

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

FORM 3

AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL						1. WELL NAME and NUMBER NBU 921-35G1BS	
2. TYPE OF WORK DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>						3. FIELD OR WILDCAT NATURAL BUTTES	
4. TYPE OF WELL Gas Well Coalbed Methane Well: NO						5. UNIT or COMMUNITIZATION AGREEMENT NAME NATURAL BUTTES	
6. NAME OF OPERATOR KERR-MCGEE OIL & GAS ONSHORE, L.P.						7. OPERATOR PHONE 720 929-6007	
8. ADDRESS OF OPERATOR P.O. Box 173779, Denver, CO, 80217						9. OPERATOR E-MAIL Kathy.SchneebeckDulnoan@anadarko.com	
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) ML 22582			11. MINERAL OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>			12. SURFACE OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>	
13. NAME OF SURFACE OWNER (if box 12 = 'fee')						14. SURFACE OWNER PHONE (if box 12 = 'fee')	
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')						16. SURFACE OWNER E-MAIL (if box 12 = 'fee')	
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')			18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input checked="" type="checkbox"/> (Submit Commingling Application) NO <input type="checkbox"/>			19. SLANT VERTICAL <input type="checkbox"/> DIRECTIONAL <input checked="" type="checkbox"/> HORIZONTAL <input type="checkbox"/>	
20. LOCATION OF WELL	FOOTAGES		QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN
LOCATION AT SURFACE	2053 FNL 1633 FEL		SWNE	35	9.0 S	21.0 E	S
Top of Uppermost Producing Zone	1583 FNL 1819 FEL		SWNE	35	9.0 S	21.0 E	S
At Total Depth	1583 FNL 1819 FEL		SWNE	35	9.0 S	21.0 E	S
21. COUNTY UINTAH			22. DISTANCE TO NEAREST LEASE LINE (Feet) 1583			23. NUMBER OF ACRES IN DRILLING UNIT 321	
			25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 517			26. PROPOSED DEPTH MD: 9790 TVD: 9742	
27. ELEVATION - GROUND LEVEL 5120			28. BOND NUMBER 22013542			29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE Permit #43-8496	
ATTACHMENTS							
VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES							
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER				<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN			
<input type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)				<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER			
<input checked="" type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)				<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP			
NAME Danielle Piernot			TITLE Regulatory Analyst			PHONE 720 929-6156	
SIGNATURE			DATE 11/23/2010			EMAIL gnbregulatory@anadarko.com	
API NUMBER ASSIGNED 4304751360000			 Permit Manager				

Proposed Hole, Casing, and Cement						
String	Hole Size	Casing Size	Top (MD)	Bottom (MD)		
Prod	7.875	4.5	0	9790		
Pipe	Grade	Length	Weight			
	Grade I-80 Buttress	9790	11.6			

Proposed Hole, Casing, and Cement						
String	Hole Size	Casing Size	Top (MD)	Bottom (MD)		
Surf	11	8.625	0	2440		
Pipe	Grade	Length	Weight			
	Grade J-55 LT&C	2440	28.0			

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

NBU 921-35G1BS

Surface:	2053 FNL / 1633 FEL	SWNE
BHL:	1583 FNL / 1819 FEL	SWNE

Section 35 T9S R21E

Unitah County, Utah
Mineral Lease: ST UT ML 22582

ONSHORE ORDER NO. 1

DRILLING PROGRAM

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

<u>Formation</u>	<u>Depth</u>	<u>Resource</u>
Uinta	0 - Surface	
Green River	1504	
Birds Nest	1814	Water
Mahogany	2190	Water
Wasatch	4780	Gas
Mesaverde	7478	Gas
MVU2	8396	Gas
MVL1	8970	Gas
TVD	9742	
TD	9790	

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 9,742' TVD, approximately equals 5,968 psi (calculated at 0.61 psi/foot).

Maximum anticipated surface pressure equals approximately 3,825 psi (bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

8. Anticipated Starting Dates:

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

9. Variances:

Please refer to the attached Drilling Program.

Onshore Order #2 – Air Drilling Variance

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

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

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

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

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

Background

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

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

The air rig is then mobilized to drill the surface casing hole by drilling a 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 20

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 2,440	28.00	IJ-55	LTC	0.86	1.65	5.04
PRODUCTION	4-1/2"	0 to 9,698	11.60	I-80	BTC	2.00	1.05	2.81
	4-1/2"	9,698 to 9,790	11.60	HCP-110	BTC	10690	7580	367000
						2.72	1.25	3.70

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

D.F. = 2.21

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

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

MASP 3,825 psi

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

MABHP 5,968 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	1,940'	65/35 Poz + 6% Gel + 10 pps gilsonite + 0.25 pps Flocele + 3% salt BWOW	180	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	4,280'	Premium Lite II +0.25 pps celloflake + 5 pps gilsonite + 10% gel + 0.5% extender	310	10%	11.00	3.38
	TAIL	5,510'	50/50 Poz/G + 10% salt + 2% gel + 0.1% R-3	1,060	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.

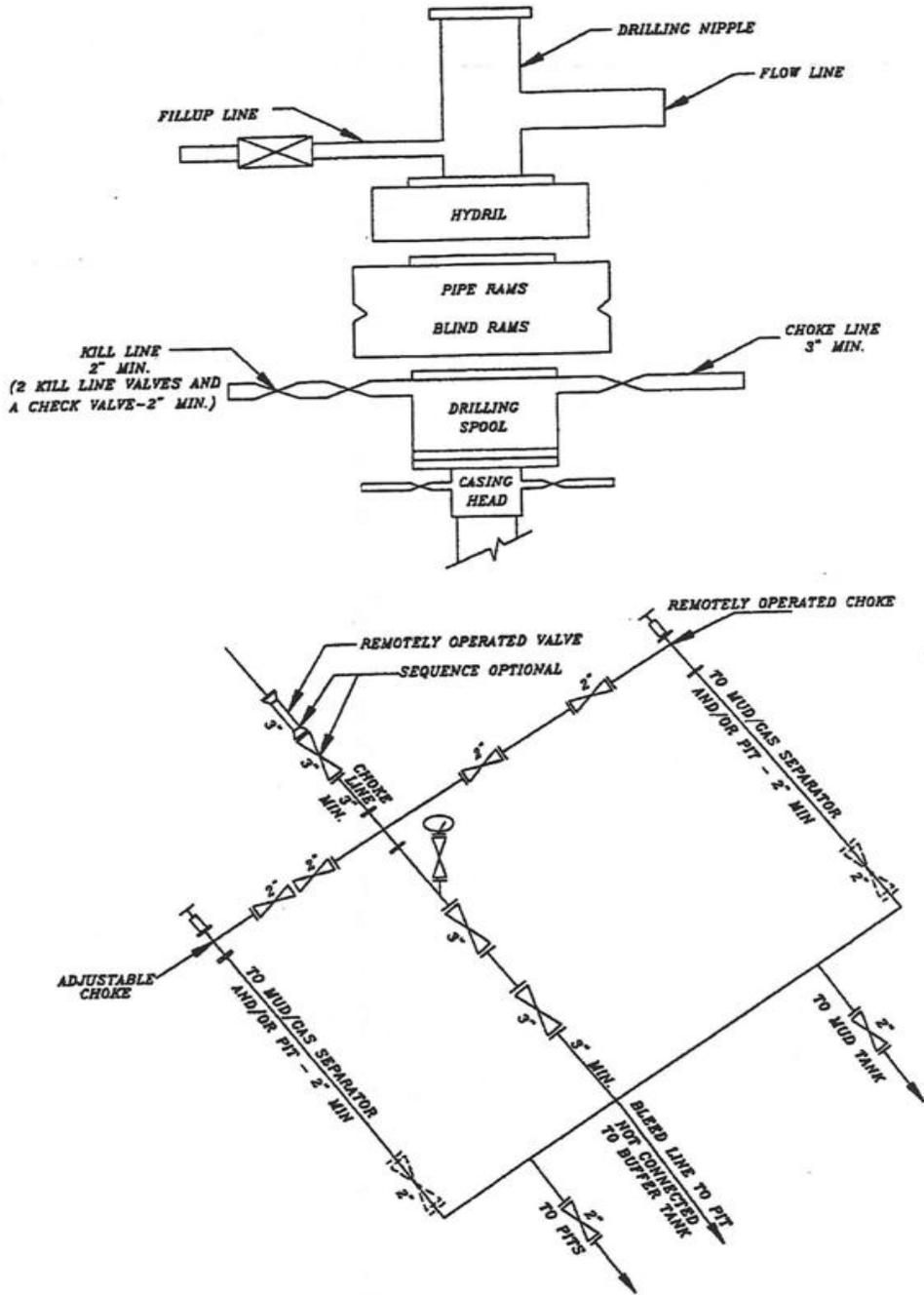
DRILLING ENGINEER: _____
 John Huycke / Emile Goodwin

DATE: _____

DRILLING SUPERINTENDENT: _____
 John Merkel / Lovel Young

DATE: _____

EXHIBIT A NBU 921-35G1BS



SCHEMATIC DIAGRAM OF 5,000 PSI BOP STACK

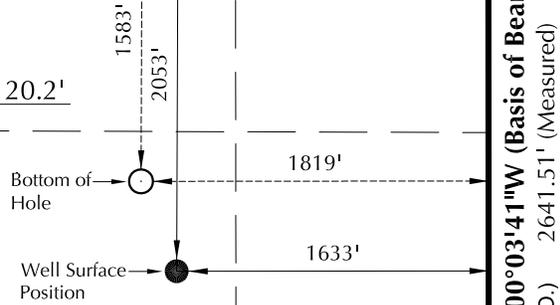
T9S, R21E, S.L.B.&M.

Found Uintah County Aluminum Cap in Pile of Stones.

WEST - 80.00 (G.L.O.)
 N89°47'37"W - 2646.18' (Meas.) N89°47'25"W - 2645.99' (Meas.)

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

WELL LOCATION:
NBU 921-35G1BS
 ELEV. UNGRADED GROUND = 5120.2'



N00°12'59"E
 2703.72' (Measured to C.C.) N00°03'W - 81.10 (G.L.O.)
 N00°21'17"W - 2645.28' (Meas.)
 2702.74' (Measured to True Corner)

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

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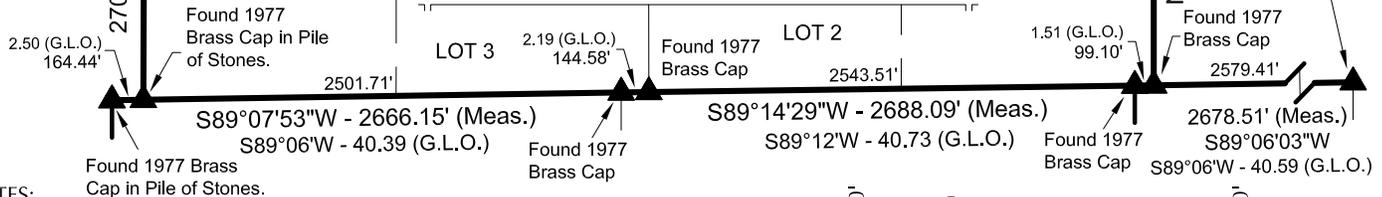
Found 1 1/2" Aluminum Cap on 5/8" Rebar in Pile of Stones.

N00°03'41"W (Basis of Bearings)
 2641.51' (Measured)
 N00°03'E - 79.80 (G.L.O.)

NBU 921-35G1BS (Surface Position)
 NAD 83 LATITUDE = 39.994124° (39° 59' 38.845")
 LONGITUDE = 109.515302° (109° 30' 55.087")
 NAD 27 LATITUDE = 39.994159° (39° 59' 38.971")
 LONGITUDE = 109.514615° (109° 30' 52.614")

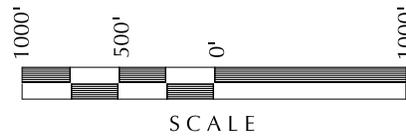
NBU 921-35G1BS (Bottom Hole)
 NAD 83 LATITUDE = 39.995415° (39° 59' 43.495")
 LONGITUDE = 109.515969° (109° 30' 57.487")
 NAD 27 LATITUDE = 39.995450° (39° 59' 43.622")
 LONGITUDE = 109.515282° (109° 30' 55.014")

Found 1977 Brass Cap in Pile of Stones.



NOTES:

- ▲ = Section Corners Located
- 1. Well footages are measured at right angles to the Section Lines.
- 2. G.L.O. distances are shown in feet or chains. 1 chain = 66 feet.
- 3. The Bottom of hole bears N21°37'20"W 506.46' from the Surface Position.
- 4. Bearings are based on Global Positioning Satellite observations.
- 5. Basis of elevation is Tri-Sta "Two Water" located in the NW 1/4 of Section 1, T10S, R21E, S.L.B.&M. The elevation of this Tri-Sta is shown on the Big Pack Mtn NE 7.5 Min. Quadrangle as being 5238'.



SURVEYOR'S CERTIFICATE

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

No. 6028691
 JOHN R. LAUGH
 PROFESSIONAL LAND SURVEYOR
 REGISTRATION No. 6028691
 STATE OF UTAH

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

WELL PAD: NBU 921-35G

NBU 921-35G1BS
WELL PLAT

1583' FNL, 1819' FEL (Bottom Hole)
SW 1/4 NE 1/4 OF SECTION 35, T9S, R21E, S.L.B.&M., UTAH COUNTY, UTAH.



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

TIMBERLINE

(435) 789-1365

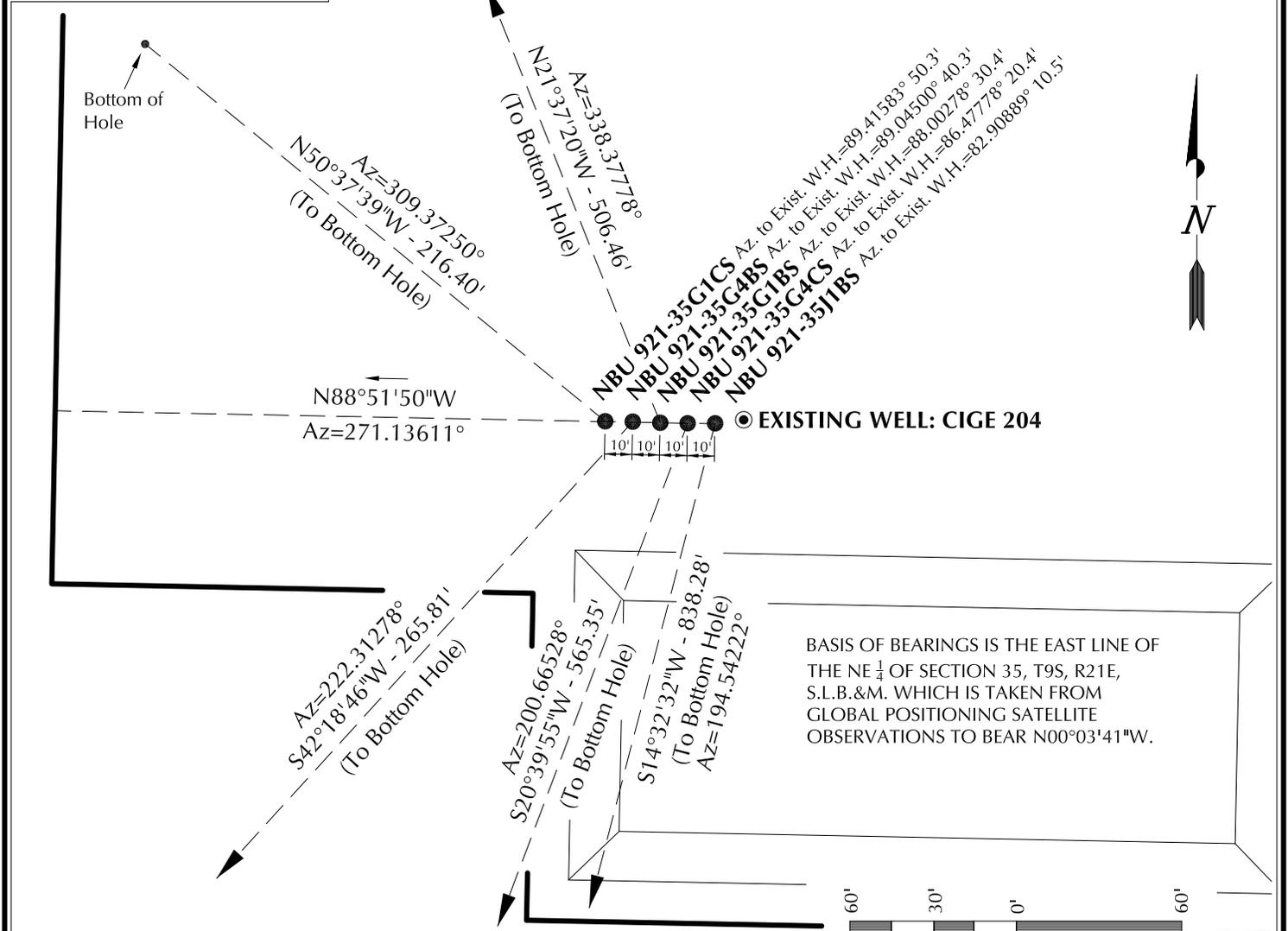
ENGINEERING & LAND SURVEYING, INC.
 209 NORTH 300 WEST - VERNAL, UTAH 84078

DATE SURVEYED: 09-29-10	SURVEYED BY: M.S.B.	SHEET NO: 3
DATE DRAWN: 10-05-10	DRAWN BY: M.W.W.	
SCALE: 1" = 1000'	Date Last Revised:	3 OF 17

WELL NAME	SURFACE POSITION					BOTTOM HOLE				
	NAD83		NAD27		FOOTAGES	NAD83		NAD27		FOOTAGES
	LATITUDE	LONGITUDE	LATITUDE	LONGITUDE		LATITUDE	LONGITUDE	LATITUDE	LONGITUDE	
NBU 921-35G1CS	39°59'38.850"	109°30'55.343"	39°59'38.976"	109°30'52.870"	2053' FNL 1653' FEL	39°59'40.205"	109°30'57.493"	39°59'40.332"	109°30'55.020"	1916' FNL 1820' FEL
NBU 921-35G4BS	39°59'38.849"	109°30'55.215"	39°59'38.975"	109°30'52.742"	2053' FNL 1643' FEL	39°59'36.906"	109°30'57.512"	39°59'37.032"	109°30'55.039"	2250' FNL 1822' FEL
NBU 921-35G1BS	39°59'38.845"	109°30'55.087"	39°59'38.971"	109°30'52.614"	2053' FNL 1633' FEL	39°59'43.495"	109°30'57.487"	39°59'43.622"	109°30'55.014"	1583' FNL 1819' FEL
NBU 921-35G4CS	39°59'38.843"	109°30'54.959"	39°59'38.969"	109°30'52.486"	2053' FNL 1623' FEL	39°59'33.616"	109°30'57.518"	39°59'33.742"	109°30'55.044"	2583' FNL 1823' FEL
NBU 921-35J1BS	39°59'38.843"	109°30'54.830"	39°59'38.969"	109°30'52.357"	2053' FNL 1613' FEL	39°59'30.825"	109°30'57.528"	39°59'30.951"	109°30'55.055"	2419' FSL 1824' FEL
CIGE 204	39°59'38.855"	109°30'54.697"	39°59'38.982"	109°30'52.224"	2052' FNL 1603' FEL	39°59'38.855"	109°30'54.697"	39°59'38.982"	109°30'52.224"	

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 921-35G1CS	137.3'	-167.3'	NBU 921-35G4BS	-196.6'	-178.9'	NBU 921-35G1BS	470.8'	-186.6'	NBU 921-35G4CS	-529.0'	-199.5'
NBU 921-35J1BS	-811.4'	-210.5'									



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

WELL PAD - NBU 921-35G

WELL PAD INTERFERENCE PLAT
WELLS - NBU 921-35G1CS,
NBU 921-35G4BS, NBU 921-35G1BS,
NBU 921-35G4CS & NBU 921-35J1BS
LOCATED IN SECTION 35, T9S, R21E,
S.L.B.&M., UINTAH COUNTY, UTAH.



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2155 North Main Street
Sheridan WY 82801
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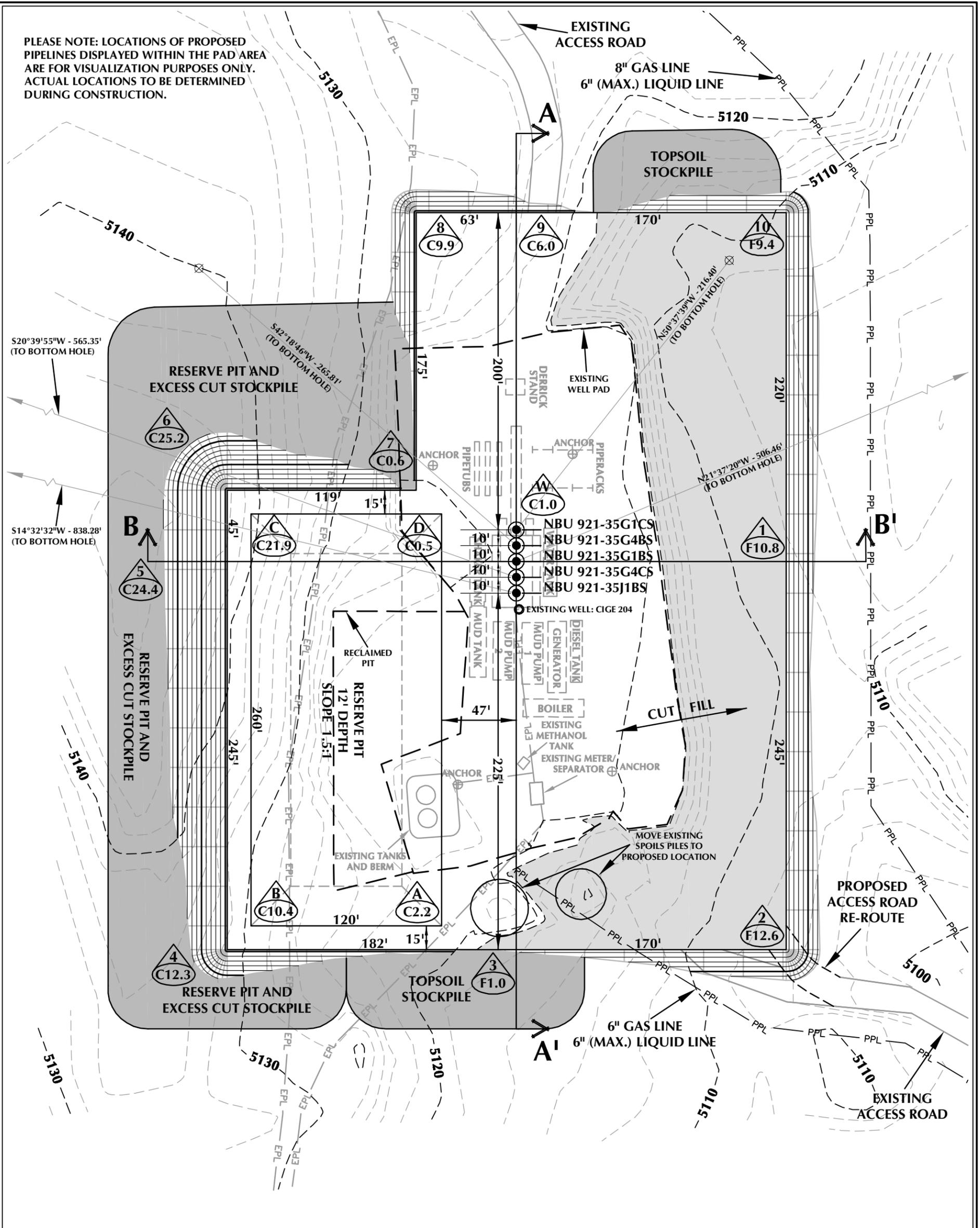
TIMBERLINE

(435) 789-1365

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

DATE SURVEYED: 09-29-10	SURVEYED BY: M.S.B.	SHEET NO: 6 6 OF 17
DATE DRAWN: 10-05-10	DRAWN BY: M.W.W.	
SCALE: 1" = 60'	Date Last Revised:	

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



WELL PAD - NBU 921-35G DESIGN SUMMARY

EXISTING GRADE @ CENTER OF WELL PAD = 5120.2'
 FINISHED GRADE ELEVATION = 5119.2'
 CUT SLOPES = 1.5:1
 FILL SLOPES = 1.5:1
 TOTAL WELL PAD AREA = 3.96 ACRES
 TOTAL DAMAGE AREA = 6.38 ACRES
 SHRINKAGE FACTOR = 1.10
 SWELL FACTOR = 1.00

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

WELL PAD - NBU 921-35G

WELL PAD - LOCATION LAYOUT
 NBU 921-35G1CS,
 NBU 921-35G4BS, NBU 921-35G1BS,
 NBU 921-35G4CS & NBU 921-35J1BS
 LOCATED IN SECTION 35, T9S, R21E,
 S.L.B.&M., UTAH COUNTY, UTAH



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

WELL PAD QUANTITIES

TOTAL CUT FOR WELL PAD = 18,871 C.Y.
 TOTAL FILL FOR WELL PAD = 18,234 C.Y.
 TOPSOIL @ 6" DEPTH = 2,311 C.Y.
 EXCESS MATERIAL = 637 C.Y.

RESERVE PIT QUANTITIES

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

WELL PAD LEGEND

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

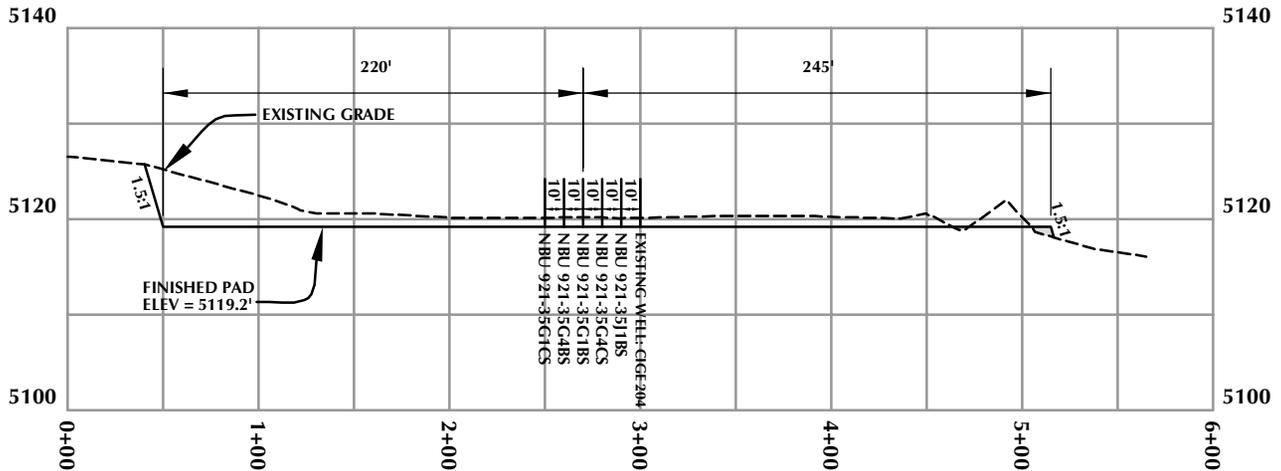


HORIZONTAL 0 30 60 1" = 60'
 2' CONTOURS

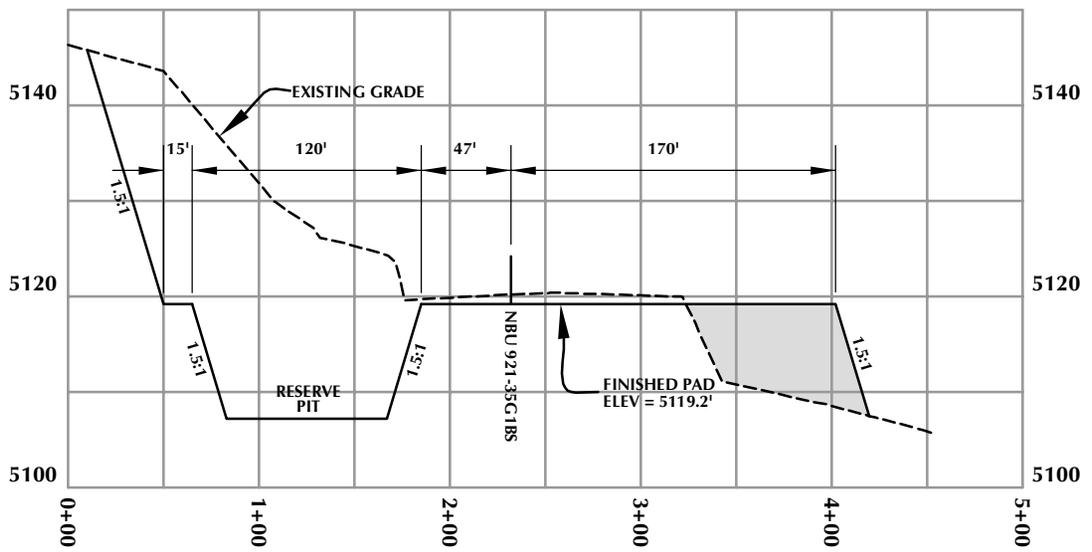
TIMBERLINE ENGINEERING & LAND SURVEYING, INC.
 209 NORTH 300 WEST - VERNAL, UTAH 84078
 (435) 789-1365

Scale: 1"=60' Date: 10/19/10 SHEET NO:
 REVISED: GRB 12/9/10 **7** 7 OF 17

I:\ANACARDIO\2010_53_NBU_FODIS_SEC_921-35\DWG\NBU_921-35G_20100803.dwg, 12/6/2010 8:55:55 AM, jpk



CROSS SECTION A-A'



CROSS SECTION B-B'

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

WELL PAD - NBU 921-35G

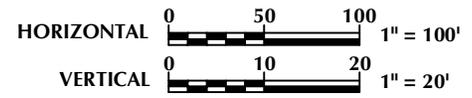
WELL PAD - CROSS SECTIONS
NBU 921-35G1CS,
NBU 921-35G4BS, NBU 921-35G1BS,
NBU 921-35G4CS & NBU 921-35J1BS
LOCATED IN SECTION 35, T9S, R21E,
S.L.B.&M., UINTAH COUNTY, UTAH



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

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

(435) 789-1365

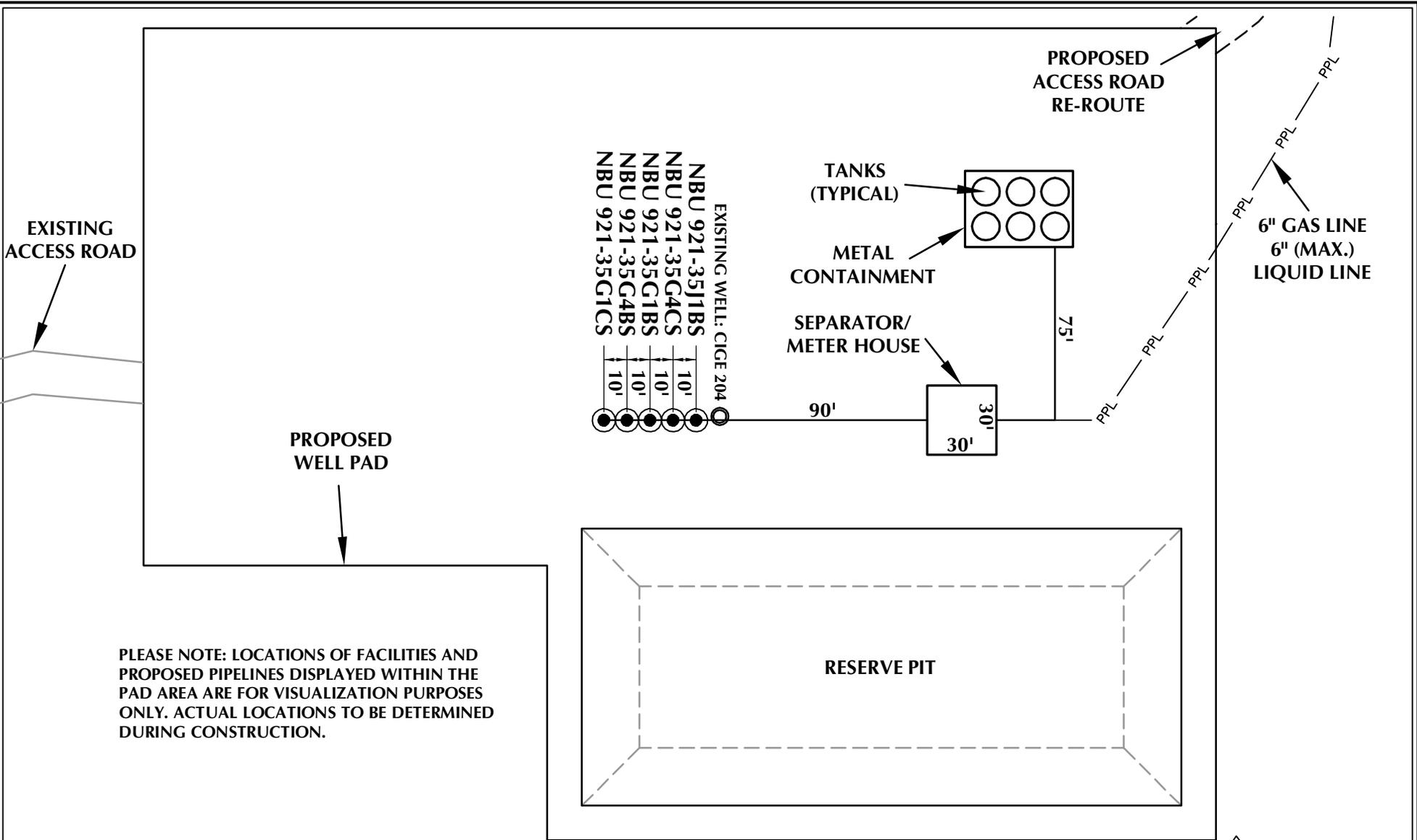


Scale: 1"=100' Date: 10/15/10
REVISED:

SHEET NO:
8
8 OF 17

'APIWellNo:43047513600000'
 K:\ANADARKO\2010_53_NBU_FOCUS_SEC_921-35\DWG\NBU 921-35G\NBU 921-35G1BS.dwg, 10/14/2010 4:17:05 PM

'APIWellNo:43047513600000'
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Kerr-McGee Oil & Gas Onshore, LP
 1099 18th Street - Denver, Colorado 80202

WELL PAD - NBU 921-35G

WELL PAD - FACILITIES DIAGRAM

NBU 921-35G1CS,
NBU 921-35G4BS, NBU 921-35G1BS,
NBU 921-35G4CS & NBU 921-35J1BS
LOCATED IN SECTION 35, T9S, R21E,
S.L.B.&M., UINTAH COUNTY, UTAH



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 Sheridan, WY 82801
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WELL PAD LEGEND

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



HORIZONTAL 0 30' 60' 1" = 60'

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

(435) 789-1365

Scale: 1"=60'

Date: 10/19/10

SHEET NO:

REVISED:

TAR
 12/9/10

9

9 OF 17

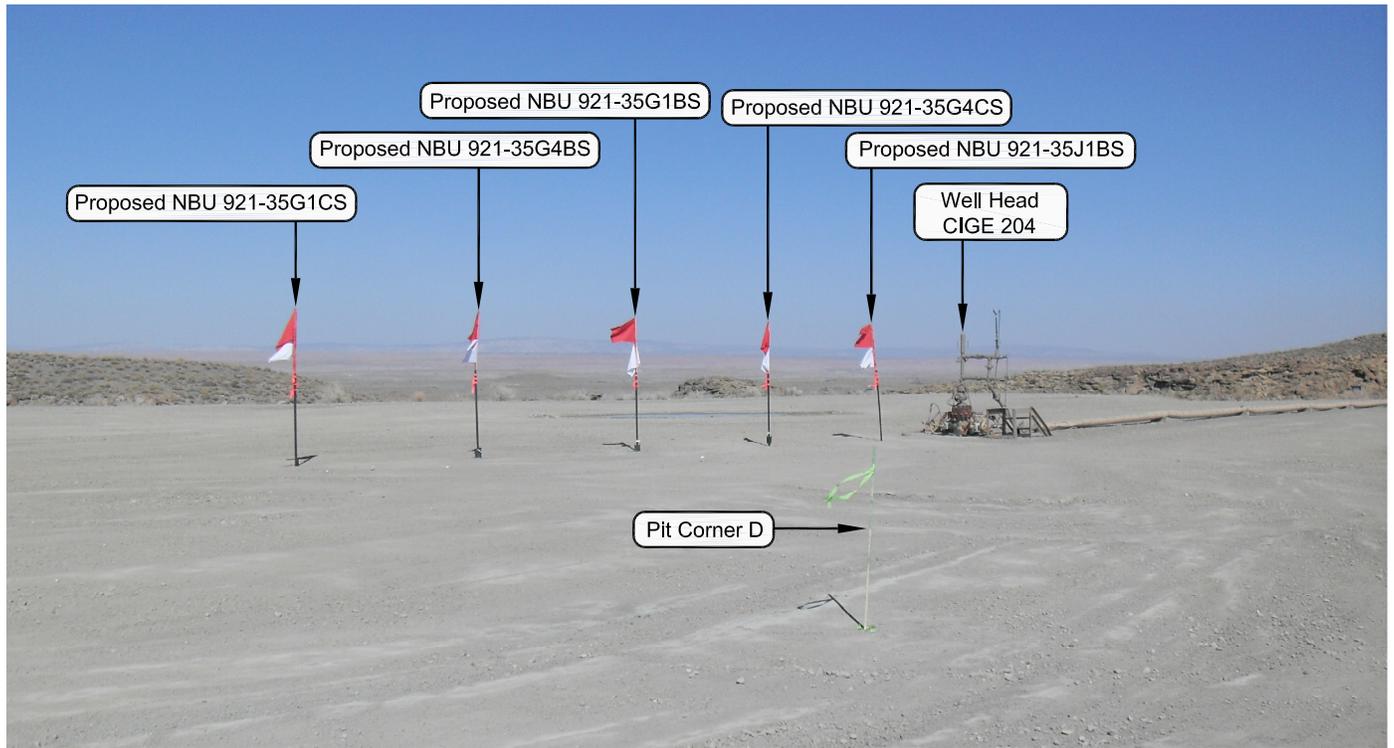


PHOTO VIEW: FROM PIT CORNER D TO LOCATION STAKE

CAMERA ANGLE: NORTHEASTERLY



PHOTO VIEW: FROM EXISTING ACCESS ROAD

CAMERA ANGLE: EASTERLY

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

WELL PAD - NBU 921-35G

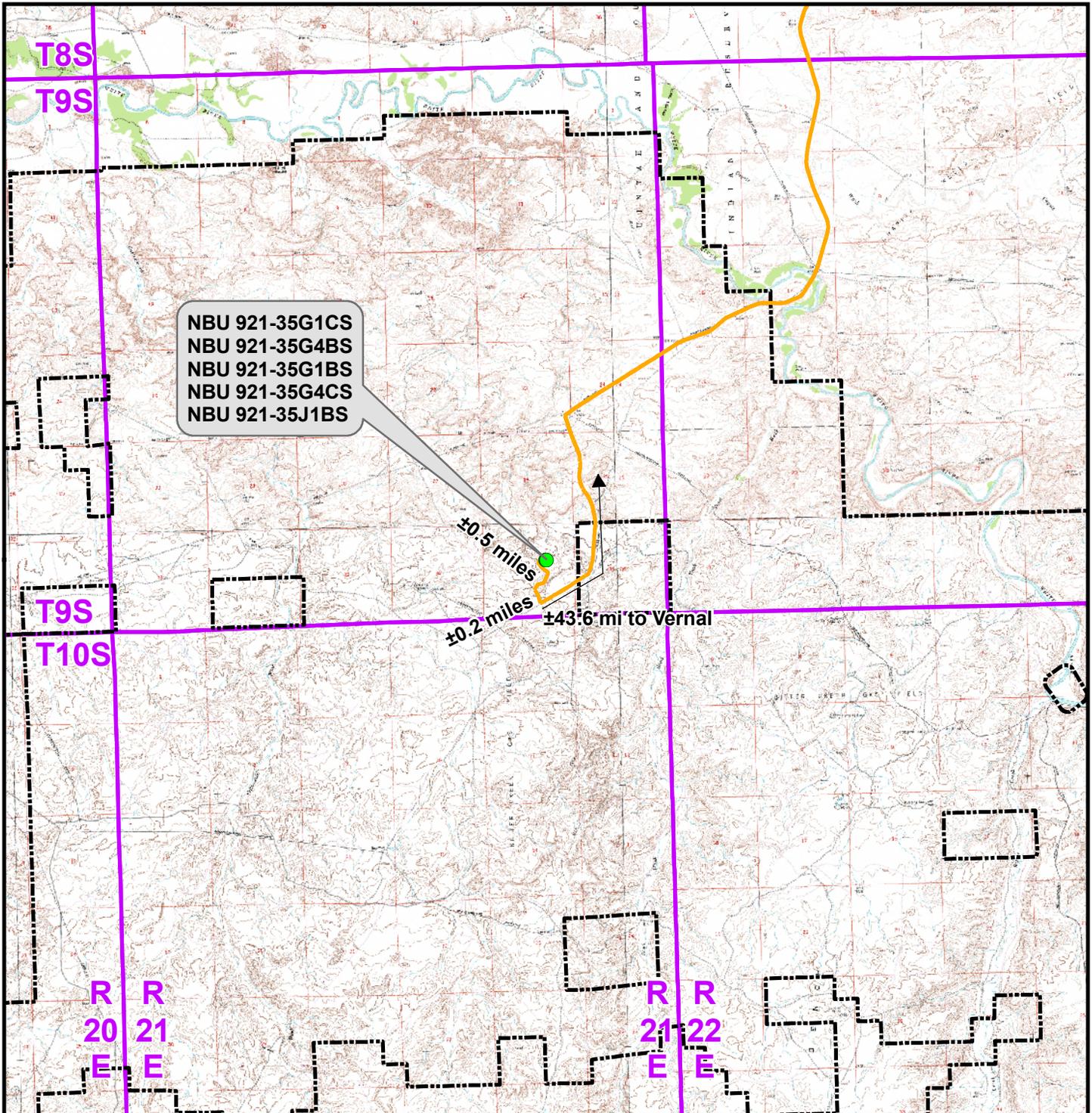
LOCATION PHOTOS
 NBU 921-35G1CS,
 NBU 921-35G4BS, NBU 921-35G1BS,
 NBU 921-35G4CS & NBU 921-35J1BS
 LOCATED IN SECTION 35, T9S, R21E,
 S.L.B.&M., Uintah County, Utah.



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 Phone 307-674-0609
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TIMBERLINE (435) 789-1365
 ENGINEERING & LAND SURVEYING, INC.
 209 NORTH 300 WEST - VERNAL, UTAH 84078

DATE PHOTOS TAKEN: 09-29-10	PHOTOS TAKEN BY: M.S.B.	SHEET NO: 10
DATE DRAWN: 10-05-10	DRAWN BY: M.W.W.	
Date Last Revised:		10 OF 17



Legend

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

Distance From Well Pad - NBU 921-35G To Unit Boundary: ±1,613ft

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

WELL PAD - NBU 921-35G

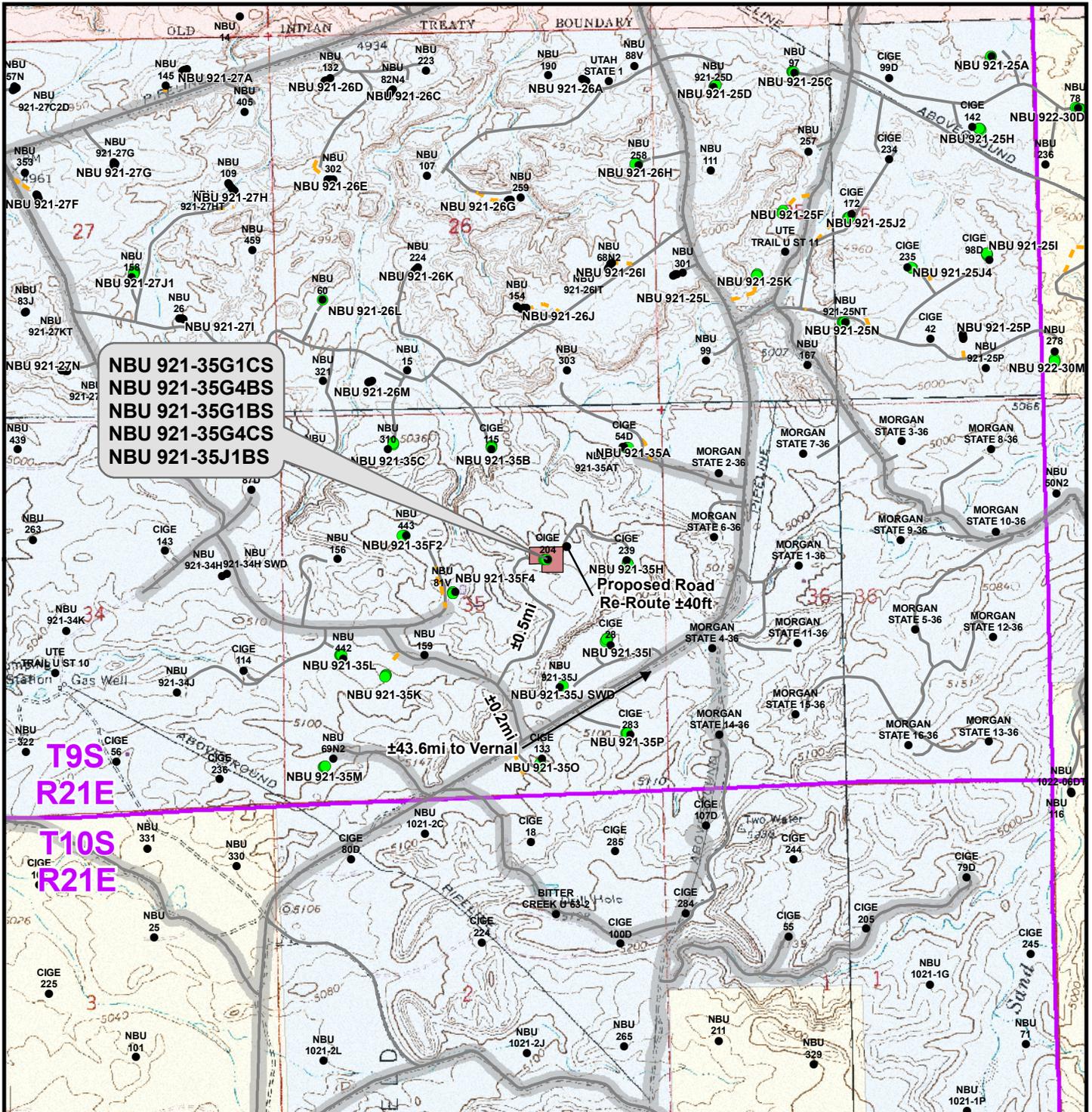
TOPO A
 NBU 921-35G1CS,
 NBU 921-35G4BS, NBU 921-35G1BS,
 NBU 921-35G4CS & NBU 921-35J1BS
 LOCATED IN SECTION 35, T9S, R21E,
 S.L.B.&M., UINTAH COUNTY, UTAH



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



Scale: 1:100,000	NAD83 USP Central	Sheet No:
Drawn: CPS	Date: 19 Oct 2010	11
Revised:	Date:	



Legend

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

Total Proposed Road Re-Route Length: ±40ft

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

WELL PAD - NBU 921-35G

TOPO B
NBU 921-35G1CS,
NBU 921-35G4BS, NBU 921-35G1BS,
NBU 921-35G4CS & NBU 921-35J1BS
LOCATED IN SECTION 35, T9S, R21E,
S.L.B.&M., UTAH COUNTY, UTAH

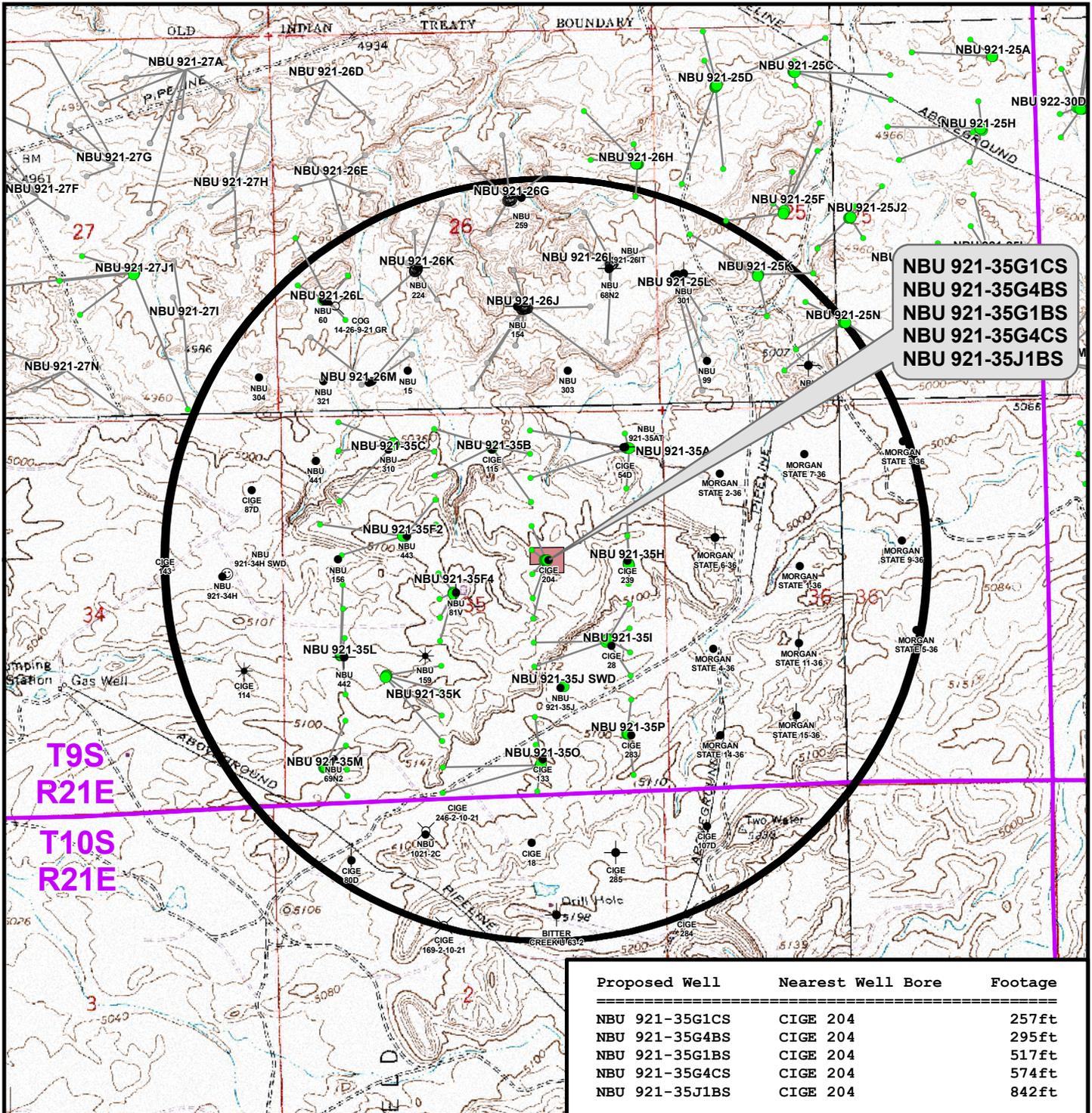


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Sheridan, WY 82801
Phone (307) 674-0609
Fax (307) 674-0182



Scale: 1" = 2,000ft	NAD83 USP Central
Drawn: KGS	Date: 19 Oct 2010
Revised: TL	Date: 9 Dec 2010

Sheet No:
12 12 of 17



NBU 921-35G1CS
 NBU 921-35G4BS
 NBU 921-35G1BS
 NBU 921-35G4CS
 NBU 921-35J1BS

Proposed Well	Nearest Well Bore	Footage
NBU 921-35G1CS	CIGE 204	257ft
NBU 921-35G4BS	CIGE 204	295ft
NBU 921-35G1BS	CIGE 204	517ft
NBU 921-35G4CS	CIGE 204	574ft
NBU 921-35J1BS	CIGE 204	842ft

Legend

- Well - Proposed
- Bottom Hole - Proposed
- Well Pad
- Well Path
- Bottom Hole - Existing
- Well - 1 Mile Radius

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

- 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)

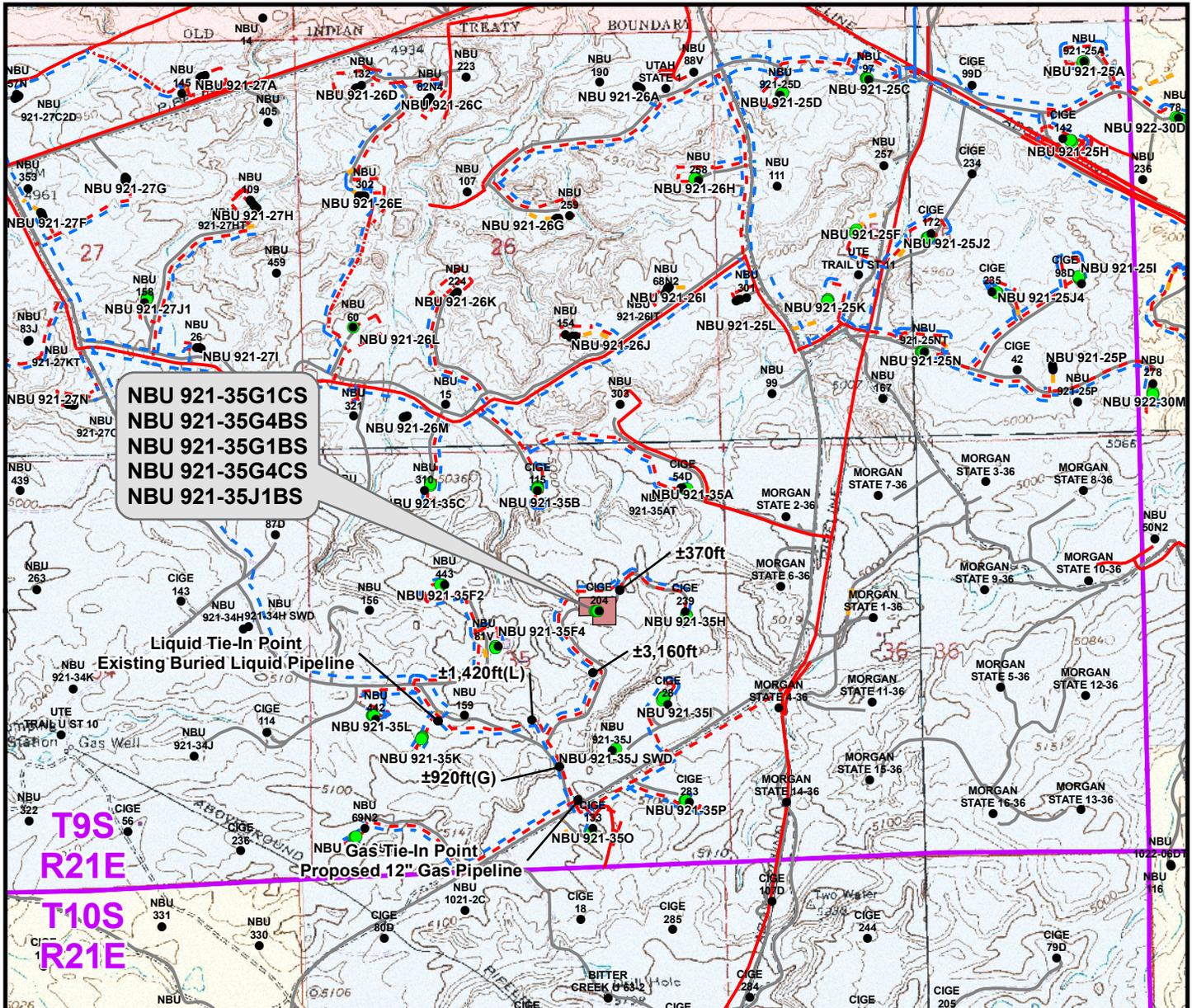
Kerr-McGee Oil & Gas Onshore, LP
 1099 18th Street, Denver, Colorado 80202

WELL PAD - NBU 921-35G

TOPO C
 NBU 921-35G1CS,
 NBU 921-35G4BS, NBU 921-35G1BS,
 NBU 921-35G4CS & NBU 921-35J1BS
 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: CPS	Date: 19 Oct 2010	13
Revised: TL	Date: 9 Dec 2010	



**NBU 921-35G1CS
NBU 921-35G4BS
NBU 921-35G1BS
NBU 921-35G4CS
NBU 921-35J1BS**

Proposed Liquid Pipeline	Length
Proposed 6" (Max.) (Meter House to Edge of Pad)	±150ft
Proposed 6" (Max.) (Edge of Pad to 35H Intersection)	±370ft
Proposed 6" (Max.) (35H Intersection to 35M Intersection)	±3,160ft
Proposed 6" (Max.) (35M Intersection to Existing Buried Pipeline)	±1,420ft
TOTAL PROPOSED LIQUID PIPELINE =	±5,100ft

Proposed Gas Pipeline	Length
Proposed 6" (Meter House to Edge of Pad)	±150ft
Proposed 6" (Edge of Pad to 35H Intersection)	±370ft
Proposed 8" (35H Intersection to 35K Intersection)	±3,160ft
Proposed 12" (35K Intersection to 35M Intersection)	±920ft
TOTAL PROPOSED GAS PIPELINE =	±4,600ft

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 921-35G

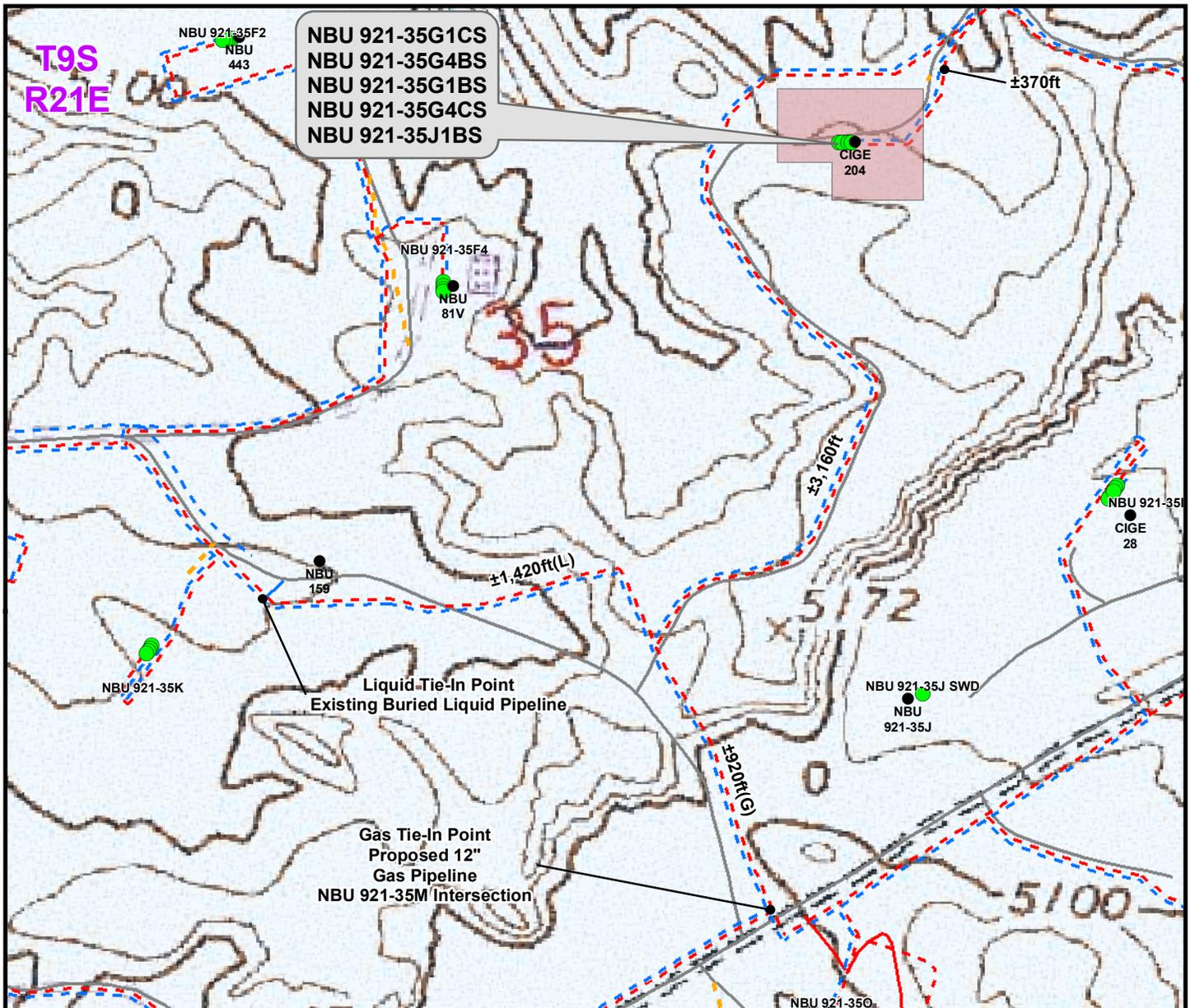
TOPO D
NBU 921-35G1CS,
NBU 921-35G4BS, NBU 921-35G1BS,
NBU 921-35G4CS & NBU 921-35J1BS
LOCATED IN SECTION 35, T9S, R21E,
S.L.B.&M., UINTAH COUNTY, UTAH

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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: CPS	Date: 19 Oct 2010	14
Revised: TL	Date: 9 Dec 2010	

14 of 17



Proposed Liquid Pipeline	Length
Proposed 6" (Max.) (Meter House to Edge of Pad)	±150ft
Proposed 6" (Max.) (Edge of Pad to 35H Intersection)	±370ft
Proposed 6" (Max.) (35H Intersection to 35M Intersection)	±3,160ft
Proposed 6" (Max.) (35M Intersection to Existing Buried Pipeline)	±1,420ft
TOTAL PROPOSED LIQUID PIPELINE =	±5,100ft

Proposed Gas Pipeline	Length
Proposed 6" (Meter House to Edge of Pad)	±150ft
Proposed 6" (Edge of Pad to 35H Intersection)	±370ft
Proposed 8" (35H Intersection to 35K Intersection)	±3,160ft
Proposed 12" (35K Intersection to 35M Intersection)	±920ft
TOTAL PROPOSED GAS PIPELINE =	±4,600ft

- 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

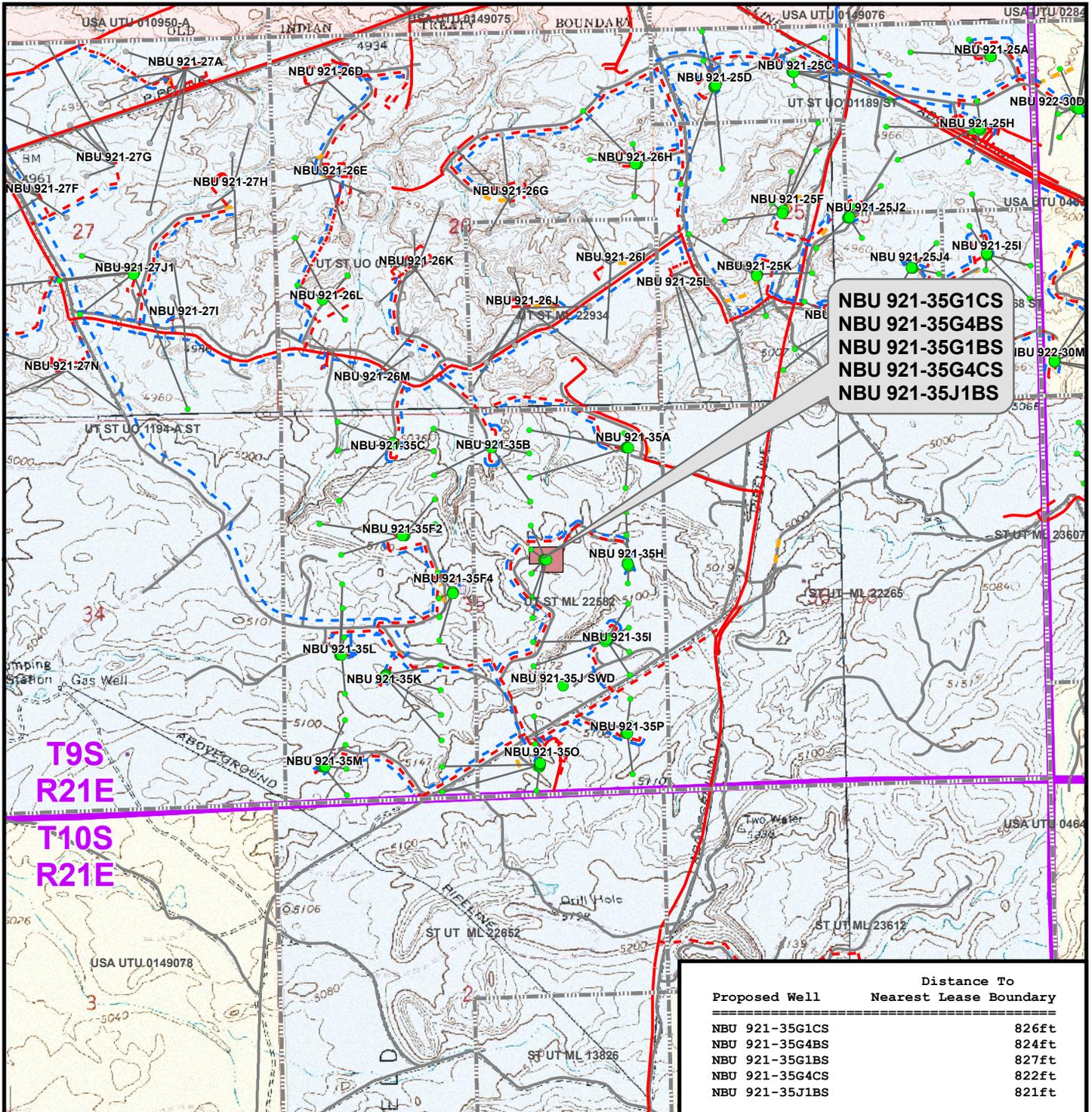
Kerr-McGee Oil & Gas Onshore, LP
 1099 18th Street, Denver, Colorado 80202

WELL PAD - NBU 921-35G

TOPO D2 (PAD & PIPELINE DETAIL)
 NBU 921-35G1CS,
 NBU 921-35G4BS, NBU 921-35G1BS,
 NBU 921-35G4CS & NBU 921-35J1BS
 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" = 500ft	NAD83 USP Central	Sheet No:
Drawn: CPS	Date: 19 Oct 2010	15
Revised: TL	Date: 9 Dec 2010	



Legend

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

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

WELL PAD - NBU 921-35G

TOPO E
 NBU 921-35G1CS,
 NBU 921-35G4BS, NBU 921-35G1BS,
 NBU 921-35G4CS & NBU 921-35J1BS
 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

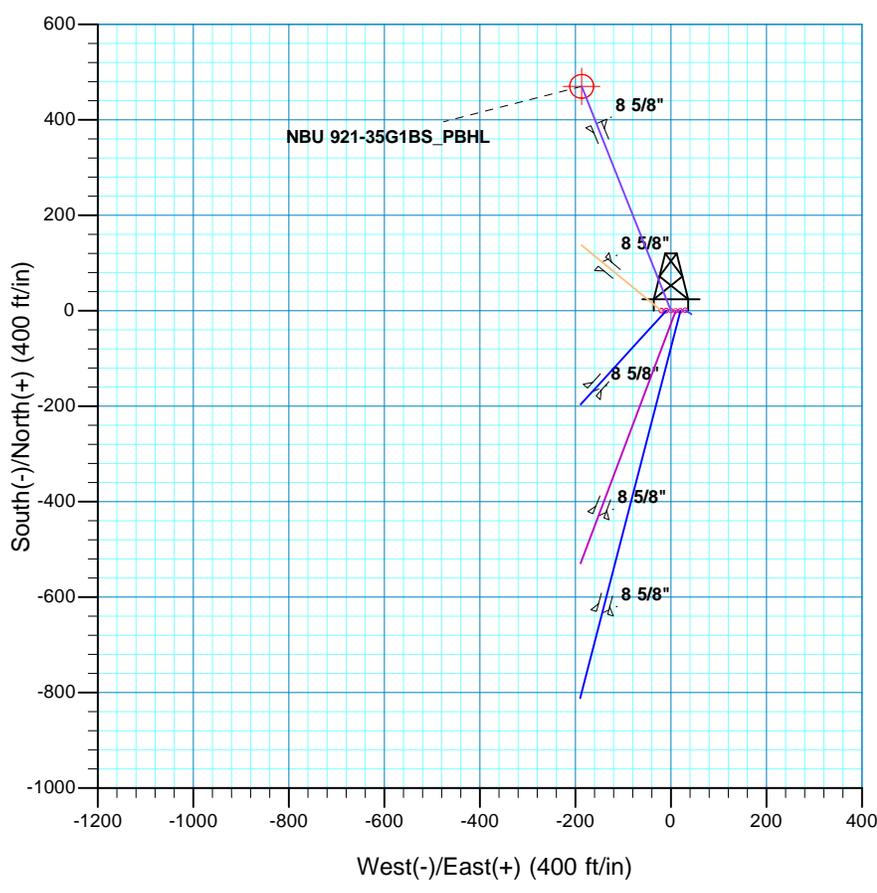
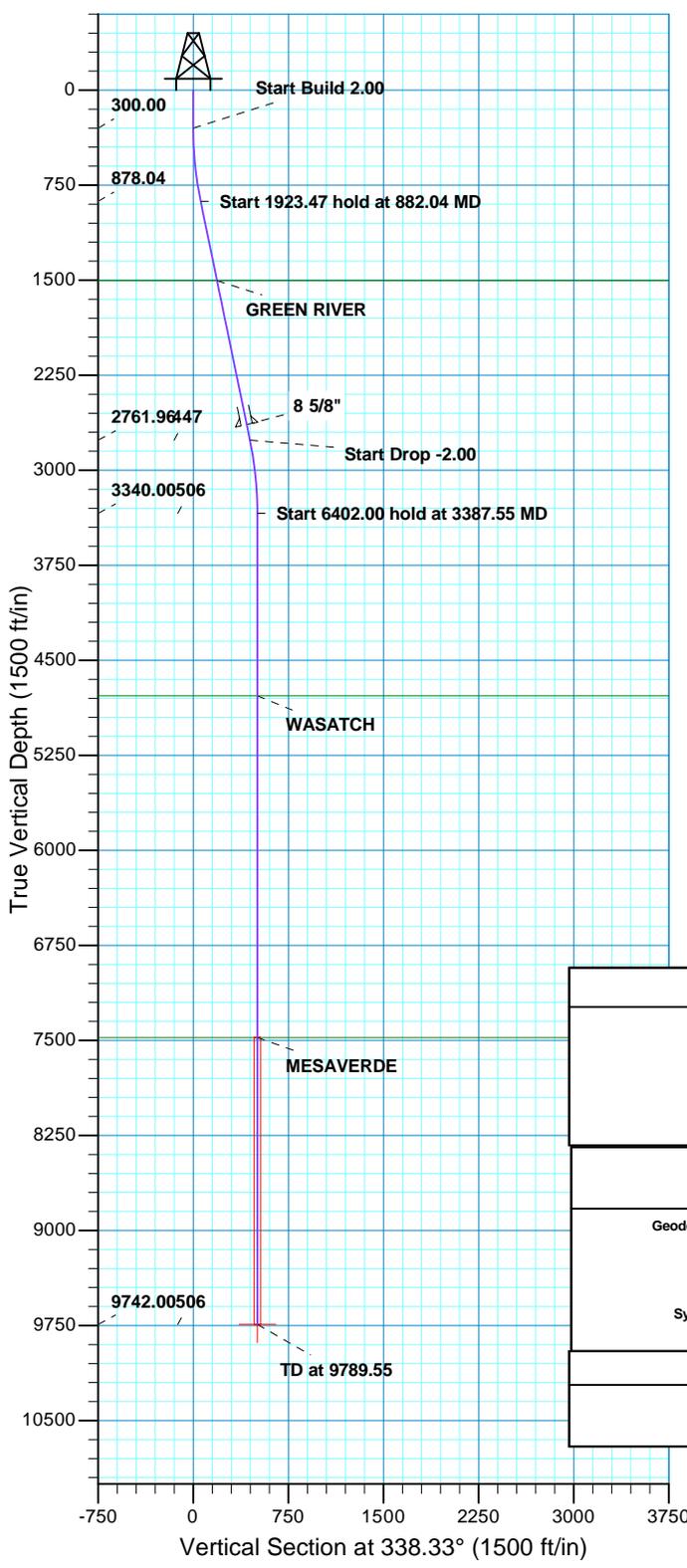
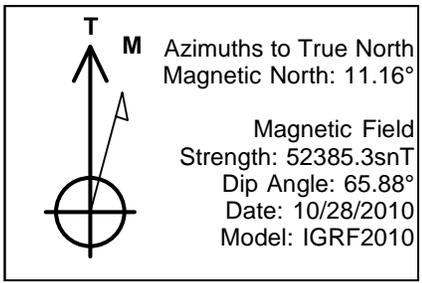
Scale: 1" = 2,000ft	NAD83 USP Central	Sheet No:
Drawn: CPS	Date: 19 Oct 2010	16 16 of 17
Revised: TL	Date: 9 Dec 2010	

**Kerr-McGee Oil & Gas Onshore, LP
WELL PAD – NBU 921-35G
WELLS – NBU 921-35G1CS, NBU 921-35G4BS,
NBU 921-35G1BS, NBU 921-35G4CS & NBU 921-35J1BS
Section 35, T9S, R21E, S.L.B.&M.**

From the intersection of U.S. Highway 40 and 500 East Street in Vernal, Utah, proceed in an easterly then southerly direction along U.S. Highway 40 approximately 3.3 miles to the junction of State Highway 45. Exit right and proceed in a southerly direction along State Highway 45 approximately 20.2 miles to the junction of the Glen Bench Road (County B Road 3260). Exit right and proceed in a southwesterly direction along the Glen Bench Road approximately 20.1 miles to a Class D County Road to the northwest. Exit right and proceed in a northwesterly direction along the Class D County Road approximately 0.2 miles to a service road to the northeast. Exit right and proceed in a northeasterly direction along the service road approximately 0.5 miles to the proposed well pad.

Total distance from Vernal, Utah to the proposed well location is approximately 44.3 miles in a southerly direction.

WELL DETAILS: NBU 921-35G1BS						
GL 5119' & KB 14' @ 5133.00ft (ASSUMED)						
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	
0.00	0.00	14527383.94	2056454.72	39° 59' 38.972 N	109° 30' 52.614 W	
DESIGN TARGET DETAILS						
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude Longitude Shape
PBHL	9742.00	470.19	-186.85	14527850.95	2056260.06	39° 59' 43.620 N 109° 30' 55.015 W Circle (Radius: 25.00)
- plan hits target center						



SECTION DETAILS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	
882.04	11.64	338.33	878.04	54.76	-21.76	2.00	338.33	58.92	
2805.51	11.64	338.33	2761.96	415.43	-165.09	0.00	0.00	447.03	
3387.55	0.00	0.00	3340.00	470.19	-186.85	2.00	180.00	505.96	
9789.55	0.00	0.00	9742.00	470.19	-186.85	0.00	0.00	505.96	NBU 921-35G1BS_PBHL
PROJECT DETAILS: Uintah County, UT UTM12					FORMATION TOP DETAILS				
Geodetic System: Universal Transverse Mercator (US Survey Feet)					TVDPath	MDPath	Formation		
Datum: NAD 1927 - Western US					1504.00	1521.14	GREEN RIVER		
Ellipsoid: Clarke 1866					4780.00	4827.55	WASATCH		
Zone: Zone 12N (114 W to 108 W)					7478.00	7525.55	MESAVERDE		
Location: SEC 35 T9S R21E									
System Datum: Mean Sea Level									
CASING DETAILS									
	TVD	MD	Name	Size					
	2640.00	2681.00	8 5/8"	8.625					



Scientific Drilling
Rocky Mountain Operations

Kerr McGee Oil and Gas Onshore LP

**Uintah County, UT UTM12
NBU 921-35G Pad
NBU 921-35G1BS**

OH

Plan: PLAN #1

Standard Planning Report

28 October, 2010

Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 921-35G1BS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 5119' & KB 14' @ 5133.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 5119' & KB 14' @ 5133.00ft (ASSUMED)
Site:	NBU 921-35G Pad	North Reference:	True
Well:	NBU 921-35G1BS	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 921-35G Pad, SEC 35 T9S R21E				
Site Position:		Northing:	14,527,383.91 usft	Latitude:	39° 59' 38.969 N
From:	Lat/Long	Easting:	2,056,474.61 usft	Longitude:	109° 30' 52.358 W
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence:	0.95 °

Well	NBU 921-35G1BS, 2053' FNL 1633' FEL					
Well Position	+N/-S	0.36 ft	Northing:	14,527,383.94 usft	Latitude:	39° 59' 38.972 N
	+E/-W	-19.89 ft	Easting:	2,056,454.71 usft	Longitude:	109° 30' 52.614 W
Position Uncertainty		0.00 ft	Wellhead Elevation:		Ground Level:	5,119.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	10/28/2010	11.16	65.88	52,385

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	338.33

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	
882.04	11.64	338.33	878.04	54.76	-21.76	2.00	2.00	0.00	338.33	
2,805.51	11.64	338.33	2,761.96	415.43	-165.09	0.00	0.00	0.00	0.00	
3,387.55	0.00	0.00	3,340.00	470.19	-186.85	2.00	-2.00	0.00	180.00	
9,789.55	0.00	0.00	9,742.00	470.19	-186.85	0.00	0.00	0.00	0.00	NBU 921-35G1BS_PI

Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 921-35G1BS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 5119' & KB 14' @ 5133.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 5119' & KB 14' @ 5133.00ft (ASSUMED)
Site:	NBU 921-35G Pad	North Reference:	True
Well:	NBU 921-35G1BS	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	338.33	399.98	1.62	-0.64	1.75	2.00	2.00	0.00	
500.00	4.00	338.33	499.84	6.49	-2.58	6.98	2.00	2.00	0.00	
600.00	6.00	338.33	599.45	14.58	-5.80	15.69	2.00	2.00	0.00	
700.00	8.00	338.33	698.70	25.91	-10.30	27.88	2.00	2.00	0.00	
800.00	10.00	338.33	797.47	40.45	-16.07	43.52	2.00	2.00	0.00	
882.04	11.64	338.33	878.04	54.76	-21.76	58.92	2.00	2.00	0.00	
Start 1923.47 hold at 882.04 MD										
900.00	11.64	338.33	895.63	58.13	-23.10	62.55	0.00	0.00	0.00	
1,000.00	11.64	338.33	993.58	76.88	-30.55	82.72	0.00	0.00	0.00	
1,100.00	11.64	338.33	1,091.52	95.63	-38.00	102.90	0.00	0.00	0.00	
1,200.00	11.64	338.33	1,189.46	114.38	-45.45	123.08	0.00	0.00	0.00	
1,300.00	11.64	338.33	1,287.41	133.13	-52.90	143.26	0.00	0.00	0.00	
1,400.00	11.64	338.33	1,385.35	151.88	-60.36	163.44	0.00	0.00	0.00	
1,500.00	11.64	338.33	1,483.29	170.63	-67.81	183.61	0.00	0.00	0.00	
1,521.14	11.64	338.33	1,504.00	174.60	-69.38	187.88	0.00	0.00	0.00	
GREEN RIVER										
1,600.00	11.64	338.33	1,581.24	189.38	-75.26	203.79	0.00	0.00	0.00	
1,700.00	11.64	338.33	1,679.18	208.14	-82.71	223.97	0.00	0.00	0.00	
1,800.00	11.64	338.33	1,777.12	226.89	-90.16	244.15	0.00	0.00	0.00	
1,900.00	11.64	338.33	1,875.07	245.64	-97.61	264.32	0.00	0.00	0.00	
2,000.00	11.64	338.33	1,973.01	264.39	-105.07	284.50	0.00	0.00	0.00	
2,100.00	11.64	338.33	2,070.95	283.14	-112.52	304.68	0.00	0.00	0.00	
2,200.00	11.64	338.33	2,168.90	301.89	-119.97	324.86	0.00	0.00	0.00	
2,300.00	11.64	338.33	2,266.84	320.64	-127.42	345.03	0.00	0.00	0.00	
2,400.00	11.64	338.33	2,364.78	339.39	-134.87	365.21	0.00	0.00	0.00	
2,500.00	11.64	338.33	2,462.73	358.15	-142.32	385.39	0.00	0.00	0.00	
2,600.00	11.64	338.33	2,560.67	376.90	-149.77	405.57	0.00	0.00	0.00	
2,681.00	11.64	338.33	2,640.00	392.08	-155.81	421.91	0.00	0.00	0.00	
8 5/8"										
2,700.00	11.64	338.33	2,658.61	395.65	-157.23	425.74	0.00	0.00	0.00	
2,800.00	11.64	338.33	2,756.56	414.40	-164.68	445.92	0.00	0.00	0.00	
2,805.51	11.64	338.33	2,761.96	415.43	-165.09	447.03	0.00	0.00	0.00	
Start Drop -2.00										
2,900.00	9.75	338.33	2,854.80	431.73	-171.56	464.57	2.00	-2.00	0.00	
3,000.00	7.75	338.33	2,953.63	445.87	-177.18	479.78	2.00	-2.00	0.00	
3,100.00	5.75	338.33	3,052.93	456.79	-181.52	491.54	2.00	-2.00	0.00	
3,200.00	3.75	338.33	3,152.58	464.49	-184.58	499.82	2.00	-2.00	0.00	
3,300.00	1.75	338.33	3,252.46	468.95	-186.35	504.62	2.00	-2.00	0.00	
3,387.55	0.00	0.00	3,340.00	470.19	-186.85	505.96	2.00	-2.00	24.75	
Start 6402.00 hold at 3387.55 MD										
3,400.00	0.00	0.00	3,352.45	470.19	-186.85	505.96	0.00	0.00	0.00	
3,500.00	0.00	0.00	3,452.45	470.19	-186.85	505.96	0.00	0.00	0.00	
3,600.00	0.00	0.00	3,552.45	470.19	-186.85	505.96	0.00	0.00	0.00	
3,700.00	0.00	0.00	3,652.45	470.19	-186.85	505.96	0.00	0.00	0.00	
3,800.00	0.00	0.00	3,752.45	470.19	-186.85	505.96	0.00	0.00	0.00	
3,900.00	0.00	0.00	3,852.45	470.19	-186.85	505.96	0.00	0.00	0.00	

Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 921-35G1BS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 5119' & KB 14' @ 5133.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 5119' & KB 14' @ 5133.00ft (ASSUMED)
Site:	NBU 921-35G Pad	North Reference:	True
Well:	NBU 921-35G1BS	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)	
4,000.00	0.00	0.00	3,952.45	470.19	-186.85	505.96	0.00	0.00	0.00	
4,100.00	0.00	0.00	4,052.45	470.19	-186.85	505.96	0.00	0.00	0.00	
4,200.00	0.00	0.00	4,152.45	470.19	-186.85	505.96	0.00	0.00	0.00	
4,300.00	0.00	0.00	4,252.45	470.19	-186.85	505.96	0.00	0.00	0.00	
4,400.00	0.00	0.00	4,352.45	470.19	-186.85	505.96	0.00	0.00	0.00	
4,500.00	0.00	0.00	4,452.45	470.19	-186.85	505.96	0.00	0.00	0.00	
4,600.00	0.00	0.00	4,552.45	470.19	-186.85	505.96	0.00	0.00	0.00	
4,700.00	0.00	0.00	4,652.45	470.19	-186.85	505.96	0.00	0.00	0.00	
4,800.00	0.00	0.00	4,752.45	470.19	-186.85	505.96	0.00	0.00	0.00	
4,827.55	0.00	0.00	4,780.00	470.19	-186.85	505.96	0.00	0.00	0.00	
WASATCH										
4,900.00	0.00	0.00	4,852.45	470.19	-186.85	505.96	0.00	0.00	0.00	
5,000.00	0.00	0.00	4,952.45	470.19	-186.85	505.96	0.00	0.00	0.00	
5,100.00	0.00	0.00	5,052.45	470.19	-186.85	505.96	0.00	0.00	0.00	
5,200.00	0.00	0.00	5,152.45	470.19	-186.85	505.96	0.00	0.00	0.00	
5,300.00	0.00	0.00	5,252.45	470.19	-186.85	505.96	0.00	0.00	0.00	
5,400.00	0.00	0.00	5,352.45	470.19	-186.85	505.96	0.00	0.00	0.00	
5,500.00	0.00	0.00	5,452.45	470.19	-186.85	505.96	0.00	0.00	0.00	
5,600.00	0.00	0.00	5,552.45	470.19	-186.85	505.96	0.00	0.00	0.00	
5,700.00	0.00	0.00	5,652.45	470.19	-186.85	505.96	0.00	0.00	0.00	
5,800.00	0.00	0.00	5,752.45	470.19	-186.85	505.96	0.00	0.00	0.00	
5,900.00	0.00	0.00	5,852.45	470.19	-186.85	505.96	0.00	0.00	0.00	
6,000.00	0.00	0.00	5,952.45	470.19	-186.85	505.96	0.00	0.00	0.00	
6,100.00	0.00	0.00	6,052.45	470.19	-186.85	505.96	0.00	0.00	0.00	
6,200.00	0.00	0.00	6,152.45	470.19	-186.85	505.96	0.00	0.00	0.00	
6,300.00	0.00	0.00	6,252.45	470.19	-186.85	505.96	0.00	0.00	0.00	
6,400.00	0.00	0.00	6,352.45	470.19	-186.85	505.96	0.00	0.00	0.00	
6,500.00	0.00	0.00	6,452.45	470.19	-186.85	505.96	0.00	0.00	0.00	
6,600.00	0.00	0.00	6,552.45	470.19	-186.85	505.96	0.00	0.00	0.00	
6,700.00	0.00	0.00	6,652.45	470.19	-186.85	505.96	0.00	0.00	0.00	
6,800.00	0.00	0.00	6,752.45	470.19	-186.85	505.96	0.00	0.00	0.00	
6,900.00	0.00	0.00	6,852.45	470.19	-186.85	505.96	0.00	0.00	0.00	
7,000.00	0.00	0.00	6,952.45	470.19	-186.85	505.96	0.00	0.00	0.00	
7,100.00	0.00	0.00	7,052.45	470.19	-186.85	505.96	0.00	0.00	0.00	
7,200.00	0.00	0.00	7,152.45	470.19	-186.85	505.96	0.00	0.00	0.00	
7,300.00	0.00	0.00	7,252.45	470.19	-186.85	505.96	0.00	0.00	0.00	
7,400.00	0.00	0.00	7,352.45	470.19	-186.85	505.96	0.00	0.00	0.00	
7,500.00	0.00	0.00	7,452.45	470.19	-186.85	505.96	0.00	0.00	0.00	
7,525.55	0.00	0.00	7,478.00	470.19	-186.85	505.96	0.00	0.00	0.00	
MESAVERDE										
7,600.00	0.00	0.00	7,552.45	470.19	-186.85	505.96	0.00	0.00	0.00	
7,700.00	0.00	0.00	7,652.45	470.19	-186.85	505.96	0.00	0.00	0.00	
7,800.00	0.00	0.00	7,752.45	470.19	-186.85	505.96	0.00	0.00	0.00	
7,900.00	0.00	0.00	7,852.45	470.19	-186.85	505.96	0.00	0.00	0.00	
8,000.00	0.00	0.00	7,952.45	470.19	-186.85	505.96	0.00	0.00	0.00	
8,100.00	0.00	0.00	8,052.45	470.19	-186.85	505.96	0.00	0.00	0.00	
8,200.00	0.00	0.00	8,152.45	470.19	-186.85	505.96	0.00	0.00	0.00	
8,300.00	0.00	0.00	8,252.45	470.19	-186.85	505.96	0.00	0.00	0.00	
8,400.00	0.00	0.00	8,352.45	470.19	-186.85	505.96	0.00	0.00	0.00	
8,500.00	0.00	0.00	8,452.45	470.19	-186.85	505.96	0.00	0.00	0.00	
8,600.00	0.00	0.00	8,552.45	470.19	-186.85	505.96	0.00	0.00	0.00	
8,700.00	0.00	0.00	8,652.45	470.19	-186.85	505.96	0.00	0.00	0.00	

Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 921-35G1BS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 5119' & KB 14' @ 5133.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 5119' & KB 14' @ 5133.00ft (ASSUMED)
Site:	NBU 921-35G Pad	North Reference:	True
Well:	NBU 921-35G1BS	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)	
8,800.00	0.00	0.00	8,752.45	470.19	-186.85	505.96	0.00	0.00	0.00	
8,900.00	0.00	0.00	8,852.45	470.19	-186.85	505.96	0.00	0.00	0.00	
9,000.00	0.00	0.00	8,952.45	470.19	-186.85	505.96	0.00	0.00	0.00	
9,100.00	0.00	0.00	9,052.45	470.19	-186.85	505.96	0.00	0.00	0.00	
9,200.00	0.00	0.00	9,152.45	470.19	-186.85	505.96	0.00	0.00	0.00	
9,300.00	0.00	0.00	9,252.45	470.19	-186.85	505.96	0.00	0.00	0.00	
9,400.00	0.00	0.00	9,352.45	470.19	-186.85	505.96	0.00	0.00	0.00	
9,500.00	0.00	0.00	9,452.45	470.19	-186.85	505.96	0.00	0.00	0.00	
9,600.00	0.00	0.00	9,552.45	470.19	-186.85	505.96	0.00	0.00	0.00	
9,700.00	0.00	0.00	9,652.45	470.19	-186.85	505.96	0.00	0.00	0.00	
9,789.55	0.00	0.00	9,742.00	470.19	-186.85	505.96	0.00	0.00	0.00	
NBU 921-35G1BS_PBHL										

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
NBU 921-35G1BS_PBH - hit/miss target - Shape - Circle (radius 25.00)	0.00	0.00	9,742.00	470.19	-186.85	14,527,850.96	2,056,260.06	39° 59' 43.620 N	109° 30' 55.015 W

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)	
2,681.00	2,640.00	8 5/8"	8.625	11.000	

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,521.14	1,504.00	GREEN RIVER				
4,827.55	4,780.00	WASATCH				
7,525.55	7,478.00	MESAVERDE				

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Comment	
300.00	300.00	0.00	0.00	Start Build 2.00	
882.04	878.04	54.76	-21.76	Start 1923.47 hold at 882.04 MD	
2,805.51	2,761.96	415.43	-165.09	Start Drop -2.00	
3,387.55	3,340.00	470.19	-186.85	Start 6402.00 hold at 3387.55 MD	
9,789.55	9,742.00	470.19	-186.85	TD at 9789.55	

Kerr McGee Oil and Gas Onshore LP

**Uintah County, UT UTM12
NBU 921-35G Pad
NBU 921-35G1BS**

OH

Plan: PLAN #1

Standard Planning Report - Geographic

28 October, 2010

Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 921-35G1BS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 5119' & KB 14' @ 5133.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 5119' & KB 14' @ 5133.00ft (ASSUMED)
Site:	NBU 921-35G Pad	North Reference:	True
Well:	NBU 921-35G1BS	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 921-35G Pad, SEC 35 T9S R21E				
Site Position:		Northing:	14,527,383.91 usft	Latitude:	39° 59' 38.969 N
From:	Lat/Long	Easting:	2,056,474.61 usft	Longitude:	109° 30' 52.358 W
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence:	0.95 °

Well	NBU 921-35G1BS, 2053' FNL 1633' FEL					
Well Position	+N/-S	0.00 ft	Northing:	14,527,383.94 usft	Latitude:	39° 59' 38.972 N
	+E/-W	0.00 ft	Easting:	2,056,454.71 usft	Longitude:	109° 30' 52.614 W
Position Uncertainty	0.00 ft		Wellhead Elevation:		Ground Level:	5,119.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	10/28/2010	11.16	65.88	52,385

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	338.33

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	
882.04	11.64	338.33	878.04	54.76	-21.76	2.00	2.00	0.00	338.33	
2,805.51	11.64	338.33	2,761.96	415.43	-165.09	0.00	0.00	0.00	0.00	
3,387.55	0.00	0.00	3,340.00	470.19	-186.85	2.00	-2.00	0.00	180.00	
9,789.55	0.00	0.00	9,742.00	470.19	-186.85	0.00	0.00	0.00	0.00	NBU 921-35G1BS_PI

Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 921-35G1BS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 5119' & KB 14' @ 5133.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 5119' & KB 14' @ 5133.00ft (ASSUMED)
Site:	NBU 921-35G Pad	North Reference:	True
Well:	NBU 921-35G1BS	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)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
0.00	0.00	0.00	0.00	0.00	0.00	14,527,383.94	2,056,454.71	39° 59' 38.972 N	109° 30' 52.614 W	
100.00	0.00	0.00	100.00	0.00	0.00	14,527,383.94	2,056,454.71	39° 59' 38.972 N	109° 30' 52.614 W	
200.00	0.00	0.00	200.00	0.00	0.00	14,527,383.94	2,056,454.71	39° 59' 38.972 N	109° 30' 52.614 W	
300.00	0.00	0.00	300.00	0.00	0.00	14,527,383.94	2,056,454.71	39° 59' 38.972 N	109° 30' 52.614 W	
Start Build 2.00										
400.00	2.00	338.33	399.98	1.62	-0.64	14,527,385.55	2,056,454.04	39° 59' 38.988 N	109° 30' 52.622 W	
500.00	4.00	338.33	499.84	6.49	-2.58	14,527,390.39	2,056,452.03	39° 59' 39.037 N	109° 30' 52.647 W	
600.00	6.00	338.33	599.45	14.58	-5.80	14,527,398.43	2,056,448.68	39° 59' 39.117 N	109° 30' 52.688 W	
700.00	8.00	338.33	698.70	25.91	-10.30	14,527,409.68	2,056,443.99	39° 59' 39.228 N	109° 30' 52.746 W	
800.00	10.00	338.33	797.47	40.45	-16.07	14,527,424.12	2,056,437.97	39° 59' 39.372 N	109° 30' 52.821 W	
882.04	11.64	338.33	878.04	54.76	-21.76	14,527,438.33	2,056,432.04	39° 59' 39.514 N	109° 30' 52.894 W	
Start 1923.47 hold at 882.04 MD										
900.00	11.64	338.33	895.63	58.13	-23.10	14,527,441.68	2,056,430.65	39° 59' 39.547 N	109° 30' 52.911 W	
1,000.00	11.64	338.33	993.58	76.88	-30.55	14,527,460.30	2,056,422.89	39° 59' 39.732 N	109° 30' 53.007 W	
1,100.00	11.64	338.33	1,091.52	95.63	-38.00	14,527,478.93	2,056,415.12	39° 59' 39.918 N	109° 30' 53.102 W	
1,200.00	11.64	338.33	1,189.46	114.38	-45.45	14,527,497.55	2,056,407.36	39° 59' 40.103 N	109° 30' 53.198 W	
1,300.00	11.64	338.33	1,287.41	133.13	-52.90	14,527,516.17	2,056,399.60	39° 59' 40.288 N	109° 30' 53.294 W	
1,400.00	11.64	338.33	1,385.35	151.88	-60.36	14,527,534.80	2,056,391.84	39° 59' 40.474 N	109° 30' 53.390 W	
1,500.00	11.64	338.33	1,483.29	170.63	-67.81	14,527,553.42	2,056,384.07	39° 59' 40.659 N	109° 30' 53.485 W	
1,521.14	11.64	338.33	1,504.00	174.60	-69.38	14,527,557.36	2,056,382.43	39° 59' 40.698 N	109° 30' 53.506 W	
GREEN RIVER										
1,600.00	11.64	338.33	1,581.24	189.38	-75.26	14,527,572.05	2,056,376.31	39° 59' 40.844 N	109° 30' 53.581 W	
1,700.00	11.64	338.33	1,679.18	208.14	-82.71	14,527,590.67	2,056,368.55	39° 59' 41.030 N	109° 30' 53.677 W	
1,800.00	11.64	338.33	1,777.12	226.89	-90.16	14,527,609.30	2,056,360.78	39° 59' 41.215 N	109° 30' 53.773 W	
1,900.00	11.64	338.33	1,875.07	245.64	-97.61	14,527,627.92	2,056,353.02	39° 59' 41.400 N	109° 30' 53.868 W	
2,000.00	11.64	338.33	1,973.01	264.39	-105.07	14,527,646.55	2,056,345.26	39° 59' 41.586 N	109° 30' 53.964 W	
2,100.00	11.64	338.33	2,070.95	283.14	-112.52	14,527,665.17	2,056,337.50	39° 59' 41.771 N	109° 30' 54.060 W	
2,200.00	11.64	338.33	2,168.90	301.89	-119.97	14,527,683.79	2,056,329.73	39° 59' 41.956 N	109° 30' 54.156 W	
2,300.00	11.64	338.33	2,266.84	320.64	-127.42	14,527,702.42	2,056,321.97	39° 59' 42.142 N	109° 30' 54.251 W	
2,400.00	11.64	338.33	2,364.78	339.39	-134.87	14,527,721.04	2,056,314.21	39° 59' 42.327 N	109° 30' 54.347 W	
2,500.00	11.64	338.33	2,462.73	358.15	-142.32	14,527,739.67	2,056,306.44	39° 59' 42.512 N	109° 30' 54.443 W	
2,600.00	11.64	338.33	2,560.67	376.90	-149.77	14,527,758.29	2,056,298.68	39° 59' 42.698 N	109° 30' 54.539 W	
2,681.00	11.64	338.33	2,640.00	392.08	-155.81	14,527,773.38	2,056,292.39	39° 59' 42.884 N	109° 30' 54.616 W	
8 5/8"										
2,700.00	11.64	338.33	2,658.61	395.65	-157.23	14,527,776.92	2,056,290.92	39° 59' 42.883 N	109° 30' 54.635 W	
2,800.00	11.64	338.33	2,756.56	414.40	-164.68	14,527,795.54	2,056,283.15	39° 59' 43.069 N	109° 30' 54.730 W	
2,805.51	11.64	338.33	2,761.96	415.43	-165.09	14,527,796.57	2,056,282.73	39° 59' 43.079 N	109° 30' 54.736 W	
Start Drop -2.00										
2,900.00	9.75	338.33	2,854.80	431.73	-171.56	14,527,812.75	2,056,275.98	39° 59' 43.240 N	109° 30' 54.819 W	
3,000.00	7.75	338.33	2,953.63	445.87	-177.18	14,527,826.80	2,056,270.13	39° 59' 43.380 N	109° 30' 54.891 W	
3,100.00	5.75	338.33	3,052.93	456.79	-181.52	14,527,837.65	2,056,265.60	39° 59' 43.488 N	109° 30' 54.947 W	
3,200.00	3.75	338.33	3,152.58	464.49	-184.58	14,527,845.29	2,056,262.42	39° 59' 43.564 N	109° 30' 54.986 W	
3,300.00	1.75	338.33	3,252.46	468.95	-186.35	14,527,849.72	2,056,260.57	39° 59' 43.608 N	109° 30' 55.009 W	
3,387.55	0.00	0.00	3,340.00	470.19	-186.85	14,527,850.96	2,056,260.06	39° 59' 43.620 N	109° 30' 55.015 W	
Start 6402.00 hold at 3387.55 MD										
3,400.00	0.00	0.00	3,352.45	470.19	-186.85	14,527,850.96	2,056,260.06	39° 59' 43.620 N	109° 30' 55.015 W	
3,500.00	0.00	0.00	3,452.45	470.19	-186.85	14,527,850.96	2,056,260.06	39° 59' 43.620 N	109° 30' 55.015 W	
3,600.00	0.00	0.00	3,552.45	470.19	-186.85	14,527,850.96	2,056,260.06	39° 59' 43.620 N	109° 30' 55.015 W	
3,700.00	0.00	0.00	3,652.45	470.19	-186.85	14,527,850.96	2,056,260.06	39° 59' 43.620 N	109° 30' 55.015 W	
3,800.00	0.00	0.00	3,752.45	470.19	-186.85	14,527,850.96	2,056,260.06	39° 59' 43.620 N	109° 30' 55.015 W	
3,900.00	0.00	0.00	3,852.45	470.19	-186.85	14,527,850.96	2,056,260.06	39° 59' 43.620 N	109° 30' 55.015 W	
4,000.00	0.00	0.00	3,952.45	470.19	-186.85	14,527,850.96	2,056,260.06	39° 59' 43.620 N	109° 30' 55.015 W	

Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 921-35G1BS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 5119' & KB 14' @ 5133.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 5119' & KB 14' @ 5133.00ft (ASSUMED)
Site:	NBU 921-35G Pad	North Reference:	True
Well:	NBU 921-35G1BS	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)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
4,100.00	0.00	0.00	4,052.45	470.19	-186.85	14,527,850.96	2,056,260.06	39° 59' 43.620 N	109° 30' 55.015 W	
4,200.00	0.00	0.00	4,152.45	470.19	-186.85	14,527,850.96	2,056,260.06	39° 59' 43.620 N	109° 30' 55.015 W	
4,300.00	0.00	0.00	4,252.45	470.19	-186.85	14,527,850.96	2,056,260.06	39° 59' 43.620 N	109° 30' 55.015 W	
4,400.00	0.00	0.00	4,352.45	470.19	-186.85	14,527,850.96	2,056,260.06	39° 59' 43.620 N	109° 30' 55.015 W	
4,500.00	0.00	0.00	4,452.45	470.19	-186.85	14,527,850.96	2,056,260.06	39° 59' 43.620 N	109° 30' 55.015 W	
4,600.00	0.00	0.00	4,552.45	470.19	-186.85	14,527,850.96	2,056,260.06	39° 59' 43.620 N	109° 30' 55.015 W	
4,700.00	0.00	0.00	4,652.45	470.19	-186.85	14,527,850.96	2,056,260.06	39° 59' 43.620 N	109° 30' 55.015 W	
4,800.00	0.00	0.00	4,752.45	470.19	-186.85	14,527,850.96	2,056,260.06	39° 59' 43.620 N	109° 30' 55.015 W	
4,827.55	0.00	0.00	4,780.00	470.19	-186.85	14,527,850.96	2,056,260.06	39° 59' 43.620 N	109° 30' 55.015 W	
WASATCH										
4,900.00	0.00	0.00	4,852.45	470.19	-186.85	14,527,850.96	2,056,260.06	39° 59' 43.620 N	109° 30' 55.015 W	
5,000.00	0.00	0.00	4,952.45	470.19	-186.85	14,527,850.96	2,056,260.06	39° 59' 43.620 N	109° 30' 55.015 W	
5,100.00	0.00	0.00	5,052.45	470.19	-186.85	14,527,850.96	2,056,260.06	39° 59' 43.620 N	109° 30' 55.015 W	
5,200.00	0.00	0.00	5,152.45	470.19	-186.85	14,527,850.96	2,056,260.06	39° 59' 43.620 N	109° 30' 55.015 W	
5,300.00	0.00	0.00	5,252.45	470.19	-186.85	14,527,850.96	2,056,260.06	39° 59' 43.620 N	109° 30' 55.015 W	
5,400.00	0.00	0.00	5,352.45	470.19	-186.85	14,527,850.96	2,056,260.06	39° 59' 43.620 N	109° 30' 55.015 W	
5,500.00	0.00	0.00	5,452.45	470.19	-186.85	14,527,850.96	2,056,260.06	39° 59' 43.620 N	109° 30' 55.015 W	
5,600.00	0.00	0.00	5,552.45	470.19	-186.85	14,527,850.96	2,056,260.06	39° 59' 43.620 N	109° 30' 55.015 W	
5,700.00	0.00	0.00	5,652.45	470.19	-186.85	14,527,850.96	2,056,260.06	39° 59' 43.620 N	109° 30' 55.015 W	
5,800.00	0.00	0.00	5,752.45	470.19	-186.85	14,527,850.96	2,056,260.06	39° 59' 43.620 N	109° 30' 55.015 W	
5,900.00	0.00	0.00	5,852.45	470.19	-186.85	14,527,850.96	2,056,260.06	39° 59' 43.620 N	109° 30' 55.015 W	
6,000.00	0.00	0.00	5,952.45	470.19	-186.85	14,527,850.96	2,056,260.06	39° 59' 43.620 N	109° 30' 55.015 W	
6,100.00	0.00	0.00	6,052.45	470.19	-186.85	14,527,850.96	2,056,260.06	39° 59' 43.620 N	109° 30' 55.015 W	
6,200.00	0.00	0.00	6,152.45	470.19	-186.85	14,527,850.96	2,056,260.06	39° 59' 43.620 N	109° 30' 55.015 W	
6,300.00	0.00	0.00	6,252.45	470.19	-186.85	14,527,850.96	2,056,260.06	39° 59' 43.620 N	109° 30' 55.015 W	
6,400.00	0.00	0.00	6,352.45	470.19	-186.85	14,527,850.96	2,056,260.06	39° 59' 43.620 N	109° 30' 55.015 W	
6,500.00	0.00	0.00	6,452.45	470.19	-186.85	14,527,850.96	2,056,260.06	39° 59' 43.620 N	109° 30' 55.015 W	
6,600.00	0.00	0.00	6,552.45	470.19	-186.85	14,527,850.96	2,056,260.06	39° 59' 43.620 N	109° 30' 55.015 W	
6,700.00	0.00	0.00	6,652.45	470.19	-186.85	14,527,850.96	2,056,260.06	39° 59' 43.620 N	109° 30' 55.015 W	
6,800.00	0.00	0.00	6,752.45	470.19	-186.85	14,527,850.96	2,056,260.06	39° 59' 43.620 N	109° 30' 55.015 W	
6,900.00	0.00	0.00	6,852.45	470.19	-186.85	14,527,850.96	2,056,260.06	39° 59' 43.620 N	109° 30' 55.015 W	
7,000.00	0.00	0.00	6,952.45	470.19	-186.85	14,527,850.96	2,056,260.06	39° 59' 43.620 N	109° 30' 55.015 W	
7,100.00	0.00	0.00	7,052.45	470.19	-186.85	14,527,850.96	2,056,260.06	39° 59' 43.620 N	109° 30' 55.015 W	
7,200.00	0.00	0.00	7,152.45	470.19	-186.85	14,527,850.96	2,056,260.06	39° 59' 43.620 N	109° 30' 55.015 W	
7,300.00	0.00	0.00	7,252.45	470.19	-186.85	14,527,850.96	2,056,260.06	39° 59' 43.620 N	109° 30' 55.015 W	
7,400.00	0.00	0.00	7,352.45	470.19	-186.85	14,527,850.96	2,056,260.06	39° 59' 43.620 N	109° 30' 55.015 W	
7,500.00	0.00	0.00	7,452.45	470.19	-186.85	14,527,850.96	2,056,260.06	39° 59' 43.620 N	109° 30' 55.015 W	
7,525.55	0.00	0.00	7,478.00	470.19	-186.85	14,527,850.96	2,056,260.06	39° 59' 43.620 N	109° 30' 55.015 W	
MESAVERDE										
7,600.00	0.00	0.00	7,552.45	470.19	-186.85	14,527,850.96	2,056,260.06	39° 59' 43.620 N	109° 30' 55.015 W	
7,700.00	0.00	0.00	7,652.45	470.19	-186.85	14,527,850.96	2,056,260.06	39° 59' 43.620 N	109° 30' 55.015 W	
7,800.00	0.00	0.00	7,752.45	470.19	-186.85	14,527,850.96	2,056,260.06	39° 59' 43.620 N	109° 30' 55.015 W	
7,900.00	0.00	0.00	7,852.45	470.19	-186.85	14,527,850.96	2,056,260.06	39° 59' 43.620 N	109° 30' 55.015 W	
8,000.00	0.00	0.00	7,952.45	470.19	-186.85	14,527,850.96	2,056,260.06	39° 59' 43.620 N	109° 30' 55.015 W	
8,100.00	0.00	0.00	8,052.45	470.19	-186.85	14,527,850.96	2,056,260.06	39° 59' 43.620 N	109° 30' 55.015 W	
8,200.00	0.00	0.00	8,152.45	470.19	-186.85	14,527,850.96	2,056,260.06	39° 59' 43.620 N	109° 30' 55.015 W	
8,300.00	0.00	0.00	8,252.45	470.19	-186.85	14,527,850.96	2,056,260.06	39° 59' 43.620 N	109° 30' 55.015 W	
8,400.00	0.00	0.00	8,352.45	470.19	-186.85	14,527,850.96	2,056,260.06	39° 59' 43.620 N	109° 30' 55.015 W	
8,500.00	0.00	0.00	8,452.45	470.19	-186.85	14,527,850.96	2,056,260.06	39° 59' 43.620 N	109° 30' 55.015 W	
8,600.00	0.00	0.00	8,552.45	470.19	-186.85	14,527,850.96	2,056,260.06	39° 59' 43.620 N	109° 30' 55.015 W	
8,700.00	0.00	0.00	8,652.45	470.19	-186.85	14,527,850.96	2,056,260.06	39° 59' 43.620 N	109° 30' 55.015 W	
8,800.00	0.00	0.00	8,752.45	470.19	-186.85	14,527,850.96	2,056,260.06	39° 59' 43.620 N	109° 30' 55.015 W	

Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 921-35G1BS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 5119' & KB 14' @ 5133.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 5119' & KB 14' @ 5133.00ft (ASSUMED)
Site:	NBU 921-35G Pad	North Reference:	True
Well:	NBU 921-35G1BS	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)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
8,900.00	0.00	0.00	8,852.45	470.19	-186.85	14,527,850.96	2,056,260.06	39° 59' 43.620 N	109° 30' 55.015 W	
9,000.00	0.00	0.00	8,952.45	470.19	-186.85	14,527,850.96	2,056,260.06	39° 59' 43.620 N	109° 30' 55.015 W	
9,100.00	0.00	0.00	9,052.45	470.19	-186.85	14,527,850.96	2,056,260.06	39° 59' 43.620 N	109° 30' 55.015 W	
9,200.00	0.00	0.00	9,152.45	470.19	-186.85	14,527,850.96	2,056,260.06	39° 59' 43.620 N	109° 30' 55.015 W	
9,300.00	0.00	0.00	9,252.45	470.19	-186.85	14,527,850.96	2,056,260.06	39° 59' 43.620 N	109° 30' 55.015 W	
9,400.00	0.00	0.00	9,352.45	470.19	-186.85	14,527,850.96	2,056,260.06	39° 59' 43.620 N	109° 30' 55.015 W	
9,500.00	0.00	0.00	9,452.45	470.19	-186.85	14,527,850.96	2,056,260.06	39° 59' 43.620 N	109° 30' 55.015 W	
9,600.00	0.00	0.00	9,552.45	470.19	-186.85	14,527,850.96	2,056,260.06	39° 59' 43.620 N	109° 30' 55.015 W	
9,700.00	0.00	0.00	9,652.45	470.19	-186.85	14,527,850.96	2,056,260.06	39° 59' 43.620 N	109° 30' 55.015 W	
9,789.55	0.00	0.00	9,742.00	470.19	-186.85	14,527,850.96	2,056,260.06	39° 59' 43.620 N	109° 30' 55.015 W	
NBU 921-35G1BS_PBHL										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
NBU 921-35G1BS_PBH - hit/miss target - Shape	0.00	0.00	9,742.00	470.19	-186.85	14,527,850.96	2,056,260.06	39° 59' 43.620 N	109° 30' 55.015 W	
- plan hits target center - Circle (radius 25.00)										

Casing Points						
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)		
2,681.00	2,640.00	8 5/8"	8.625	11.000		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,521.14	1,504.00	GREEN RIVER				
4,827.55	4,780.00	WASATCH				
7,525.55	7,478.00	MESAVERDE				

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Comment	
300.00	300.00	0.00	0.00	Start Build 2.00	
882.04	878.04	54.76	-21.76	Start 1923.47 hold at 882.04 MD	
2,805.51	2,761.96	415.43	-165.09	Start Drop -2.00	
3,387.55	3,340.00	470.19	-186.85	Start 6402.00 hold at 3387.55 MD	
9,789.55	9,742.00	470.19	-186.85	TD at 9789.55	

NBU 921-35G1BS

Surface: 2,053' FNL 1,633' FEL (SW/4NE/4)
BHL: 1,583' FNL 1,819' FEL (SW/4NE/4)

NBU 921-35G1CS

Surface: 2,053' FNL 1,653' FEL (SW/4NE/4)
BHL: 1,916' FNL 1,820' FEL (SW/4NE/4)

NBU 921-35G4BS

Surface: 2,053' FNL 1,643' FEL (SW/4NE/4)
BHL: 2,250' FNL 1,822' FEL (SW/4NE/4)

NBU 921-35G4CS

Surface: 2,053' FNL 1,623' FEL (SW/4NE/4)
BHL: 2,583' FNL 1,823' FEL (SW/4NE/4)

NBU 921-35J1BS

Surface: 2,053' FNL 1,613' FEL (SW/4NE/4)
BHL: 2,419' FSL 1,824' FEL (NW/4SE/4)

Pad: NBU 921-35G
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 $\pm 40'$ (0.01 miles) of road re-route is proposed (see Topo Map B). Applicable Uintah County encroachment and/or pipeline crossing permits will be obtained prior to construction/development. No other pipelines will be crossed at this location.

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

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

C. Location of Existing and Proposed Facilities:

This pad will expand the existing pad for the CIGE 204. This well location is a shut-in 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 $\pm 5,100'$ and the individual segments are broken up as follows:

- $\pm 150'$ (0.03 miles) –New 6” buried gas pipeline from the meter to the edge of the pad.
- $\pm 370'$ (0.1 miles) –New 6” buried gas pipeline from the edge of pad to the NBU 921-35H pad intersection.
- $\pm 3,160'$ (0.6 miles) –New 8” buried gas pipeline from the NBU 921-35H pad intersection to the NBU 921-35K pad intersection.
- $\pm 920'$ (0.2 miles) –New 12” buried gas pipeline from the NBU 921-35K pad intersection to the NBU 921-35M pad intersection.

The total liquid gathering pipeline distance from the separator to the tie in point is $\pm 5,100'$ and the individual segments are broken up as follows:

- $\pm 150'$ (0.03 miles) –New 6” buried liquid pipeline from the separator to the edge of the pad.
- $\pm 370'$ (0.1 miles) –New 6” buried liquid pipeline from the edge of pad to the NBU 921-35H pad intersection.
- $\pm 3,160'$ (0.6 miles) –New 6” buried liquid pipeline from the NBU 921-35H pad intersection to the NBU 921-35M pad intersection.
- $\pm 1,420'$ (0.3 miles) –New 6” buried liquid pipeline from the NBU 921-35M pad intersection to the existing buried liquid pipeline.

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

December 13, 2010

 Date

'APIWellNo:43047513600000'



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

October 27, 2010

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

Re: Directional Drilling R649-3-11
NBU 921-35G1BS
T9S-R21E
Section 35: SWNE (Surf), SWNE (Bottom)
Surface: 2053' FNL, 1633' FEL
Bottom Hole: 1583' FNL, 1819' 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 921-35G1BS 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)

December 1, 2010

Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2010 Plan of Development Natural Buttes Unit
Uintah County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2010 within the Natural Buttes Unit, Uintah County, Utah.

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

NBU 921-35F2 Pad

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

NBU 921-35F4 PAD

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

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

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

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

NBU 921-35G Pad

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

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

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

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

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

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

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

Michael L. Coulthard

Digitally signed by Michael L. Coulthard
DN: cn=Michael L. Coulthard, o=Bureau of Land Management, ou=Branch of Minerals, email=Michael_Coulthard@blm.gov, c=US
Date: 2010.12.01 10:03:00 -07'00'

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

MCoulthard:mc:12-1-10

Well Name	KERR-MCGEE OIL & GAS ONSHORE, L.P. NBU 921-35G1BS 430475136			
String	Surf	Prod		
Casing Size(")	8.625	4.500		
Setting Depth (TVD)	2404	9742		
Previous Shoe Setting Depth (TVD)	40	2404		
Max Mud Weight (ppg)	8.3	12.0		
BOPE Proposed (psi)	500	5000		
Casing Internal Yield (psi)	3390	7780		
Operators Max Anticipated Pressure (psi)	5943	11.7		

Calculations	Surf String	8.625	"
Max BHP (psi)	$.052 * \text{Setting Depth} * \text{MW} =$	1041	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	$\text{Max BHP} - (0.12 * \text{Setting Depth}) =$	753	NO <input type="text" value="air drill"/>
MASP (Gas/Mud) (psi)	$\text{Max BHP} - (0.22 * \text{Setting Depth}) =$	512	NO <input type="text" value="OK"/>
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	$\text{Max BHP} - .22 * (\text{Setting Depth} - \text{Previous Shoe Depth}) =$	521	NO <input type="text" value="Reasonable depth in area"/>
Required Casing/BOPE Test Pressure=		2373	psi
*Max Pressure Allowed @ Previous Casing Shoe=		40	psi *Assumes 1psi/ft frac gradient

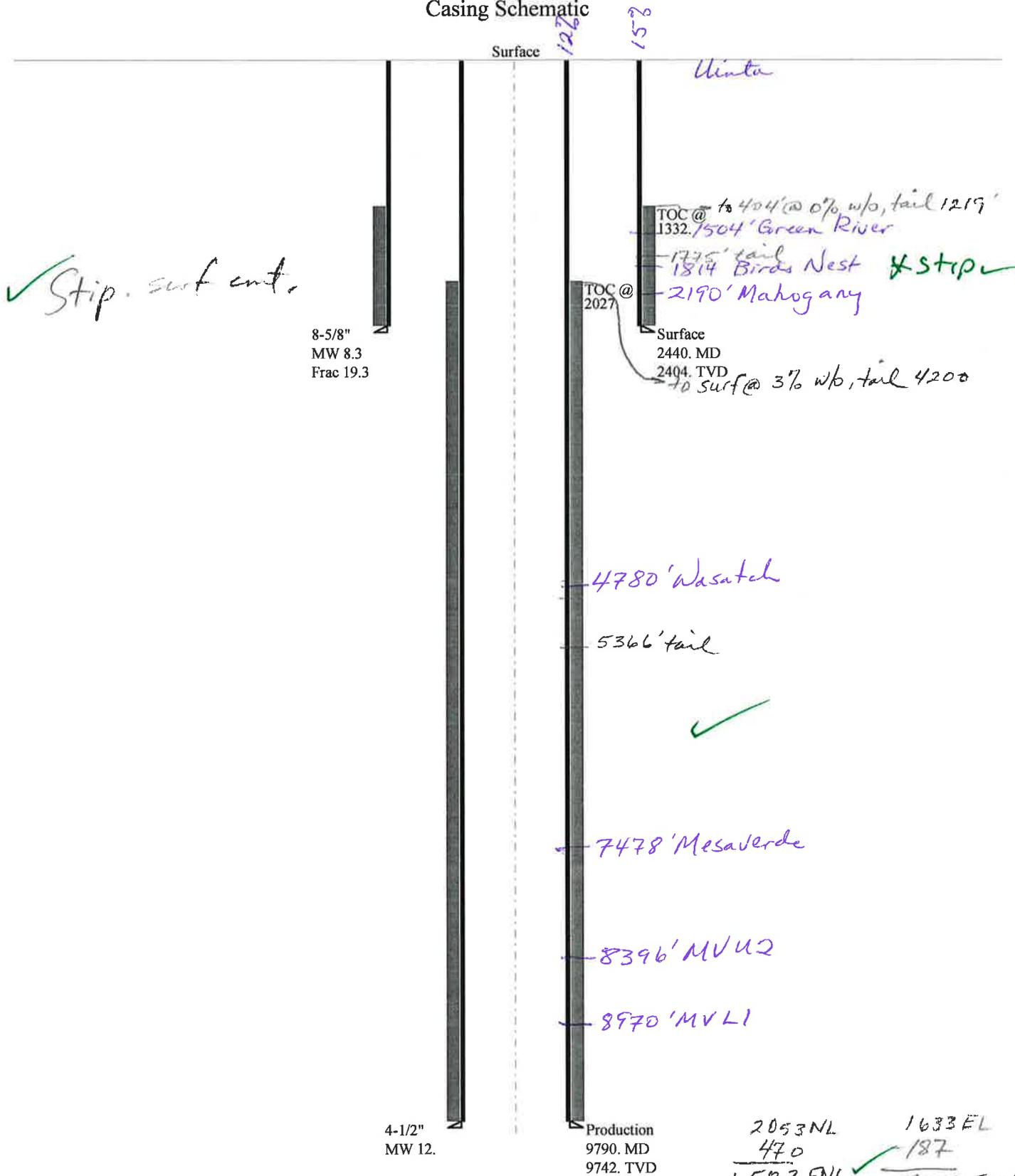
Calculations	Prod String	4.500	"
Max BHP (psi)	$.052 * \text{Setting Depth} * \text{MW} =$	6079	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	$\text{Max BHP} - (0.12 * \text{Setting Depth}) =$	4910	YES <input type="text"/>
MASP (Gas/Mud) (psi)	$\text{Max BHP} - (0.22 * \text{Setting Depth}) =$	3936	YES <input type="text" value="OK"/>
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	$\text{Max BHP} - .22 * (\text{Setting Depth} - \text{Previous Shoe Depth}) =$	4465	NO <input type="text" value="Reasonable"/>
Required Casing/BOPE Test Pressure=		5000	psi
*Max Pressure Allowed @ Previous Casing Shoe=		2404	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

4304751360000 NBU 921-35G1BS

Casing Schematic



✓ Strip. surf ent.



SW NE Sec 35-9S-21E

Well name:	43047513600000 NBU 921-35G1BS		
Operator:	KERR-MCGEE OIL & GAS ONSHORE, L.P.		
String type:	Surface	Project ID:	43-047-51360
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: 108 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 100 ft

Cement top: 1,332 ft

Burst

Max anticipated surface pressure: 2,147 psi
Internal gradient: 0.120 psi/ft
Calculated BHP 2,436 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: 2,139 ft

Directional Info - Build & Drop

Kick-off point 300 ft
Departure at shoe: 373 ft
Maximum dogleg: 2 °/100ft
Inclination at shoe: 11.64 °

Re subsequent strings:

Next setting depth: 9,742 ft
Next mud weight: 12.000 ppg
Next setting BHP: 6,073 psi
Fracture mud wt: 19.250 ppg
Fracture depth: 2,440 ft
Injection pressure: 2,440 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	2440	8.625	28.00	I-55	LT&C	2404	2440	7.892	96624
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	1040	1880	1.807	2436	3390	1.39	67.3	348	5.17 J

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

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

Date: December 9, 2010
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 2404 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:	43047513600000 NBU 921-35G1BS		
Operator:	KERR-MCGEE OIL & GAS ONSHORE, L.P.		
String type:	Production	Project ID:	43-047-51360
Location:	UINTAH	COUNTY	

Design parameters:

Collapse

Mud weight: 12.000 ppg
 Internal fluid density: 1.000 ppg

Minimum design factors:

Collapse:

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
 Surface temperature: 74 °F
 Bottom hole temperature: 210 °F
 Temperature gradient: 1.40 °F/100ft
 Minimum section length: 100 ft

Cement top: 2,027 ft

Burst

Max anticipated surface pressure: 3,930 psi
 Internal gradient: 0.220 psi/ft
 Calculated BHP 6,073 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: 506 ft
 Maximum dogleg: 2 °/100ft
 Inclination at shoe: 0 °

Tension is based on air weight.
 Neutral point: 8,042 ft

Estimated cost: 128,504 (\$)

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 (\$)
2	9700	4.5	11.60	I-80	LT&C	9652	9700	3.875	128040
1	90	4.5	11.60	HCP-110	Buttress	9742	9790	3.875	464

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
2	5516	6353	1.152	6053	7780	1.29	113	212	1.88 J
1	5567	8650	1.554	6073	10690	1.76	1	367.2	99.99 B

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

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

Date: December 9, 2010
 Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 9742 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

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 921-35G1BS
API Number 43047513600000 **APD No** 3193 **Field/Unit** NATURAL BUTTES
Location: 1/4,1/4 SWNE **Sec** 35 **Tw** 9.0S **Rng** 21.0E 2053 **FNL** 1633 **FEL**
GPS Coord (UTM) **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 37 air miles and 44.3 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 921-35G pad will be created by significantly enlarging the existing pad of the CIGE 204 gas well. It will be enlarged in all directions. Five gas wells, to be directionally drilled, will be added. They are the NBU 921-35G1CS, NBU 921-35G4BS, NBU 921-35G1BS, MBU 921-35G4CS and NBU 921-35J1BS. The site is in moderately hilly terrain. A draw exists to the north and limits the expansion in this area. A hill to the south will be excavated for the reserve pit. On the northwest corner a short swale extends onto the site. It will be blocked with the topsoil stockpile. The access road at near Corner 2 will be changed. Here the edge of the pad will be beveled to provide a slope onto the pad for the road. A major tributary of Sand Wash is about 3/4 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 352 Length 465	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 rabbit brush, Indian ricegrass, stipa commata, greasewood, broom snakeweed, shadscale and halogeton.

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

Soil Type and Characteristics

Surface soils are a shallow rocky sandy loam.

Erosion Issues N

Sedimentation Issues N

Site Stability Issues N

Drainage Diverson Required? N

Berm Required? N

Erosion Sedimentation Control Required? Y

On the northwest corner a short swale extends onto the site. It will be blocked with the topsoil stockpile.

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

Reserve Pit

Site-Specific Factors	Site Ranking	
Distance to Groundwater (feet)	100 to 200	5
Distance to Surface Water (feet)	>1000	0
Dist. Nearest Municipal Well (ft)	>5280	0
Distance to Other Wells (feet)		20
Native Soil Type	Mod permeability	10
Fluid Type	Fresh Water	5
Drill Cuttings	Normal Rock	0
Annual Precipitation (inches)		0
Affected Populations		
Presence Nearby Utility Conduits	Not Present	0
	Final Score	40
		1 Sensitivity Level

Characteristics / Requirements

The proposed reserve pit is 120' x 260' x 12' deep located in a cut on the southeast 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
3193	43047513600000	LOCKED	GW	S	No
Operator	KERR-MCGEE OIL & GAS ONSHORE, L.P.		Surface Owner-APD		
Well Name	NBU 921-35G1BS		Unit	NATURAL BUTTES	
Field	NATURAL BUTTES		Type of Work	DRILL	
Location	SWNE 35 9S 21E S 2053 FNL 1633 FEL GPS Coord (UTM)			626814E	4427950N

Geologic Statement of Basis

Kerr McGee proposes to set 2,440' 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 2,300'. 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 37 air miles and 44.3 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 921-35G pad will be created by significantly enlarging the existing pad of the CIGE 204 gas well. It will be enlarged in all directions. Five gas wells, to be directionally drilled, will be added. They are the NBU 921-35G1CS, NBU 921-35G4BS, NBU 921-35G1BS, MBU 921-35G4CS and NBU 921-35J1BS. The site is in moderately hilly terrain. A draw exists to the north and limits the expansion in this area. A hill to the south will be excavated for the reserve pit. On the northwest corner a short swale extends onto the site. It will be blocked with the topsoil stockpile. The access road at near Corner 2 will be changed. Here the edge of the pad will be beveled to provide a slope onto the pad for the road. A major tributary of Sand Wash is about 3/4 mile to the east of the site and the White River about 3 mile down drainage. The selected site appears to be suitable for enlarging a pad, drilling and operating the proposed wells and is the only site in the immediate area.

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

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

Floyd Bartlett
Onsite Evaluator

11/30/2010
Date / Time

Application for Permit to Drill Statement of Basis

12/27/2010

Utah Division of Oil, Gas and Mining

Page 2

Conditions of Approval / Application for Permit to Drill

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

**WORKSHEET
APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 11/23/2010

API NO. ASSIGNED: 4304751360000

WELL NAME: NBU 921-35G1BS

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

PHONE NUMBER: 720 929-6156

CONTACT: Danielle Piernot

PROPOSED LOCATION: SWNE 35 090S 210E

Permit Tech Review:

SURFACE: 2053 FNL 1633 FEL

Engineering Review:

BOTTOM: 1583 FNL 1819 FEL

Geology Review:

COUNTY: UINTAH

LATITUDE: 39.99411

LONGITUDE: -109.51456

UTM SURF EASTINGS: 626814.00

NORTHINGS: 4427950.00

FIELD NAME: NATURAL BUTTES

LEASE TYPE: 3 - State

LEASE NUMBER: ML 22582

PROPOSED PRODUCING FORMATION(S): WASATCH-MESA VERDE

SURFACE OWNER: 3 - State

COALBED METHANE: NO

RECEIVED AND/OR REVIEWED:

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

Commingling Approved

LOCATION AND SITING:

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

Comments: Presite Completed

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



GARY R. HERBERT
Governor

GREGORY S. BELL
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

Well Name: NBU 921-35G1BS
API Well Number: 43047513600000
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

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 921-35G1BS
 Qtr/Qtr SWNE Section 35 Township 9S Range 21E
 Lease Serial Number ML 22582
 API Number 4304751360

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

Date/Time 06/16/2011 12:00 HRS AM PM

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

- Surface Casing
 Intermediate Casing
 Production Casing
 Liner
 Other

RECEIVED
 JUN 15 2011
 DIV. OF OIL, GAS & MINING

Date/Time 06/30/2011 00:00 HRS AM PM

BOPE

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

Date/Time _____ AM PM

Remarks ESTIMATED DATE AND TIME. PLEASE CONTACT KENNY GATHINGS AT

435.828.0986 OR LOVEL YOUNG AT 435.781.7051

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
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 921-35G1BS
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		9. API NUMBER: 43047513600000
PHONE NUMBER: 720 929-6515 Ext		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2053 FNL 1633 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNE Section: 35 Township: 09.0S Range: 21.0E Meridian: S		COUNTY: UINTAH
		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	
<input type="checkbox"/> 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 style="width: 50px;" type="text"/>	
<input checked="" type="checkbox"/> SPUD REPORT Date of Spud: 6/17/2011	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION	
<input type="checkbox"/> DRILLING REPORT Report Date:		
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.		
MIRU PETE MARTIN BUCKET RIG. DRILLED 20" CONDUCTOR HOLE TO 40'. RAN 14" 36.7# SCHEDULE 10 PIPE. CMT W/28 SX READY MIX. SPUD WELL ON 06/17/2011 AT 0800 HRS.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY		
NAME (PLEASE PRINT) Sheila Wopsock	PHONE NUMBER 435 781-7024	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 6/20/2011	

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 921-35G1BS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 4304751360000
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: 2053 FNL 1633 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNE 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

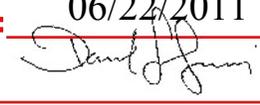
TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 6/8/2011 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input checked="" type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input type="text" value="Pit Utilization"/>

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

Kerr-McGee Oil & Gas Onshore, LP is requesting to refurb the existing pit on this multi-well pad for the completion operations. The refurb pit will be relined per the requirements in the COA of the APD. Upon completion of the wells on this pad, Kerr-McGee is also requesting to utilize this pit as an ACTS staging pit to be utilized for other completion operations in the area. We plan to keep this pit open for 1 year. During this time the surrounding well location completion fluids will be recycled in this pit and utilized for other frac jobs the surrounding sections. The following wells are on the NBU 921-35G Pad: NBU 921-35G1BS, NBU 921-35G1CS, NBU 921-35G4BS, NBU 921-35G4CS, NBU 921-35J1BS.

Approved by the Utah Division of Oil, Gas and Mining

Date: 06/22/2011

By: 

NAME (PLEASE PRINT) Gina Becker	PHONE NUMBER 720 929-6086	TITLE Regulatory Analyst II
SIGNATURE N/A	DATE 6/8/2011	

Please Review Attached Conditions of Approval

RECEIVED Jun. 08, 2011



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Sundry Conditions of Approval Well Number 43047513600000

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

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: ML 22582																														
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12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. MIRU AIR RIG ON JUNE 28, 2011. DRILLED SURFACE HOLE TO 2480'. RAN SURFACE CASING AND CEMENTED. WELL IS WAITING ON ROTARY RIG. DETAILS OF CEMENT JOB WILL BE INCLUDED WITH WELL COMPLETION REPORT.																																
NAME (PLEASE PRINT) Andy Lytle		PHONE NUMBER 720 929-6100																														
SIGNATURE N/A		TITLE Regulatory Analyst																														
DATE 6/30/2011																																

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: 1368 SOUTH 1200 EAST
city VERNAL
state UT zip 84078 Phone Number: (435) 781-7024

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304751360	NBU 921-35G1BS		SWNE	35	9S	21E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
B	99999	2900	6/17/2011			6/22/11	
Comments: MIRU PETE MARTIN BUCKET RIG. SPUD WELL ON 06/17/2011 AT 0800 HRS. <i>BHL = SWNE</i>							

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304751363	NBU 921-35G4CS		SWNE	35	9S	21E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
B	99999	2900	6/17/2011			6/22/11	
Comments: MIRU PETE MARTIN BUCKET RIG. <i>WSTMVD</i> SPUD WELL ON 06/17/2011 AT 1300 HRS. <i>BHL = SWNE</i>							

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304751396	NBU 921-35J SWD		NWSW	35	9S	21E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
A	99999	18079	6/17/2011			6/22/11	
Comments: MIRU PETE MARTIN BUCKET RIG. <i>GPRV</i> SPUD WELL LOCATION ON 06/17/2011 AT 0800 HRS.							

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)

SHEILA WOPSOCK

Name (Please Print)

Signature

REGULATORY ANALYST

Title

6/20/2011

Date

(5/2000)

RECEIVED

JUN 20 2011

DIV. OF OIL, GAS & MINING

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 921-35G1BS
Qtr/Qtr SW/NE Section 35 Township 9S Range 21E
Lease Serial Number ML-22582
API Number 43-047-51360

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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JUL 26 2011
DIV. OF OIL, GAS & MINING

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 SUN. 7/24/2011 06:00 AM PM

Remarks TIME IS ESTIMATED, B&C QUICK TEST

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 921-35G1BS
Qtr/Qtr SW/NE Section 35 Township 9S Range 21E
Lease Serial Number ML-22582
API Number 43-047-51360

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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AUG 01 2011
DIV. OF OIL, GAS & MINING

Date/Time SAT. 7/30/2011 0100 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 TIME IS ESTIMATED

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
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.		5. LEASE DESIGNATION AND SERIAL NUMBER: ML 22582 6. IF INDIAN, ALLOTTEE OR TRIBE NAME: 7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES 8. WELL NAME and NUMBER: NBU 921-35G1BS 9. API NUMBER: 43047513600000 9. FIELD and POOL or WILDCAT: NATURAL BUTTES COUNTY: UINTAH STATE: UTAH
1. TYPE OF WELL Gas Well		3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		PHONE NUMBER: 720 929-6515 Ext
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2053 FNL 1633 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNE Section: 35 Township: 09.0S Range: 21.0E Meridian: S		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION <input type="checkbox"/> NOTICE OF INTENT Approximate date work will start: <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input checked="" type="checkbox"/> DRILLING REPORT Report Date: 7/30/2011	TYPE OF ACTION <input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. MIRU ROTARY RIG. FINISHED DRILLING FROM 2480' TO 9830' ON JULY 29, 2011. RAN 4-1/2" 11.6# I-80 PRODUCTION CASING TO 9620'. RAN 4 1/2" 11.6# P110 CSG FROM 9620' TO 9816'. CEMENTED PRODUCTION CASING RELEASED H&P RIG 311 ON JULY 30, 2011 @ 1900 HRS. DETAILS OF CEMENTED PRODUCTION CASING JOB WILL BE INCLUDED WITH THE WELL COMPLETION REPORT. WELL WAITING ON FINAL COMPLETION ACTIVITIES.		
NAME (PLEASE PRINT) Andy Lytle		PHONE NUMBER 720 929-6100
SIGNATURE N/A		TITLE Regulatory Analyst DATE 8/1/2011

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

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS		5. LEASE DESIGNATION AND SERIAL NUMBER: ML 22582
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: NBU 921-35G1BS	
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047513600000	
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: 2053 FNL 1633 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNE 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"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input checked="" type="checkbox"/> DRILLING REPORT Report Date: 9/29/2011	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input checked="" type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	
	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.		
<p>THE SUBJECT WELL WAS PLACED ON PRODUCTION ON 09/29/2011 AT 10:00 AM. THE CHRONOLOGICAL WELL HISTORY WILL BE SUBMITTED WITH THE WELL COMPLETION REPORT.</p> <p style="text-align: right;">Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY</p>		
NAME (PLEASE PRINT) Sheila Wopsock	PHONE NUMBER 435 781-7024	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 9/30/2011	

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

AMENDED REPORT FORM 8
(highlight changes)

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. LEASE DESIGNATION AND SERIAL NUMBER:
ML 22582

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT or CA AGREEMENT NAME
UTU63047A

8. WELL NAME and NUMBER:
NBU 921-35G1BS

9. API NUMBER:
4304751360

10. FIELD AND POOL, OR WILDCAT
NATURAL BUTTES

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

12. COUNTY
UINTAH

13. STATE
UTAH

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: **SWNE 2053 FNL 1633 FEL S35, T9S, R21E**
AT TOP PRODUCING INTERVAL REPORTED BELOW: **SWNE 1572 FNL 1821 FEL S35, T9S, R21E**
AT TOTAL DEPTH: **SWNE 1586 FNL 1799 FEL S35, T9S, R21E**

14. DATE SPURRED: **6/17/2011** 15. DATE T.D. REACHED: **7/29/2011** 16. DATE COMPLETED: **9/29/2011** ABANDONED READY TO PRODUCE

17. ELEVATIONS (DF, RKB, RT, GL): **5119 GL**

18. TOTAL DEPTH: MD **9,830** TVD **9,776** 19. PLUG BACK T.D.: MD **9,772** TVD **9,718** 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)
SYNTHETIC TRIPLE COMBO-CBL

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 (#/R.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
20"	14" STL	36.7#	0	40		28			
11"	8 5/8" IJ-55	28#	0	2,481		680		0	
7 7/8"	4 1/2" I-80	11.6#	0	9,620		1,585		1250	
7 7/8"	4 1/2" P-110	11.6#	9,620	9,816					

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"	9,193							

26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)
(A) MESAVERDE	7,717	9,604		
(B) <i>WSMVD</i>				
(C)				
(D)				

27. PERFORATION RECORD

INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
7,717 9,604	0.36	215	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"/>
			Open <input type="checkbox"/> Squeezed <input type="checkbox"/>

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

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
7717 - 9604	PUMP 10,857 BBLs SLICK H2O & 208,991 LBS 30/50 OTTAWA SAND 9 STAGES

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

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DIV. OF OIL, GAS & MINING

31. INITIAL PRODUCTION

INTERVAL A (As shown in item #26)

DATE FIRST PRODUCED: 9/29/2011	TEST DATE: 10/23/2011	HOURS TESTED: 24	TEST PRODUCTION RATES: →	OIL – BBL: 4	GAS – MCF: 2,555	WATER – BBL: 293	PROD. METHOD: FLOWING
CHOKE SIZE: 20/64	TBG. PRESS. 1,237	CSG. PRESS. 1,709	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	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: →	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: →	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: →	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	1,547
				BIRD'S NEST	1,855
				MAHOGANY	2,242
				WASATCH	4,864
				MESAVERDE	7,478

35. ADDITIONAL REMARKS (Include plugging procedure)

The first 210' of the surface hole was drilled with a 12 1/4" bit. The remainder of surface hole was drilled with an 11" bit. Attached is the chronological well history, perforation report & 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) JAIME SCHARNOWSKE TITLE REGULATORY ANALYST
 SIGNATURE *Jaime Scharnowske* DATE 11/1/2011

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 Phone: 801-538-5340
 1594 West North Temple, Suite 1210
 Box 145801 Fax: 801-359-3940
 Salt Lake City, Utah 84114-5801

US ROCKIES REGION

Operation Summary Report

Well: NBU 921-35G1BS YELLOW		Spud Conductor: 6/16/2011		Spud Date: 6/28/2011	
Project: UTAH-UINTAH		Site: NBU 921-35G PAD		Rig Name No: PROPETRO 12/12, H&P 311/311	
Event: DRILLING		Start Date: 6/11/2011		End Date: 7/30/2011	
Active Datum: RKB @5,144.00usft (above Mean Sea Level)			UWI: SW/NE/0/9/S/21/E/35/0/0/26/PM/N/2053/E/0/1633/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
6/28/2011	3:00 - 5:30	2.50	DRLSUR	01	B	P		BUILD DITCH. MOVE RIG OVER HOLE AND RIG UP. SET CATWALK AND PIPE RACKS. RIG UP
	5:30 - 7:00	1.50	DRLSUR	02	D	P		SPUD SURFACE 6/28/2011 05:30 HRS. DRILL 12.25" SURFACE HOLE F/40'-210' (170' @ 113'/HR) PSI ON/ OFF 450/200, UP/ DOWN/ ROT 32/30/31. 450 GPM, 45 RPM ON TOP DRIVE, 15-18K
	7:00 - 7:30	0.50	DRLSUR	06	A	P		TOOH, LD 12.25" BIT,
	7:30 - 8:00	0.50	DRLSUR	07	A	P		RIG SERVICE
	8:00 - 8:30	0.50	DRLSUR	08	A	Z		RIG REPAIR, TIGHTEN SHOCK SUB ON POWER HEAD (TOP DRIIVE)
	8:30 - 10:30	2.00	DRLSUR	06	A	P		P/U 11' BIT, DIR TOOLS & ORIENT TIH TO 210'
	10:30 - 0:00	13.50	DRLSUR	02	D	P		DRILL/ SLIDE 11" SURFACE HOLE F/ 210'-1480' (1270' @ 94 'HR) PSI ON/ OFF 1300/1100 , UP/ DN/ ROT 71/56/61, 135 SPM, 553 GPM, 18-20K WOB, 40-50 RPM ON TOP DRIVE,MMRPM 88, CIRCULATING RESERVE PIT
6/29/2011	0:00 - 12:30	12.50	DRLSUR	02	D	P		DRILL/ SLIDE 11" SURFACE HOLE F/ 1480' - 2480' (1000" @ 80 'HR) PSI ON/ OFF 1500/1200 , UP/ DN/ ROT 82/64/68, 135 SPM, 553 GPM, 18-20K WOB, 40-50 RPM ON TOP DRIVE,MMRPM 88, CIRCULATING RESERVE PIT
	12:30 - 14:30	2.00	DRLSUR	05	C	P		CIRC & COND HOLE CLEAN
	14:30 - 19:00	4.50	DRLSUR	06	A	P		LD DS & DIR BHA
	19:00 - 20:00	1.00	DRLSUR	12	A	P		R/U TO RUN CASING, MOVE CASING OVER TO WORK AREA
	20:00 - 23:00	3.00	DRLSUR	12	C	P		RUN 55 JTS 8 5/8, 28#, J55, ST&C SURFACE CASING LAND SHOE @ 2459.92 W/ 18' KB, RUN BAFFLE IN TOP OF SHOE JT @ 2413.77, FILL PIPE @ 1000', RIG DOWN RIG
	23:00 - 0:00	1.00	DRLSUR	12	E	P		SAFETY MEETING W/ PRO PETRO CEMENTERS,R/U INSTALL CEMENT HEAD, RUN 200' 1" PIPE DOWN BACK SIDE, START PUMPING CEMENT
6/30/2011	0:00 - 4:00	4.00	DRLSUR	12	E	P		PUMP 110 BBLS H2O AHEAD, 20 BBLS OF 8.4 GEL WATER AHEAD, 180 SX, 122.5 BBLS ,11#, 3.82 YLD LEAD, 200 SX, 41 BBLS 15.8, 1.15 YLD TAIL DISPLACE W/ 150 BBLS WATER, FINAL LIFT 580 PSI ,BUMP PLUG & HOLD 1000 PSI F/ 5 MIN ,FLOAT HELD, PARTIAL RETURNS THROUGH OUT JOB, 1ST TOP OUT PUMP 150SX, 15.8#, 3.82 YLD 4% CaCl2, 1/4 LB/SK FLOCELE , GOT CMT TO SURFACE BUT FELL BACK, WAIT 2 HRS ,PUMPED 2ND TOP OUT 150 SX 15.8, 3.82 YLD 4% CaCl2, 1/4 SX FLOCELE, CEMENT STAYED @ SURFACE, R/D CEMENTERS & RELEASE RIG @ 04:00 6/30/2011
7/24/2011	3:00 - 3:30	0.50	PRPSPD	01	C	P		SKIDDED RIG FROM NBU 921-35G4CS
	3:30 - 5:30	2.00	PRPSPD	14	A	P		NU BOPE

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 921-35G1BS YELLOW		Spud Conductor: 6/16/2011	Spud Date: 6/28/2011
Project: UTAH-UINTAH		Site: NBU 921-35G PAD	Rig Name No: PROPETRO 12/12, H&P 311/311
Event: DRILLING		Start Date: 6/11/2011	End Date: 7/30/2011
Active Datum: RKB @5,144.00usft (above Mean Sea Level)		UWI: SW/NE/0/9/S/21/E/35/0/0/26/PM/N/2053/E/0/1633/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	5:30 - 10:00	4.50	PRPSPD	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. HAD ZECO COME AND GO THRU THEIR SUPER CHOKE, CHOKE CONSOLE UNIT AND STROKE COUNTER.
	10:00 - 10:30	0.50	PRPSPD	15	A	P		TESTED SURFACE CASING TO 1500 PSI FOR 30 MINUTES.
	10:30 - 11:00	0.50	PRPSPD	14	B	P		INSTALLED WEAR BUSHING.
	11:00 - 12:30	1.50	DRLPRO	06	A	P		MADE UP HUGHES Q506F BIT WITH 6-16S, SERIAL #7130820, BAKER INTEQ 6.5" ULTRA G SERIES XL-RS MUD MOTOR, 5:6 LOBE, 4.0 HARD RUBBER, 1.5 DEGREE BEND, 0.21 REV/GAL. MADE UP DIRECTIONAL TOOLS, SCRIBED MOTOR, INSTALLED EFIELD TOOL, MADE UP REMAINING DIRECTIONAL TOOLS.
	12:30 - 13:30	1.00	DRLPRO	06	A	P		TRIP IN THE HOLE, TAGGED CEMENT AT 2335'.
	13:30 - 17:00	3.50	DRLPRO	02	F	P		DRILLED CEMENT, BAFFLE PLATE, SHOE TRACK AND SHOE. BAFFLE PLATE WAS VERY HARD TO DRILL HAD TO INCREASE WOB TO 20K TO GET IT TO DRILL. TRIED PUMPING HIGH VIS SWEEPS WITH NO HELP. CEMENT WAS EXTREMELY HARD. OUT OF THE 3.5 HRS, 2 HRS TO DRILL THE BAFFLE PLATE AND 1.5 HRS TO DRILL THE SHOE TRACK. RIG SERVICE
	17:00 - 17:30	0.50	DRLPRO	07	A	P		GOAL ON THIS WELL WAS TO HOLD 11.57 DEGREES FOR 550' THEN START DROPPING AND BE VERTICAL BY 3640'. DRILL 2501'-3492', 991' IN 6.5 HRS, 152.4 FPH. MADE 10 SLIDES FOR A TOTAL OF 190' IN 2.43 HRS, 78 FPH WHILE SLIDING. WITHOUT SLIDING MADE 801' IN 4.07 HRS, 196.8 FPH. SILDE TIME WAS 37%, SLIDE FOOTAGE WAS 19%. WELL JUST WANTED TO DROP, USED MOST OF OUR SLIDES TO BUMP THE ANGLE BACK UP. WOB WAS 15-19K, PUMP #2 AT 110 SPM, 495 GPM, MOTOR TURNING AT 104 RPM WITH TOP DRIVE AT 55 RPM FOR A TOTAL OF 159 RPM AT THE BIT. DIFFERENTIAL PRESSURE WAS 350-500 PSI. ON/OFF BOTTOM PUMP PRESSURE WAS 1370/870 PSI. ON/OFF BOTTOM TORQUE WAS 8/5K. PU/SO/ROT WAS 125/88/104. CIRCULATING THE HIGH CHLORIDES RESERVE PIT, RESERVE PIT STILL SPLIT.
	17:30 - 0:00	6.50	DRLPRO	02	D	P		

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-35G1BS YELLOW		Spud Conductor: 6/16/2011		Spud Date: 6/28/2011	
Project: UTAH-UINTAH		Site: NBU 921-35G PAD		Rig Name No: PROPETRO 12/12, H&P 311/311	
Event: DRILLING		Start Date: 6/11/2011		End Date: 7/30/2011	
Active Datum: RKB @5,144.00usft (above Mean Sea Level)			UWI: SW/NE/0/9/S/21/E/35/0/0/26/PM/N/2053/E/0/1633/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
7/25/2011	0:00 - 6:00	6.00	DRLPRO	02	D	P		DRILLED/SLIDE 3492'-4623', 1131' IN 6 HRS, 188.5 FPH. MADE 2 SLIDES FOR A TOTAL OF 40' IN .66 HRS, 60.6 FPH. WITHOUT THE SLIDES WE DRILLED 1091' IN 5.34 HRS OR 204.3 FPH. WOB WAS 19-22K, PUMP #2 AT 110 SPM, 495 GPM, MOTOR TURNING AT 104 RPM WITH TOP DRIVE AT 55 RPM FOR A TOTAL OF 159 RPM AT THE BIT. DIFFERENTIAL PRESSURE WAS 350-500 PSI. ON/OFF BOTTOM PUMP PRESSURE WAS 1450/1000 PSI. ON/OFF BOTTOM TORQUE WAS 9/7K. PU/SO/ROT WAS 145/100/124. CIRCULATING THE HIGH CHLORIDES RESERVE PIT, RESERVE PIT STILL SPILT.
	6:00 - 17:30	11.50	DRLPRO	02	D	P		DRILLED/SLIDE 4623'-6321', 1698' IN 11.5 HRS, 147.7 FPH. MADE 2 SLIDES FOR A TOTAL OF 30' IN 0.92 HRS, 32.6 FPH. WITHOUT THE SLIDES WE DRILLED 1668' IN 10.58 HRS, 158.9 FPH. WOB WAS 21-25K, PUMP #2 AT 110 SPM, 495 GPM, MOTOR TURNING AT 104 RPM WITH TOP DRIVE AT 55 RPM FOR A TOTAL OF 159 RPM AT THE BIT. DIFFERENTIAL PRESSURE WAS 350-500 PSI. ON/OFF BOTTOM PUMP PRESSURE WAS 1675/1250 PSI. ON/OFF BOTTOM TORQUE WAS 13/9K. PU/SO/ROT WAS 188/125/150. CIRCULATING THE HIGH CHLORIDES RESERVE PIT, RESERVE PIT STILL SPILT. LOST A LITTLE FLUID AT 5567', PUMPED A HIGH LCM SWEEP AND IT HEALED UP, NEVER LOST FULL RETURNS, PROBABLY ABOUT +/-50%. RIG SERVICE.
	17:30 - 18:00	0.50	DRLPRO	07	A	P		
	18:00 - 0:00	6.00	DRLPRO	02	D	P		DRILLED/SLIDE 6321'-6998', 677' IN 6 HRS, 112.8 FPH. 100% ROTATING. WOB WAS 21-25K, PUMP #2 AT 110 SPM, 495 GPM, MOTOR TURNING AT 104 RPM WITH TOP DRIVE AT 55 RPM FOR A TOTAL OF 159 RPM AT THE BIT. DIFFERENTIAL PRESSURE WAS 350-500 PSI. ON/OFF BOTTOM PUMP PRESSURE WAS 1650/1360 PSI. ON/OFF BOTTOM TORQUE WAS 10/9K. PU/SO/ROT WAS 210/135/161. CIRCULATING THE HIGH CHLORIDES RESERVE PIT, RESERVE PIT STILL SPILT.
7/26/2011	0:00 - 6:00	6.00	DRLPRO	02	D	P		DRILLED 6998'-7390', 392' IN 6 HRS, 65.3 FPH. 100% ROTATING. WOB WAS 21-25K, PUMP #2 AT 100 SPM, 450 GPM, MOTOR TURNING AT 94 RPM WITH TOP DRIVE AT 55 RPM FOR A TOTAL OF 149 RPM AT THE BIT. DIFFERENTIAL PRESSURE WAS 350-500 PSI. ON/OFF BOTTOM PUMP PRESSURE WAS 1450/1200 PSI. ON/OFF BOTTOM TORQUE WAS 9/9K. PU/SO/ROT WAS 205/135/167. STARTED MUDDING UP AT 7000', SLOWED PUMPS DOWN FROM 110 SPM TO 100 SPM DUE TO FLUID LOSSES. MW WAS 9.8 PPG WITH 37 VIS AND 3% LCM.

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 921-35G1BS YELLOW		Spud Conductor: 6/16/2011	Spud Date: 6/28/2011
Project: UTAH-UINTAH		Site: NBU 921-35G PAD	Rig Name No: PROPETRO 12/12, H&P 311/311
Event: DRILLING		Start Date: 6/11/2011	End Date: 7/30/2011
Active Datum: RKB @5,144.00usft (above Mean Sea Level)		UWI: SW/NE/0/9/S/21/E/35/0/0/26/PM/N/2053/E/0/1633/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	6:00 - 16:00	10.00	DRLPRO	02	D	P		DRILLED 7390'-7925', 535' IN 10 HRS, 53.5 FPH. MADE 1 SLIDE, 20' IN 1.33 HRS, 15 FPH. WITHOUT THE SLIDE WE DRILLED 515' IN 8.67 HRS, 59.4 FPH. WOB WAS 21-25K, PUMP #2 AT 100 SPM, 450 GPM, MOTOR TURNING AT 94 RPM WITH TOP DRIVE AT 55 RPM FOR A TOTAL OF 149 RPM AT THE BIT. DIFFERENTIAL PRESSURE WAS 300-400 PSI. ON/OFF BOTTOM PUMP PRESSURE WAS 1700/1400 PSI. ON/OFF BOTTOM TORQUE WAS 9/10K. PU/SO/ROT WAS 211/147/172. STARTED MUDDING UP AT 7000', SLOWED PUMPS DOWN FROM 110 SPM TO 100 SPM DUE TO FLUID LOSSES. MW WAS 10.6 PPG WITH 37 VIS AND 5% LCM. NEVER REALLY LOST RETURNS BUT HAD SOME LOSSES AND SOME SEEPAGE. RIG SERVICE.
	16:00 - 16:30	0.50	DRLPRO	07	A	P		
	16:30 - 0:00	7.50	DRLPRO	02	D	P		DRILLED 7925'-8165', 240' IN 6 HRS, 40 FPH. MADE 2 BRUTAL SLIDES TRYING TO TURN THIS WELL TO THE NORTH SO WE CAN ROTATE OUT, FINALLY GOT IT TURNED. SLIDE A TOTAL OF 32' IN 2.67 HRS, 12.0 FPH. WITHOUT THE 2 SLIDES WE DID NOT DO BAD, WE DRILLED 208' IN 3.33 HRS, 63 FPH. WOB WAS 21-25K, PUMP #2 AT 100 SPM, 450 GPM, MOTOR TURNING AT 94 RPM WITH TOP DRIVE AT 55 RPM FOR A TOTAL OF 149 RPM AT THE BIT. DIFFERENTIAL PRESSURE WAS 300-400 PSI. ON/OFF BOTTOM PUMP PRESSURE WAS 2250/1800 PSI. ON/OFF BOTTOM TORQUE WAS 9/9K. PU/SO/ROT WAS 218/150/172. MW WAS 11.0 PPG WITH 37 VIS AND 5% LCM. MAINTAINING SOME SEEPAGE LOSSES.
7/27/2011	0:00 - 6:00	6.00	DRLPRO	02	D	P		DRILLED 8165'-8428', 263' IN 6 HRS, 43.8 FPH. 100% ROTATING. WOB WAS 21-25K, PUMP #2 AT 100 SPM, 450 GPM, MOTOR TURNING AT 94 RPM WITH TOP DRIVE AT 55 RPM FOR A TOTAL OF 149 RPM AT THE BIT. DIFFERENTIAL PRESSURE WAS 300-400 PSI. ON/OFF BOTTOM PUMP PRESSURE WAS 2300/1850 PSI. ON/OFF BOTTOM TORQUE WAS 9/9K. PU/SO/ROT WAS 220/152/175. MW WAS 11.2 PPG WITH 40 VIS AND 8% LCM. INCREASING LCM CONTENT, SOME SEEPAGE LOSSES.
	6:00 - 17:30	11.50	DRLPRO	02	D	P		DRILLED 8428'-8931', 503' IN 11.5 HRS, 43.7 FPH. 100% ROTATING. WOB WAS 21-25K, PUMP #2 AT 100 SPM, 450 GPM, MOTOR TURNING AT 94 RPM WITH TOP DRIVE AT 55 RPM FOR A TOTAL OF 149 RPM AT THE BIT. DIFFERENTIAL PRESSURE WAS 300-400 PSI. ON/OFF BOTTOM PUMP PRESSURE WAS 2300/2000 PSI. ON/OFF BOTTOM TORQUE WAS 11/10K. PU/SO/ROT WAS 230/152/180. MW WAS 11.7 PPG WITH 40 VIS AND 8% LCM, SOME SEEPAGE LOSSES. PUT WELL ON GAS BUSTER AT 8695'/1200HRS WITH 5-10' FLARE. FLARE WAS INTERMITTENT 5-20', INCREASING MW. RIG SERVICE.
	17:30 - 18:00	0.50	DRLPRO	07	A	P		

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 921-35G1BS YELLOW		Spud Conductor: 6/16/2011		Spud Date: 6/28/2011	
Project: UTAH-UINTAH		Site: NBU 921-35G PAD		Rig Name No: PROPETRO 12/12, H&P 311/311	
Event: DRILLING		Start Date: 6/11/2011		End Date: 7/30/2011	
Active Datum: RKB @5,144.00usft (above Mean Sea Level)			UWI: SW/NE/0/9/S/21/E/35/0/0/26/PM/N/2053/E/0/1633/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	18:00 - 0:00	6.00	DRLPRO	02	D	P		DRILLED 8931'-9071', 140' IN 6 HRS, 23.3 FPH. 100% ROTATING. VERY ERRACTIC DRILLING, ROP VARIED FROM 10-120 FPH. WOB WAS 21-25K, PUMP #2 AT 100 SPM, 450 GPM, MOTOR TURNING AT 94 RPM WITH TOP DRIVE AT 55 RPM FOR A TOTAL OF 149 RPM AT THE BIT. DIFFERENTIAL PRESSURE WAS 200-300 PSI. ON/OFF BOTTOM PUMP PRESSURE WAS 2265/2150 PSI. ON/OFF BOTTOM TORQUE WAS 11/8K. PU/SO/ROT WAS 225/160/182. MW WAS 11.9 PPG WITH 40 VIS AND 8% LCM, SOME SEEPAGE LOSSES. PUT WELL ON GAS BUSTER AT 8695'/1200HRS WITH 5-10' FLARE. FLARE WAS INTERMITTENT 5-20', INCREASING MW, TOOK WELL OFF BUSTER AT 8947'/1900 HRS.
7/28/2011	0:00 - 3:30	3.50	DRLPRO	02	D	P		DRILLED 9071'-9123', 52' IN 3.5 HRS, 14.9 FPH. 100% ROTATING. WOB WAS 21-25K, PUMP #2 AT 100 SPM, 450 GPM, MOTOR TURNING AT 94 RPM WITH TOP DRIVE AT 55 RPM FOR A TOTAL OF 149 RPM AT THE BIT. DIFFERENTIAL PRESSURE WAS 200-300 PSI. ON/OFF BOTTOM PUMP PRESSURE WAS 2265/2150 PSI. ON/OFF BOTTOM TORQUE WAS 11/8K. PU/SO/ROT WAS 225/160/182. MW WAS 11.9 PPG WITH 40 VIS AND 8% LCM, SOME SEEPAGE LOSSES. BIT JUST DIED, RIGHT NOW.
	3:30 - 4:30	1.00	DRLPRO	05	C	P		CIRCULATED BOTTOMS UP, 12.0 MW IN AND OUT. 42 VIS WITH 8% LCM. NO GAS.
	4:30 - 5:00	0.50	DRLPRO	05	J	P		FLOW CHECKED WELL, NO FLOW.
	5:00 - 9:00	4.00	DRLPRO	06	A	P		PUMPED SLUG AND TRIPPED OUT OF THE HOLE, NO TITE SPOTS OR OVERPULLS. FLOW CHECKED WELL AT SHOE, NO FLOW.
	9:00 - 11:00	2.00	DRLPRO	06	A	P		PULLED EFIELD TOOL, RACKED BACK DIRECTIONAL TOOLS. DRAINED MOTOR WITH NO PROBLEMS, BROKE BIT OFF AND LD BOTH. PICKED UP NEW HUNTING 6.5", 7:8 LOBE, 3.3 HR, STRAIGHT, 0.16 REV/GAL MUD MOTOR WITH A HUGHES Q506F BIT SERIAL # 7132146 W 6-16'S.
	11:00 - 16:00	5.00	DRLPRO	06	A	P		TRIP IN THE HOLE, NEVER SAW ANYTHING, BROKE CIRCULATION AT THE SHOE, 6366', 8122'. PRECAUTIONARY WASHING AND REAMING FROM 8978'-9123', STRAIGHT TO BOTTOM, NO FILL. GOT BOTTOMS UP GAS HALF WAY THRU FULL BOTTOMS UP, PUT ON GAS BUSTER FOR 30 MINUTES WITH A 10-15' FLARE.
	16:00 - 0:00	8.00	DRLPRO	02	D	P		DRILLED 9123'-9589', 466' IN 8 HRS, 58.3 FPH. WOB WAS 21-25K, PUMP #2 AT 110 SPM, 495 GPM, MOTOR TURNING AT 97 RPM WITH TOP DRIVE AT 50 RPM FOR A TOTAL OF 147 RPM AT THE BIT. DIFFERENTIAL PRESSURE WAS 300-400 PSI. ON/OFF BOTTOM PUMP PRESSURE WAS 3050/2790 PSI. ON/OFF BOTTOM TORQUE WAS 9/8K. PU/SO/ROT WAS 240/162/185. MW WAS 12.2 PPG WITH 40 VIS AND 8% LCM, MAINTAINING 12.2 PPG MW. SOME SEEPAGE LOSSES.

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 921-35G1BS YELLOW		Spud Conductor: 6/16/2011		Spud Date: 6/28/2011	
Project: UTAH-UINTAH		Site: NBU 921-35G PAD		Rig Name No: PROPETRO 12/12, H&P 311/311	
Event: DRILLING		Start Date: 6/11/2011		End Date: 7/30/2011	
Active Datum: RKB @5,144.00usft (above Mean Sea Level)			UWI: SW/NE/0/9/S/21/E/35/0/0/26/PM/N/2053/E/0/1633/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
7/29/2011	0:00 - 5:00	5.00	DRLPRO	02	D	P		DRILLED 9589'-9830', 241' IN 5 HRS, 48.2 FPH. WOB WAS 21-25K, PUMP #2 AT 110 SPM, 495 GPM, MOTOR TURNING AT 97 RPM WITH TOP DRIVE AT 50 RPM FOR A TOTAL OF 147 RPM AT THE BIT. DIFFERENTIAL PRESSURE WAS 300-400 PSI. ON/OFF BOTTOM PUMP PRESSURE WAS 3050/2790 PSI. ON/OFF BOTTOM TORQUE WAS 9/8K. PU/SO/ROT WAS 240/162/185. MW WAS 12.2 PPG WITH 40 VIS AND 8% LCM, MAINTAINING 12.2 PPG MW. HAD TO PUT THE WELL ON THE BUSTER AT 0330/9770' WITH A 15-20' FLARE. RAISED MW TO 12.4 PPG.
	5:00 - 6:30	1.50	DRLPRO	05	C	P		CIRCULATED 2 BOTTOMS UP WITH 12.4 PPG. TOOK WELL OFF BUSTER.
	6:30 - 7:00	0.50	DRLPRO	05	J	P		FLOW CHECKED WELL, NO FLOW.
	7:00 - 13:30	6.50	DRLPRO	06	E	P		PUMPED SLUG AND TRIPPED OUT OF THE HOLE. NO OVERPULLS OR TITE SPOTS. PULLED TO THE SHOE AND TRIPPED BACK IN. FILLED/CIRCULATED AT 5103' AND 7488'. PRECAUTIONARY WASHING AND REAMING TO BOTTOM, NO FILL.
	13:30 - 15:00	1.50	DRLPRO	05	C			CIRCULATED 2 BOTTOMS UP, SHOOK ALL LCM OUT. DID NOT HAVE TO PUT WELL ON BUSTER. 12.5 PPG, 40 VIS WITH MOST OF THE LCM SHAKEN OUT.
	15:00 - 15:30	0.50	DRLPRO	05	J	P		FLOW CHECKED WELL AND DROPPED A SURVEY, NO FLOW.
	15:30 - 20:30	5.00	DRLPRO	06	D	P		PUMPED SLUG AND STARTED TRIPPING OUT OF THE HOLE, NO OVERPULLS OR TITE SPOTS. FLOW CHECKED WELL AT THE SHOE, NO FLOW. RETRIEVED SURVEY TOOL, BROKE BIT OFF MOTOR AND RACKED BACK MONEL AND STRAIGHT MUD MOTOR.
	20:30 - 21:00	0.50	DRLPRO	06	D	P		PULLED WEAR BUSHING.
	21:00 - 22:30	1.50	CSG	21	E	Z		WAITED ON CASING CREW AND EQUIPMENT. CALLED OUT FOR 2100 HRS.
	22:30 - 0:00	1.50	CSG	12	A	P		HELD SAFETY MEETING AND RIGGED UP CASING CREW AND EQUIPMENT.
7/30/2011	0:00 - 2:30	2.50	CSG	12	C	P		STARTED RUNNING 4.5" PRODUCTION CASING. 4.5" CASING WAS RUN AS FOLLOWS- MADE UP WITH THREAD LOCK, SHOE, SHOE TRACK JOINT (HCP110, 11.6#, BTC, R3) AND FLOAT COLLAR. INSTALLED CENTRALIZER ON SHOE TRACK. RAN ANOTHER 3 JTS OF HCP110 AND 1-24' JT THEN RAN 55 JTS 180, BTC, 11.6#, R3 AND THE MESA VERDE MARKER JOINT TO 2374', RIGGED UP TO CIRCULATE. FILLED PIPE AND CASING PRESSURE UP, RUPTURED FLOWLINE DRESSER SLEEVE.
	2:30 - 5:00	2.50	CSG	08	A	Z		WHILE CIRCULATING THE 4.5" CASING AT THE SURFACE CASING SHOE THE FLOWLINE DRESSER SLEEVE RUPTURED DUE TO A CLOSED VALVE. REPAIRED FLOWLINE.

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 921-35G1BS YELLOW		Spud Conductor: 6/16/2011	Spud Date: 6/28/2011
Project: UTAH-UINTAH		Site: NBU 921-35G PAD	Rig Name No: PROPETRO 12/12, H&P 311/311
Event: DRILLING		Start Date: 6/11/2011	End Date: 7/30/2011
Active Datum: RKB @5,144.00usft (above Mean Sea Level)		UWI: SW/NE/0/9/S/21/E/35/0/0/26/PM/N/2053/E/0/1633/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	5:00 - 13:00	8.00	CSG	12	C	P		CONTINUED RUNNING 4.5" CASING. RAN 174 JTS 180, BTC, 11.6#, R3. SET 21' MARKER JOINT AT 7471' AND A 29' MARKER JOINT AT 4787'. SET CASING AT 9816' WITH FLOAT COLLAR AT 9774'. FILLED AND CIRCULATE CASING AT 5056'. FILLED PIPE AT 7037', WORKED PIPE WHILE FILLING, MADE A CONNECTION AND CASING WAS STUCK. WORKED PIPE, PUMPED 200 BBLS FRESH WATER FOLLOWED BY 110 BBLS SYSTEM MUD. SPOTTED FRESH WATER FROM 7037' TO THE SURFACE CASING SHOE. STACKED ALL THE CASING WEIGHT ON THE PIPE, WAITED 10 MINUTES, PICKED UP TO 150K AND PIPE CAME FREE. RAN ANOTHER 5 JTS AND THEN DISPLACED THE WATER OUT OF THE HOLE WITH SYSTEM MUD.
	13:00 - 14:30	1.50	CSG	12	A	P		FILLED CASING AND STARTED CIRCULATING AT 360 GPM AND 945 PSI. RIGGED DOWN CASERS AND STARTED RIGGING UP CEMENTERS. PUT WELL ON BUSTER WITH A 15-20' FLARE FOR 45 MINUTES, FLARE QUIT. CIRCULATED 2 BOTTOMS UP.
	14:30 - 16:30	2.00	CSG	12	E	P		PRESSURE TESTED LINES TO 5422 PSI. PUMPED 15 BBLS OF H2O SPACER AND 10 BBLS, 20 SXS, 11.5 PPG SCAVENGER SLURRY AHEAD, PUMPED 188 BBLS (535 SX OF 12.5#, 1.98 CFT/SX, 10.45 GAL/SK) LEAD PREMIUM LIGHT CEMENT. PUMPED 245 BBLS (1050 SX OF 14.3#, 1.31 YD, 5.90 GAL/SK) POZ PREMIUM 50/50 TAIL CEMENT. SHUT DOWN AND WASHED LINES, DROPPED 4.5" TOP PLUG, PUMP 152.0 BBLS OF H2O TREATED WITH BIOCIDES AND CLAY INHIBITOR. BUMPED PLUG AT 3000 PSI, PRESSURED UP CSG TO 3750 PSI AND HELD FOR 5 MIN. CHECKED FLOATS, FLOATS HELD, FLOWED BACK 2.0 BBLS. EST TOC TAIL @ 4350', LEAD @ 50'. HAD 100% RETURNS AND GOT BACK 7 BBLS SCAVENGER BACK, FLUID BACK WAS NASTY, VERY THICK AND EMULSIFIED, IT FLOWED OUT IN CLUMPS. THIS HAPPEN ON THE LAST WELL SO WE INCREASE THE FRESH WATER SPACER FROM 5 TO 15 BBLS ON THIS JOB BUT STILL GOT THE THICK, NASTY FLUID BACK.
	16:30 - 17:00	0.50	CSG	12	B	P		RIGGED DOWN CEMENTERS.
	17:00 - 18:00	1.00	CSG	14	A	P		NIPPLE DOWN BOPE.
	18:00 - 18:30	0.50	CSG	12	C	P		PICK UP BOP STACK AND SET C22 SLIPS WITH 110K. CUT OFF CASING AND LD JOINT.
	18:30 - 19:00	0.50	CSG	01	C	P		PREPARE TO SKID. RELEASE RIG AT 1900 HRS ON SATURDAY JULY 30TH.

1 General

1.1 Customer Information

Company	US ROCKIES REGION
Representative	
Address	

1.2 Well/Wellbore Information

Well	NBU 921-35G1BS YELLOW	Wellbore No.	OH
Well Name	NBU 921-35G1BS	Wellbore Name	NBU 921-35G1BS
Report No.	1	Report Date	9/15/2011
Project	UTAH-UINTAH	Site	NBU 921-35G PAD
Rig Name/No.		Event	COMPLETION
Start Date	9/15/2011	End Date	9/29/2011
Spud Date	6/28/2011	Active Datum	RKB @5,144.00usft (above Mean Sea Level)
UWI	SW/NE/0/9/S/21/E/35/0/0/26/PM/N/2053/E/0/1633/0/0		

1.3 General

Contractor	CASED HOLE SOLUTIONS	Job Method	PERFORATE	Supervisor	ED GUDAC
Perforated Assembly	PRODUCTION CASING	Conveyed Method	WIRELINE		

1.4 Initial Conditions

Fluid Type		Fluid Density	
Surface Press		Estimate Res Press	
TVD Fluid Top		Fluid Head	
Hydrostatic Press		Press Difference	
Balance Cond	NEUTRAL		

1.5 Summary

Gross Interval	7,717.0 (usft)-9,604.0 (usft)	Start Date/Time	9/19/2011 12:00AM
No. of Intervals	44	End Date/Time	9/19/2011 12:00AM
Total Shots	215	Net Perforation Interval	66.00 (usft)
Avg Shot Density	3.26 (shot/ft)	Final Surface Pressure	
		Final Press Date	

2 Intervals

2.1 Perforated Interval

Date	Formation/Reservoir	CCL@ (usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	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
9/19/2011 12:00AM	MESAVERDE/			7,717.0	7,718.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO	N

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diamete r (in)	Carr Type /Carr Manuf	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
9/19/2011 12:00AM	MESAVERDE/			7,750.0	7,751.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
9/19/2011 12:00AM	MESAVERDE/			7,838.0	7,840.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/19/2011 12:00AM	MESAVERDE/			7,914.0	7,916.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/19/2011 12:00AM	MESAVERDE/			7,936.0	7,937.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
9/19/2011 12:00AM	MESAVERDE/			8,003.0	8,004.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/19/2011 12:00AM	MESAVERDE/			8,023.0	8,024.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/19/2011 12:00AM	MESAVERDE/			8,041.0	8,042.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/19/2011 12:00AM	MESAVERDE/			8,071.0	8,072.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/19/2011 12:00AM	MESAVERDE/			8,096.0	8,097.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/19/2011 12:00AM	MESAVERDE/			8,113.0	8,115.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/19/2011 12:00AM	MESAVERDE/			8,124.0	8,125.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/19/2011 12:00AM	MESAVERDE/			8,190.0	8,194.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/19/2011 12:00AM	MESAVERDE/			8,270.0	8,274.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/19/2011 12:00AM	MESAVERDE/			8,413.0	8,414.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/19/2011 12:00AM	MESAVERDE/			8,455.0	8,456.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/19/2011 12:00AM	MESAVERDE/			8,492.0	8,493.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/19/2011 12:00AM	MESAVERDE/			8,517.0	8,518.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/19/2011 12:00AM	MESAVERDE/			8,539.0	8,540.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/19/2011 12:00AM	MESAVERDE/			8,549.0	8,550.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/19/2011 12:00AM	MESAVERDE/			8,574.0	8,576.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/19/2011 12:00AM	MESAVERDE/			8,632.0	8,634.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	

2.1 Perforated Interval (Continued)

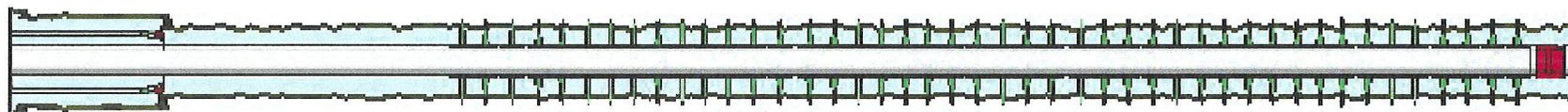
Date	Formation/ Reservoir	CCL@ (usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diamete r (in)	Carr Type /Carr Manuf	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
9/19/2011 12:00AM	MESAVERDE/			8,704.0	8,707.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/19/2011 12:00AM	MESAVERDE/			8,732.0	8,733.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/19/2011 12:00AM	MESAVERDE/			8,782.0	8,784.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/19/2011 12:00AM	MESAVERDE/			8,914.0	8,916.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
9/19/2011 12:00AM	MESAVERDE/			8,944.0	8,946.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
9/19/2011 12:00AM	MESAVERDE/			8,968.0	8,970.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
9/19/2011 12:00AM	MESAVERDE/			9,022.0	9,023.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/19/2011 12:00AM	MESAVERDE/			9,059.0	9,060.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/19/2011 12:00AM	MESAVERDE/			9,099.0	9,100.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/19/2011 12:00AM	MESAVERDE/			9,118.0	9,119.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/19/2011 12:00AM	MESAVERDE/			9,151.0	9,153.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/19/2011 12:00AM	MESAVERDE/			9,184.0	9,186.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/19/2011 12:00AM	MESAVERDE/			9,236.0	9,237.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
9/19/2011 12:00AM	MESAVERDE/			9,252.0	9,253.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
9/19/2011 12:00AM	MESAVERDE/			9,260.0	9,261.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
9/19/2011 12:00AM	MESAVERDE/			9,306.0	9,307.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
9/19/2011 12:00AM	MESAVERDE/			9,350.0	9,351.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
9/19/2011 12:00AM	MESAVERDE/			9,366.0	9,367.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
9/19/2011 12:00AM	MESAVERDE/			9,477.0	9,478.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/19/2011 12:00AM	MESAVERDE/			9,498.0	9,500.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/19/2011 12:00AM	MESAVERDE/			9,553.0	9,555.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diamete r (in)	Carr Type /Carr Manuf	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
9/19/2011 12:00AM	MESAVERDE/			9,602.0	9,604.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	

3 Plots

3.1 Wellbore Schematic



US ROCKIES REGION

Operation Summary Report

Well: NBU 921-35G1BS YELLOW		Spud Conductor: 6/16/2011	Spud Date: 6/28/2011
Project: UTAH-UINTAH		Site: NBU 921-35G PAD	Rig Name No: GWS 1/1
Event: COMPLETION		Start Date: 9/15/2011	End Date: 9/29/2011
Active Datum: RKB @5,144.00usft (above Mean Sea Level)		UWI: SW/NE/0/9/S/21/E/35/0/0/26/PM/N/2053/E/0/1633/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
9/15/2011	7:00 - 7:15	0.25	COMP	48		P		HELD SAFETY MEETING HIGH PRESSURE, WHIP CHECKS IN PLACE
	7:15 - 10:30	3.25	COMP	33	C	P		FILL SURFACE CSG. MIRU B&C QUICK TEST. PSI TEST T/ 1000 PSI. HELD FOR 15 MIN LOST 13 PSI. PSI TEST T/ 3500 PSI. HELD FOR 15 MIN LOST 25 PSI. 1ST PSI TEST T/ 7000 PSI. HELD FOR 30 MIN LOST 37 PSI. NO COMMUNICATION WITH SURACE BLEED OFF PSI. MOVE T/ NEXT WELL. SWIFWE
9/16/2011	7:00 - 7:15	0.25	COMP	48		P		HELD SAFETY MEETING: ARMING GUNS WITH NEW EMPLOYEES
	7:15 - 12:00	4.75	COMP	37		P		PERF STG 1]PU 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 & 120 DEG PHASING. RIH PERF AS PER PERF DESIGN. POOH. SWIFW
9/19/2011	6:45 - 7:00	0.25	COMP	48		P		HSM, PINCH POINTS
	7:00 - 7:00	0.00	COMP	36	E	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 FLIUD, SAND AND CHEMICAL VOLUME PUM'D
								FRAC STG #1] WHP=1,824#, BRK DN PERFS=3,594#, @=4.5 BPM, INJ RT=48.3, INJ PSI=5,651#, INITIAL ISIP=2,652#, INITIAL FG=.72, FINAL ISIP=2,914#, FINAL FG=.74, AVERAGE RATE=49.5, AVERAGE PRESSURE=5,566#, MAX RATE=50.9, MAX PRESSURE=6,191#, NET PRESSURE INCREASE=262#, 22/23 95% CALC PERFS OPEN. X OVER TO WIRE LINE
								PERF STG #2] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @=9,397', PERF MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW
								FRAC STG #2] WHP=1,941#, BRK DN PERFS=3,406#, @=4.1 BPM, INJ RT=44.4, INJ PSI=5,676#, INITIAL ISIP=2,662#, INITIAL FG=.72, FINAL ISIP=3,037#, FINAL FG=.77, AVERAGE RATE=49.1, AVERAGE PRESSURE=5,911#, MAX RATE=51.4, MAX PRESSURE=6,377#, NET PRESSURE INCREASE=375#, 19/24 78% CALC PERFS OPEN. X OVER TO WIRE LINE
								PERF STG #3] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @=9,216', PERF MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW SWIFN.

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-35G1BS YELLOW		Spud Conductor: 6/16/2011	Spud Date: 6/28/2011
Project: UTAH-UINTAH		Site: NBU 921-35G PAD	Rig Name No: GWS 1/1
Event: COMPLETION		Start Date: 9/15/2011	End Date: 9/29/2011
Active Datum: RKB @5,144.00usft (above Mean Sea Level)		UWI: SW/NE/0/9/S/21/E/35/0/0/26/PM/N/2053/E/0/1633/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
9/20/2011	6:45 - 7:00	0.25	COMP	48		P		HSM, WORKING AROUND WIRELINE
	7:00 - 17:00	10.00	COMP	36	E	P		<p>FRAC STG #3] WHP=1,350#, BRK DN PERFS=3,166#, @=4.8 BPM, INJ RT=43.8, INJ PSI=5,706#, INITIAL ISIP=2,556#, INITIAL FG=.72, FINAL ISIP=3,049#, FINAL FG=.77, AVERAGE RATE=49.3, AVERAGE PRESSURE=5,795#, MAX RATE=51.9, MAX PRESSURE=6,339#, NET PRESSURE INCREASE=493#, 24/24 100% CALC PERFS OPEN. X OVER TO WIRE LINE</p> <p>PERF STG #4] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @=9,000', 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=2,318#, BRK DN PERFS=3,314#, @=4.4 BPM, INJ RT=48.4, INJ PSI=5,738#, INITIAL ISIP=2,857#, INITIAL FG=.76, FINAL ISIP=3,080#, FINAL FG=.78, AVERAGE RATE=50.1, AVERAGE PRESSURE=5,569#, MAX RATE=50.9, MAX PRESSURE=6,266#, NET PRESSURE INCREASE=213#, 22/24 92% CALC PERFS OPEN. X OVER TO WIRE LINE</p> <p>PERF STG #5] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @=8,814', 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=1,343#, BRK DN PERFS=2,891#, @=4.3 BPM, INJ RT=50.1, INJ PSI=5,911#, INITIAL ISIP=2,217#, INITIAL FG=.69, FINAL ISIP=2,998#, FINAL FG=.78, AVERAGE RATE=49.3, AVERAGE PRESSURE=5,576#, MAX RATE=51.3, MAX PRESSURE=6,252#, NET PRESSURE INCREASE=781#, 18/24 77% CALC PERFS OPEN. X OVER TO WIRE LINE</p> <p>PERF STG #6] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @=8.606', PERF MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW SWFN</p>
9/21/2011	6:15 - 6:30	0.25	COMP	48		P		HSM, OVER HEAD LOADS

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-35G1BS YELLOW		Spud Conductor: 6/16/2011	Spud Date: 6/28/2011
Project: UTAH-UINTAH		Site: NBU 921-35G PAD	Rig Name No: GWS 1/1
Event: COMPLETION		Start Date: 9/15/2011	End Date: 9/29/2011
Active Datum: RKB @5,144.00usft (above Mean Sea Level)		UWI: SW/NE/0/9/S/21/E/35/0/0/26/PM/N/2053/E/0/1633/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	6:30 - 17:30	11.00	COMP	36	E	P		<p>FRAC STG #6] WHP=1,953#, BRK DN PERFS=3,053#, @=44.5 BPM, INJ RT=48.1, INJ PSI=5,259#, INITIAL ISIP=2,509#, INITIAL FG=.73, FINAL ISIP=2,816#, FINAL FG=.77, AVERAGE RATE=50.3, AVERAGE PRESSURE=5,202#, MAX RATE=51.1, MAX PRESSURE=6,053#, NET PRESSURE INCREASE=307#, 22/24 93% CALC PERFS OPEN. X OVER TO WIRE LINE</p> <p>PERF STG #7] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @=8,304', 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 #7] WHP=1,894#, BRK DN PERFS=3,100#, @=4.1 BPM, INJ RT=49.3, INJ PSI=5,673#, INITIAL ISIP=2,237#, INITIAL FG=.71, FINAL ISIP=2,602#, FINAL FG=.75, AVERAGE RATE=49.2, AVERAGE PRESSURE=5,205#, MAX RATE=50.1, MAX PRESSURE=6,305#, NET PRESSURE INCREASE=365#, 19/24 78% CALC PERFS OPEN. X OVER TO WIRE LINE</p> <p>PERF STG #8] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @=8,155', 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=2,170#, BRK DN PERFS=2,649#, @=6.9 BPM, INJ RT=48.1, INJ PSI=5,317#, INITIAL ISIP=2,367#, INITIAL FG=.73, FINAL ISIP=2,654#, FINAL FG=.77, AVERAGE RATE=49.2, AVERAGE PRESSURE=5,337#, MAX RATE=50, MAX PRESSURE=6,332#, NET PRESSURE INCREASE=287#, 20/24 85% CALC PERFS OPEN. X OVER TO WIRE LINE</p> <p>PERF STG #9] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @=7,967', 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=1,437#, BRK DN PERFS=2,107#, @=4.6 BPM, INJ RT=51.3, INJ PSI=4,645#, INITIAL ISIP=1,440#, INITIAL FG=.62, FINAL ISIP=2,515#, FINAL FG=.76, AVERAGE RATE=51.4, AVERAGE PRESSURE=4,568#, MAX RATE=51.8, MAX PRESSURE=5,499#, NET PRESSURE INCREASE=1,075#, 21/24 87% CALC PERFS OPEN. X OVER TO WIRE LINE.</p> <p>SVMFN HSM, R/D</p>
9/22/2011	6:39 - 6:45	0.10	COMP	48		P		

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-35G1BS YELLOW		Spud Conductor: 6/16/2011		Spud Date: 6/28/2011	
Project: UTAH-UINTAH		Site: NBU 921-35G PAD		Rig Name No: GWS 1/1	
Event: COMPLETION		Start Date: 9/15/2011		End Date: 9/29/2011	
Active Datum: RKB @5,144.00usft (above Mean Sea Level)			UWI: SW/NE/0/9/S/21/E/35/0/0/26/PM/N/2053/E/0/1633/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	6:45 - 6:45	0.00	COMP	36	E	P		P/U RIH W/ HALIBURTON 8K CBP, SET FOR TOP KILL @=7,667'
								TOTAL FLUID PUMP'D=10,857 BBLs TOTAL SAND PUMP'D=208,991#
9/28/2011	7:00 - 7:15	0.25	COMP	48		P		HSM, SLIPS, TRIPS & FALLS, PRESS TESTING

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-35G1BS YELLOW		Spud Conductor: 6/16/2011	Spud Date: 6/28/2011
Project: UTAH-UINTAH		Site: NBU 921-35G PAD	Rig Name No: GWS 1/1
Event: COMPLETION		Start Date: 9/15/2011	End Date: 9/29/2011
Active Datum: RKB @5,144.00usft (above Mean Sea Level)		UVM: SW/NE/0/9/S/21/E/35/0/0/26/PM/N/2053/E/0/1633/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	7:15 - 18:00	10.75	COMP	31	I	P		<p>MIRU, SPOT EQUIP, ND WH, NU BOP, RU FLOOR & TBG EQUIP, RU HAL 9000 & FLOWLINE TO PIT, SPOT TBG TRAILER, PU TBG, REMOVE THREAD PROTECTORS, TALLY & DRIFT TBG TAG @ 7,667', RU P/S, FILL TBG, BREAK CIRC, PRESS TEST BOP TO 3,000 PSIFOR 15 MIN, HAD DRIP ON BLIND RAM DOOR C/O O-RING, LOST 0 PSI, SURFACE CSG VALVE OPEN & LOCKED, START DRLG PLUGS.</p> <p>C/O 0' SAND, TAG 1ST PLUG @ 7,667' DRL PLUG IN 10 MIN. 1000 PSI INCREASE RIH, CSG PRESS 50 PSI. APPROX G/LR: 5% / 95%.</p> <p>C/O 25' SAND, TAG 2ND PLUG @ 7,967' DRL PLUG IN 9 MIN. 200 PSI INCREASE RIH, CSG PRESS 100 PSI. APPROX G/LR: 15% / 85%.</p> <p>C/O 20' SAND, TAG 3RD PLUG @ 8,145' DRL PLUG IN 8 MIN. 200 PSI INCREASE RIH, CSG PRESS 350 PSI. APPROX G/LR: 25% / 75%.</p> <p>C/O 25' SAND, TAG 4TH PLUG @ 8,313' DRL PLUG IN 8 MIN. 500 PSI INCREASE RIH, CSG PRESS 350 PSI. APPROX G/LR: 25% / 75%.</p> <p>C/O 25' SAND, TAG 5TH PLUG @ 8,606' DRL PLUG IN 9 MIN. 500 PSI INCREASE RIH, CSG PRESS 275 PSI. APPROX G/LR: 30% / 70%.</p> <p>C/O 20' SAND, TAG 6TH PLUG @ 8,834' DRL PLUG IN 8 MIN. 500 PSI INCREASE RIH, CSG PRESS 350 PSI. APPROX G/LR: 40% / 60%.</p> <p>C/O 20' SAND, TAG 7TH PLUG @ 9,002' DRL PLUG IN 9 MIN. 500 PSI INCREASE RIH, CSG PRESS 500 PSI. APPROX G/LR: 50% / 50%.</p> <p>C/O 15' SAND, TAG 8TH PLUG @ 9,216' DRL PLUG IN 10 MIN. 300 PSI INCREASE RIH, CSG PRESS 550 PSI. APPROX G/LR: 70% / 30%.</p> <p>C/O 25' SAND, TAG 9TH PLUG @ 9,397' DRL PLUG IN 9 MIN. 300 PSI INCREASE RIH, CSG PRESS 600 PSI. APPROX G/LR: 70% / 30%.</p> <p>PBTD @ 9,771', BTM PERF @ 9,604', RIH TAG @ 9,700', P/U POWER SWIVEL, C/O FROM 9,700' TO 9,765', 161' PAST BTM PERF W/ 307 JTS 2 3/8" L-80 TBG, LD 18 JTS, PU & STRIP IN TBG HANGER & LAND TBG W/ 289 JTS 2 3/8" L-80, EOT 9,192.82'.</p> <p>INSTAL TIW VALVE IN TBG, SWI, WILL PUMP BIT OFF IN AM, SDFN.</p> <p>KB= 25' 4 1/16" WEATHERFORD HANGER= .83' TBG</p>

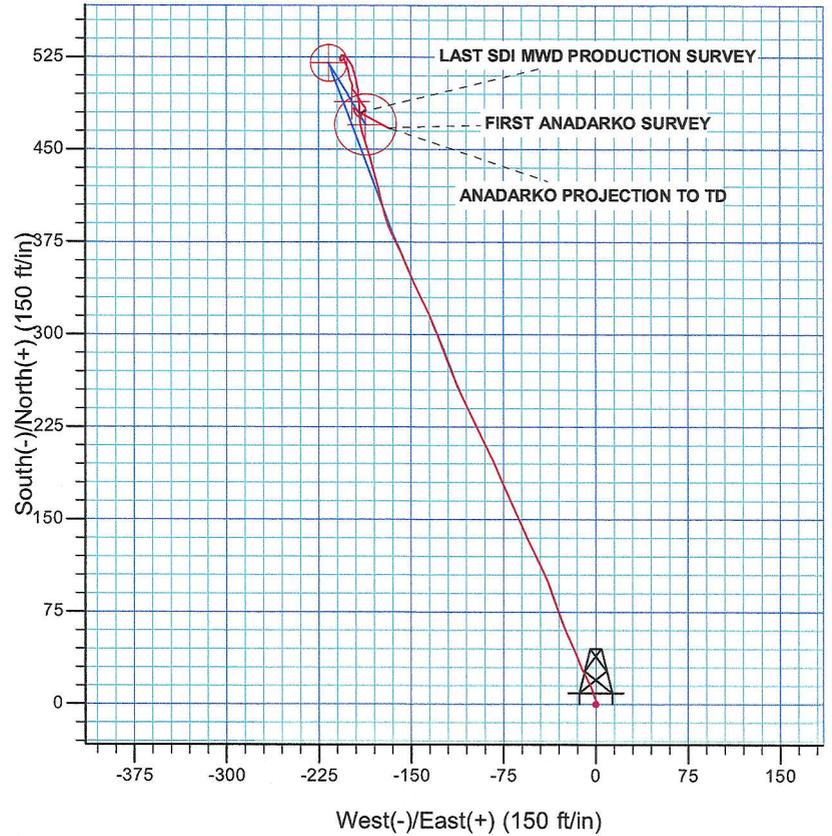
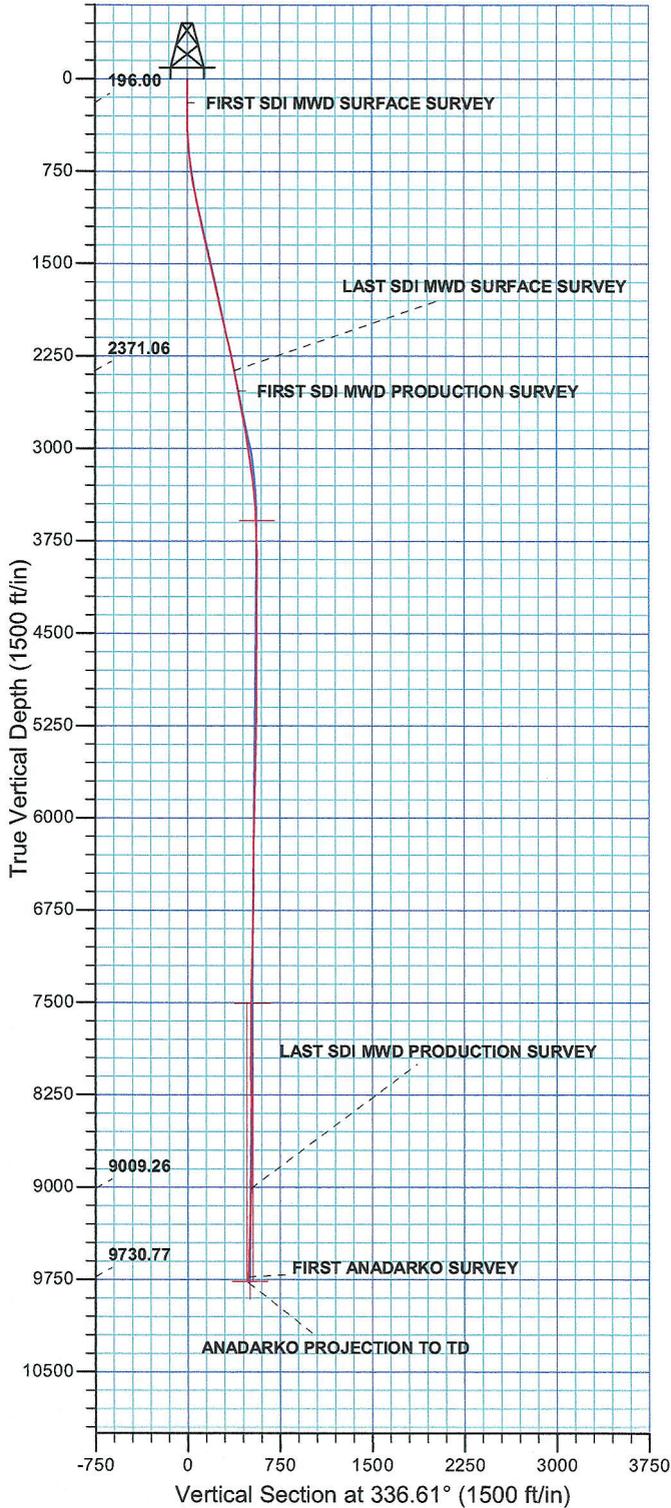
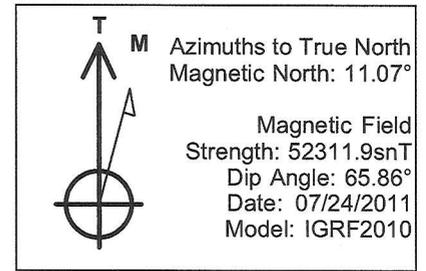
US ROCKIES REGION

Operation Summary Report

Well: NBU 921-35G1BS YELLOW		Spud Conductor: 6/16/2011	Spud Date: 6/28/2011
Project: UTAH-UINTAH		Site: NBU 921-35G PAD	Rig Name No: GWS 1/1
Event: COMPLETION		Start Date: 9/15/2011	End Date: 9/29/2011
Active Datum: RKB @5,144.00usft (above Mean Sea Level)		UWI: SW/NE/0/9/S/21/E/35/0/0/26/PM/N/2053/E/0/1633/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
								DELIVERED 314 JTS 289 JTS 2 3/8" L-80 = 9,164.79' TBG USED 289 JTS POBS= 2.20' TBG RETURNED 25 JTS EOT @ 9,192.82' TWTR= 10,857 BBLS TWR= 2,000 BBLS TWLTR= 8,857 BBLS HSM, SLIPS, TRIPS & FALLS, RIGGING UP & DOWN. CSG PRESS 3,400 PSI, RD POWER SWIVEL, FLOOR & TBG EQUIP, ND BOPS, NU WH, DROP BALL TO SHEAR OFF BIT PUMPED 40 BBLS NEVER SEEN BIT GO, LET BIT FALL FOR 20 MIN. TURN OVER TO FLOW BACK CREW, RD & MOVETO NEXT WELL ON PAD. WELL TURNED TO SALES @ 1000 HR ON 9/29/11 - 1852 MCFD, 2040 BWPD, CP 3400#, FTP 2200#,CK 20/64"
9/29/2011	7:00 - 7:15	0.25	COMP	48		P		
	7:15 - 11:00	3.75	COMP	30	A	P		
	10:00 - 10:00	0.00	PROD	50				

WELL DETAILS: NBU 921-35G1BS					
GL 5119' & KB 25' @ 5144.00R (HP 311)					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	14527383.94	2056454.72	39° 59' 38.972 N	109° 30' 52.614 W



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 921-35G Pad
NBU 921-35G1BS**

OH

Design: OH

Standard Survey Report

08 August, 2011

Anadarko 
Petroleum Corporation

Company: Kerr McGee Oil and Gas Onshore LP
Project: Uintah County, UT UTM12
Site: NBU 921-35G Pad
Well: NBU 921-35G1BS
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well NBU 921-35G1BS
TVD Reference: GL 5119' & KB 25' @ 5144.00ft (HP 311)
MD Reference: GL 5119' & KB 25' @ 5144.00ft (HP 311)
North Reference: True
Survey Calculation Method: Minimum Curvature
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 921-35G Pad, SEC 35 T9S R21E				
Site Position:		Northing:	14,527,383.91 usft	Latitude:	39° 59' 38.969 N
From:	Lat/Long	Easting:	2,056,474.61 usft	Longitude:	109° 30' 52.358 W
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence:	0.95 °

Well	NBU 921-35G1BS, 2053' FNL 1633' FEL				
Well Position	+N/-S	0.00 ft	Northing:	14,527,383.94 usft	Latitude: 39° 59' 38.972 N
	+E/-W	0.00 ft	Easting:	2,056,454.71 usft	Longitude: 109° 30' 52.614 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level: 5,119.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	07/24/11	11.07	65.86	52,312

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	336.61	

Survey Program	Date	08/08/11			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
196.00	2,410.00	Survey #1 SDI MWD SURFACE (OH)	MWD SDI	MWD - Standard ver 1.0.1	
2,579.00	9,063.00	Survey #2 SDI MWD PRODUCTION (OH)	MWD SDI	MWD - Standard ver 1.0.1	
9,785.00	9,830.00	Survey #3 ANADARKO SURVEY (OH)	CB-MAG-SS	Camera based mag single shot	

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	
196.00	0.70	74.45	196.00	0.32	1.15	-0.16	0.36	0.36	0.00	
FIRST SDI MWD SURFACE SURVEY										
283.00	0.54	5.69	282.99	0.87	1.71	0.12	0.82	-0.18	-79.03	
366.00	1.50	320.32	365.98	2.10	1.05	1.51	1.43	1.16	-54.66	
457.00	3.36	337.67	456.89	5.48	-0.72	5.32	2.18	2.04	19.07	
547.00	5.01	340.11	546.65	11.62	-3.06	11.88	1.84	1.83	2.71	
637.00	6.27	332.48	636.21	19.67	-6.67	20.70	1.63	1.40	-8.48	
727.00	7.79	337.05	725.54	29.65	-11.32	31.70	1.80	1.69	5.08	

Company: Kerr McGee Oil and Gas Onshore LP
Project: Uintah County, UT UTM12
Site: NBU 921-35G Pad
Well: NBU 921-35G1BS
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well NBU 921-35G1BS
TVD Reference: GL 5119' & KB 25' @ 5144.00ft (HP 311)
MD Reference: GL 5119' & KB 25' @ 5144.00ft (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)
817.00	9.43	337.26	814.52	42.06	-16.55	45.18	1.82	1.82	0.23
907.00	10.93	335.53	903.10	56.63	-22.93	61.08	1.70	1.67	-1.92
997.00	11.48	340.51	991.39	72.84	-29.46	78.55	1.24	0.61	5.53
1,087.00	12.54	340.63	1,079.41	90.50	-35.68	97.23	1.18	1.18	0.13
1,177.00	12.42	335.17	1,167.29	108.50	-42.99	116.65	1.32	-0.13	-6.07
1,267.00	12.19	333.52	1,255.22	125.79	-51.29	135.82	0.47	-0.26	-1.83
1,357.00	12.88	336.93	1,343.08	143.53	-59.46	155.34	1.12	0.77	3.79
1,447.00	12.63	334.95	1,430.86	161.67	-67.55	175.20	0.56	-0.28	-2.20
1,537.00	12.63	336.81	1,518.68	179.63	-75.60	194.88	0.45	0.00	2.07
1,627.00	12.38	334.98	1,606.55	197.41	-83.55	214.36	0.52	-0.28	-2.03
1,717.00	12.79	334.89	1,694.38	215.18	-91.86	233.96	0.46	0.46	-0.10
1,807.00	12.75	333.66	1,782.16	233.10	-100.49	253.84	0.31	-0.04	-1.37
1,897.00	12.31	335.02	1,870.01	250.69	-108.95	273.35	0.59	-0.49	1.51
1,987.00	12.89	339.89	1,957.85	268.82	-116.45	292.96	1.34	0.64	5.41
2,077.00	13.02	338.23	2,045.56	287.66	-123.67	313.11	0.44	0.14	-1.84
2,167.00	13.13	337.78	2,133.22	306.54	-131.29	333.47	0.17	0.12	-0.50
2,257.00	11.43	333.11	2,221.16	323.96	-139.19	352.59	2.19	-1.89	-5.19
2,347.00	11.64	335.74	2,309.35	340.19	-146.95	370.57	0.63	0.23	2.92
2,410.00	11.57	336.88	2,371.06	351.79	-152.05	383.24	0.38	-0.11	1.81
LAST SDI MWD SURFACE SURVEY									
2,579.00	10.02	333.89	2,537.06	380.58	-165.17	414.88	0.97	-0.92	-1.77
FIRST SDI MWD PRODUCTION SURVEY									
2,674.00	10.11	345.58	2,630.61	396.08	-170.89	431.37	2.15	0.09	12.31
2,768.00	8.80	345.07	2,723.33	411.02	-174.79	446.63	1.40	-1.39	-0.54
2,862.00	10.46	346.11	2,816.01	426.25	-178.70	462.16	1.78	1.77	1.11
2,957.00	9.76	344.61	2,909.53	442.39	-182.90	478.64	0.79	-0.74	-1.58
3,051.00	8.71	341.01	3,002.31	456.80	-187.33	493.63	1.27	-1.12	-3.83
3,146.00	8.09	350.59	3,096.30	470.20	-190.77	507.29	1.61	-0.65	10.08
3,240.00	9.15	357.36	3,189.24	484.19	-192.19	520.70	1.56	1.13	7.20
3,334.00	7.21	352.96	3,282.28	497.51	-193.26	533.35	2.17	-2.06	-4.68
3,429.00	5.36	347.42	3,376.70	507.76	-194.96	543.43	2.05	-1.95	-5.83
3,523.00	4.22	340.22	3,470.37	515.30	-197.08	551.19	1.37	-1.21	-7.66
3,617.00	2.55	329.06	3,564.21	520.35	-199.33	556.72	1.90	-1.78	-11.87
3,711.00	1.93	322.11	3,658.13	523.39	-201.38	560.32	0.72	-0.66	-7.39
3,806.00	1.41	317.01	3,753.09	525.51	-203.16	562.97	0.57	-0.55	-5.37
3,900.00	1.06	288.80	3,847.07	526.63	-204.77	564.65	0.74	-0.37	-30.01
3,994.00	0.84	231.46	3,941.06	526.48	-206.13	565.05	0.99	-0.23	-61.00
4,088.00	1.06	203.72	4,035.05	525.26	-207.02	564.28	0.54	0.23	-29.51
4,183.00	0.18	63.27	4,130.04	524.52	-207.24	563.69	1.27	-0.93	-147.84
4,277.00	0.35	200.82	4,224.04	524.32	-207.21	563.49	0.53	0.18	146.33
4,371.00	0.70	193.97	4,318.04	523.49	-207.45	562.83	0.38	0.37	-7.29
4,466.00	0.97	164.88	4,413.03	522.15	-207.38	561.57	0.52	0.28	-30.62
4,560.00	1.69	53.62	4,507.01	522.21	-206.06	561.10	2.38	0.77	-118.36
4,654.00	1.23	5.97	4,600.99	524.03	-204.84	562.29	1.33	-0.49	-50.69

Company: Kerr McGee Oil and Gas Onshore LP
Project: Uintah County, UT UTM12
Site: NBU 921-35G Pad
Well: NBU 921-35G1BS
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well NBU 921-35G1BS
TVD Reference: GL 5119' & KB 25' @ 5144.00ft (HP 311)
MD Reference: GL 5119' & KB 25' @ 5144.00ft (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)
4,749.00	0.53	26.80	4,695.98	525.44	-204.53	563.46	0.80	-0.74	21.93
4,843.00	0.18	186.50	4,789.97	525.68	-204.35	563.61	0.75	-0.37	169.89
4,937.00	0.44	169.97	4,883.97	525.18	-204.31	563.13	0.29	0.28	-17.59
5,032.00	0.62	183.51	4,978.97	524.31	-204.27	562.31	0.23	0.19	14.25
5,126.00	0.53	181.93	5,072.96	523.37	-204.32	561.47	0.10	-0.10	-1.68
5,220.00	0.70	151.43	5,166.96	522.43	-204.06	560.50	0.39	0.18	-32.45
5,315.00	0.79	160.39	5,261.95	521.30	-203.56	559.27	0.15	0.09	9.43
5,409.00	1.14	154.24	5,355.94	519.85	-202.94	557.69	0.39	0.37	-6.54
5,504.00	1.41	162.06	5,450.91	517.88	-202.17	555.58	0.34	0.28	8.23
5,598.00	1.41	162.41	5,544.89	515.68	-201.46	553.28	0.01	0.00	0.37
5,692.00	1.32	168.65	5,638.86	513.52	-200.90	551.07	0.18	-0.10	6.64
5,786.00	1.58	167.78	5,732.83	511.19	-200.41	548.74	0.28	0.28	-0.93
5,881.00	1.23	168.22	5,827.80	508.91	-199.93	546.46	0.37	-0.37	0.46
5,975.00	1.30	166.06	5,921.78	506.89	-199.46	544.42	0.09	0.07	-2.30
6,070.00	1.64	154.35	6,016.75	504.62	-198.62	542.00	0.48	0.36	-12.33
6,164.00	1.85	164.00	6,110.70	501.95	-197.62	539.15	0.38	0.22	10.27
6,258.00	0.44	237.30	6,204.68	500.29	-197.50	537.58	1.89	-1.50	77.98
6,353.00	0.35	244.86	6,299.68	499.97	-198.07	537.52	0.11	-0.09	7.96
6,447.00	0.35	120.05	6,393.68	499.71	-198.08	537.28	0.66	0.00	-132.78
6,542.00	0.70	141.15	6,488.68	499.11	-197.47	536.49	0.41	0.37	22.21
6,636.00	0.70	147.74	6,582.67	498.18	-196.80	535.36	0.09	0.00	7.01
6,730.00	0.97	149.58	6,676.66	497.00	-196.09	534.01	0.29	0.29	1.96
6,825.00	0.88	145.01	6,771.65	495.71	-195.27	532.49	0.12	-0.09	-4.81
6,919.00	1.23	150.46	6,865.63	494.24	-194.35	530.78	0.39	0.37	5.80
7,013.00	1.14	142.64	6,959.61	492.62	-193.29	528.87	0.20	-0.10	-8.32
7,107.00	1.41	147.12	7,053.59	490.91	-192.09	526.83	0.31	0.29	4.77
7,202.00	1.23	149.49	7,148.56	489.05	-190.94	524.66	0.20	-0.19	2.49
7,296.00	1.23	143.17	7,242.54	487.37	-189.82	522.68	0.14	0.00	-6.72
7,390.00	1.55	141.57	7,336.51	485.57	-188.43	520.47	0.34	0.34	-1.70
7,485.00	1.41	143.08	7,431.48	483.63	-186.93	518.09	0.15	-0.15	1.59
7,579.00	0.88	237.65	7,525.47	482.32	-186.84	516.86	1.83	-0.56	100.61
7,674.00	0.97	226.75	7,620.46	481.38	-188.05	516.47	0.21	0.09	-11.47
7,768.00	1.06	209.70	7,714.44	480.07	-189.06	515.68	0.33	0.10	-18.14
7,862.00	1.14	202.49	7,808.42	478.46	-189.84	514.50	0.17	0.09	-7.67
7,957.00	0.62	213.92	7,903.41	477.16	-190.49	513.57	0.58	-0.55	12.03
8,051.00	1.32	268.40	7,997.40	476.70	-191.86	513.70	1.15	0.74	57.96
8,145.00	1.49	318.33	8,091.38	477.59	-193.75	515.26	1.27	0.18	53.12
8,240.00	1.23	328.09	8,186.35	479.37	-195.11	517.44	0.37	-0.27	10.27
8,334.00	0.88	341.80	8,280.33	480.92	-195.87	519.16	0.46	-0.37	14.59
8,428.00	0.88	349.27	8,374.32	482.31	-196.23	520.58	0.12	0.00	7.95
8,523.00	0.26	325.28	8,469.32	483.21	-196.49	521.50	0.69	-0.65	-25.25
8,617.00	0.26	27.06	8,563.32	483.57	-196.52	521.85	0.28	0.00	65.72
8,711.00	0.53	109.77	8,657.31	483.61	-196.01	521.69	0.60	0.29	87.99

Company: Kerr McGee Oil and Gas Onshore LP
Project: Uintah County, UT UTM12
Site: NBU 921-35G Pad
Well: NBU 921-35G1BS
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well NBU 921-35G1BS
TVD Reference: GL 5119' & KB 25' @ 5144.00ft (HP 311)
MD Reference: GL 5119' & KB 25' @ 5144.00ft (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)
8,805.00	0.70	133.32	8,751.31	483.07	-195.18	520.86	0.32	0.18	25.05
8,900.00	0.88	121.90	8,846.30	482.29	-194.14	519.73	0.25	0.19	-12.02
8,994.00	1.49	135.26	8,940.28	481.04	-192.67	518.00	0.71	0.65	14.21
9,063.00	1.49	130.60	9,009.26	479.82	-191.36	516.35	0.18	0.00	-6.75
LAST SDI MWD PRODUCTION SURVEY									
9,785.00	2.70	110.90	9,730.77	467.64	-168.34	496.04	0.19	0.17	-2.73
FIRST ANADARKO SURVEY									
9,830.00	2.70	110.90	9,775.72	466.89	-166.36	494.56	0.00	0.00	0.00
ANADARKO PROJECTION TO TD									

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
196.00	196.00	0.32	1.15	FIRST SDI MWD SURFACE SURVEY
2,410.00	2,371.06	351.79	-152.05	LAST SDI MWD SURFACE SURVEY
2,579.00	2,537.06	380.58	-165.17	FIRST SDI MWD PRODUCTION SURVEY
9,063.00	9,009.26	479.82	-191.36	LAST SDI MWD PRODUCTION SURVEY
9,785.00	9,730.77	467.64	-168.34	FIRST ANADARKO SURVEY
9,830.00	9,775.72	466.89	-166.36	ANADARKO 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 921-35G Pad
NBU 921-35G1BS**

OH

Design: OH

Survey Report - Geographic

08 August, 2011

Company: Kerr McGee Oil and Gas Onshore LP
Project: Uintah County, UT UTM12
Site: NBU 921-35G Pad
Well: NBU 921-35G1BS
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well NBU 921-35G1BS
TVD Reference: GL 5119' & KB 25' @ 5144.00ft (HP 311)
MD Reference: GL 5119' & KB 25' @ 5144.00ft (HP 311)
North Reference: True
Survey Calculation Method: Minimum Curvature
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 921-35G Pad, SEC 35 T9S R21E				
Site Position:		Northing:	14,527,383.91 usft	Latitude:	39° 59' 38.969 N
From:	Lat/Long	Easting:	2,056,474.61 usft	Longitude:	109° 30' 52.358 W
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence:	0.95 °

Well	NBU 921-35G1BS, 2053' FNL 1633' FEL				
Well Position	+N/-S	0.00 ft	Northing:	14,527,383.94 usft	Latitude: 39° 59' 38.972 N
	+E/-W	0.00 ft	Easting:	2,056,454.71 usft	Longitude: 109° 30' 52.614 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level: 5,119.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	07/24/11	11.07	65.86	52,312

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	336.61	

Survey Program	Date	08/08/11			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
196.00	2,410.00	Survey #1 SDI MWD SURFACE (OH)	MWD SDI	MWD - Standard ver 1.0.1	
2,579.00	9,063.00	Survey #2 SDI MWD PRODUCTION (OH)	MWD SDI	MWD - Standard ver 1.0.1	
9,785.00	9,830.00	Survey #3 ANADARKO SURVEY (OH)	CB-MAG-SS	Camera based mag single shot	

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	14,527,383.94	2,056,454.71	39° 59' 38.972 N	109° 30' 52.614 W
196.00	0.70	74.45	196.00	0.32	1.15	14,527,384.28	2,056,455.86	39° 59' 38.976 N	109° 30' 52.599 W
FIRST SDI MWD SURFACE SURVEY									
283.00	0.54	5.69	282.99	0.87	1.71	14,527,384.84	2,056,456.41	39° 59' 38.981 N	109° 30' 52.592 W
366.00	1.50	320.32	365.98	2.10	1.05	14,527,386.06	2,056,455.73	39° 59' 38.993 N	109° 30' 52.600 W
457.00	3.36	337.67	456.89	5.48	-0.72	14,527,389.41	2,056,453.90	39° 59' 39.027 N	109° 30' 52.623 W
547.00	5.01	340.11	546.65	11.62	-3.06	14,527,395.51	2,056,451.46	39° 59' 39.087 N	109° 30' 52.653 W
637.00	6.27	332.48	636.21	19.67	-6.67	14,527,403.50	2,056,447.72	39° 59' 39.167 N	109° 30' 52.700 W
727.00	7.79	337.05	725.54	29.65	-11.32	14,527,413.40	2,056,442.90	39° 59' 39.265 N	109° 30' 52.759 W
817.00	9.43	337.26	814.52	42.06	-16.55	14,527,425.73	2,056,437.47	39° 59' 39.388 N	109° 30' 52.827 W

Company: Kerr McGee Oil and Gas Onshore LP
Project: Uintah County, UT UTM12
Site: NBU 921-35G Pad
Well: NBU 921-35G1BS
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well NBU 921-35G1BS
TVD Reference: GL 5119' & KB 25' @ 5144.00ft (HP 311)
MD Reference: GL 5119' & KB 25' @ 5144.00ft (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	
907.00	10.93	335.53	903.10	56.63	-22.93	14,527,440.18	2,056,430.84	39° 59' 39.532 N	109° 30' 52.909 W	
997.00	11.48	340.51	991.39	72.84	-29.46	14,527,456.28	2,056,424.05	39° 59' 39.892 N	109° 30' 52.993 W	
1,087.00	12.54	340.63	1,079.41	90.50	-35.68	14,527,473.84	2,056,417.53	39° 59' 39.867 N	109° 30' 53.073 W	
1,177.00	12.42	335.17	1,167.29	108.50	-42.99	14,527,491.71	2,056,409.92	39° 59' 40.045 N	109° 30' 53.166 W	
1,267.00	12.19	333.52	1,255.22	125.79	-51.29	14,527,508.86	2,056,401.34	39° 59' 40.216 N	109° 30' 53.273 W	
1,357.00	12.88	336.93	1,343.08	143.53	-59.46	14,527,526.46	2,056,392.87	39° 59' 40.391 N	109° 30' 53.378 W	
1,447.00	12.63	334.95	1,430.86	161.67	-67.55	14,527,544.46	2,056,384.47	39° 59' 40.570 N	109° 30' 53.482 W	
1,537.00	12.63	336.81	1,518.68	179.63	-75.60	14,527,562.29	2,056,376.14	39° 59' 40.748 N	109° 30' 53.585 W	
1,627.00	12.38	334.98	1,606.55	197.41	-83.55	14,527,579.94	2,056,367.89	39° 59' 40.924 N	109° 30' 53.688 W	
1,717.00	12.79	334.89	1,694.38	215.18	-91.86	14,527,597.56	2,056,359.28	39° 59' 41.099 N	109° 30' 53.794 W	
1,807.00	12.75	333.66	1,782.16	233.10	-100.49	14,527,615.33	2,056,350.35	39° 59' 41.276 N	109° 30' 53.905 W	
1,897.00	12.31	335.02	1,870.01	250.69	-108.95	14,527,632.79	2,056,341.60	39° 59' 41.450 N	109° 30' 54.014 W	
1,987.00	12.89	339.89	1,957.85	268.82	-116.45	14,527,650.78	2,056,333.80	39° 59' 41.630 N	109° 30' 54.111 W	
2,077.00	13.02	338.23	2,045.56	287.66	-123.67	14,527,669.50	2,056,326.27	39° 59' 41.816 N	109° 30' 54.203 W	
2,167.00	13.13	337.78	2,133.22	306.54	-131.29	14,527,688.25	2,056,318.33	39° 59' 42.002 N	109° 30' 54.301 W	
2,257.00	11.43	333.11	2,221.16	323.96	-139.19	14,527,705.54	2,056,310.14	39° 59' 42.175 N	109° 30' 54.403 W	
2,347.00	11.64	335.74	2,309.35	340.19	-146.95	14,527,721.63	2,056,302.11	39° 59' 42.335 N	109° 30' 54.503 W	
2,410.00	11.57	336.88	2,371.06	351.79	-152.05	14,527,733.15	2,056,296.83	39° 59' 42.450 N	109° 30' 54.568 W	
LAST SDI MWD SURFACE SURVEY										
2,579.00	10.02	333.89	2,537.06	380.58	-165.17	14,527,761.72	2,056,283.22	39° 59' 42.734 N	109° 30' 54.737 W	
FIRST SDI MWD PRODUCTION SURVEY										
2,674.00	10.11	345.58	2,630.61	396.08	-170.89	14,527,777.12	2,056,277.25	39° 59' 42.887 N	109° 30' 54.810 W	
2,768.00	8.80	345.07	2,723.33	411.02	-174.79	14,527,791.99	2,056,273.10	39° 59' 43.035 N	109° 30' 54.860 W	
2,862.00	10.46	346.11	2,816.01	426.25	-178.70	14,527,807.16	2,056,268.94	39° 59' 43.186 N	109° 30' 54.910 W	
2,957.00	9.76	344.61	2,909.53	442.39	-182.90	14,527,823.22	2,056,264.47	39° 59' 43.345 N	109° 30' 54.964 W	
3,051.00	8.71	341.01	3,002.31	456.80	-187.33	14,527,837.56	2,056,259.80	39° 59' 43.488 N	109° 30' 55.021 W	
3,146.00	8.09	350.59	3,096.30	470.20	-190.77	14,527,850.89	2,056,256.14	39° 59' 43.620 N	109° 30' 55.066 W	
3,240.00	9.15	357.36	3,189.24	484.19	-192.19	14,527,864.86	2,056,254.48	39° 59' 43.758 N	109° 30' 55.084 W	
3,334.00	7.21	352.96	3,282.28	497.51	-193.26	14,527,878.16	2,056,253.19	39° 59' 43.890 N	109° 30' 55.098 W	
3,429.00	5.36	347.42	3,376.70	507.76	-194.96	14,527,888.38	2,056,251.32	39° 59' 43.991 N	109° 30' 55.119 W	
3,523.00	4.22	340.22	3,470.37	515.30	-197.08	14,527,895.89	2,056,249.07	39° 59' 44.066 N	109° 30' 55.147 W	
3,617.00	2.55	329.06	3,564.21	520.35	-199.33	14,527,900.90	2,056,246.74	39° 59' 44.116 N	109° 30' 55.176 W	
3,711.00	1.93	322.11	3,658.13	523.39	-201.38	14,527,903.90	2,056,244.64	39° 59' 44.146 N	109° 30' 55.202 W	
3,806.00	1.41	317.01	3,753.09	525.51	-203.16	14,527,905.99	2,056,242.83	39° 59' 44.167 N	109° 30' 55.225 W	
3,900.00	1.06	288.80	3,847.07	526.63	-204.77	14,527,907.09	2,056,241.20	39° 59' 44.178 N	109° 30' 55.245 W	
3,994.00	0.84	231.46	3,941.06	526.48	-206.13	14,527,906.92	2,056,239.84	39° 59' 44.176 N	109° 30' 55.263 W	
4,088.00	1.06	203.72	4,035.05	525.26	-207.02	14,527,905.68	2,056,238.97	39° 59' 44.164 N	109° 30' 55.274 W	
4,183.00	0.18	63.27	4,130.04	524.52	-207.24	14,527,904.94	2,056,238.76	39° 59' 44.157 N	109° 30' 55.277 W	
4,277.00	0.35	200.82	4,224.04	524.32	-207.21	14,527,904.74	2,056,238.80	39° 59' 44.155 N	109° 30' 55.277 W	
4,371.00	0.70	193.97	4,318.04	523.49	-207.45	14,527,903.91	2,056,238.57	39° 59' 44.147 N	109° 30' 55.280 W	
4,466.00	0.97	164.88	4,413.03	522.15	-207.38	14,527,902.57	2,056,238.66	39° 59' 44.134 N	109° 30' 55.279 W	
4,560.00	1.69	53.62	4,507.01	522.21	-206.06	14,527,902.64	2,056,239.98	39° 59' 44.134 N	109° 30' 55.262 W	
4,654.00	1.23	5.97	4,600.99	524.03	-204.84	14,527,904.49	2,056,241.17	39° 59' 44.152 N	109° 30' 55.246 W	
4,749.00	0.53	26.80	4,695.98	525.44	-204.53	14,527,905.90	2,056,241.46	39° 59' 44.166 N	109° 30' 55.242 W	
4,843.00	0.18	186.50	4,789.97	525.68	-204.35	14,527,906.15	2,056,241.63	39° 59' 44.168 N	109° 30' 55.240 W	
4,937.00	0.44	169.97	4,883.97	525.18	-204.31	14,527,905.64	2,056,241.68	39° 59' 44.164 N	109° 30' 55.240 W	
5,032.00	0.62	183.51	4,978.97	524.31	-204.27	14,527,904.77	2,056,241.73	39° 59' 44.155 N	109° 30' 55.239 W	
5,126.00	0.53	181.93	5,072.96	523.37	-204.32	14,527,903.83	2,056,241.70	39° 59' 44.146 N	109° 30' 55.240 W	
5,220.00	0.70	151.43	5,166.96	522.43	-204.06	14,527,902.90	2,056,241.98	39° 59' 44.136 N	109° 30' 55.236 W	
5,315.00	0.79	160.39	5,261.95	521.30	-203.56	14,527,901.78	2,056,242.49	39° 59' 44.125 N	109° 30' 55.230 W	
5,409.00	1.14	154.24	5,355.94	519.85	-202.94	14,527,900.34	2,056,243.14	39° 59' 44.111 N	109° 30' 55.222 W	
5,504.00	1.41	162.06	5,450.91	517.88	-202.17	14,527,898.39	2,056,243.94	39° 59' 44.091 N	109° 30' 55.212 W	
5,598.00	1.41	162.41	5,544.89	515.68	-201.46	14,527,896.20	2,056,244.69	39° 59' 44.070 N	109° 30' 55.203 W	
5,692.00	1.32	168.65	5,638.86	513.52	-200.90	14,527,894.04	2,056,245.29	39° 59' 44.048 N	109° 30' 55.196 W	
5,786.00	1.58	167.78	5,732.83	511.19	-200.41	14,527,891.72	2,056,245.81	39° 59' 44.025 N	109° 30' 55.190 W	

Company: Kerr McGee Oil and Gas Onshore LP
Project: Uintah County, UT UTM12
Site: NBU 921-35G Pad
Well: NBU 921-35G1BS
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well NBU 921-35G1BS
TVD Reference: GL 5119' & KB 25' @ 5144.00ft (HP 311)
MD Reference: GL 5119' & KB 25' @ 5144.00ft (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
5,881.00	1.23	168.22	5,827.80	508.91	-199.93	14,527,889.45	2,056,246.33	39° 59' 44.003 N	109° 30' 55.183 W
5,975.00	1.30	166.06	5,921.78	506.89	-199.46	14,527,887.44	2,056,246.83	39° 59' 43.983 N	109° 30' 55.177 W
6,070.00	1.64	154.35	6,016.75	504.62	-198.62	14,527,885.18	2,056,247.72	39° 59' 43.960 N	109° 30' 55.166 W
6,164.00	1.85	164.00	6,110.70	501.95	-197.62	14,527,882.53	2,056,248.76	39° 59' 43.934 N	109° 30' 55.154 W
6,258.00	0.44	237.30	6,204.68	500.29	-197.50	14,527,880.87	2,056,248.90	39° 59' 43.918 N	109° 30' 55.152 W
6,353.00	0.35	244.86	6,299.68	499.97	-198.07	14,527,880.54	2,056,248.34	39° 59' 43.914 N	109° 30' 55.159 W
6,447.00	0.35	120.05	6,393.68	499.71	-198.08	14,527,880.28	2,056,248.33	39° 59' 43.912 N	109° 30' 55.160 W
6,542.00	0.70	141.15	6,488.68	499.11	-197.47	14,527,879.69	2,056,248.96	39° 59' 43.906 N	109° 30' 55.152 W
6,636.00	0.70	147.74	6,582.67	498.18	-196.80	14,527,878.77	2,056,249.64	39° 59' 43.897 N	109° 30' 55.143 W
6,730.00	0.97	149.58	6,676.66	497.00	-196.09	14,527,877.61	2,056,250.37	39° 59' 43.885 N	109° 30' 55.134 W
6,825.00	0.88	145.01	6,771.65	495.71	-195.27	14,527,876.33	2,056,251.22	39° 59' 43.872 N	109° 30' 55.123 W
6,919.00	1.23	150.46	6,865.63	494.24	-194.35	14,527,874.88	2,056,252.15	39° 59' 43.858 N	109° 30' 55.112 W
7,013.00	1.14	142.64	6,959.61	492.62	-193.29	14,527,873.28	2,056,253.24	39° 59' 43.842 N	109° 30' 55.098 W
7,107.00	1.41	147.12	7,053.59	490.91	-192.09	14,527,871.58	2,056,254.47	39° 59' 43.825 N	109° 30' 55.083 W
7,202.00	1.23	149.49	7,148.56	489.05	-190.94	14,527,869.74	2,056,255.65	39° 59' 43.806 N	109° 30' 55.068 W
7,296.00	1.23	143.17	7,242.54	487.37	-189.82	14,527,868.08	2,056,256.79	39° 59' 43.790 N	109° 30' 55.053 W
7,390.00	1.55	141.57	7,336.51	485.57	-188.43	14,527,866.30	2,056,258.22	39° 59' 43.772 N	109° 30' 55.036 W
7,485.00	1.41	143.08	7,431.48	483.63	-186.93	14,527,864.39	2,056,259.75	39° 59' 43.753 N	109° 30' 55.016 W
7,579.00	0.88	237.65	7,525.47	482.32	-186.84	14,527,863.08	2,056,259.86	39° 59' 43.740 N	109° 30' 55.015 W
7,674.00	0.97	226.75	7,620.46	481.38	-188.05	14,527,862.12	2,056,258.67	39° 59' 43.731 N	109° 30' 55.031 W
7,768.00	1.06	209.70	7,714.44	480.07	-189.06	14,527,860.80	2,056,257.68	39° 59' 43.718 N	109° 30' 55.044 W
7,862.00	1.14	202.49	7,808.42	478.46	-189.84	14,527,859.17	2,056,256.92	39° 59' 43.702 N	109° 30' 55.054 W
7,957.00	0.62	213.92	7,903.41	477.16	-190.49	14,527,857.86	2,056,256.30	39° 59' 43.689 N	109° 30' 55.062 W
8,051.00	1.32	268.40	7,997.40	476.70	-191.86	14,527,857.38	2,056,254.94	39° 59' 43.684 N	109° 30' 55.080 W
8,145.00	1.49	318.33	8,091.38	477.59	-193.75	14,527,858.23	2,056,253.03	39° 59' 43.693 N	109° 30' 55.104 W
8,240.00	1.23	328.09	8,186.35	479.37	-195.11	14,527,860.00	2,056,251.64	39° 59' 43.711 N	109° 30' 55.121 W
8,334.00	0.88	341.80	8,280.33	480.92	-195.87	14,527,861.53	2,056,250.85	39° 59' 43.726 N	109° 30' 55.131 W
8,428.00	0.88	349.27	8,374.32	482.31	-196.23	14,527,862.92	2,056,250.47	39° 59' 43.740 N	109° 30' 55.136 W
8,523.00	0.26	325.28	8,469.32	483.21	-196.49	14,527,863.81	2,056,250.20	39° 59' 43.749 N	109° 30' 55.139 W
8,617.00	0.26	27.06	8,563.32	483.57	-196.52	14,527,864.17	2,056,250.17	39° 59' 43.752 N	109° 30' 55.139 W
8,711.00	0.53	109.77	8,657.31	483.61	-196.01	14,527,864.22	2,056,250.67	39° 59' 43.753 N	109° 30' 55.133 W
8,805.00	0.70	133.32	8,751.31	483.07	-195.18	14,527,863.70	2,056,251.51	39° 59' 43.747 N	109° 30' 55.122 W
8,900.00	0.88	121.90	8,846.30	482.29	-194.14	14,527,862.93	2,056,252.56	39° 59' 43.740 N	109° 30' 55.109 W
8,994.00	1.49	135.26	8,940.28	481.04	-192.67	14,527,861.70	2,056,254.06	39° 59' 43.727 N	109° 30' 55.090 W
9,063.00	1.49	130.60	9,009.26	479.82	-191.36	14,527,860.51	2,056,255.39	39° 59' 43.715 N	109° 30' 55.073 W
LAST SDI MWD PRODUCTION SURVEY									
9,785.00	2.70	110.90	9,730.77	467.64	-168.34	14,527,848.72	2,056,278.60	39° 59' 43.595 N	109° 30' 54.777 W
FIRST ANADARKO SURVEY									
9,830.00	2.70	110.90	9,775.72	466.89	-166.36	14,527,847.99	2,056,280.60	39° 59' 43.587 N	109° 30' 54.752 W
ANADARKO PROJECTION TO TD									

Design Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
196.00	196.00	0.32	1.15	FIRST SDI MWD SURFACE SURVEY
2,410.00	2,371.06	351.79	-152.05	LAST SDI MWD SURFACE SURVEY
2,579.00	2,537.06	380.58	-165.17	FIRST SDI MWD PRODUCTION SURVEY
9,063.00	9,009.26	479.82	-191.36	LAST SDI MWD PRODUCTION SURVEY
9,785.00	9,730.77	467.64	-168.34	FIRST ANADARKO SURVEY
9,830.00	9,775.72	466.89	-166.36	ANADARKO PROJECTION TO TD

Company: Kerr McGee Oil and Gas Onshore LP
Project: Uintah County, UT UTM12
Site: NBU 921-35G Pad
Well: NBU 921-35G1BS
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well NBU 921-35G1BS
TVD Reference: GL 5119' & KB 25' @ 5144.00ft (HP 311)
MD Reference: GL 5119' & KB 25' @ 5144.00ft (HP 311)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM5000-RobertS-Local

Checked By: _____	Approved By: _____	Date: _____
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