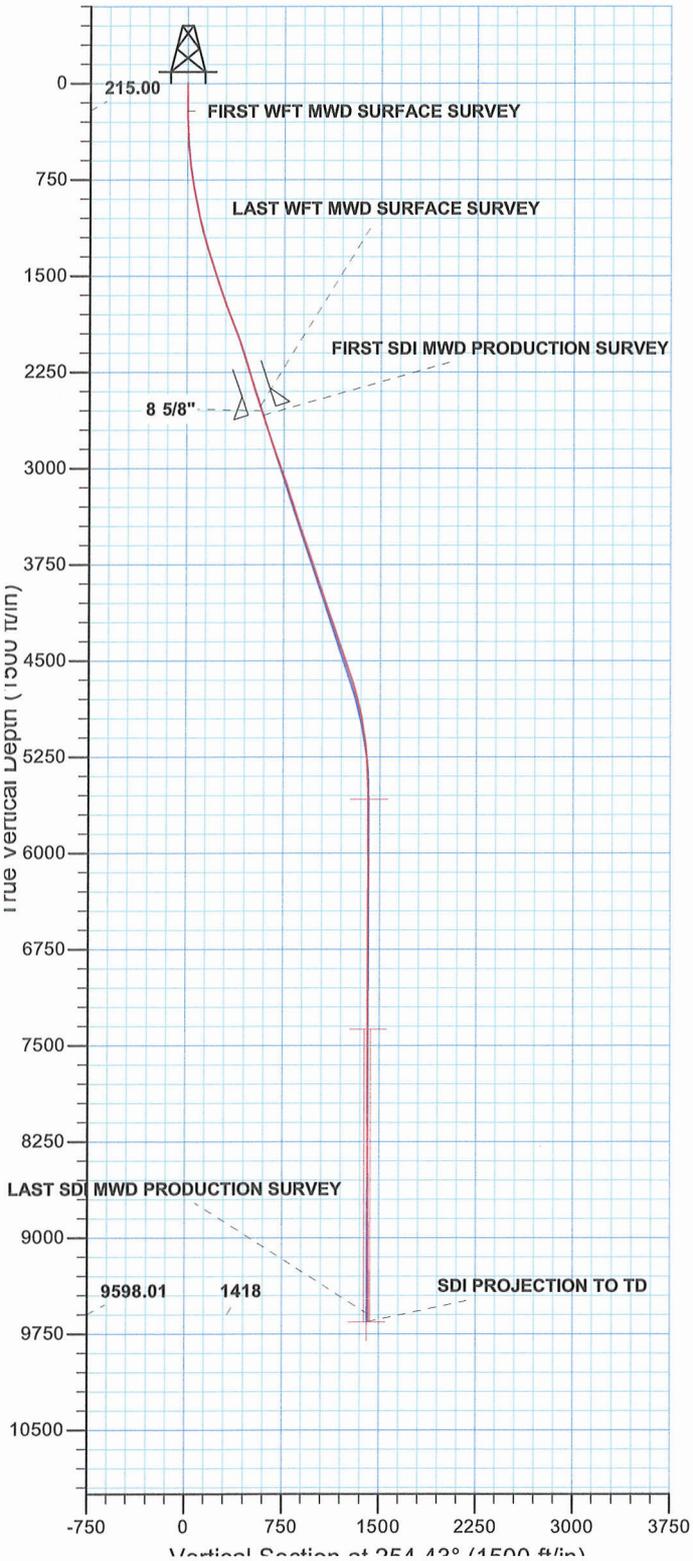
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
8/14/2011	7:00 -			33	A			7 AM FLBK REPORT: CP 2650#, TP 1850#, 20/64" CK, 22 BWPH, LIGHT SAND, - GAS TTL BBLS RECOVERED: 5086 BBLS LEFT TO RECOVER: 4462

WELL DETAILS: NBU 921-35B4BS					
GL 4990 & KB 25' @ 5015.00ft (HP 311)					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	14528931.74	2057594.40	39° 59' 54.081 N	109° 30' 37.638 W



Azimuths to True North
 Magnetic North: 11.16°

Magnetic Field
 Strength: 52389.4snT
 Dip Angle: 65.88°
 Date: 10/27/2010
 Model: IGRF2010



PROJECT DETAILS: Uintah County, UT UTM12	
Geodetic System:	Universal Transverse Mercator (US Survey Feet)
Datum:	NAD 1927 - Western US
Ellipsoid:	Clarke 1866
Zone:	Zone 12N (114 W to 108 W)
Location:	SEC 35 T9S R21E
System Datum:	Mean Sea Level



Scientific Drilling
Rocky Mountain Operations

Kerr McGee Oil and Gas Onshore

LP

Uintah County, UT UTM12

NBU 921-35A Pad

NBU 921-35B4BS

OH

Design: OH

Standard Survey Report

17 May, 2011

Anadarko 
Petroleum Corporation

Company:	Kerr McGee Oil and Gas Onshore LP	Local Co-ordinate Reference:	Well NBU 921-35B4BS
Project:	Uintah County, UT UTM12	TVD Reference:	GL 4990 & KB 25' @ 5015.00ft (HP 311)
Site:	NBU 921-35A Pad	MD Reference:	GL 4990 & KB 25' @ 5015.00ft (HP 311)
Well:	NBU 921-35B4BS	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM5000-RobertS-Local

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

Site	NBU 921-35A Pad, SEC 35 T9S R21E				
Site Position:		Northing:	14,528,933.77 usft	Latitude:	39° 59' 54.103 N
From:	Lat/Long	Easting:	2,057,584.54 usft	Longitude:	109° 30' 37.764 W
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence:	0.96 °

Well	NBU 921-35B4BS, 520' FNL 464' FEL					
Well Position	+N/-S	0.00 ft	Northing:	14,528,931.74 usft	Latitude:	39° 59' 54.081 N
	+E/-W	0.00 ft	Easting:	2,057,594.39 usft	Longitude:	109° 30' 37.638 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	4,990.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	10/27/2010	11.16	65.88	52,389

Design	OH				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.00	0.00	0.00	254.43	

Survey Program	Date 05/17/2011				
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
16.00	2,596.00	Survey #1 WEATHERFORD MWD SURFA	MWD	MWD - Standard	
2,673.00	9,867.00	Survey #2 SDI MWD PRODUCTION (OH)	MWD SDI	MWD - Standard ver 1.0.1	

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16.00	0.00	0.00	16.00	0.00	0.00	0.00	0.00	0.00	0.00
215.00	0.19	242.92	215.00	-0.15	-0.29	0.32	0.10	0.10	0.00
FIRST WFT MWD SURFACE SURVEY									
306.00	2.03	262.86	305.98	-0.42	-2.03	2.07	2.04	2.02	21.91
399.00	3.05	257.64	398.89	-1.15	-6.08	6.17	1.12	1.10	-5.61
494.00	4.44	247.86	493.68	-3.08	-11.95	12.34	1.61	1.46	-10.29
589.00	6.13	243.24	588.28	-6.75	-19.89	20.97	1.83	1.78	-4.86
685.00	7.88	238.99	683.56	-12.45	-30.11	32.34	1.90	1.82	-4.43
780.00	9.56	243.61	777.46	-19.31	-42.76	46.37	1.91	1.77	4.86

Company: Kerr McGee Oil and Gas Onshore LP
Project: Uintah County, UT UTM12
Site: NBU 921-35A Pad
Well: NBU 921-35B4BS
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well NBU 921-35B4BS
TVD Reference: GL 4990 & KB 25' @ 5015.00ft (HP 311)
MD Reference: GL 4990 & KB 25' @ 5015.00ft (HP 311)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM5000-RobertS-Local

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)	
875.00	10.75	250.11	870.97	-25.83	-58.16	62.95	1.74	1.25	6.84	
968.00	11.75	257.11	962.18	-30.90	-75.54	81.06	1.82	1.08	7.53	
1,063.00	13.25	257.61	1,054.93	-35.39	-95.61	101.60	1.58	1.58	0.53	
1,158.00	14.52	254.77	1,147.15	-40.85	-117.73	124.38	1.52	1.34	-2.99	
1,254.00	16.19	256.24	1,239.72	-47.20	-142.35	149.79	1.79	1.74	1.53	
1,349.00	17.25	254.36	1,330.71	-54.15	-168.78	177.12	1.25	1.12	-1.98	
1,444.00	17.56	252.24	1,421.36	-62.32	-195.99	205.52	0.74	0.33	-2.23	
1,539.00	18.31	253.26	1,511.74	-70.99	-223.93	234.76	0.86	0.79	1.07	
1,634.00	19.31	256.36	1,601.67	-78.99	-253.48	265.38	1.49	1.05	3.26	
1,728.00	19.63	256.21	1,690.29	-86.42	-283.92	296.70	0.34	0.34	-0.16	
1,823.00	20.25	255.11	1,779.60	-94.45	-315.31	329.09	0.76	0.65	-1.16	
1,919.00	19.38	257.86	1,869.91	-102.07	-346.94	361.60	1.33	-0.91	2.86	
2,013.00	20.00	257.74	1,958.42	-108.76	-377.89	393.22	0.66	0.66	-0.13	
2,108.00	17.19	253.99	2,048.45	-116.08	-407.27	423.48	3.21	-2.96	-3.95	
2,204.00	17.06	251.49	2,140.20	-124.47	-434.26	451.73	0.78	-0.14	-2.60	
2,299.00	16.63	253.36	2,231.12	-132.78	-460.50	479.24	0.73	-0.45	1.97	
2,394.00	17.13	255.86	2,322.03	-140.09	-487.09	506.82	0.93	0.53	2.63	
2,490.00	17.25	259.49	2,413.74	-146.14	-514.79	535.13	1.12	0.13	3.78	
2,596.00	17.98	258.82	2,514.77	-152.18	-546.30	567.10	0.71	0.69	-0.63	
LAST WFT MWD SURFACE SURVEY - LAST WFT MWD SURFACE SURVEY										
2,673.00	17.50	255.26	2,588.11	-157.43	-569.15	590.52	1.54	-0.62	-4.62	
FIRST SDI MWD PRODUCTION SURVEY										
2,767.00	18.29	258.60	2,677.57	-163.94	-597.28	619.37	1.38	0.84	3.55	
2,861.00	18.73	263.26	2,766.71	-168.63	-626.73	648.99	1.64	0.47	4.96	
2,956.00	19.87	264.93	2,856.37	-171.85	-657.96	679.94	1.33	1.20	1.76	
3,050.00	18.47	258.95	2,945.16	-176.11	-688.49	710.50	2.56	-1.49	-6.36	
3,144.00	19.26	257.10	3,034.12	-182.43	-718.22	740.83	1.05	0.84	-1.97	
3,239.00	18.38	251.57	3,124.04	-190.66	-747.70	771.44	2.09	-0.93	-5.82	
3,333.00	17.94	252.36	3,213.36	-199.74	-775.56	800.71	0.54	-0.47	0.84	
3,428.00	18.38	253.68	3,303.63	-208.38	-803.88	830.31	0.63	0.46	1.39	
3,522.00	17.06	253.24	3,393.17	-216.52	-831.30	858.91	1.41	-1.40	-0.47	
3,616.00	18.73	254.91	3,482.62	-224.42	-859.08	887.79	1.86	1.78	1.78	
3,711.00	19.87	254.82	3,572.28	-232.62	-889.39	919.19	1.20	1.20	-0.09	
3,805.00	17.41	252.27	3,661.34	-241.09	-918.21	949.22	2.76	-2.62	-2.71	
3,899.00	17.94	256.75	3,750.91	-248.69	-945.69	977.74	1.55	0.56	4.77	
3,993.00	18.82	258.77	3,840.11	-254.96	-974.66	1,007.33	1.16	0.94	2.15	
4,088.00	18.03	253.85	3,930.25	-262.04	-1,003.81	1,037.31	1.84	-0.83	-5.18	
4,182.00	17.94	252.71	4,019.65	-270.39	-1,031.61	1,066.33	0.39	-0.10	-1.21	
4,276.00	18.98	260.82	4,108.83	-277.13	-1,060.53	1,096.00	2.94	1.11	8.63	
4,371.00	19.26	261.37	4,198.59	-281.94	-1,091.27	1,126.90	0.35	0.29	0.58	
4,465.00	18.91	252.36	4,287.44	-288.89	-1,121.12	1,157.52	3.15	-0.37	-9.59	
4,559.00	18.82	253.41	4,376.39	-297.83	-1,150.16	1,187.90	0.37	-0.10	1.12	
4,654.00	18.55	256.84	4,466.39	-305.65	-1,179.57	1,218.32	1.19	-0.28	3.61	

Company: Kerr McGee Oil and Gas Onshore LP
 Project: Uintah County, UT UTM12
 Site: NBU 921-35A Pad
 Well: NBU 921-35B4BS
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well NBU 921-35B4BS
 TVD Reference: GL 4990 & KB 25' @ 5015.00ft (HP 311)
 MD Reference: GL 4990 & KB 25' @ 5015.00ft (HP 311)
 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)	
4,748.00	18.20	258.51	4,555.60	-311.98	-1,208.51	1,247.90	0.67	-0.37	1.78	
4,842.00	18.91	257.63	4,644.71	-318.16	-1,237.78	1,277.75	0.81	0.76	-0.94	
4,937.00	15.74	255.52	4,735.39	-324.69	-1,265.30	1,306.02	3.40	-3.34	-2.22	
5,031.00	13.89	256.05	4,826.26	-330.59	-1,288.59	1,330.04	1.97	-1.97	0.56	
5,125.00	10.99	252.88	4,918.05	-335.95	-1,308.11	1,350.28	3.17	-3.09	-3.37	
5,219.00	9.58	252.36	5,010.53	-340.96	-1,324.13	1,367.06	1.50	-1.50	-0.55	
5,314.00	7.56	250.69	5,104.47	-345.42	-1,337.56	1,381.19	2.14	-2.13	-1.76	
5,408.00	5.80	253.24	5,197.83	-348.84	-1,347.94	1,392.11	1.90	-1.87	2.71	
5,502.00	3.34	252.36	5,291.52	-351.04	-1,355.10	1,399.60	2.62	-2.62	-0.94	
5,597.00	1.93	273.45	5,386.42	-351.78	-1,359.34	1,403.88	1.78	-1.48	22.20	
5,691.00	0.70	262.29	5,480.39	-351.76	-1,361.49	1,405.94	1.33	-1.31	-11.87	
5,785.00	0.70	261.85	5,574.39	-351.92	-1,362.62	1,407.08	0.01	0.00	-0.47	
5,880.00	0.97	189.08	5,669.38	-352.80	-1,363.32	1,407.99	1.07	0.28	-76.60	
5,974.00	1.32	187.41	5,763.36	-354.66	-1,363.59	1,408.75	0.37	0.37	-1.78	
6,069.00	1.41	178.44	5,858.33	-356.91	-1,363.70	1,409.46	0.24	0.09	-9.44	
6,163.00	1.23	182.31	5,952.31	-359.07	-1,363.71	1,410.05	0.21	-0.19	4.12	
6,257.00	0.79	152.34	6,046.29	-360.66	-1,363.45	1,410.22	0.72	-0.47	-31.88	
6,351.00	1.32	147.68	6,140.28	-362.14	-1,362.57	1,409.77	0.57	0.56	-4.96	
6,446.00	0.62	80.53	6,235.26	-362.98	-1,361.48	1,408.95	1.29	-0.74	-70.68	
6,540.00	0.70	81.85	6,329.26	-362.82	-1,360.41	1,407.87	0.09	0.09	1.40	
6,635.00	0.88	185.91	6,424.25	-363.46	-1,359.91	1,407.56	1.32	0.19	109.54	
6,729.00	1.06	188.72	6,518.24	-365.04	-1,360.11	1,408.19	0.20	0.19	2.99	
6,823.00	1.14	183.27	6,612.22	-366.83	-1,360.30	1,408.84	0.14	0.09	-5.80	
6,917.00	1.14	166.75	6,706.20	-368.68	-1,360.14	1,409.18	0.35	0.00	-17.57	
7,012.00	1.23	165.61	6,801.18	-370.58	-1,359.67	1,409.24	0.10	0.09	-1.20	
7,106.00	0.14	223.71	6,895.18	-371.65	-1,359.50	1,409.36	1.24	-1.16	61.81	
7,201.00	0.26	126.59	6,990.17	-371.86	-1,359.40	1,409.33	0.33	0.13	-102.23	
7,295.00	0.53	114.37	7,084.17	-372.16	-1,358.84	1,408.87	0.30	0.29	-13.00	
7,390.00	0.35	136.17	7,179.17	-372.55	-1,358.23	1,408.39	0.26	-0.19	22.95	
7,484.00	0.67	143.41	7,273.17	-373.20	-1,357.71	1,408.06	0.35	0.34	7.70	
7,578.00	0.79	161.21	7,367.16	-374.26	-1,357.17	1,407.83	0.27	0.13	18.94	
7,673.00	0.79	157.26	7,462.15	-375.48	-1,356.71	1,407.71	0.06	0.00	-4.16	
7,767.00	0.26	249.19	7,556.15	-376.16	-1,356.66	1,407.84	0.89	-0.56	97.80	
7,862.00	0.88	317.04	7,651.14	-375.70	-1,357.36	1,408.39	0.86	0.65	71.42	
7,956.00	0.70	320.38	7,745.13	-374.73	-1,358.21	1,408.95	0.20	-0.19	3.55	
8,050.00	0.70	302.19	7,839.13	-373.98	-1,359.07	1,409.57	0.24	0.00	-19.35	
8,145.00	0.26	258.42	7,934.12	-373.71	-1,359.77	1,410.18	0.57	-0.46	-46.07	
8,239.00	0.26	264.05	8,028.12	-373.78	-1,360.19	1,410.60	0.03	0.00	5.99	
8,334.00	0.35	124.56	8,123.12	-373.97	-1,360.16	1,410.63	0.60	0.09	-146.83	
8,428.00	0.79	132.74	8,217.12	-374.57	-1,359.45	1,410.10	0.47	0.47	8.70	
8,523.00	1.14	167.89	8,312.10	-375.94	-1,358.77	1,409.82	0.71	0.37	37.00	
8,617.00	0.79	199.71	8,406.09	-377.46	-1,358.80	1,410.25	0.67	-0.37	33.85	
8,711.00	0.62	263.43	8,500.08	-378.13	-1,359.52	1,411.12	0.81	-0.18	67.79	
8,806.00	0.63	277.66	8,595.08	-378.12	-1,360.55	1,412.11	0.16	0.01	14.98	

Company: Kerr McGee Oil and Gas Onshore LP
Project: Uintah County, UT UTM12
Site: NBU 921-35A Pad
Well: NBU 921-35B4BS
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well NBU 921-35B4BS
TVD Reference: GL 4990 & KB 25' @ 5015.00ft (HP 311)
MD Reference: GL 4990 & KB 25' @ 5015.00ft (HP 311)
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)	
8,900.00	0.62	269.58	8,689.07	-378.05	-1,361.57	1,413.08	0.09	-0.01	-8.60	
8,994.00	0.62	271.08	8,783.07	-378.05	-1,362.59	1,414.06	0.02	0.00	1.60	
9,088.00	0.53	253.32	8,877.06	-378.16	-1,363.51	1,414.98	0.21	-0.10	-18.89	
9,183.00	0.44	272.13	8,972.06	-378.27	-1,364.30	1,415.77	0.19	-0.09	19.80	
9,277.00	0.35	257.98	9,066.06	-378.32	-1,364.94	1,416.40	0.14	-0.10	-15.05	
9,371.00	0.62	217.20	9,160.05	-378.79	-1,365.53	1,417.09	0.45	0.29	-43.38	
9,466.00	0.79	178.70	9,255.05	-379.85	-1,365.82	1,417.66	0.52	0.18	-40.53	
9,560.00	0.70	177.56	9,349.04	-381.07	-1,365.78	1,417.95	0.10	-0.10	-1.21	
9,654.00	0.88	193.73	9,443.03	-382.35	-1,365.93	1,418.43	0.30	0.19	17.20	
9,749.00	0.97	152.51	9,538.02	-383.77	-1,365.73	1,418.62	0.69	0.09	-43.39	
9,809.00	1.41	141.79	9,598.01	-384.80	-1,365.04	1,418.23	0.82	0.73	-17.87	
LAST SDI MWD PRODUCTION SURVEY										
9,867.00	1.41	141.79	9,655.99	-385.92	-1,364.16	1,417.68	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)		
215.00	215.00	-0.15	-0.29	FIRST WFT MWD SURFACE SURVEY	
2,596.00	2,514.77	-152.18	-546.30	LAST WFT MWD SURFACE SURVEY	
2,596.00	2,514.77	-152.18	-546.30	LAST WFT MWD SURFACE SURVEY	
2,673.00	2,588.11	-157.43	-569.15	FIRST SDI MWD PRODUCTION SURVEY	
9,809.00	9,598.01	-384.80	-1,365.04	LAST SDI MWD PRODUCTION SURVEY	
9,867.00	9,655.99	-385.92	-1,364.16	SDI PROJECTION TO TD	

Checked By: _____ Approved By: _____ Date: _____



Scientific Drilling
Rocky Mountain Operations

Kerr McGee Oil and Gas Onshore LP

**Uintah County, UT UTM12
NBU 921-35A Pad
NBU 921-35B4BS**

OH

Design: OH

Survey Report - Geographic

17 May, 2011

Anadarko 
Petroleum Corporation

Company:	Kerr McGee Oil and Gas Onshore LP	Local Co-ordinate Reference:	Well NBU 921-35B4BS
Project:	Uintah County, UT UTM12	TVD Reference:	GL 4990 & KB 25' @ 5015.00ft (HP 311)
Site:	NBU 921-35A Pad	MD Reference:	GL 4990 & KB 25' @ 5015.00ft (HP 311)
Well:	NBU 921-35B4BS	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM5000-RobertS-Local

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

Site	NBU 921-35A Pad, SEC 35 T9S R21E				
Site Position:		Northing:	14,528,933.77 usft	Latitude:	39° 59' 54.103 N
From:	Lat/Long	Easting:	2,057,584.54 usft	Longitude:	109° 30' 37.764 W
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence:	0.96 °

Well	NBU 921-35B4BS, 520' FNL 464' FEL					
Well Position	+N/-S	0.00 ft	Northing:	14,528,931.74 usft	Latitude:	39° 59' 54.081 N
	+E/-W	0.00 ft	Easting:	2,057,594.39 usft	Longitude:	109° 30' 37.638 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	4,990.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	10/27/2010	11.16	65.88	52,389

Design	OH				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.00	0.00	0.00	254.43	

Survey Program	Date 05/17/2011				
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
16.00	2,596.00	Survey #1 WEATHERFORD MWD SURFA	MWD	MWD - Standard	
2,673.00	9,867.00	Survey #2 SDI MWD PRODUCTION (OH)	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	14,528,931.74	2,057,594.39	39° 59' 54.081 N	109° 30' 37.638 W
16.00	0.00	0.00	16.00	0.00	0.00	14,528,931.74	2,057,594.39	39° 59' 54.081 N	109° 30' 37.638 W
215.00	0.19	242.92	215.00	-0.15	-0.29	14,528,931.58	2,057,594.10	39° 59' 54.080 N	109° 30' 37.642 W
FIRST WFT MWD SURFACE SURVEY									
306.00	2.03	262.86	305.98	-0.42	-2.03	14,528,931.29	2,057,592.37	39° 59' 54.077 N	109° 30' 37.664 W
399.00	3.05	257.64	398.89	-1.15	-6.08	14,528,930.49	2,057,588.33	39° 59' 54.070 N	109° 30' 37.716 W
494.00	4.44	247.86	493.68	-3.08	-11.95	14,528,928.46	2,057,582.49	39° 59' 54.051 N	109° 30' 37.791 W
589.00	6.13	243.24	588.28	-6.75	-19.89	14,528,924.66	2,057,574.62	39° 59' 54.015 N	109° 30' 37.893 W
685.00	7.88	238.99	683.56	-12.45	-30.11	14,528,918.79	2,057,564.50	39° 59' 53.958 N	109° 30' 38.025 W
780.00	9.56	243.61	777.46	-19.31	-42.76	14,528,911.72	2,057,551.96	39° 59' 53.891 N	109° 30' 38.187 W
875.00	10.75	250.11	870.97	-25.83	-58.16	14,528,904.94	2,057,536.68	39° 59' 53.826 N	109° 30' 38.385 W

Company: Kerr McGee Oil and Gas Onshore LP
Project: Uintah County, UT UTM12
Site: NBU 921-35A Pad
Well: NBU 921-35B4BS
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well NBU 921-35B4BS
TVD Reference: GL 4990 & KB 25' @ 5015.00ft (HP 311)
MD Reference: GL 4990 & KB 25' @ 5015.00ft (HP 311)
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	
968.00	11.75	257.11	962.18	-30.90	-75.54	14,528,899.59	2,057,519.38	39° 59' 53.776 N	109° 30' 38.609 W	
1,063.00	13.25	257.61	1,054.93	-35.39	-95.61	14,528,894.76	2,057,499.39	39° 59' 53.732 N	109° 30' 38.867 W	
1,158.00	14.52	254.77	1,147.15	-40.85	-117.73	14,528,888.92	2,057,477.36	39° 59' 53.678 N	109° 30' 39.151 W	
1,254.00	16.19	256.24	1,239.72	-47.20	-142.35	14,528,882.17	2,057,452.86	39° 59' 53.615 N	109° 30' 39.467 W	
1,349.00	17.25	254.36	1,330.71	-54.15	-168.78	14,528,874.78	2,057,426.55	39° 59' 53.546 N	109° 30' 39.807 W	
1,444.00	17.56	252.24	1,421.36	-62.32	-195.99	14,528,866.16	2,057,399.47	39° 59' 53.466 N	109° 30' 40.157 W	
1,539.00	18.31	253.26	1,511.74	-70.99	-223.93	14,528,857.02	2,057,371.68	39° 59' 53.380 N	109° 30' 40.516 W	
1,634.00	19.31	256.36	1,601.67	-78.99	-253.48	14,528,848.53	2,057,342.27	39° 59' 53.301 N	109° 30' 40.895 W	
1,728.00	19.63	256.21	1,690.29	-86.42	-283.92	14,528,840.59	2,057,311.96	39° 59' 53.227 N	109° 30' 41.287 W	
1,823.00	20.25	255.11	1,779.60	-94.45	-315.31	14,528,832.04	2,057,280.71	39° 59' 53.148 N	109° 30' 41.690 W	
1,919.00	19.38	257.86	1,869.91	-102.07	-346.94	14,528,823.89	2,057,249.21	39° 59' 53.073 N	109° 30' 42.097 W	
2,013.00	20.00	257.74	1,958.42	-108.76	-377.89	14,528,816.68	2,057,218.37	39° 59' 53.006 N	109° 30' 42.494 W	
2,108.00	17.19	253.99	2,048.45	-116.08	-407.27	14,528,808.87	2,057,189.12	39° 59' 52.934 N	109° 30' 42.872 W	
2,204.00	17.06	251.49	2,140.20	-124.47	-434.26	14,528,800.03	2,057,162.28	39° 59' 52.851 N	109° 30' 43.219 W	
2,299.00	16.63	253.36	2,231.12	-132.78	-460.50	14,528,791.28	2,057,136.18	39° 59' 52.769 N	109° 30' 43.556 W	
2,394.00	17.13	255.86	2,322.03	-140.09	-487.09	14,528,783.53	2,057,109.71	39° 59' 52.697 N	109° 30' 43.898 W	
2,490.00	17.25	259.49	2,413.74	-146.14	-514.79	14,528,777.01	2,057,082.11	39° 59' 52.637 N	109° 30' 44.254 W	
2,586.00	17.98	258.82	2,514.77	-152.18	-546.30	14,528,770.45	2,057,050.72	39° 59' 52.577 N	109° 30' 44.659 W	
LAST WFT MWD SURFACE SURVEY - LAST WFT MWD SURFACE SURVEY										
2,673.00	17.50	255.26	2,588.11	-157.43	-569.15	14,528,764.82	2,057,027.95	39° 59' 52.525 N	109° 30' 44.952 W	
FIRST SDI MWD PRODUCTION SURVEY										
2,767.00	18.29	258.60	2,677.57	-163.94	-597.28	14,528,757.84	2,056,999.94	39° 59' 52.461 N	109° 30' 45.314 W	
2,861.00	18.73	263.26	2,766.71	-168.63	-626.73	14,528,752.66	2,056,970.57	39° 59' 52.415 N	109° 30' 45.692 W	
2,956.00	19.87	264.93	2,856.37	-171.85	-657.96	14,528,748.92	2,056,939.40	39° 59' 52.383 N	109° 30' 46.094 W	
3,050.00	18.47	258.95	2,945.16	-176.11	-688.49	14,528,744.14	2,056,908.94	39° 59' 52.341 N	109° 30' 46.486 W	
3,144.00	19.26	257.10	3,034.12	-182.43	-718.22	14,528,737.33	2,056,879.33	39° 59' 52.278 N	109° 30' 46.868 W	
3,239.00	18.38	251.57	3,124.04	-190.66	-747.70	14,528,728.61	2,056,849.98	39° 59' 52.197 N	109° 30' 47.247 W	
3,333.00	17.94	252.36	3,213.36	-199.74	-775.56	14,528,719.07	2,056,822.28	39° 59' 52.107 N	109° 30' 47.605 W	
3,428.00	18.38	253.68	3,303.63	-208.38	-803.88	14,528,709.96	2,056,794.11	39° 59' 52.022 N	109° 30' 47.969 W	
3,522.00	17.06	253.24	3,393.17	-216.52	-831.30	14,528,701.36	2,056,766.83	39° 59' 51.941 N	109° 30' 48.321 W	
3,616.00	18.73	254.91	3,482.62	-224.42	-859.08	14,528,692.99	2,056,739.19	39° 59' 51.863 N	109° 30' 48.678 W	
3,711.00	19.87	254.82	3,572.28	-232.62	-889.39	14,528,684.29	2,056,709.02	39° 59' 51.782 N	109° 30' 49.068 W	
3,805.00	17.41	252.27	3,661.34	-241.09	-918.21	14,528,675.34	2,056,680.35	39° 59' 51.698 N	109° 30' 49.438 W	
3,899.00	17.94	256.75	3,750.91	-248.69	-945.69	14,528,667.28	2,056,652.99	39° 59' 51.623 N	109° 30' 49.791 W	
3,993.00	18.82	258.77	3,840.11	-254.96	-974.66	14,528,660.52	2,056,624.13	39° 59' 51.561 N	109° 30' 50.164 W	
4,088.00	18.03	253.85	3,930.25	-262.04	-1,003.81	14,528,652.96	2,056,595.10	39° 59' 51.491 N	109° 30' 50.538 W	
4,182.00	17.94	252.71	4,019.65	-270.39	-1,031.61	14,528,644.15	2,056,567.45	39° 59' 51.409 N	109° 30' 50.895 W	
4,276.00	18.98	260.82	4,108.83	-277.13	-1,060.53	14,528,636.93	2,056,538.65	39° 59' 51.342 N	109° 30' 51.267 W	
4,371.00	19.26	261.37	4,198.59	-281.94	-1,091.27	14,528,631.60	2,056,507.99	39° 59' 51.294 N	109° 30' 51.662 W	
4,465.00	18.91	252.36	4,287.44	-288.89	-1,121.12	14,528,624.16	2,056,478.26	39° 59' 51.226 N	109° 30' 52.046 W	
4,559.00	18.82	253.41	4,376.39	-297.83	-1,150.16	14,528,614.73	2,056,449.37	39° 59' 51.137 N	109° 30' 52.419 W	
4,654.00	18.55	256.84	4,466.39	-305.65	-1,179.57	14,528,606.42	2,056,420.10	39° 59' 51.060 N	109° 30' 52.797 W	
4,748.00	18.20	258.51	4,555.60	-311.98	-1,208.51	14,528,599.61	2,056,391.27	39° 59' 50.997 N	109° 30' 53.169 W	
4,842.00	18.91	257.63	4,644.71	-318.16	-1,237.78	14,528,592.93	2,056,362.11	39° 59' 50.936 N	109° 30' 53.545 W	
4,937.00	15.74	255.52	4,735.39	-324.69	-1,265.30	14,528,585.95	2,056,334.70	39° 59' 50.872 N	109° 30' 53.899 W	
5,031.00	13.89	256.05	4,826.26	-330.59	-1,288.59	14,528,579.66	2,056,311.51	39° 59' 50.813 N	109° 30' 54.198 W	
5,125.00	10.99	252.88	4,918.05	-335.95	-1,308.11	14,528,573.97	2,056,292.08	39° 59' 50.760 N	109° 30' 54.449 W	
5,219.00	9.58	252.36	5,010.53	-340.96	-1,324.13	14,528,568.70	2,056,276.15	39° 59' 50.711 N	109° 30' 54.655 W	
5,314.00	7.56	250.69	5,104.47	-345.42	-1,337.56	14,528,564.01	2,056,262.80	39° 59' 50.667 N	109° 30' 54.827 W	
5,408.00	5.80	253.24	5,197.83	-348.84	-1,347.94	14,528,560.42	2,056,252.47	39° 59' 50.633 N	109° 30' 54.961 W	
5,502.00	3.34	252.36	5,291.52	-351.04	-1,355.10	14,528,558.10	2,056,245.35	39° 59' 50.611 N	109° 30' 55.053 W	
5,597.00	1.93	273.45	5,386.42	-351.78	-1,359.34	14,528,557.29	2,056,241.13	39° 59' 50.604 N	109° 30' 55.107 W	
5,691.00	0.70	262.29	5,480.39	-351.76	-1,361.49	14,528,557.27	2,056,238.98	39° 59' 50.604 N	109° 30' 55.135 W	
5,785.00	0.70	261.85	5,574.39	-351.92	-1,362.62	14,528,557.10	2,056,237.84	39° 59' 50.603 N	109° 30' 55.149 W	
5,880.00	0.97	189.08	5,669.38	-352.80	-1,363.32	14,528,556.21	2,056,237.16	39° 59' 50.594 N	109° 30' 55.158 W	

Company: Kerr McGee Oil and Gas Onshore LP
Project: Uintah County, UT UTM12
Site: NBU 921-35A Pad
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Local Co-ordinate Reference: Well NBU 921-35B4BS
TVD Reference: GL 4990 & KB 25' @ 5015.00ft (HP 311)
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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	
5,974.00	1.32	187.41	5,763.36	-354.66	-1,363.59	14,528,554.34	2,056,236.92	39° 59' 50.576 N	109° 30' 55.162 W	
6,069.00	1.41	178.44	5,858.33	-356.91	-1,363.70	14,528,552.09	2,056,236.85	39° 59' 50.553 N	109° 30' 55.163 W	
6,163.00	1.23	182.31	5,952.31	-359.07	-1,363.71	14,528,549.93	2,056,236.88	39° 59' 50.532 N	109° 30' 55.163 W	
6,257.00	0.79	152.34	6,046.29	-360.66	-1,363.45	14,528,548.35	2,056,237.16	39° 59' 50.516 N	109° 30' 55.160 W	
6,351.00	1.32	147.68	6,140.28	-362.14	-1,362.57	14,528,546.87	2,056,238.07	39° 59' 50.501 N	109° 30' 55.149 W	
6,446.00	0.62	80.53	6,235.26	-362.98	-1,361.48	14,528,546.05	2,056,239.18	39° 59' 50.493 N	109° 30' 55.135 W	
6,540.00	0.70	81.85	6,329.26	-362.82	-1,360.41	14,528,546.24	2,056,240.24	39° 59' 50.495 N	109° 30' 55.121 W	
6,635.00	0.88	185.91	6,424.25	-363.46	-1,359.91	14,528,545.60	2,056,240.75	39° 59' 50.488 N	109° 30' 55.115 W	
6,729.00	1.06	188.72	6,518.24	-365.04	-1,360.11	14,528,544.02	2,056,240.57	39° 59' 50.473 N	109° 30' 55.117 W	
6,823.00	1.14	183.27	6,612.22	-366.83	-1,360.30	14,528,542.22	2,056,240.42	39° 59' 50.455 N	109° 30' 55.120 W	
6,917.00	1.14	166.75	6,706.20	-368.68	-1,360.14	14,528,540.38	2,056,240.61	39° 59' 50.437 N	109° 30' 55.118 W	
7,012.00	1.23	165.61	6,801.18	-370.58	-1,359.67	14,528,538.48	2,056,241.11	39° 59' 50.418 N	109° 30' 55.111 W	
7,106.00	0.14	223.71	6,895.18	-371.65	-1,359.50	14,528,537.43	2,056,241.30	39° 59' 50.408 N	109° 30' 55.109 W	
7,201.00	0.26	126.59	6,990.17	-371.86	-1,359.40	14,528,537.22	2,056,241.40	39° 59' 50.405 N	109° 30' 55.108 W	
7,295.00	0.53	114.37	7,084.17	-372.16	-1,358.84	14,528,536.92	2,056,241.97	39° 59' 50.402 N	109° 30' 55.101 W	
7,390.00	0.35	136.17	7,179.17	-372.55	-1,358.23	14,528,536.54	2,056,242.58	39° 59' 50.399 N	109° 30' 55.093 W	
7,484.00	0.67	143.41	7,273.17	-373.20	-1,357.71	14,528,535.90	2,056,243.11	39° 59' 50.392 N	109° 30' 55.086 W	
7,578.00	0.79	161.21	7,367.16	-374.26	-1,357.17	14,528,534.85	2,056,243.67	39° 59' 50.382 N	109° 30' 55.079 W	
7,673.00	0.79	157.26	7,462.15	-375.48	-1,356.71	14,528,533.64	2,056,244.15	39° 59' 50.370 N	109° 30' 55.073 W	
7,767.00	0.26	249.19	7,556.15	-376.16	-1,356.66	14,528,532.96	2,056,244.21	39° 59' 50.363 N	109° 30' 55.073 W	
7,862.00	0.88	317.04	7,651.14	-375.70	-1,357.36	14,528,533.41	2,056,243.51	39° 59' 50.368 N	109° 30' 55.082 W	
7,956.00	0.70	320.38	7,745.13	-374.73	-1,358.21	14,528,534.37	2,056,242.63	39° 59' 50.377 N	109° 30' 55.093 W	
8,050.00	0.70	302.19	7,839.13	-373.98	-1,359.07	14,528,535.10	2,056,241.77	39° 59' 50.385 N	109° 30' 55.104 W	
8,145.00	0.26	258.42	7,934.12	-373.71	-1,359.77	14,528,535.35	2,056,241.06	39° 59' 50.387 N	109° 30' 55.113 W	
8,239.00	0.26	264.05	8,028.12	-373.78	-1,360.19	14,528,535.28	2,056,240.64	39° 59' 50.387 N	109° 30' 55.118 W	
8,334.00	0.35	124.56	8,123.12	-373.97	-1,360.16	14,528,535.10	2,056,240.67	39° 59' 50.385 N	109° 30' 55.118 W	
8,428.00	0.79	132.74	8,217.12	-374.57	-1,359.45	14,528,534.51	2,056,241.39	39° 59' 50.379 N	109° 30' 55.109 W	
8,523.00	1.14	167.89	8,312.10	-375.94	-1,358.77	14,528,533.15	2,056,242.10	39° 59' 50.365 N	109° 30' 55.100 W	
8,617.00	0.79	199.71	8,406.09	-377.46	-1,358.80	14,528,531.62	2,056,242.10	39° 59' 50.350 N	109° 30' 55.100 W	
8,711.00	0.62	263.43	8,500.08	-378.13	-1,359.52	14,528,530.94	2,056,241.39	39° 59' 50.343 N	109° 30' 55.110 W	
8,806.00	0.63	277.66	8,595.08	-378.12	-1,360.55	14,528,530.94	2,056,240.36	39° 59' 50.344 N	109° 30' 55.123 W	
8,900.00	0.62	269.58	8,689.07	-378.05	-1,361.57	14,528,530.99	2,056,239.34	39° 59' 50.344 N	109° 30' 55.136 W	
8,994.00	0.62	271.08	8,783.07	-378.05	-1,362.59	14,528,530.97	2,056,238.32	39° 59' 50.344 N	109° 30' 55.149 W	
9,088.00	0.53	253.32	8,877.06	-378.16	-1,363.51	14,528,530.84	2,056,237.40	39° 59' 50.343 N	109° 30' 55.161 W	
9,183.00	0.44	272.13	8,972.06	-378.27	-1,364.30	14,528,530.72	2,056,236.61	39° 59' 50.342 N	109° 30' 55.171 W	
9,277.00	0.35	257.98	9,066.06	-378.32	-1,364.94	14,528,530.66	2,056,235.97	39° 59' 50.342 N	109° 30' 55.179 W	
9,371.00	0.62	217.20	9,160.05	-378.79	-1,365.53	14,528,530.19	2,056,235.39	39° 59' 50.337 N	109° 30' 55.187 W	
9,466.00	0.79	178.70	9,255.05	-379.85	-1,365.82	14,528,529.12	2,056,235.11	39° 59' 50.326 N	109° 30' 55.191 W	
9,560.00	0.70	177.56	9,349.04	-381.07	-1,365.78	14,528,527.90	2,056,235.17	39° 59' 50.314 N	109° 30' 55.190 W	
9,654.00	0.88	193.73	9,443.03	-382.35	-1,365.93	14,528,526.62	2,056,235.05	39° 59' 50.302 N	109° 30' 55.192 W	
9,749.00	0.97	152.51	9,538.02	-383.77	-1,365.73	14,528,525.20	2,056,235.27	39° 59' 50.288 N	109° 30' 55.189 W	
9,809.00	1.41	141.79	9,598.01	-384.80	-1,365.04	14,528,524.18	2,056,235.98	39° 59' 50.278 N	109° 30' 55.180 W	
LAST SDI MWD PRODUCTION SURVEY										
9,867.00	1.41	141.79	9,655.99	-385.92	-1,364.16	14,528,523.08	2,056,236.88	39° 59' 50.266 N	109° 30' 55.169 W	
SDI PROJECTION TO TD										

Design Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment	
		+N/-S (ft)	+E/-W (ft)		
9,809.00	9,598.01	-384.80	-1,365.04	LAST SDI MWD PRODUCTION SURVEY	
9,867.00	9,655.99	-385.92	-1,364.16	SDI PROJECTION TO TD	

Company:	Kerr McGee Oil and Gas Onshore LP	Local Co-ordinate Reference:	Well NBU 921-35B4BS
Project:	Uintah County, UT UTM12	TVD Reference:	GL 4990 & KB 25' @ 5015.00ft (HP 311)
Site:	NBU 921-35A Pad	MD Reference:	GL 4990 & KB 25' @ 5015.00ft (HP 311)
Well:	NBU 921-35B4BS	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM5000-RobertS-Local

Checked By: _____	Approved By: _____	Date: _____
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