

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 922-36M1CS
2. TYPE OF WORK DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>		3. FIELD OR WILDCAT NATURAL BUTTES
4. TYPE OF WELL Gas Well Coalbed Methane Well: NO		5. UNIT or COMMUNITIZATION AGREEMENT NAME NATURAL BUTTES
6. NAME OF OPERATOR KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. OPERATOR PHONE 720 929-6515
8. ADDRESS OF OPERATOR P.O. Box 173779, Denver, CO, 80217		9. OPERATOR E-MAIL julie.jacobson@anadarko.com
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) ML-22650	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	1078 FSL 2379 FWL	SESW	36	9.0 S	22.0 E	S
Top of Uppermost Producing Zone	792 FSL 816 FWL	SWSW	36	9.0 S	22.0 E	S
At Total Depth	792 FSL 816 FWL	SWSW	36	9.0 S	22.0 E	S

21. COUNTY UINTAH	22. DISTANCE TO NEAREST LEASE LINE (Feet) 792	23. NUMBER OF ACRES IN DRILLING UNIT 640
25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 131	26. PROPOSED DEPTH MD: 8913 TVD: 8654	
27. ELEVATION - GROUND LEVEL 4995	28. BOND NUMBER 22013542	29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE Permit #43-8496

Hole, Casing, and Cement Information

String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement	Sacks	Yield	Weight
Surf	11	8.625	0 - 2230	28.0	J-55 LT&C	0.2	Type V	180	1.15	15.8
							Class G	270	1.15	15.8
Prod	7.875	4.5	0 - 8913	11.6	I-80 LT&C	12.5	Premium Lite High Strength	280	3.38	11.0
							50/50 Poz	1230	1.31	14.3

ATTACHMENTS

VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES

<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER	<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN
<input type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)	<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER
<input checked="" type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)	<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP

NAME Gina Becker	TITLE Regulatory Analyst II	PHONE 720 929-6086
SIGNATURE	DATE 05/14/2011	EMAIL gina.becker@anadarko.com
API NUMBER ASSIGNED 43047515950000	APPROVAL  Permit Manager	

Kerr-McGee Oil & Gas Onshore. L.P.**NBU 922-36M1CS**

Surface: 1078 FSL / 2379 FWL SESW
 BHL: 792 FSL / 816 FWL SWSW

Section 36 T9S R22E

Unitah County, Utah
 Mineral Lease: ML-22650

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	1154	
Birds Nest	1406	Water
Mahogany	1777	Water
Wasatch	4225	Gas
Mesaverde	6398	Gas
MVU2	7434	Gas
MVL1	8012	Gas
TVD	8654	
TD	8913	

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 8654' TVD, approximately equals
 5,526 psi (0.64 psi/ft = actual bottomhole gradient)

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

Maximum anticipated surface pressure equals approximately 3,623 psi (bottom hole pressure
 minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot, per Onshore Order No. 2).

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

8. Anticipated Starting Dates:

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

9. Variances:

*Please refer to the attached 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 11 inch tri-cone bit. The tri-cone bit is used to drill to the surface casing point, approximately 500 feet below the loss circulation zone (Bird's Nest). The 8-5/8 inch surface casing is then run and cemented in place, thereby isolating the lost circulation zone.

KMG fully appreciates Onshore Order 2 well control and safety requirements associated with a typical air drilling operations. However, the requirements of Onshore Order 2 are excessive with respect to the air rig layout and drilling operation procedures that are currently in practice to drill and control the surface casing hole in KMG Fields.

Variance for BOPE Requirements

The air rig operation utilizes a properly lubricated and maintained air bowl diverter system which diverts the drilling returns to a six-inch blooie line. The air bowl is the only piece of BOPE equipment which is installed during drilling operations and is sufficient to contain the air returns associated with this drilling operation. As was discussed earlier, the drilling of the surface hole does not encounter any over pressured or productive zones, and as a result standard BOPE equipment should not be required. In addition, standard drilling practices do not support the use of BOPE on 40 feet of conductor pipe.

Variance for Mud Material Requirements

Onshore Order 2 also states that sufficient quantities of mud materials shall be maintained or readily accessible for the purpose of assuring adequate well control. Once again, the surface hole drilling operations does not encounter over pressured or productive intervals, and as a result there is not a need to control pressure in the surface hole with a mud system. Instead of mud, the air rigs utilize water from the reserve pit for well control, if necessary. A skid pump which is located near the reserve pit (see attachment) will supply the water to the well bore.

Variance for Special Drilling Operation (surface equipment placement) Requirements

Onshore Order 2 requires specific safety distances or setbacks for the placement of associated standard air drilling equipment, wellbore, and reserve pits. The air rigs used to drill the surface holes are not typical of an air rig used to drill a producing hole in other parts of the US. These are smaller in nature and designed to fit a KMG location. The typical air rig layout for drilling surface hole in the field is attached.

Typically the blooie line discharge point is required to be 100 feet from the well bore. In the case of a KMG well, the reserve pit is only 45 feet from the rig and is used for the drill cuttings. The blooie line, which transports the drill cuttings from the well to the reserve pit, subsequently discharges only 45 feet from the well bore.

Typically the air rig compressors are required to be located in the opposite direction from the blooie line and a minimum of 100 feet from the well bore. At the KMG locations, the air rig compressors are approximately 40 feet from the well bore and approximately 60 feet from the blooie line discharge due to the unique air rig design. The air compressors (see attachment) are located on the rig (1250 cfm) and

on a standby trailer (1170 cfm). A booster sits between the two compressors and boosts the output from 350 psi to 2000 psi. The design does put the booster and standby compressor opposite from the blooie line.

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

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.

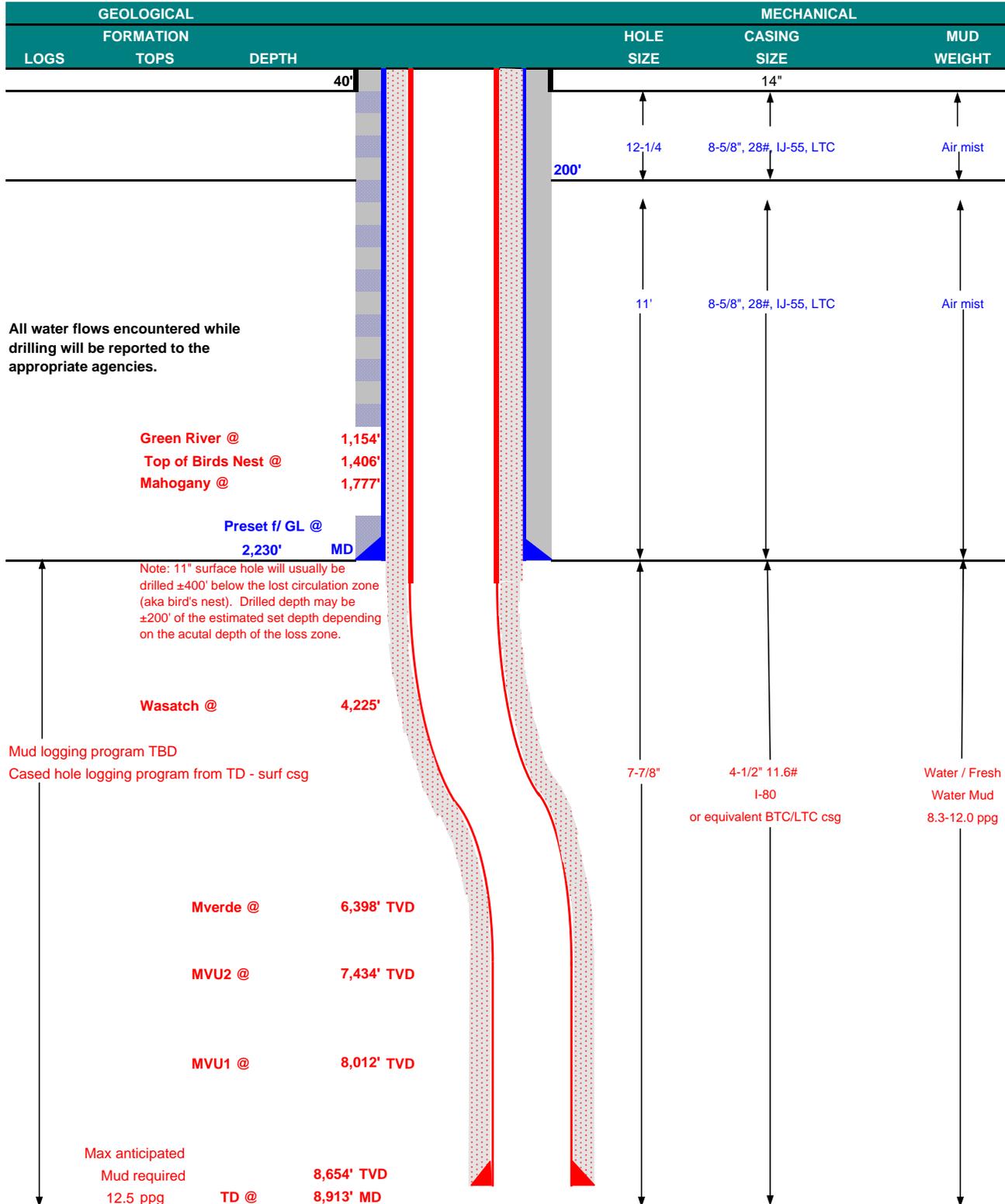
10. Other Information:

Please refer to the attached Drilling Program.



KERR-McGEE OIL & GAS ONSHORE LP DRILLING PROGRAM

COMPANY NAME	KERR-McGEE OIL & GAS ONSHORE LP		DATE	May 13, 2011			
WELL NAME	NBU 922-36M1CS		TD	8,654'	TVD	8,913' MD	
FIELD	Natural Buttes	COUNTY	Uintah	STATE	Utah	FINISHED ELEVATION	4994.7
SURFACE LOCATION	SESW	1078 FSL	2379 FWL	Sec 36	T 9S	R 22E	
	Latitude:	39.988233	Longitude:	-109.38855		NAD 27	
BTM HOLE LOCATION	SWSW	792 FSL	816 FWL	Sec 36	T 9S	R 22E	
	Latitude:	39.987454	Longitude:	-109.394126		NAD 27	
OBJECTIVE ZONE(S)	Wasatch/Mesaverde						
ADDITIONAL INFO	Regulatory Agencies: UDOGM (Minerals), UDOGM (Surface), UDOGM Tri-County Health Dept.						





KERR-McGEE OIL & GAS ONSHORE LP
DRILLING PROGRAM

CASING PROGRAM

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS			
						BURST	COLLAPSE	TENSION	
CONDUCTOR	14"	0-40'							
SURFACE	8-5/8"	0 to 2,230	28.00	IJ-55	LTC	3,390	1,880	348,000	N/A
						2.43	1.80	6.36	N/A
PRODUCTION	4-1/2"	0 to 8,913	11.60	I-80	LTC/BTC	7,780	6,350	279,000	367,000
						1.11	1.13	3.34	4.39

Surface Casing:

(Burst Assumptions: TD = 12.5 ppg) 0.73 psi/ft = frac gradient @ surface shoe
 Fracture at surface shoe with 0.1 psi/ft gas gradient above
 (Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

Production casing:

(Burst Assumptions: Pressure test with 8.4ppg @ 7000 psi) 0.64 psi/ft = bottomhole gradient
 (Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

CEMENT PROGRAM

	FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE LEAD	500'	Premium cmt + 2% CaCl + 0.25 pps flocele	180	60%	15.80	1.15
Option 1 TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt + 2% CaCl + 0.25 pps flocele	270	0%	15.80	1.15
NOTE: If well will circulate water to surface, option 2 will be utilized						
SURFACE LEAD	1,730'	65/35 Poz + 6% Gel + 10 pps gilsonite + 0.25 pps Flocele + 3% salt BWOW	160	35%	11.00	3.82
Option 2 TAIL	500'	Premium cmt + 2% CaCl + 0.25 pps flocele	150	35%	15.80	1.15
TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.80	1.15
PRODUCTION LEAD	3,723'	Premium Lite II +0.25 pps celloflake + 5 pps gilsonite + 10% gel + 0.5% extender	280	20%	11.00	3.38
TAIL	5,190'	50/50 Poz/G + 10% salt + 2% gel + 0.1% R-3	1,230	35%	14.30	1.31

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

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

FLOAT EQUIPMENT & CENTRALIZERS

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe
PRODUCTION	Float shoe, 1 jt, float collar. 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.

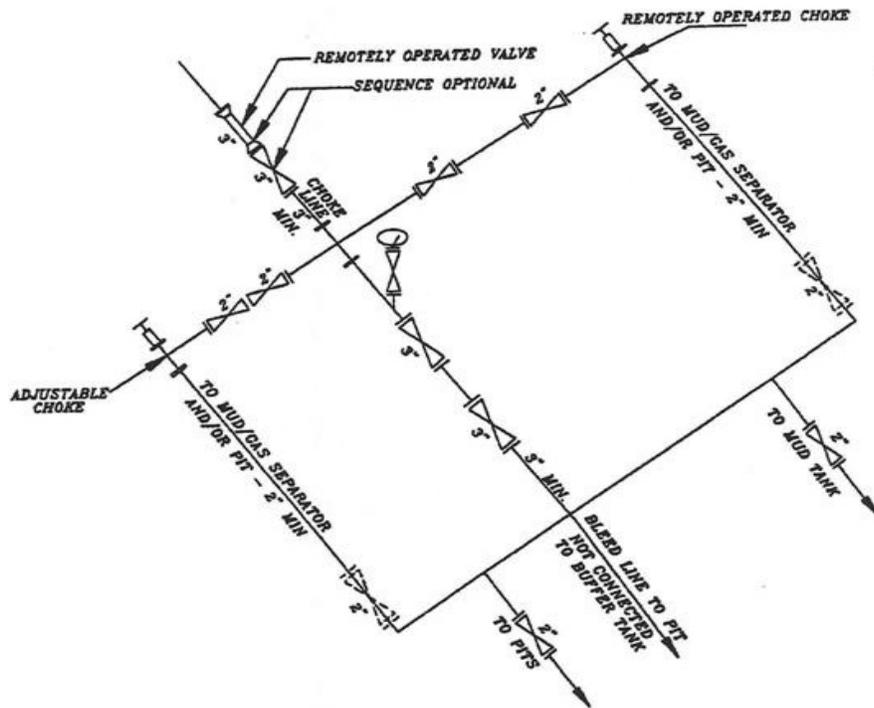
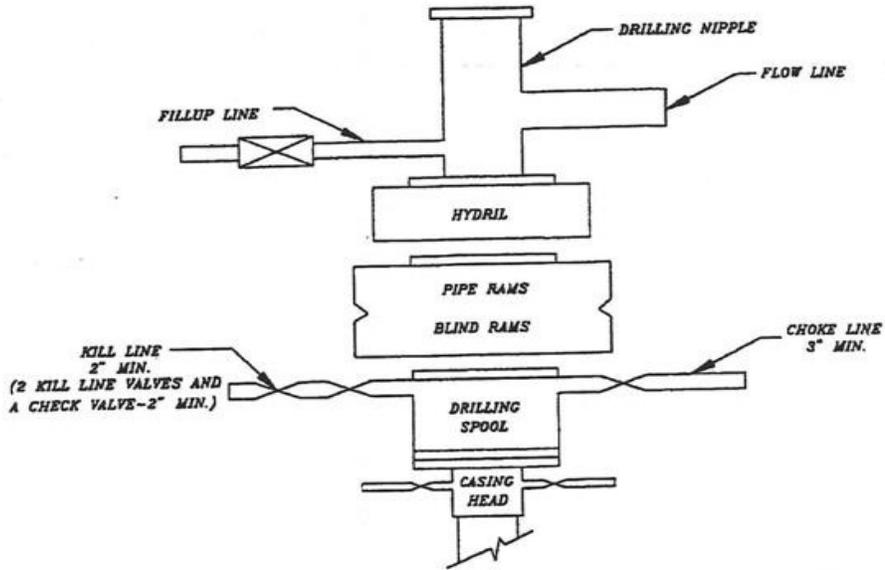
DRILLING ENGINEER: _____
 Nick Spence / Emile Goodwin

DATE: _____

DRILLING SUPERINTENDENT: _____
 Kenny Gathings / Lovel Young

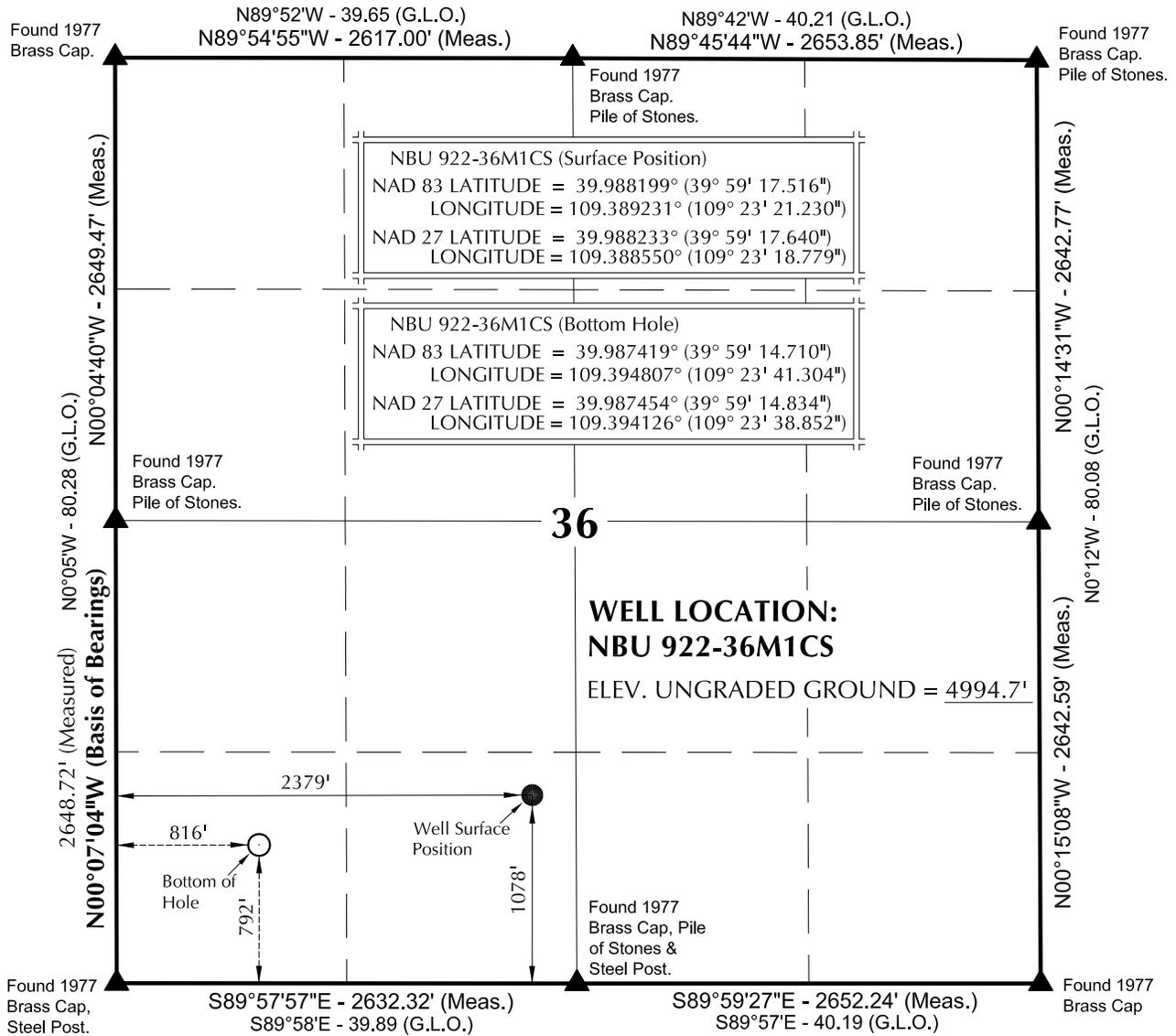
DATE: _____

EXHIBIT A
NBU 922-36M1CS



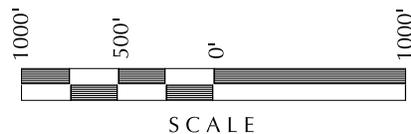
SCHEMATIC DIAGRAM OF 5,000 PSI BOP STACK

T9S, R22E, S.L.B.&M.



NOTES:

- ▲ = Section Corners Located
- 1. Well footages are measured at right angles to the Section Lines.
- 2. G.L.O. distances are shown in feet or chains.
1 chain = 66 feet.
- 3. The Bottom of hole bears S79°39'21"W 1588.46' 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 ¼ of Section 1, T10S, R21E, S.L.B.&M. The elevation of this Tri-Sta is shown on the Big Pack Mtn NE 7.5 Min. Quadrangle as being 5238'.



SURVEYOR'S CERTIFICATE

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

John R. Staugh
 No. 6028691
 JOHN R. STAUGH
 PROFESSIONAL LAND SURVEYOR
 REGISTRATION No. 6028691
 STATE OF UTAH

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

Well Pad: NBU 922-36N

**NBU 922-36M1CS
 WELL PLAT**
 792' FSL, 816' FWL (Bottom Hole)
 SW ¼ SW ¼ OF SECTION 36, T9S, R22E,
 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

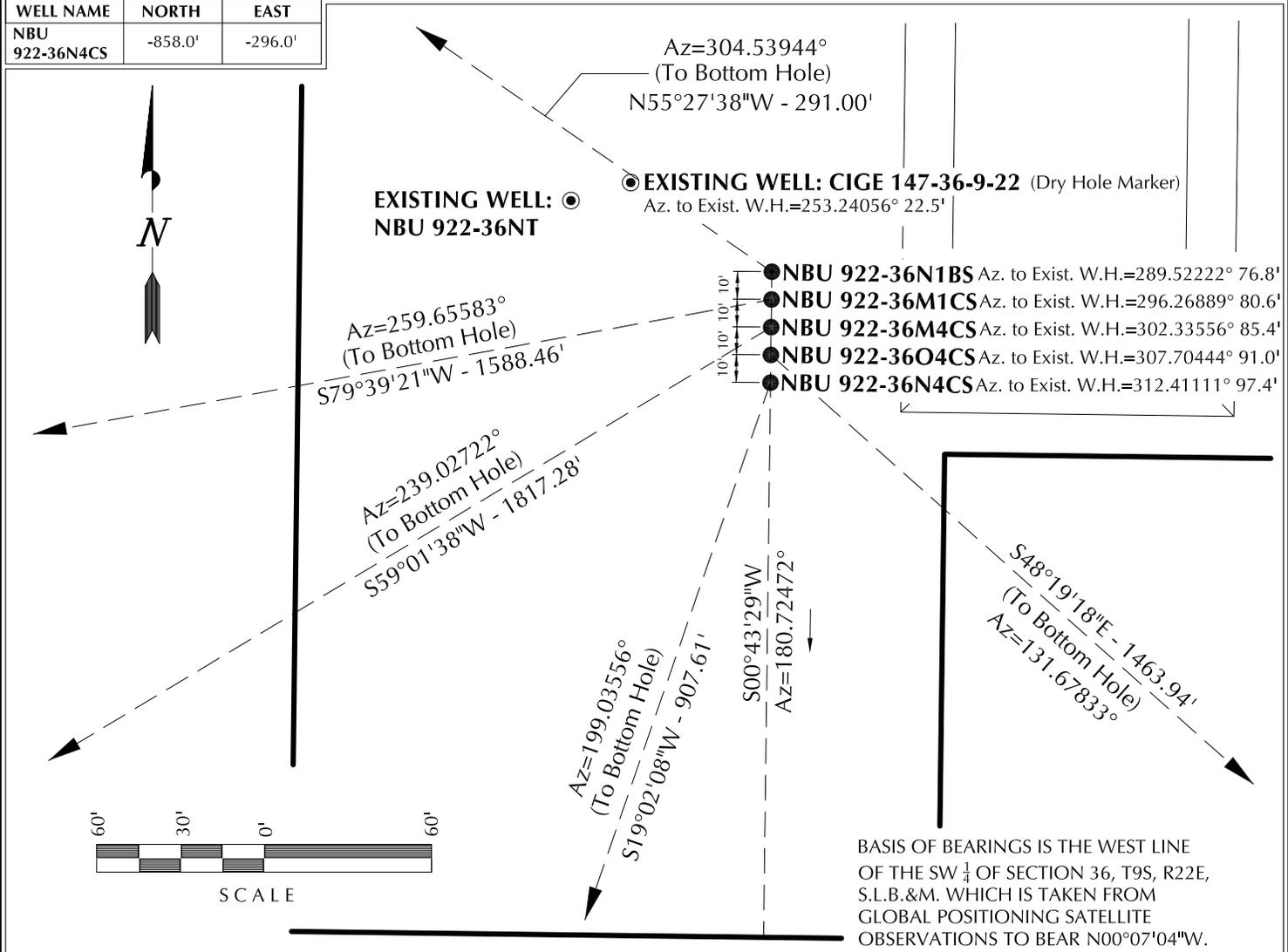
ENGINEERING & LAND SURVEYING, INC.
 209 NORTH 300 WEST - VERNAL, UTAH 84078

DATE SURVEYED: 11-08-10	SURVEYED BY: M.S.B.	SHEET NO: 2
DATE DRAWN: 11-15-10	DRAWN BY: B.M.	
SCALE: 1" = 1000'	Date Last Revised: 12-15-10 E.M.S.	2 OF 17

WELL NAME	SURFACE POSITION					BOTTOM HOLE				
	NAD83		NAD27		FOOTAGES	NAD83		NAD27		FOOTAGES
	LATITUDE	LONGITUDE	LATITUDE	LONGITUDE		LATITUDE	LONGITUDE	LATITUDE	LONGITUDE	
NBU 922-36N1BS	39°59'17.614"	109°23'21.229"	39°59'17.738"	109°23'18.777"	1088' FSL 2379' FWL	39°59'19.247"	109°23'24.306"	39°59'19.370"	109°23'21.854"	1253' FSL 2140' FWL
NBU 922-36M1CS	39°59'17.516"	109°23'21.230"	39°59'17.640"	109°23'18.779"	1078' FSL 2379' FWL	39°59'14.710"	109°23'41.304"	39°59'14.834"	109°23'38.852"	792' FSL 816' FWL
NBU 922-36M4CS	39°59'17.417"	109°23'21.232"	39°59'17.541"	109°23'18.781"	1068' FSL 2379' FWL	39°59'08.189"	109°23'41.255"	39°59'08.313"	109°23'38.803"	132' FSL 819' FWL
NBU 922-36O4CS	39°59'17.318"	109°23'21.234"	39°59'17.442"	109°23'18.783"	1058' FSL 2379' FWL	39°59'07.691"	109°23'07.201"	39°59'07.815"	109°23'04.751"	85' FSL 1814' FEL
NBU 922-36N4CS	39°59'17.219"	109°23'21.236"	39°59'17.343"	109°23'18.784"	1048' FSL 2379' FWL	39°59'08.745"	109°23'25.047"	39°59'08.869"	109°23'22.596"	190' FSL 2081' FWL
NBU 922-36NT	39°59'17.869"	109°23'22.158"	39°59'17.992"	109°23'19.707"	1114' FSL 2307' FWL					
CIGE 147-36-9-22	39°59'17.933"	109°23'21.882"	39°59'18.056"	109°23'19.430"	1120' FSL 2329' FWL					

RELATIVE COORDINATES - From Surface Position to Bottom Hole

WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST
NBU 922-36N1BS	165.0'	-239.7'	NBU 922-36M1CS	-285.2'	-1,562.6'	NBU 922-36M4CS	-935.2'	-1,558.2'	NBU 922-36O4CS	-973.4'	1,093.4'
NBU 922-36N4CS	-858.0'	-296.0'									



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

WELL PAD - NBU 922-36N

WELL PAD INTERFERENCE PLAT
WELLS - NBU 922-36N1BS,
NBU 922-36M1CS, NBU 922-36M4CS,
NBU 922-36O4CS & NBU 922-36N4CS
LOCATED IN SECTION 36, T9S, R22E,
S.L.B.&M., UINTAH COUNTY, UTAH.

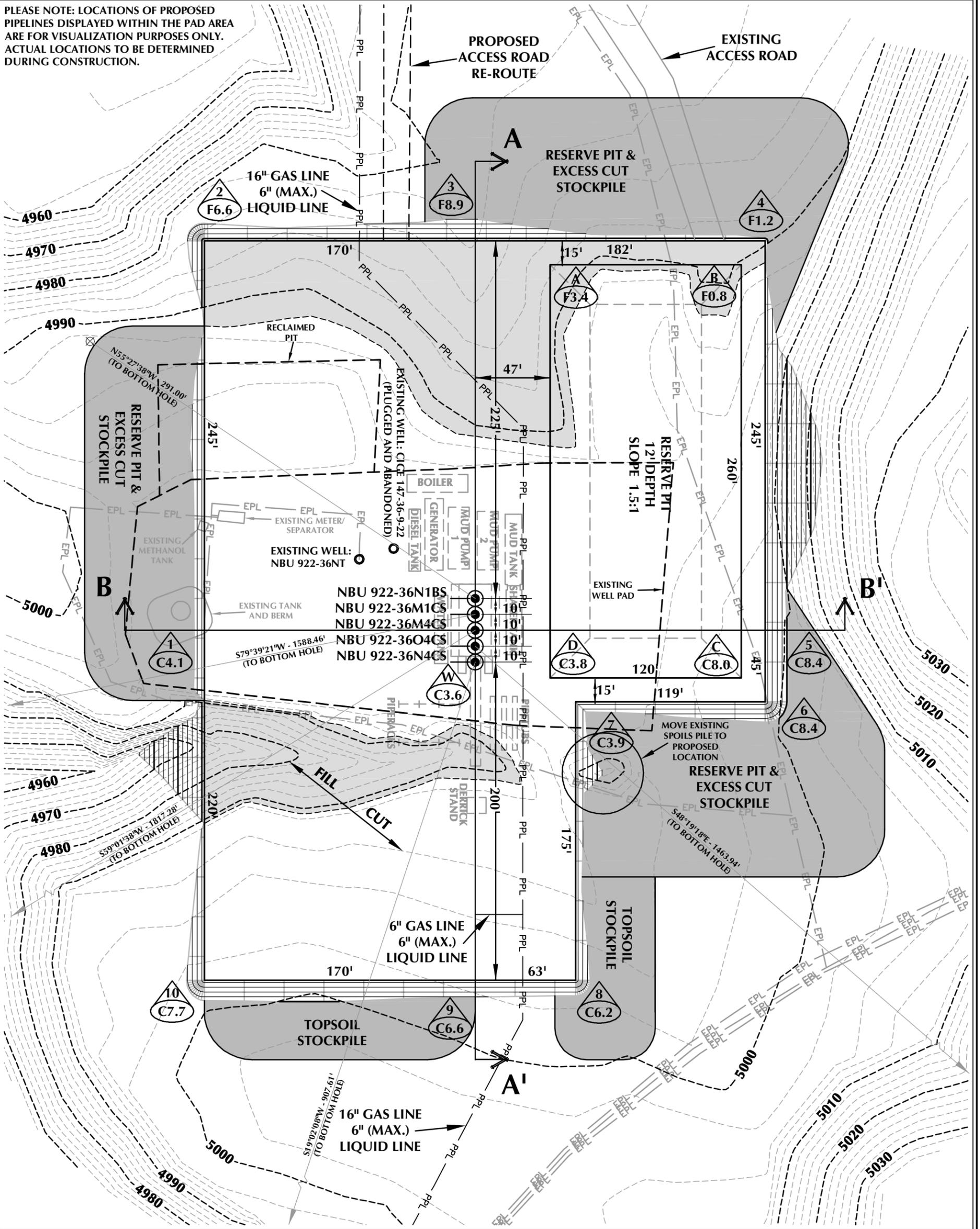
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CONSULTING, LLC
2155 North Main Street
Sheridan WY 82801
Phone 307-674-0609
Fax 307-674-0182

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

DATE SURVEYED: 11-08-10	SURVEYED BY: M.S.B.	SHEET NO: 6
DATE DRAWN: 11-15-10	DRAWN BY: B.M.	
SCALE: 1" = 60'		6 OF 17

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 922-36N DESIGN SUMMARY

EXISTING GRADE @ CENTER OF WELL PAD = 4994.6'
 FINISHED GRADE ELEVATION = 4991.0'
 CUT SLOPES = 1.5:1
 FILL SLOPES = 1.5:1
 TOTAL WELL PAD AREA = 3.68 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 922-36N
 WELL PAD - LOCATION LAYOUT
 NBU 922-36N1BS,
 NBU 922-36M1CS, NBU 922-36M4CS,
 NBU 922-36O4CS & NBU 922-36N4CS
 LOCATED IN SECTION 36, T9S, R22E,
 S.L.B.&M., UINTAH COUNTY, UTAH



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

WELL PAD QUANTITIES

TOTAL CUT FOR WELL PAD = 15,847 C.Y.
 TOTAL FILL FOR WELL PAD = 6,008 C.Y.
 TOPSOIL @ 6" DEPTH = 2,141 C.Y.
 EXCESS MATERIAL = 9,839 C.Y.

RESERVE PIT QUANTITIES

TOTAL CUT FOR RESERVE PIT
 +/- 11,020 C.Y.
 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)
- PPL - PROPOSED PIPELINE
- EPL - EXISTING PIPELINE

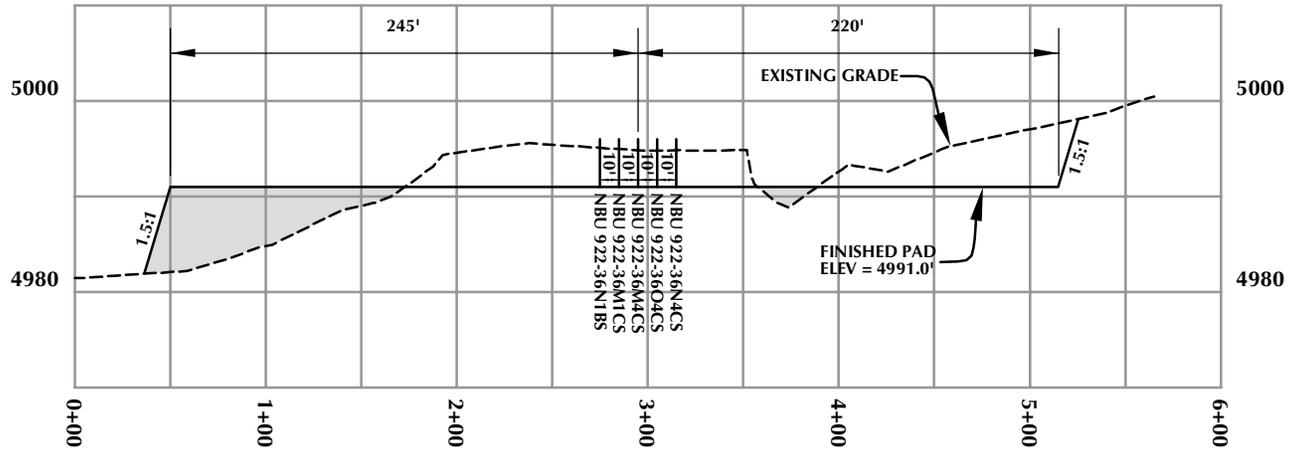


HORIZONTAL 0 30' 60' 1" = 60'

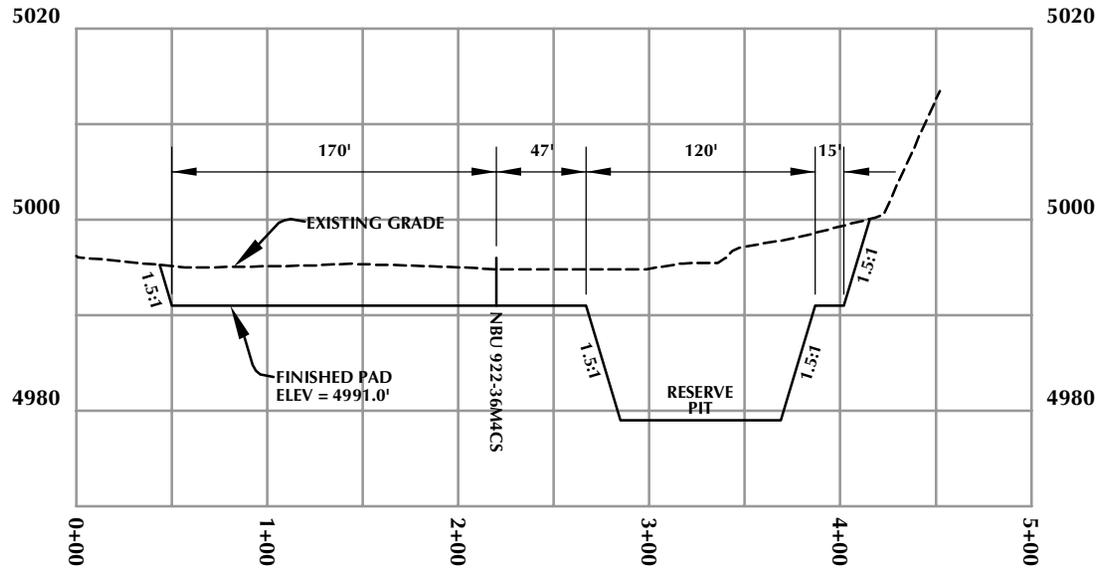
2' CONTOURS

SCALE: 1"=60' DATE: 12/3/10 SHEET NO:
 REVISED: JFE 1/24/11 7 7 OF 17

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



CROSS SECTION A-A'



CROSS SECTION B-B'

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

WELL PAD - NBU 922-36N

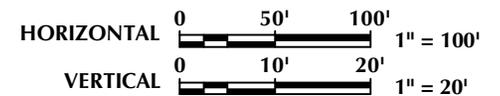
WELL PAD - CROSS SECTIONS
NBU 922-36N1BS,
NBU 922-36M1CS, NBU 922-36M4CS,
NBU 922-36O4CS & NBU 922-36N4CS
LOCATED IN SECTION 36, T9S, R22E,
S.L.B.&M., UINAH COUNTY, UTAH



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: 12/3/10

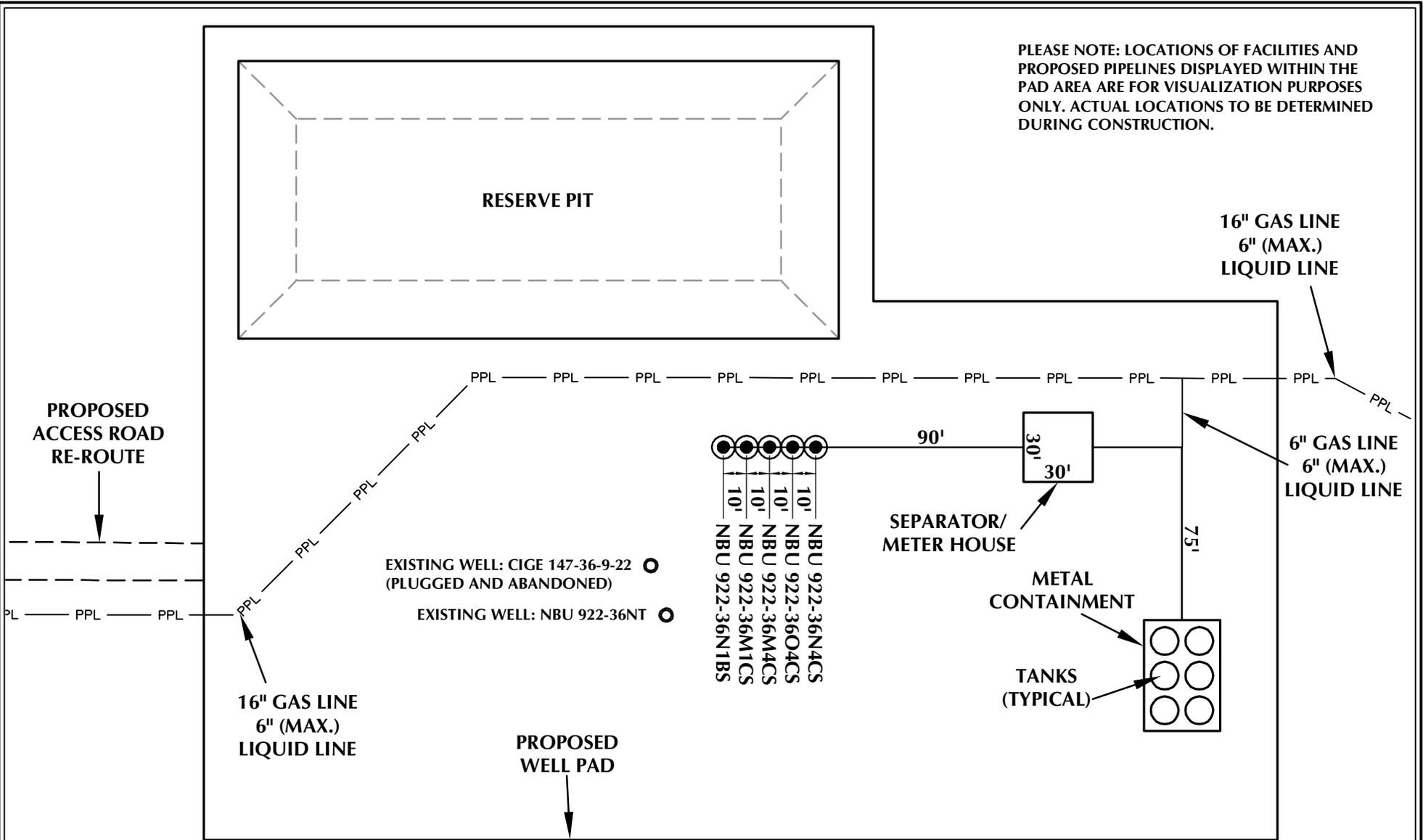
SHEET NO:

REVISED:

8

8 OF 17

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



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

WELL PAD - NBU 922-36N

WELL PAD - FACILITIES DIAGRAM
NBU 922-36N1BS,
NBU 922-36M1CS, NBU 922-36M4CS,
NBU 922-36O4CS & NBU 922-36N4CS
LOCATED IN SECTION 36, T9S, R22E,
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 1" = 60'

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

(435) 789-1365

Scale: 1"=60'

Date: 12/3/10

SHEET NO:

REVISED:

JFE
1/24/11

9

9 OF 17

K:\ANADARRO\2010_48_NBU_FOCUS_SEC_36-92-2.DWG\CS\NBU 922-36N\NBU 922-36N.PAD_20101109.dwg

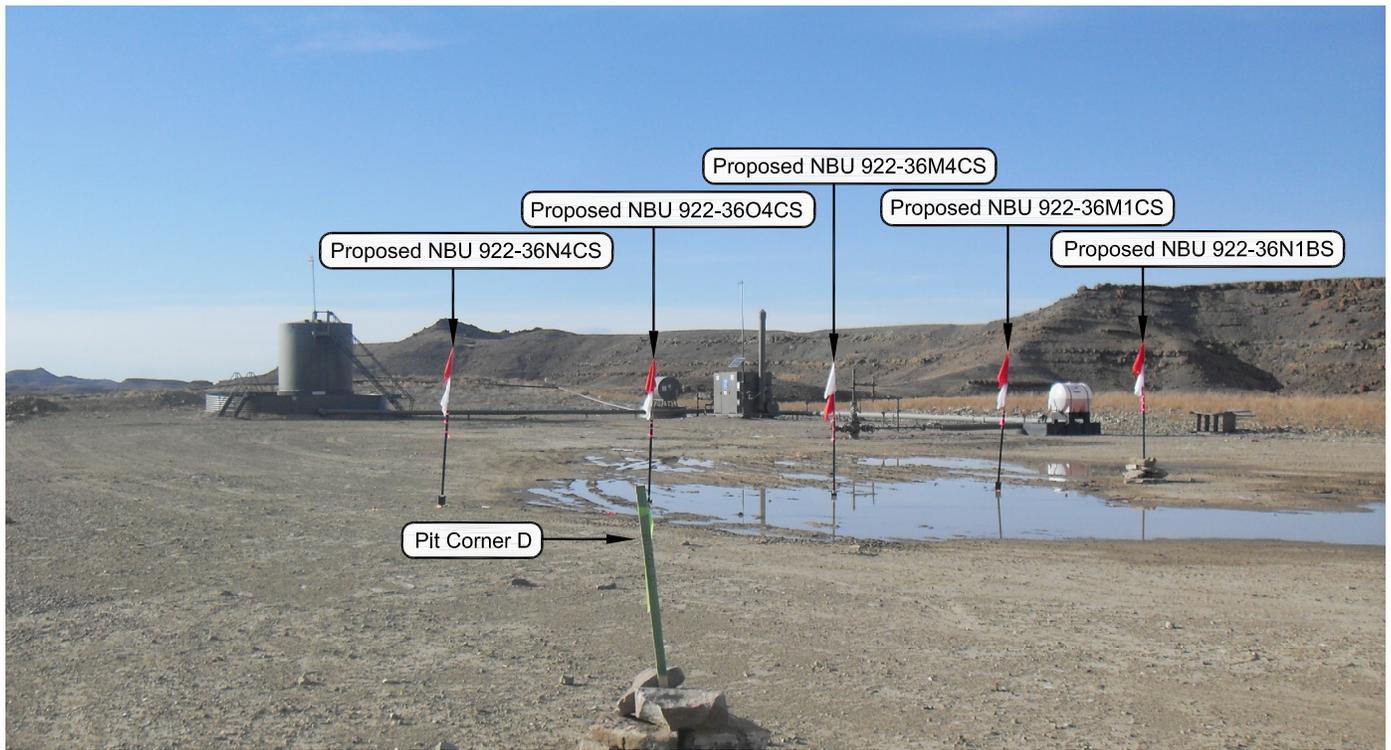


PHOTO VIEW: FROM PIT CORNER D TO LOCATION STAKE

CAMERA ANGLE: NORTHWESTERLY



PHOTO VIEW: FROM BEGINNING OF PROPOSED ROAD

CAMERA ANGLE: SOUTHERLY

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

Well Pad - NBU 922-36N

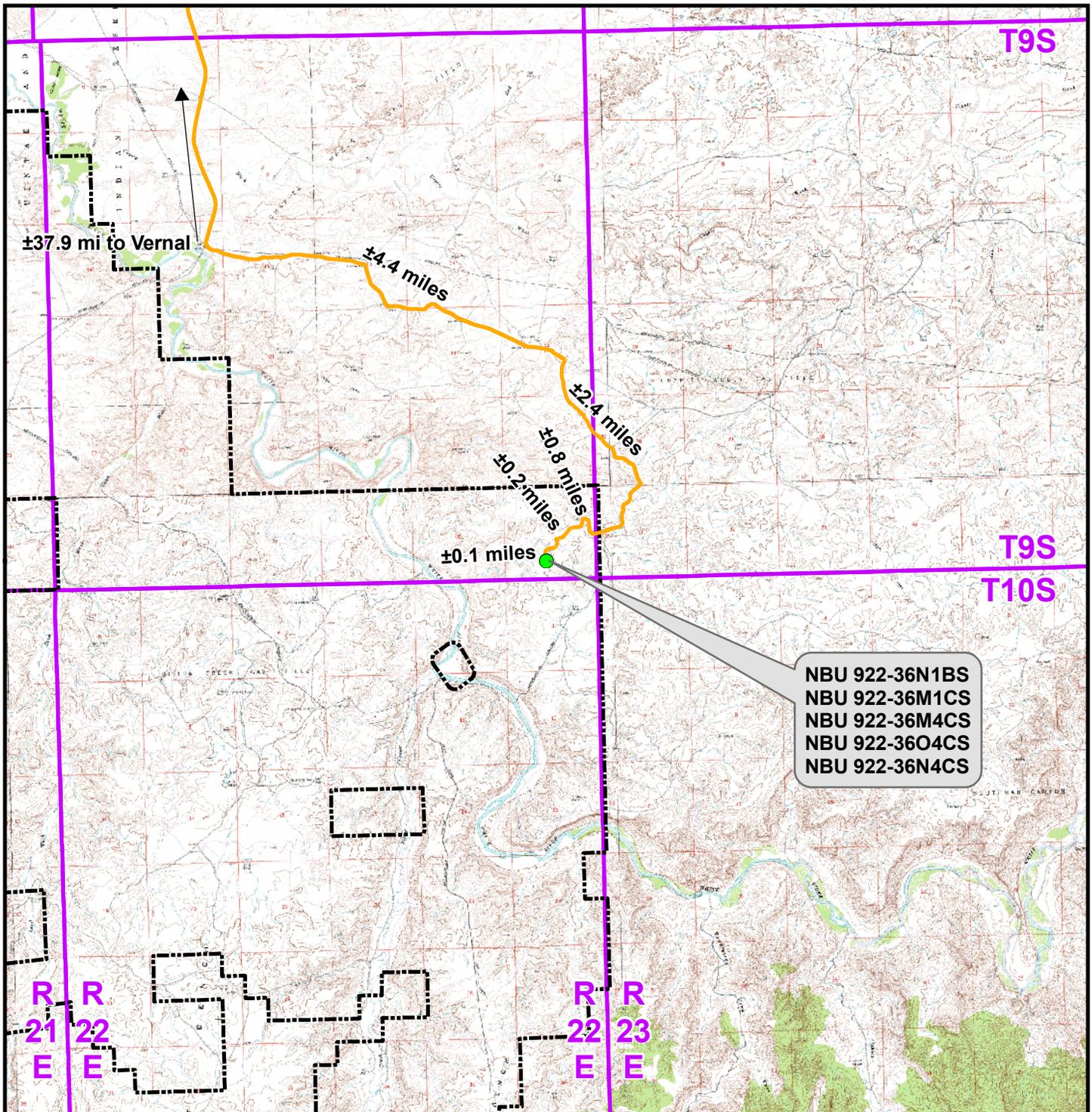
LOCATION PHOTOS
 NBU 922-36N1BS,
 NBU 922-36M1CS, NBU 922-36M4CS,
 NBU 922-36O4CS & NBU 922-36N4CS
 LOCATED IN SECTION 36, T9S, R22E,
 S.L.B.&M., UINTAH COUNTY, UTAH.



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

DATE PHOTOS TAKEN: 11-17-10	PHOTOS TAKEN BY: M.S.B.	SHEET NO: 10
DATE DRAWN: 11-18-10	DRAWN BY: B.M.	
Date Last Revised:		10 OF 17



NBU 922-36N1BS
 NBU 922-36M1CS
 NBU 922-36M4CS
 NBU 922-36O4CS
 NBU 922-36N4CS

Legend

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

Distance From Well Pad - NBU 922-36N To Unit Boundary: ±2,903ft

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

WELL PAD - NBU 922-36N

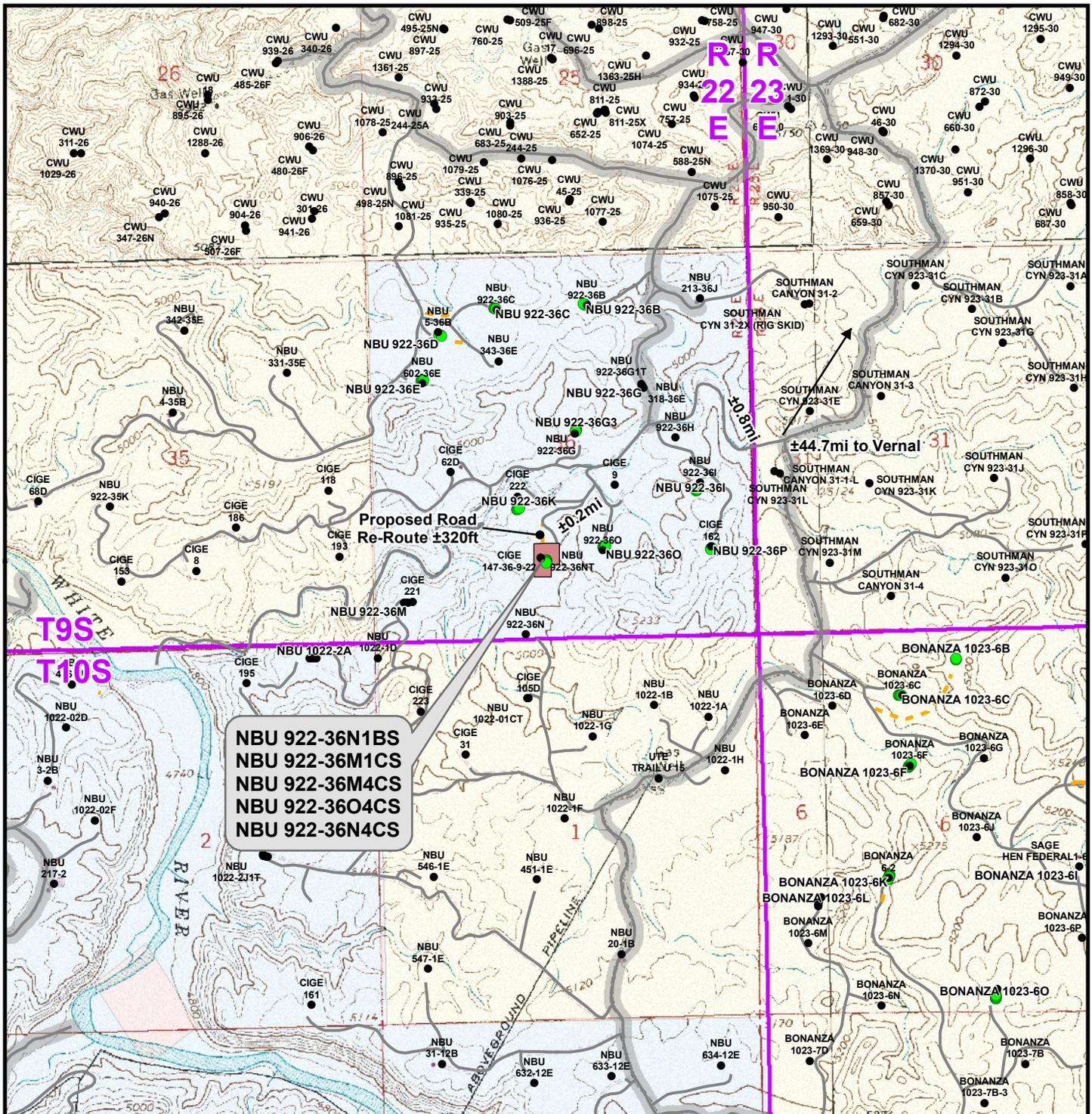
TOPO A
 NBU 922-36N1BS,
 NBU 922-36M1CS, NBU 922-36M4CS,
 NBU 922-36O4CS & NBU 922-36N4CS
 LOCATED IN SECTION 36, T9S, R22E,
 S.L.B.&M., UINTAH COUNTY, UTAH



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



Scale: 1:100,000	NAD83 USP Central	Sheet No:
Drawn: TL	Date: 3 Dec 2010	11
Revised:	Date:	



Legend

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

Total Proposed Road Re-Route Length: ±320ft

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

WELL PAD - NBU 922-36N

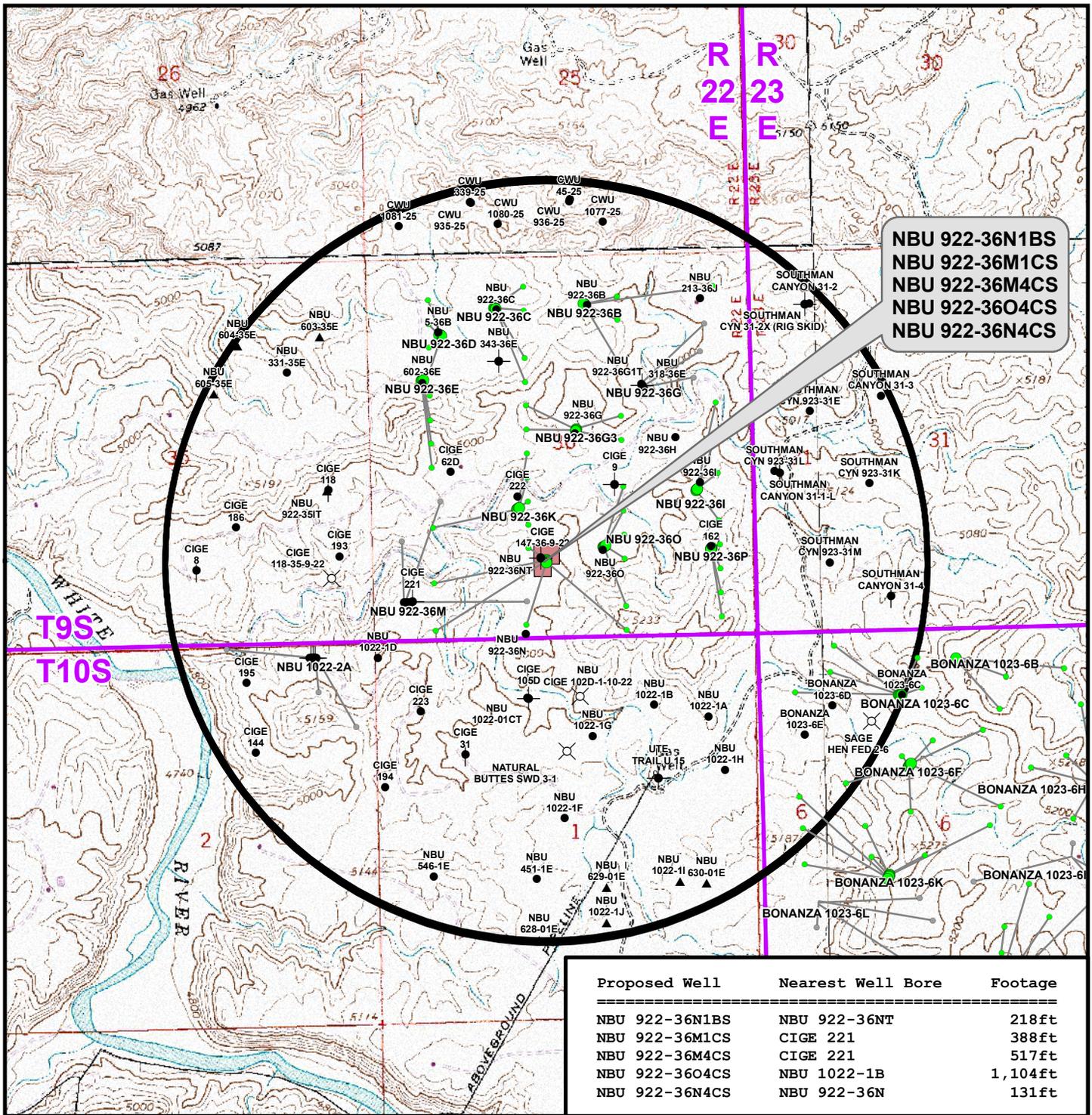
TOPO B
NBU 922-36N1BS,
NBU 922-36M1CS, NBU 922-36M4CS,
NBU 922-36O4CS & NBU 922-36N4CS
LOCATED IN SECTION 36, T9S, R22E,
S.L.B.&M., UTAH COUNTY, UTAH



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



Scale: 1" = 2,000ft	NAD83 USP Central	Sheet No: 12 12 of 17
Drawn: TL	Date: 3 Dec 2010	
Revised:	Date:	



Legend

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

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

WELL PAD - NBU 922-36N

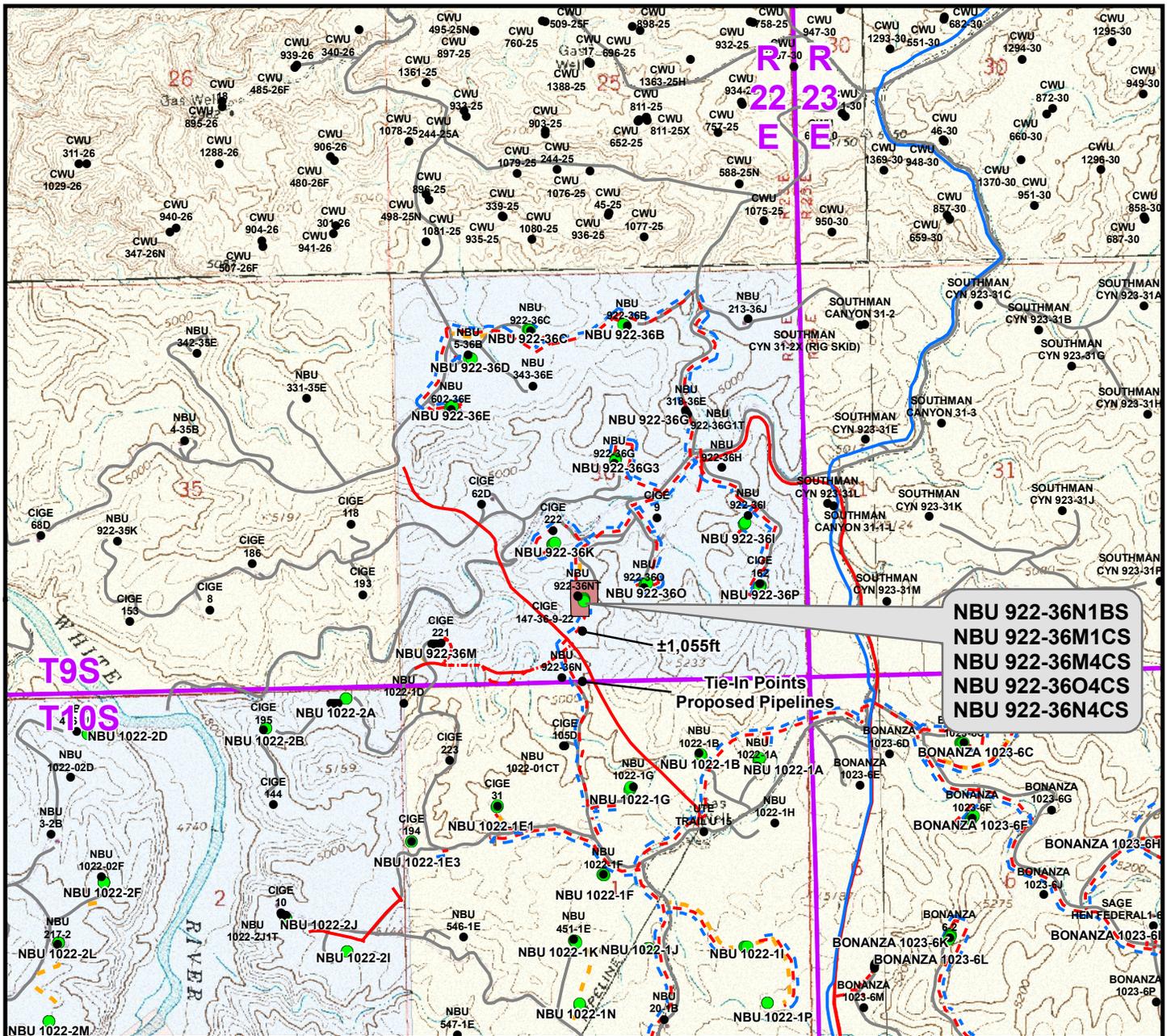
TOPO C

NBU 922-36N1BS,
NBU 922-36M1CS, NBU 922-36M4CS,
NBU 922-36O4CS & NBU 922-36N4CS
LOCATED IN SECTION 36, T9S, R22E,
S.L.B.&M., UTAH COUNTY, UTAH

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CONSULTING, LLC
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Scale: 1" = 2,000ft	NAD83 USP Central	Sheet No:
Drawn: TL	Date: 3 Dec 2010	13
Revised:	Date:	



NBU 922-36N1BS
NBU 922-36M1CS
NBU 922-36M4CS
NBU 922-36O4CS
NBU 922-36N4CS

Proposed Liquid Pipeline	Length	Proposed Gas Pipeline	Length
Proposed 6" (Max.) (Meter House to 36K Intersection)	±85ft	Proposed 6" (Meter House to 36K Intersection)	±85ft
Proposed 6" (Max.) (36K Intersection to South Line of Section 36)	±1,055ft	Proposed 16" (36K Intersection to South Line of Section 36)	±1,055ft
TOTAL PROPOSED LIQUID PIPELINE =	±1,140ft	TOTAL PROPOSED GAS PIPELINE =	±1,140ft

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 - Existing
- - - Road - Existing
- Indian Reservation
- - - Gas Pipeline - Existing
- State
- Private

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

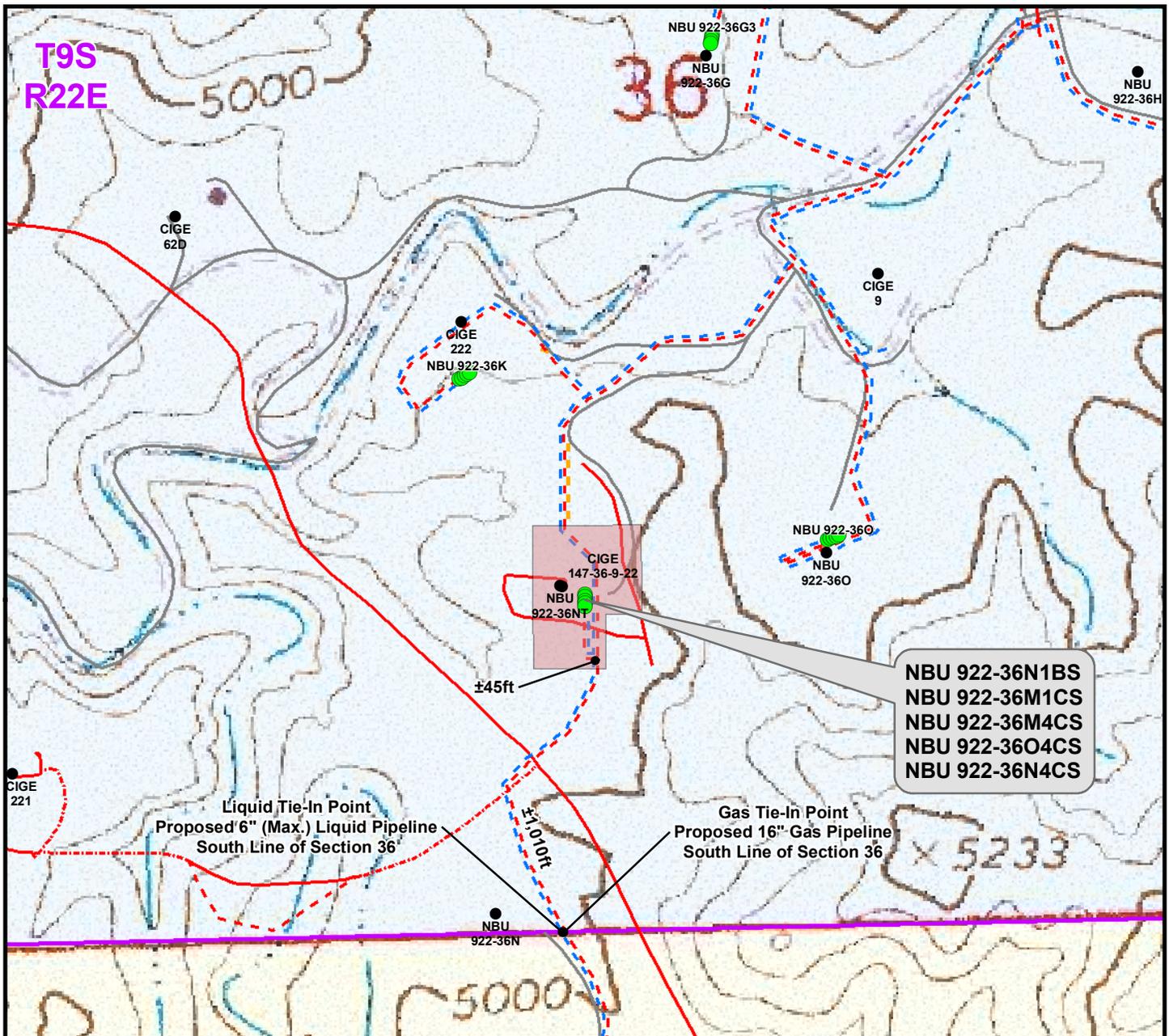
WELL PAD - NBU 922-36N
TOPO D
NBU 922-36N1BS,
NBU 922-36M1CS, NBU 922-36M4CS,
NBU 922-36O4CS & NBU 922-36N4CS
LOCATED IN SECTION 36, T9S, R22E,
S.L.B.&M., UTAH COUNTY, UTAH

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



Scale: 1" = 2,000ft	NAD83 USP Central	Sheet No:
Drawn: TL	Date: 3 Dec 2010	14
Revised: TL	Date: 24 Jan 2011	



NBU 922-36N1BS
 NBU 922-36M1CS
 NBU 922-36M4CS
 NBU 922-36O4CS
 NBU 922-36N4CS

Proposed Liquid Pipeline	Length
Proposed 6" (Max.) (Meter House to 36K Intersection)	±85ft
Proposed 6" (Max.) (36K Intersection to South Line of Section 36)	±1,055ft
TOTAL PROPOSED LIQUID PIPELINE =	±1,140ft

Proposed Gas Pipeline	Length
Proposed 6" (Meter House to 36K Intersection)	±85ft
Proposed 16" (36K Intersection to South Line of Section 36)	±1,055ft
TOTAL PROPOSED GAS PIPELINE =	±1,140ft

Legend

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

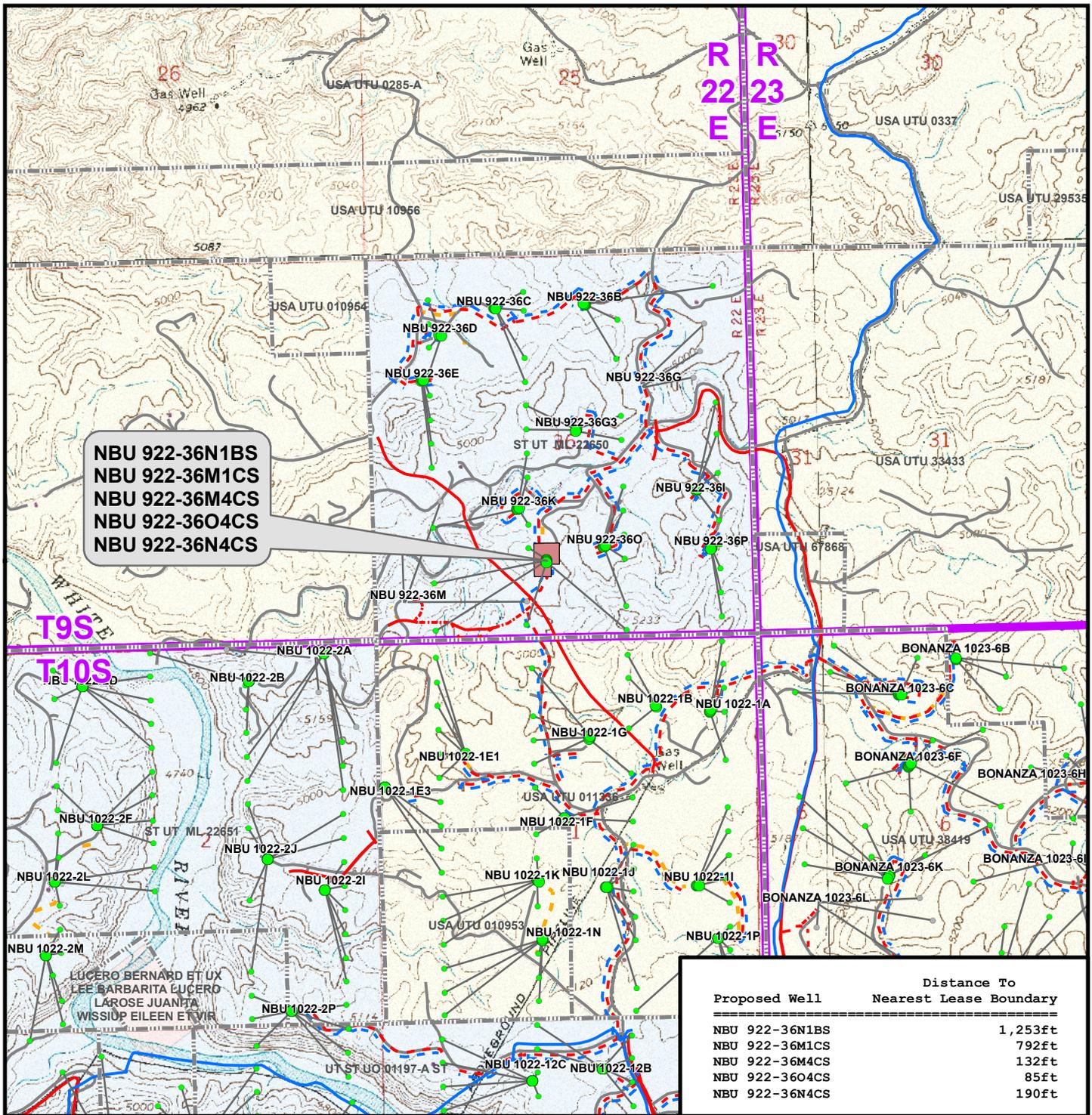
Kerr-McGee Oil & Gas Onshore, LP
 1099 18th Street, Denver, Colorado 80202

WELL PAD - NBU 922-36N

TOPO D2 (PAD & PIPELINE DETAIL)
 NBU 922-36N1BS,
 NBU 922-36M1CS, NBU 922-36M4CS,
 NBU 922-36O4CS & NBU 922-36N4CS
 LOCATED IN SECTION 36, T9S, R22E,
 S.L.B.&M., UTAH 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: TL	Date: 3 Dec 2010	15 15 of 17
Revised: TL	Date: 24 Jan 2011	



**NBU 922-36N1BS
 NBU 922-36M1CS
 NBU 922-36M4CS
 NBU 922-36O4CS
 NBU 922-36N4CS**

Proposed Well	Distance To Nearest Lease Boundary
NBU 922-36N1BS	1,253ft
NBU 922-36M1CS	792ft
NBU 922-36M4CS	132ft
NBU 922-36O4CS	85ft
NBU 922-36N4CS	190ft

Legend

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

— Well Path

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

WELL PAD - NBU 922-36N

TOPO E
 NBU 922-36N1BS,
 NBU 922-36M1CS, NBU 922-36M4CS,
 NBU 922-36O4CS & NBU 922-36N4CS
 LOCATED IN SECTION 36, T9S, R22E,
 S.L.B.&M., UTAH COUNTY, UTAH

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CONSULTING, LLC
 2155 North Main Street
 Sheridan, WY 82801
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Scale: 1" = 2,000ft	NAD83 USP Central	Sheet No:
Drawn: TL	Date: 3 Dec 2010	16
Revised: TL	Date: 24 Jan 2011	

16 of 17

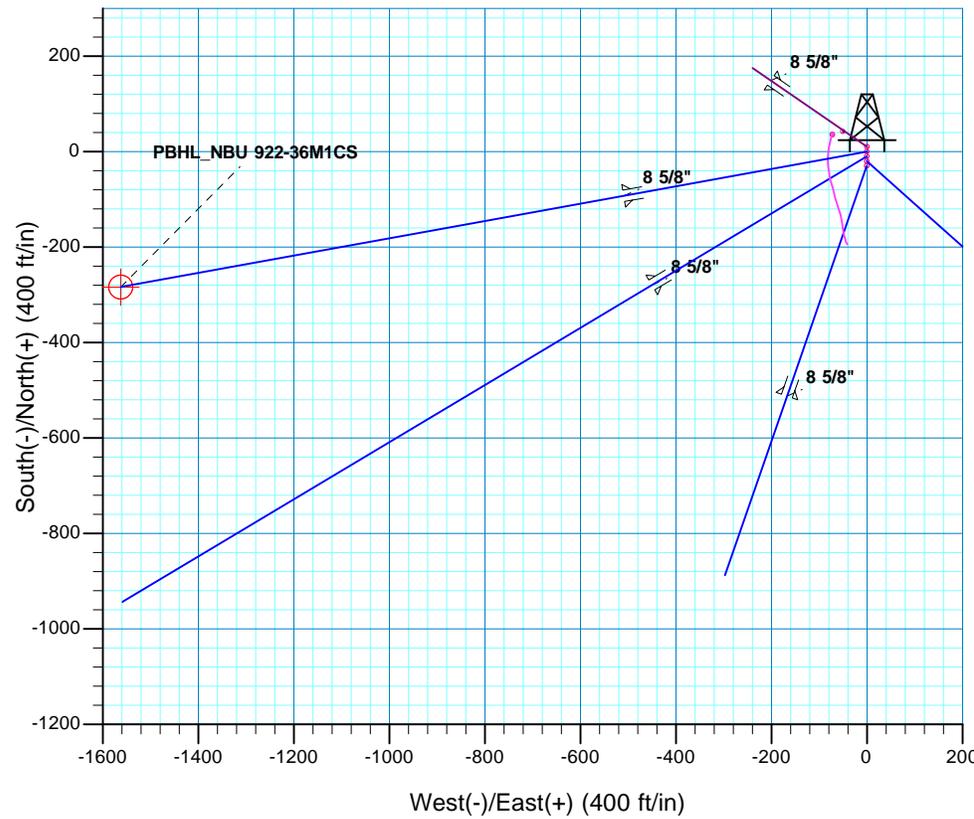
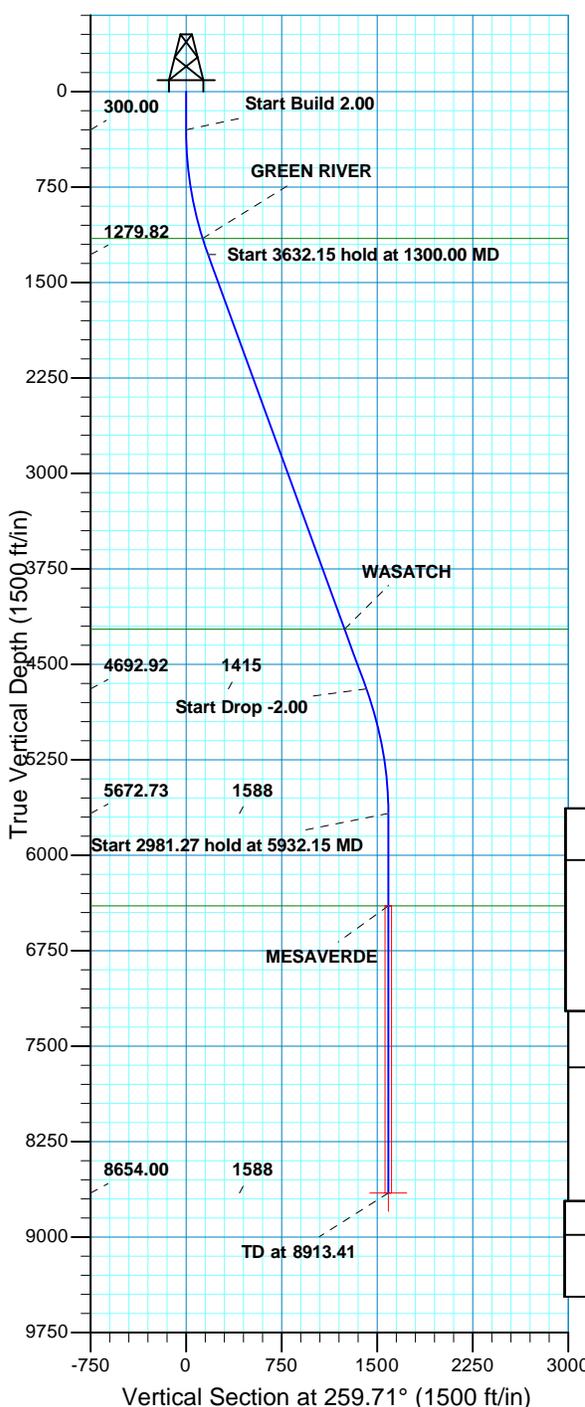
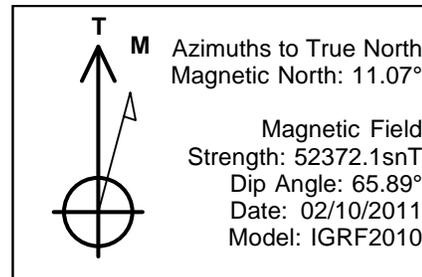
**Kerr-McGee Oil & Gas Onshore, LP
WELL PAD – NBU 922-36N
WELLS – NBU 922-36N1BS,
NBU 922-36M1CS, NBU 922-36M4CS,
NBU 922-36O4CS & NBU 922-36N4CS
Section 36, T9S, R22E, S.L.B.&M.**

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 14.4 miles to the intersection of the Fidlar Road (County B Road 3410) which road intersection is approximately 400 feet northeast of the Mountain Fuel Bridge at the White River. Exit left and proceed in a southeasterly direction along the Fidlar Road approximately 4.4 miles to the intersection of the Seven Sisters Road (County B Road 3420). Exit right and proceed in a southerly, then southeasterly direction along the Seven Sisters Road approximately 2.4 miles to a service road to the southwest. Exit right and proceed in a southwesterly, then northerly, then southwesterly direction along the service road approximately 0.8 miles to a second service road to the southwest. Exit right and proceed in a southwesterly direction along the second service road approximately 0.2 miles to the proposed access road. Follow road flags in a southerly direction approximately 320 feet to the proposed well pad.

Total distance from Vernal, Utah to the proposed well location is approximately 45.8 miles in a southerly direction.



WELL DETAILS: NBU 922-36M1CS								
GL 4991' & KB 4' @ 4995.00ft (ASSUMED)								
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude			
0.00	0.00	14525839.41	2091804.56	39° 59' 17.639 N	109° 23' 18.780 W			
DESIGN TARGET DETAILS								
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
PBHL	8654.00	-283.68	-1562.26	14525527.54	2090247.69	39° 59' 14.834 N	109° 23' 38.854 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		
1300.00	20.00	259.71	1279.82	-30.87	-169.99	2.00	259.71	172.77		
4932.15	20.00	259.71	4692.92	-252.81	-1392.27	0.00	0.00	1415.04		
5932.15	0.00	0.00	5672.73	-283.68	-1562.26	2.00	180.00	1587.80		
8913.41	0.00	0.00	8654.00	-283.68	-1562.26	0.00	0.00	1587.80 PBHL_NBU 922-36M1CS		
FORMATION TOP DETAILS										
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					1154.00	1167.18	GREEN RIVER			
Ellipsoid: Clarke 1866					4225.00	4434.20	WASATCH			
Zone: Zone 12N (114 W to 108 W)					6398.00	6657.41	MESAVERDE			
Location: SECTION 36 T9S R22E										
System Datum: Mean Sea Level										
CASING DETAILS										
			TVD	MD	Name	Size				
			2227.00	2307.97	8 5/8"	8.625				

RECEIVED: Jul. 26, 2011



Kerr McGee Oil and Gas Onshore LP

**Uintah County, UT UTM12
NBU 922-36N PAD
NBU 922-36M1CS**

OH

Plan: PLAN #1 2-10-11 RHS

Standard Planning Report

10 February, 2011





SDI
Planning Report



Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 922-36M1CS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 4991' & KB 4' @ 4995.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 4991' & KB 4' @ 4995.00ft (ASSUMED)
Site:	NBU 922-36N PAD	North Reference:	True
Well:	NBU 922-36M1CS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1 2-10-11 RHS		

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 922-36N PAD, SECTION 36 T9S R22E				
Site Position:		Northing:	14,525,849.61 usft	Latitude:	39° 59' 17.740 N
From:	Lat/Long	Easting:	2,091,804.66 usft	Longitude:	109° 23' 18.776 W
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence:	1.04 °

Well	NBU 922-36M1CS, 1078 FSL 2379 FWL					
Well Position	+N/-S	-10.20 ft	Northing:	14,525,839.41 usft	Latitude:	39° 59' 17.639 N
	+E/-W	-0.28 ft	Easting:	2,091,804.56 usft	Longitude:	109° 23' 18.780 W
Position Uncertainty		0.00 ft	Wellhead Elevation:		Ground Level:	4,991.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	02/10/2011	11.07	65.89	52,372

Design	PLAN #1 2-10-11 RHS			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	259.71

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,300.00	20.00	259.71	1,279.82	-30.87	-169.99	2.00	2.00	0.00	259.71	
4,932.15	20.00	259.71	4,692.92	-252.81	-1,392.27	0.00	0.00	0.00	0.00	
5,932.15	0.00	0.00	5,672.73	-283.68	-1,562.26	2.00	-2.00	0.00	180.00	
8,913.41	0.00	0.00	8,654.00	-283.68	-1,562.26	0.00	0.00	0.00	0.00	PBHL_NBU 922-36M



Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 922-36M1CS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 4991' & KB 4' @ 4995.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 4991' & KB 4' @ 4995.00ft (ASSUMED)
Site:	NBU 922-36N PAD	North Reference:	True
Well:	NBU 922-36M1CS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1 2-10-11 RHS		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
Start Build 2.00										
400.00	2.00	259.71	399.98	-0.31	-1.72	1.75	2.00	2.00	0.00	
500.00	4.00	259.71	499.84	-1.25	-6.87	6.98	2.00	2.00	0.00	
600.00	6.00	259.71	599.45	-2.80	-15.44	15.69	2.00	2.00	0.00	
700.00	8.00	259.71	698.70	-4.98	-27.43	27.88	2.00	2.00	0.00	
800.00	10.00	259.71	797.47	-7.78	-42.82	43.52	2.00	2.00	0.00	
900.00	12.00	259.71	895.62	-11.18	-61.60	62.60	2.00	2.00	0.00	
1,000.00	14.00	259.71	993.06	-15.20	-83.73	85.10	2.00	2.00	0.00	
1,100.00	16.00	259.71	1,089.64	-19.83	-109.19	110.98	2.00	2.00	0.00	
1,167.18	17.34	259.71	1,154.00	-23.27	-128.16	130.25	2.00	2.00	0.00	
GREEN RIVER										
1,200.00	18.00	259.71	1,185.27	-25.05	-137.96	140.21	2.00	2.00	0.00	
1,300.00	20.00	259.71	1,279.82	-30.87	-169.99	172.77	2.00	2.00	0.00	
Start 3632.15 hold at 1300.00 MD										
1,400.00	20.00	259.71	1,373.78	-36.98	-203.64	206.97	0.00	0.00	0.00	
1,500.00	20.00	259.71	1,467.75	-43.09	-237.29	241.17	0.00	0.00	0.00	
1,600.00	20.00	259.71	1,561.72	-49.20	-270.94	275.37	0.00	0.00	0.00	
1,700.00	20.00	259.71	1,655.69	-55.31	-304.60	309.58	0.00	0.00	0.00	
1,800.00	20.00	259.71	1,749.66	-61.42	-338.25	343.78	0.00	0.00	0.00	
1,900.00	20.00	259.71	1,843.63	-67.53	-371.90	377.98	0.00	0.00	0.00	
2,000.00	20.00	259.71	1,937.60	-73.64	-405.55	412.18	0.00	0.00	0.00	
2,100.00	20.00	259.71	2,031.57	-79.75	-439.20	446.38	0.00	0.00	0.00	
2,200.00	20.00	259.71	2,125.54	-85.86	-472.85	480.59	0.00	0.00	0.00	
2,300.00	20.00	259.71	2,219.51	-91.97	-506.51	514.79	0.00	0.00	0.00	
2,307.97	20.00	259.71	2,227.00	-92.46	-509.19	517.51	0.00	0.00	0.00	
8 5/8"										
2,400.00	20.00	259.71	2,313.48	-98.08	-540.16	548.99	0.00	0.00	0.00	
2,500.00	20.00	259.71	2,407.45	-104.19	-573.81	583.19	0.00	0.00	0.00	
2,600.00	20.00	259.71	2,501.42	-110.30	-607.46	617.39	0.00	0.00	0.00	
2,700.00	20.00	259.71	2,595.39	-116.41	-641.11	651.60	0.00	0.00	0.00	
2,800.00	20.00	259.71	2,689.35	-122.52	-674.76	685.80	0.00	0.00	0.00	
2,900.00	20.00	259.71	2,783.32	-128.63	-708.42	720.00	0.00	0.00	0.00	
3,000.00	20.00	259.71	2,877.29	-134.75	-742.07	754.20	0.00	0.00	0.00	
3,100.00	20.00	259.71	2,971.26	-140.86	-775.72	788.40	0.00	0.00	0.00	
3,200.00	20.00	259.71	3,065.23	-146.97	-809.37	822.61	0.00	0.00	0.00	
3,300.00	20.00	259.71	3,159.20	-153.08	-843.02	856.81	0.00	0.00	0.00	
3,400.00	20.00	259.71	3,253.17	-159.19	-876.67	891.01	0.00	0.00	0.00	
3,500.00	20.00	259.71	3,347.14	-165.30	-910.33	925.21	0.00	0.00	0.00	
3,600.00	20.00	259.71	3,441.11	-171.41	-943.98	959.41	0.00	0.00	0.00	
3,700.00	20.00	259.71	3,535.08	-177.52	-977.63	993.62	0.00	0.00	0.00	
3,800.00	20.00	259.71	3,629.05	-183.63	-1,011.28	1,027.82	0.00	0.00	0.00	
3,900.00	20.00	259.71	3,723.02	-189.74	-1,044.93	1,062.02	0.00	0.00	0.00	
4,000.00	20.00	259.71	3,816.99	-195.85	-1,078.59	1,096.22	0.00	0.00	0.00	
4,100.00	20.00	259.71	3,910.95	-201.96	-1,112.24	1,130.42	0.00	0.00	0.00	
4,200.00	20.00	259.71	4,004.92	-208.07	-1,145.89	1,164.63	0.00	0.00	0.00	
4,300.00	20.00	259.71	4,098.89	-214.18	-1,179.54	1,198.83	0.00	0.00	0.00	
4,400.00	20.00	259.71	4,192.86	-220.29	-1,213.19	1,233.03	0.00	0.00	0.00	
4,434.20	20.00	259.71	4,225.00	-222.38	-1,224.70	1,244.73	0.00	0.00	0.00	



Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 922-36M1CS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 4991' & KB 4' @ 4995.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 4991' & KB 4' @ 4995.00ft (ASSUMED)
Site:	NBU 922-36N PAD	North Reference:	True
Well:	NBU 922-36M1CS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1 2-10-11 RHS		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
WASATCH										
4,500.00	20.00	259.71	4,286.83	-226.40	-1,246.84	1,267.23	0.00	0.00	0.00	
4,600.00	20.00	259.71	4,380.80	-232.51	-1,280.50	1,301.43	0.00	0.00	0.00	
4,700.00	20.00	259.71	4,474.77	-238.62	-1,314.15	1,335.64	0.00	0.00	0.00	
4,800.00	20.00	259.71	4,568.74	-244.73	-1,347.80	1,369.84	0.00	0.00	0.00	
4,900.00	20.00	259.71	4,662.71	-250.84	-1,381.45	1,404.04	0.00	0.00	0.00	
4,932.15	20.00	259.71	4,692.92	-252.81	-1,392.27	1,415.04	0.00	0.00	0.00	
Start Drop -2.00										
5,000.00	18.64	259.71	4,756.95	-256.82	-1,414.36	1,437.49	2.00	-2.00	0.00	
5,100.00	16.64	259.71	4,852.24	-262.23	-1,444.18	1,467.79	2.00	-2.00	0.00	
5,200.00	14.64	259.71	4,948.53	-267.05	-1,470.71	1,494.75	2.00	-2.00	0.00	
5,300.00	12.64	259.71	5,045.70	-271.27	-1,493.91	1,518.34	2.00	-2.00	0.00	
5,400.00	10.64	259.71	5,143.64	-274.87	-1,513.77	1,538.52	2.00	-2.00	0.00	
5,500.00	8.64	259.71	5,242.22	-277.86	-1,530.25	1,555.27	2.00	-2.00	0.00	
5,600.00	6.64	259.71	5,341.33	-280.24	-1,543.33	1,568.57	2.00	-2.00	0.00	
5,700.00	4.64	259.71	5,440.84	-282.00	-1,553.01	1,578.40	2.00	-2.00	0.00	
5,800.00	2.64	259.71	5,540.63	-283.13	-1,559.26	1,584.76	2.00	-2.00	0.00	
5,900.00	0.64	259.71	5,640.59	-283.64	-1,562.08	1,587.62	2.00	-2.00	0.00	
5,932.15	0.00	0.00	5,672.73	-283.68	-1,562.26	1,587.80	2.00	-2.00	0.00	
Start 2981.27 hold at 5932.15 MD										
6,000.00	0.00	0.00	5,740.59	-283.68	-1,562.26	1,587.80	0.00	0.00	0.00	
6,100.00	0.00	0.00	5,840.59	-283.68	-1,562.26	1,587.80	0.00	0.00	0.00	
6,200.00	0.00	0.00	5,940.59	-283.68	-1,562.26	1,587.80	0.00	0.00	0.00	
6,300.00	0.00	0.00	6,040.59	-283.68	-1,562.26	1,587.80	0.00	0.00	0.00	
6,400.00	0.00	0.00	6,140.59	-283.68	-1,562.26	1,587.80	0.00	0.00	0.00	
6,500.00	0.00	0.00	6,240.59	-283.68	-1,562.26	1,587.80	0.00	0.00	0.00	
6,600.00	0.00	0.00	6,340.59	-283.68	-1,562.26	1,587.80	0.00	0.00	0.00	
6,657.41	0.00	0.00	6,398.00	-283.68	-1,562.26	1,587.80	0.00	0.00	0.00	
MESAVERDE										
6,700.00	0.00	0.00	6,440.59	-283.68	-1,562.26	1,587.80	0.00	0.00	0.00	
6,800.00	0.00	0.00	6,540.59	-283.68	-1,562.26	1,587.80	0.00	0.00	0.00	
6,900.00	0.00	0.00	6,640.59	-283.68	-1,562.26	1,587.80	0.00	0.00	0.00	
7,000.00	0.00	0.00	6,740.59	-283.68	-1,562.26	1,587.80	0.00	0.00	0.00	
7,100.00	0.00	0.00	6,840.59	-283.68	-1,562.26	1,587.80	0.00	0.00	0.00	
7,200.00	0.00	0.00	6,940.59	-283.68	-1,562.26	1,587.80	0.00	0.00	0.00	
7,300.00	0.00	0.00	7,040.59	-283.68	-1,562.26	1,587.80	0.00	0.00	0.00	
7,400.00	0.00	0.00	7,140.59	-283.68	-1,562.26	1,587.80	0.00	0.00	0.00	
7,500.00	0.00	0.00	7,240.59	-283.68	-1,562.26	1,587.80	0.00	0.00	0.00	
7,600.00	0.00	0.00	7,340.59	-283.68	-1,562.26	1,587.80	0.00	0.00	0.00	
7,700.00	0.00	0.00	7,440.59	-283.68	-1,562.26	1,587.80	0.00	0.00	0.00	
7,800.00	0.00	0.00	7,540.59	-283.68	-1,562.26	1,587.80	0.00	0.00	0.00	
7,900.00	0.00	0.00	7,640.59	-283.68	-1,562.26	1,587.80	0.00	0.00	0.00	
8,000.00	0.00	0.00	7,740.59	-283.68	-1,562.26	1,587.80	0.00	0.00	0.00	
8,100.00	0.00	0.00	7,840.59	-283.68	-1,562.26	1,587.80	0.00	0.00	0.00	
8,200.00	0.00	0.00	7,940.59	-283.68	-1,562.26	1,587.80	0.00	0.00	0.00	
8,300.00	0.00	0.00	8,040.59	-283.68	-1,562.26	1,587.80	0.00	0.00	0.00	
8,400.00	0.00	0.00	8,140.59	-283.68	-1,562.26	1,587.80	0.00	0.00	0.00	
8,500.00	0.00	0.00	8,240.59	-283.68	-1,562.26	1,587.80	0.00	0.00	0.00	
8,600.00	0.00	0.00	8,340.59	-283.68	-1,562.26	1,587.80	0.00	0.00	0.00	
8,700.00	0.00	0.00	8,440.59	-283.68	-1,562.26	1,587.80	0.00	0.00	0.00	
8,800.00	0.00	0.00	8,540.59	-283.68	-1,562.26	1,587.80	0.00	0.00	0.00	



Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 922-36M1CS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 4991' & KB 4' @ 4995.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 4991' & KB 4' @ 4995.00ft (ASSUMED)
Site:	NBU 922-36N PAD	North Reference:	True
Well:	NBU 922-36M1CS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1 2-10-11 RHS		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
8,900.00	0.00	0.00	8,640.59	-283.68	-1,562.26	1,587.80	0.00	0.00	0.00	
8,913.41	0.00	0.00	8,654.00	-283.68	-1,562.26	1,587.80	0.00	0.00	0.00	
TD at 8913.41 - PBHL_NBU 922-36M1CS										

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PBHL_NBU 922-36M1C - hit/miss target - Shape	0.00	0.00	8,654.00	-283.68	-1,562.26	14,525,527.54	2,090,247.69	39° 59' 14.834 N	109° 23' 38.854 W
- plan hits target center - Circle (radius 25.00)									

Casing Points						
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)		
2,307.97	2,227.00	8 5/8"	8.625	11.000		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,167.18	1,154.00	GREEN RIVER				
4,434.20	4,225.00	WASATCH				
6,657.41	6,398.00	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	
1,300.00	1,279.82	-30.87	-169.99	Start 3632.15 hold at 1300.00 MD	
4,932.15	4,692.92	-252.81	-1,392.27	Start Drop -2.00	
5,932.15	5,672.73	-283.68	-1,562.26	Start 2981.27 hold at 5932.15 MD	
8,913.41	8,654.00	-283.68	-1,562.26	TD at 8913.41	



Kerr McGee Oil and Gas Onshore LP

**Uintah County, UT UTM12
NBU 922-36N PAD
NBU 922-36M1CS**

OH

Plan: PLAN #1 2-10-11 RHS

Standard Planning Report - Geographic

10 February, 2011





SDI
Planning Report - Geographic



Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 922-36M1CS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 4991' & KB 4' @ 4995.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 4991' & KB 4' @ 4995.00ft (ASSUMED)
Site:	NBU 922-36N PAD	North Reference:	True
Well:	NBU 922-36M1CS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1 2-10-11 RHS		

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 922-36N PAD, SECTION 36 T9S R22E				
Site Position:		Northing:	14,525,849.61 usft	Latitude:	39° 59' 17.740 N
From:	Lat/Long	Easting:	2,091,804.66 usft	Longitude:	109° 23' 18.776 W
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence:	1.04 °

Well	NBU 922-36M1CS, 1078 FSL 2379 FWL					
Well Position	+N/-S	0.00 ft	Northing:	14,525,839.41 usft	Latitude:	39° 59' 17.639 N
	+E/-W	0.00 ft	Easting:	2,091,804.56 usft	Longitude:	109° 23' 18.780 W
Position Uncertainty		0.00 ft	Wellhead Elevation:		Ground Level:	4,991.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	02/10/2011	11.07	65.89	52,372

Design	PLAN #1 2-10-11 RHS			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	259.71

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,300.00	20.00	259.71	1,279.82	-30.87	-169.99	2.00	2.00	0.00	259.71	
4,932.15	20.00	259.71	4,692.92	-252.81	-1,392.27	0.00	0.00	0.00	0.00	
5,932.15	0.00	0.00	5,672.73	-283.68	-1,562.26	2.00	-2.00	0.00	180.00	
8,913.41	0.00	0.00	8,654.00	-283.68	-1,562.26	0.00	0.00	0.00	0.00	PBHL_NBU 922-36M



SDI
Planning Report - Geographic



Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 922-36M1CS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 4991' & KB 4' @ 4995.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 4991' & KB 4' @ 4995.00ft (ASSUMED)
Site:	NBU 922-36N PAD	North Reference:	True
Well:	NBU 922-36M1CS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1 2-10-11 RHS		

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	14,525,839.41	2,091,804.56	39° 59' 17.639 N	109° 23' 18.780 W	
100.00	0.00	0.00	100.00	0.00	0.00	14,525,839.41	2,091,804.56	39° 59' 17.639 N	109° 23' 18.780 W	
200.00	0.00	0.00	200.00	0.00	0.00	14,525,839.41	2,091,804.56	39° 59' 17.639 N	109° 23' 18.780 W	
300.00	0.00	0.00	300.00	0.00	0.00	14,525,839.41	2,091,804.56	39° 59' 17.639 N	109° 23' 18.780 W	
Start Build 2.00										
400.00	2.00	259.71	399.98	-0.31	-1.72	14,525,839.07	2,091,802.85	39° 59' 17.636 N	109° 23' 18.802 W	
500.00	4.00	259.71	499.84	-1.25	-6.87	14,525,838.04	2,091,797.72	39° 59' 17.626 N	109° 23' 18.868 W	
600.00	6.00	259.71	599.45	-2.80	-15.44	14,525,836.33	2,091,789.17	39° 59' 17.611 N	109° 23' 18.978 W	
700.00	8.00	259.71	698.70	-4.98	-27.43	14,525,833.94	2,091,777.22	39° 59' 17.590 N	109° 23' 19.132 W	
800.00	10.00	259.71	797.47	-7.78	-42.82	14,525,830.86	2,091,761.89	39° 59' 17.562 N	109° 23' 19.330 W	
900.00	12.00	259.71	895.62	-11.18	-61.60	14,525,827.11	2,091,743.18	39° 59' 17.528 N	109° 23' 19.571 W	
1,000.00	14.00	259.71	993.06	-15.20	-83.73	14,525,822.70	2,091,721.12	39° 59' 17.489 N	109° 23' 19.856 W	
1,100.00	16.00	259.71	1,089.64	-19.83	-109.19	14,525,817.61	2,091,695.75	39° 59' 17.443 N	109° 23' 20.183 W	
1,167.18	17.34	259.71	1,154.00	-23.27	-128.16	14,525,813.83	2,091,676.85	39° 59' 17.409 N	109° 23' 20.427 W	
GREEN RIVER										
1,200.00	18.00	259.71	1,185.27	-25.05	-137.96	14,525,811.87	2,091,667.08	39° 59' 17.391 N	109° 23' 20.553 W	
1,300.00	20.00	259.71	1,279.82	-30.87	-169.99	14,525,805.48	2,091,635.16	39° 59' 17.334 N	109° 23' 20.964 W	
Start 3632.15 hold at 1300.00 MD										
1,400.00	20.00	259.71	1,373.78	-36.98	-203.64	14,525,798.76	2,091,601.62	39° 59' 17.273 N	109° 23' 21.397 W	
1,500.00	20.00	259.71	1,467.75	-43.09	-237.29	14,525,792.04	2,091,568.09	39° 59' 17.213 N	109° 23' 21.829 W	
1,600.00	20.00	259.71	1,561.72	-49.20	-270.94	14,525,785.32	2,091,534.55	39° 59' 17.152 N	109° 23' 22.261 W	
1,700.00	20.00	259.71	1,655.69	-55.31	-304.60	14,525,778.61	2,091,501.02	39° 59' 17.092 N	109° 23' 22.694 W	
1,800.00	20.00	259.71	1,749.66	-61.42	-338.25	14,525,771.89	2,091,467.48	39° 59' 17.032 N	109° 23' 23.126 W	
1,900.00	20.00	259.71	1,843.63	-67.53	-371.90	14,525,765.17	2,091,433.94	39° 59' 16.971 N	109° 23' 23.559 W	
2,000.00	20.00	259.71	1,937.60	-73.64	-405.55	14,525,758.45	2,091,400.41	39° 59' 16.911 N	109° 23' 23.991 W	
2,100.00	20.00	259.71	2,031.57	-79.75	-439.20	14,525,751.73	2,091,366.87	39° 59' 16.850 N	109° 23' 24.423 W	
2,200.00	20.00	259.71	2,125.54	-85.86	-472.85	14,525,745.02	2,091,333.34	39° 59' 16.790 N	109° 23' 24.856 W	
2,300.00	20.00	259.71	2,219.51	-91.97	-506.51	14,525,738.30	2,091,299.80	39° 59' 16.730 N	109° 23' 25.288 W	
2,307.97	20.00	259.71	2,227.00	-92.46	-509.19	14,525,737.76	2,091,297.13	39° 59' 16.725 N	109° 23' 25.323 W	
8 5/8"										
2,400.00	20.00	259.71	2,313.48	-98.08	-540.16	14,525,731.58	2,091,266.27	39° 59' 16.669 N	109° 23' 25.721 W	
2,500.00	20.00	259.71	2,407.45	-104.19	-573.81	14,525,724.86	2,091,232.73	39° 59' 16.609 N	109° 23' 26.153 W	
2,600.00	20.00	259.71	2,501.42	-110.30	-607.46	14,525,718.15	2,091,199.19	39° 59' 16.548 N	109° 23' 26.585 W	
2,700.00	20.00	259.71	2,595.39	-116.41	-641.11	14,525,711.43	2,091,165.66	39° 59' 16.488 N	109° 23' 27.018 W	
2,800.00	20.00	259.71	2,689.35	-122.52	-674.76	14,525,704.71	2,091,132.12	39° 59' 16.428 N	109° 23' 27.450 W	
2,900.00	20.00	259.71	2,783.32	-128.63	-708.42	14,525,697.99	2,091,098.59	39° 59' 16.367 N	109° 23' 27.883 W	
3,000.00	20.00	259.71	2,877.29	-134.75	-742.07	14,525,691.27	2,091,065.05	39° 59' 16.307 N	109° 23' 28.315 W	
3,100.00	20.00	259.71	2,971.26	-140.86	-775.72	14,525,684.56	2,091,031.52	39° 59' 16.246 N	109° 23' 28.747 W	
3,200.00	20.00	259.71	3,065.23	-146.97	-809.37	14,525,677.84	2,090,997.98	39° 59' 16.186 N	109° 23' 29.180 W	
3,300.00	20.00	259.71	3,159.20	-153.08	-843.02	14,525,671.12	2,090,964.44	39° 59' 16.126 N	109° 23' 29.612 W	
3,400.00	20.00	259.71	3,253.17	-159.19	-876.67	14,525,664.40	2,090,930.91	39° 59' 16.065 N	109° 23' 30.045 W	
3,500.00	20.00	259.71	3,347.14	-165.30	-910.33	14,525,657.68	2,090,897.37	39° 59' 16.005 N	109° 23' 30.477 W	
3,600.00	20.00	259.71	3,441.11	-171.41	-943.98	14,525,650.97	2,090,863.84	39° 59' 15.944 N	109° 23' 30.909 W	
3,700.00	20.00	259.71	3,535.08	-177.52	-977.63	14,525,644.25	2,090,830.30	39° 59' 15.884 N	109° 23' 31.342 W	
3,800.00	20.00	259.71	3,629.05	-183.63	-1,011.28	14,525,637.53	2,090,796.77	39° 59' 15.824 N	109° 23' 31.774 W	
3,900.00	20.00	259.71	3,723.02	-189.74	-1,044.93	14,525,630.81	2,090,763.23	39° 59' 15.763 N	109° 23' 32.207 W	
4,000.00	20.00	259.71	3,816.99	-195.85	-1,078.59	14,525,624.10	2,090,729.69	39° 59' 15.703 N	109° 23' 32.639 W	
4,100.00	20.00	259.71	3,910.95	-201.96	-1,112.24	14,525,617.38	2,090,696.16	39° 59' 15.642 N	109° 23' 33.071 W	
4,200.00	20.00	259.71	4,004.92	-208.07	-1,145.89	14,525,610.66	2,090,662.62	39° 59' 15.582 N	109° 23' 33.504 W	
4,300.00	20.00	259.71	4,098.89	-214.18	-1,179.54	14,525,603.94	2,090,629.09	39° 59' 15.522 N	109° 23' 33.936 W	
4,400.00	20.00	259.71	4,192.86	-220.29	-1,213.19	14,525,597.22	2,090,595.55	39° 59' 15.461 N	109° 23' 34.368 W	



Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 922-36M1CS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 4991' & KB 4' @ 4995.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 4991' & KB 4' @ 4995.00ft (ASSUMED)
Site:	NBU 922-36N PAD	North Reference:	True
Well:	NBU 922-36M1CS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1 2-10-11 RHS		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
4,434.20	20.00	259.71	4,225.00	-222.38	-1,224.70	14,525,594.93	2,090,584.08	39° 59' 15.440 N	109° 23' 34.516 W	
WASATCH										
4,500.00	20.00	259.71	4,286.83	-226.40	-1,246.84	14,525,590.51	2,090,562.02	39° 59' 15.401 N	109° 23' 34.801 W	
4,600.00	20.00	259.71	4,380.80	-232.51	-1,280.50	14,525,583.79	2,090,528.48	39° 59' 15.340 N	109° 23' 35.233 W	
4,700.00	20.00	259.71	4,474.77	-238.62	-1,314.15	14,525,577.07	2,090,494.94	39° 59' 15.280 N	109° 23' 35.666 W	
4,800.00	20.00	259.71	4,568.74	-244.73	-1,347.80	14,525,570.35	2,090,461.41	39° 59' 15.219 N	109° 23' 36.098 W	
4,900.00	20.00	259.71	4,662.71	-250.84	-1,381.45	14,525,563.64	2,090,427.87	39° 59' 15.159 N	109° 23' 36.530 W	
4,932.15	20.00	259.71	4,692.92	-252.81	-1,392.27	14,525,561.48	2,090,417.09	39° 59' 15.140 N	109° 23' 36.669 W	
Start Drop -2.00										
5,000.00	18.64	259.71	4,756.95	-256.82	-1,414.36	14,525,557.07	2,090,395.08	39° 59' 15.100 N	109° 23' 36.953 W	
5,100.00	16.64	259.71	4,852.24	-262.23	-1,444.18	14,525,551.11	2,090,365.36	39° 59' 15.046 N	109° 23' 37.336 W	
5,200.00	14.64	259.71	4,948.53	-267.05	-1,470.71	14,525,545.82	2,090,338.93	39° 59' 14.999 N	109° 23' 37.677 W	
5,300.00	12.64	259.71	5,045.70	-271.27	-1,493.91	14,525,541.19	2,090,315.80	39° 59' 14.957 N	109° 23' 37.975 W	
5,400.00	10.64	259.71	5,143.64	-274.87	-1,513.77	14,525,537.22	2,090,296.01	39° 59' 14.921 N	109° 23' 38.231 W	
5,500.00	8.64	259.71	5,242.22	-277.86	-1,530.25	14,525,533.93	2,090,279.59	39° 59' 14.892 N	109° 23' 38.442 W	
5,600.00	6.64	259.71	5,341.33	-280.24	-1,543.33	14,525,531.32	2,090,266.55	39° 59' 14.868 N	109° 23' 38.610 W	
5,700.00	4.64	259.71	5,440.84	-282.00	-1,553.01	14,525,529.39	2,090,256.91	39° 59' 14.851 N	109° 23' 38.735 W	
5,800.00	2.64	259.71	5,540.63	-283.13	-1,559.26	14,525,528.14	2,090,250.68	39° 59' 14.840 N	109° 23' 38.815 W	
5,900.00	0.64	259.71	5,640.59	-283.64	-1,562.08	14,525,527.58	2,090,247.87	39° 59' 14.835 N	109° 23' 38.851 W	
5,932.15	0.00	0.00	5,672.73	-283.68	-1,562.26	14,525,527.54	2,090,247.69	39° 59' 14.834 N	109° 23' 38.854 W	
Start 2981.27 hold at 5932.15 MD										
6,000.00	0.00	0.00	5,740.59	-283.68	-1,562.26	14,525,527.54	2,090,247.69	39° 59' 14.834 N	109° 23' 38.854 W	
6,100.00	0.00	0.00	5,840.59	-283.68	-1,562.26	14,525,527.54	2,090,247.69	39° 59' 14.834 N	109° 23' 38.854 W	
6,200.00	0.00	0.00	5,940.59	-283.68	-1,562.26	14,525,527.54	2,090,247.69	39° 59' 14.834 N	109° 23' 38.854 W	
6,300.00	0.00	0.00	6,040.59	-283.68	-1,562.26	14,525,527.54	2,090,247.69	39° 59' 14.834 N	109° 23' 38.854 W	
6,400.00	0.00	0.00	6,140.59	-283.68	-1,562.26	14,525,527.54	2,090,247.69	39° 59' 14.834 N	109° 23' 38.854 W	
6,500.00	0.00	0.00	6,240.59	-283.68	-1,562.26	14,525,527.54	2,090,247.69	39° 59' 14.834 N	109° 23' 38.854 W	
6,600.00	0.00	0.00	6,340.59	-283.68	-1,562.26	14,525,527.54	2,090,247.69	39° 59' 14.834 N	109° 23' 38.854 W	
6,657.41	0.00	0.00	6,398.00	-283.68	-1,562.26	14,525,527.54	2,090,247.69	39° 59' 14.834 N	109° 23' 38.854 W	
MESAVERDE										
6,700.00	0.00	0.00	6,440.59	-283.68	-1,562.26	14,525,527.54	2,090,247.69	39° 59' 14.834 N	109° 23' 38.854 W	
6,800.00	0.00	0.00	6,540.59	-283.68	-1,562.26	14,525,527.54	2,090,247.69	39° 59' 14.834 N	109° 23' 38.854 W	
6,900.00	0.00	0.00	6,640.59	-283.68	-1,562.26	14,525,527.54	2,090,247.69	39° 59' 14.834 N	109° 23' 38.854 W	
7,000.00	0.00	0.00	6,740.59	-283.68	-1,562.26	14,525,527.54	2,090,247.69	39° 59' 14.834 N	109° 23' 38.854 W	
7,100.00	0.00	0.00	6,840.59	-283.68	-1,562.26	14,525,527.54	2,090,247.69	39° 59' 14.834 N	109° 23' 38.854 W	
7,200.00	0.00	0.00	6,940.59	-283.68	-1,562.26	14,525,527.54	2,090,247.69	39° 59' 14.834 N	109° 23' 38.854 W	
7,300.00	0.00	0.00	7,040.59	-283.68	-1,562.26	14,525,527.54	2,090,247.69	39° 59' 14.834 N	109° 23' 38.854 W	
7,400.00	0.00	0.00	7,140.59	-283.68	-1,562.26	14,525,527.54	2,090,247.69	39° 59' 14.834 N	109° 23' 38.854 W	
7,500.00	0.00	0.00	7,240.59	-283.68	-1,562.26	14,525,527.54	2,090,247.69	39° 59' 14.834 N	109° 23' 38.854 W	
7,600.00	0.00	0.00	7,340.59	-283.68	-1,562.26	14,525,527.54	2,090,247.69	39° 59' 14.834 N	109° 23' 38.854 W	
7,700.00	0.00	0.00	7,440.59	-283.68	-1,562.26	14,525,527.54	2,090,247.69	39° 59' 14.834 N	109° 23' 38.854 W	
7,800.00	0.00	0.00	7,540.59	-283.68	-1,562.26	14,525,527.54	2,090,247.69	39° 59' 14.834 N	109° 23' 38.854 W	
7,900.00	0.00	0.00	7,640.59	-283.68	-1,562.26	14,525,527.54	2,090,247.69	39° 59' 14.834 N	109° 23' 38.854 W	
8,000.00	0.00	0.00	7,740.59	-283.68	-1,562.26	14,525,527.54	2,090,247.69	39° 59' 14.834 N	109° 23' 38.854 W	
8,100.00	0.00	0.00	7,840.59	-283.68	-1,562.26	14,525,527.54	2,090,247.69	39° 59' 14.834 N	109° 23' 38.854 W	
8,200.00	0.00	0.00	7,940.59	-283.68	-1,562.26	14,525,527.54	2,090,247.69	39° 59' 14.834 N	109° 23' 38.854 W	
8,300.00	0.00	0.00	8,040.59	-283.68	-1,562.26	14,525,527.54	2,090,247.69	39° 59' 14.834 N	109° 23' 38.854 W	
8,400.00	0.00	0.00	8,140.59	-283.68	-1,562.26	14,525,527.54	2,090,247.69	39° 59' 14.834 N	109° 23' 38.854 W	
8,500.00	0.00	0.00	8,240.59	-283.68	-1,562.26	14,525,527.54	2,090,247.69	39° 59' 14.834 N	109° 23' 38.854 W	
8,600.00	0.00	0.00	8,340.59	-283.68	-1,562.26	14,525,527.54	2,090,247.69	39° 59' 14.834 N	109° 23' 38.854 W	
8,700.00	0.00	0.00	8,440.59	-283.68	-1,562.26	14,525,527.54	2,090,247.69	39° 59' 14.834 N	109° 23' 38.854 W	
8,800.00	0.00	0.00	8,540.59	-283.68	-1,562.26	14,525,527.54	2,090,247.69	39° 59' 14.834 N	109° 23' 38.854 W	



Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 922-36M1CS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 4991' & KB 4' @ 4995.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 4991' & KB 4' @ 4995.00ft (ASSUMED)
Site:	NBU 922-36N PAD	North Reference:	True
Well:	NBU 922-36M1CS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1 2-10-11 RHS		

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	8,640.59	-283.68	-1,562.26	14,525,527.54	2,090,247.69	39° 59' 14.834 N	109° 23' 38.854 W
8,913.41	0.00	0.00	8,654.00	-283.68	-1,562.26	14,525,527.54	2,090,247.69	39° 59' 14.834 N	109° 23' 38.854 W
TD at 8913.41 - PBHL_NBU 922-36M1CS									

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PBHL_NBU 922-36M1C - plan hits target center - Circle (radius 25.00)	0.00	0.00	8,654.00	-283.68	-1,562.26	14,525,527.54	2,090,247.69	39° 59' 14.834 N	109° 23' 38.854 W

Casing Points						
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)		
2,307.97	2,227.00	8 5/8"	8.625	11.000		

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,167.18	1,154.00	GREEN RIVER			
4,434.20	4,225.00	WASATCH			
6,657.41	6,398.00	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	
1,300.00	1,279.82	-30.87	-169.99	Start 3632.15 hold at 1300.00 MD	
4,932.15	4,692.92	-252.81	-1,392.27	Start Drop -2.00	
5,932.15	5,672.73	-283.68	-1,562.26	Start 2981.27 hold at 5932.15 MD	
8,913.41	8,654.00	-283.68	-1,562.26	TD at 8913.41	

NBU 922-36M1CS

Surface: 1078' FSL 2379' FWL (SE/4SW/4)
BHL: 792' FSL 816' FWL (SW/4SW/4)

NBU 922-36M4CS

Surface: 1068' FSL 2379' FWL (SE/4SW/4)
BHL: 132' FSL 819' FWL (SW/4SW/4)

NBU 922-36N1BS

Surface: 1088' FSL 2379' FWL (SE/4SW/4)
BHL: 1253' FSL 2140' FWL (SE/4SW/4)

NBU 922-36N4CS

Surface: 1048' FSL 2379' FWL (SE/4SW/4)
BHL: 190' FSL 2081' FWL (SE/4SW/4)

NBU 922-36O4CS

Surface: 1058' FSL 2379' FWL (SE/4SW/4)
BHL: 85' FSL 1814' FEL (SW/4SE/4)

Pad: NBU 922-36N Pad
Section 36 T9S R22E
Mineral Lease: ML-22650

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. 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:

One new access road is proposed (see Topo Map B). The $\pm 320'$ road re-route will run perpendicularly from the North edge of the pad along the proposed gas and liquid pipelines due to the expansion of the pad. 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.

If there are roads that 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.

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

C. Location of Existing and Proposed Facilities:

This pad will expand the existing pad for the NBU 922-36NT and CIGE 147-36-9-22. The NBU 922-36NT well location is a vertical producing wells according to Utah Division of Oil, Gas and Mining (UDOGM) records as of May 5, 2011. The CIGE 147-36-9-22 well location has been plugged and abandoned.

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

Production facilities will be installed on the disturbed portion of the 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) above ground structures constructed or installed, including pumping units, will be painted a flat, non-reflective, earth-tone color chosen at the onsite in coordination with SITLA.

Production tanks will be constructed, maintained, and operated to prevent unauthorized surface or subsurface discharges of liquids and to prevent livestock or wildlife entry. The tanks are not to be used for disposal of liquids from additional sources without prior approval of UDOGM.

Gathering facilities:

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

The total gas gathering (steel line pipe with fusion bond epoxy coating) pipeline distances from the meter to the tie in point is $\pm 1,140'$ and the individual segments are broken up as follows:

- $\pm 85'$ (0.02 miles) –New 6” buried gas pipeline from the meter to tie-in to the proposed 16” buried gas pipeline at the proposed 36K intersection. Please refer to Topo D2.
- $\pm 1,055'$ (0.2 miles) –New 16” buried gas pipeline from the proposed 36K intersection to the South line of Section 36. Please refer to Topo D.

The total liquid gathering pipeline distance from the separator to the tie in point is $\pm 1,140'$ and the individual segments are broken up as follows:

- $\pm 85'$ (0.02 miles) –New 6” buried liquid pipeline from the separator to tie-in to the proposed 6” buried liquid pipeline at the 36K intersection. Please refer to Topo D2.
- $\pm 1,055'$ (0.2 miles) –New 6” buried liquid pipeline from the proposed 36 K intersection to the South line of Section 36. Please refer to Topo D.

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. KMG 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, KMG 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 and ownership, as well as 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.

NBU 922-36M1CS / 36M4CS/
36N1BS/ 36N4CS/ 36O4CS

Surface Use Plan of Operations
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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

**NBU 922-36M1CS / 36M4CS/
36N1BS/ 36N4CS/ 36O4CS**

**Surface Use Plan of Operations
Page 5**

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

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, including accidental release of fluids, or release in excess of reportable quantities, will be managed according to the notification requirements of UDOGMs "Reporting Oil and Gas Undesirable Events" rule. Where State wells are participatory to a Federal agreement, according to NTL-3A, the appropriate Federal agencies will be notified.

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, 1927 (NAD27) 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 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

NBU 922-36M1CS / 36M4CS/
36N1BS/ 36N4CS/ 36O4CS

Surface Use Plan of Operations
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M. Lessee's or Operators' Representative & Certification:

Gina T. Becker
Regulatory Analyst II
Kerr-McGee Oil & Gas Onshore LP
PO Box 173779
Denver, CO 80217-3779
(720) 929-6086

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.


Gina T. Becker

May 13, 2011
Date



JOE JOHNSON
LANDMAN

KERR-MCGEE ONSHORE OIL & GAS, L.P.
1099 18TH STREET, SUITE 1800
DENVER, CO 80202
720-929-6708 • FAX 720-929-7708
E-MAIL: JOE.JOHNSON@ANADARKO.COM

April 13, 2011

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 922-36M1CS
T9S-R22E
Section 36: SESW/SWSW
Surface: 1078' FSL, 2379' FWL
Bottom Hole: 792' FSL, 816' FWL
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 the Exception to Location and Siting of Wells.

- Kerr-McGee's NBU 922-36M1CS 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.

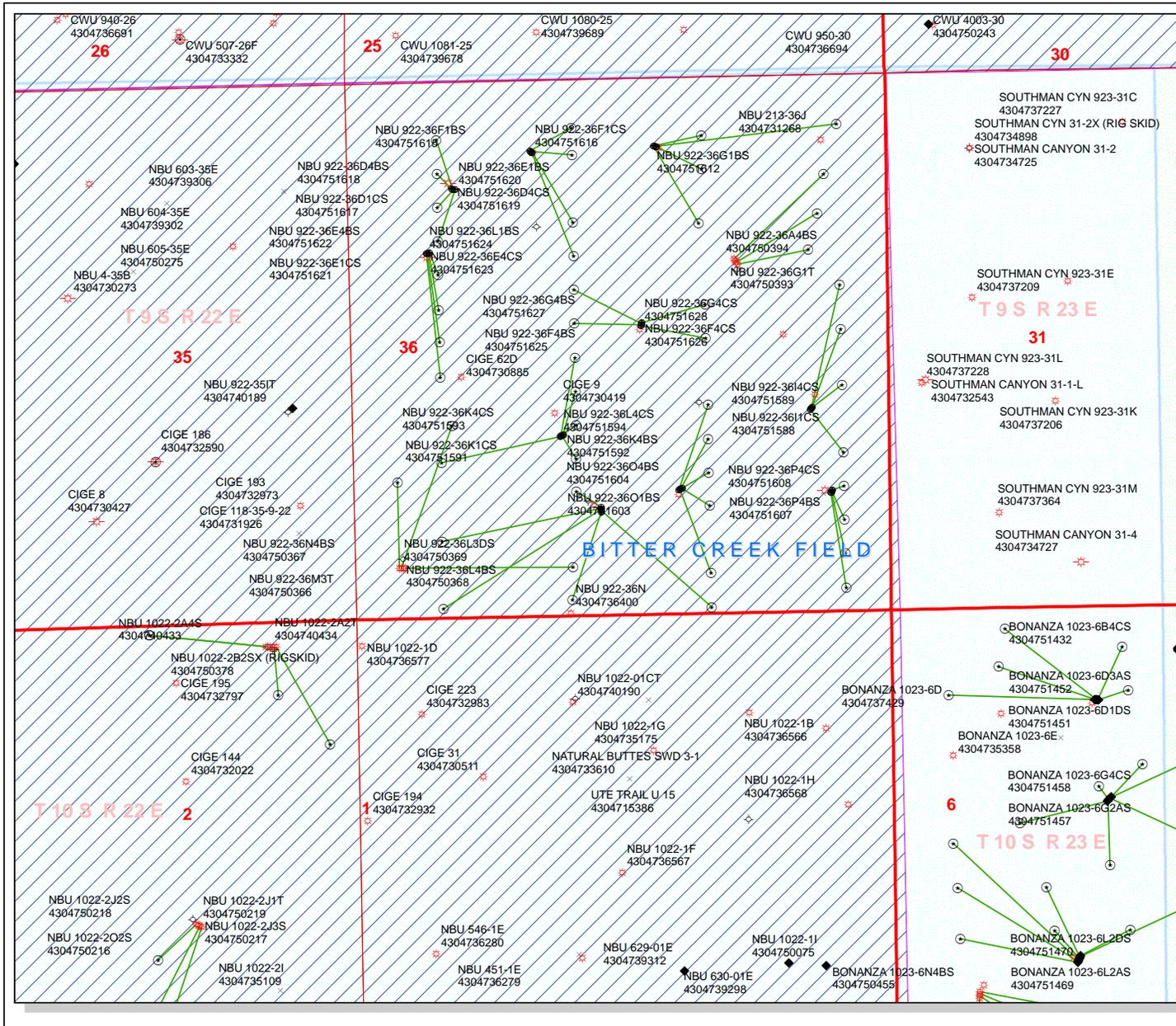
Therefore, based on the above stated information Kerr-McGee Oil & Gas Onshore LP requests the permit be granted pursuant to R649-3-11.

Sincerely,

KERR-MCGEE OIL & GAS ONSHORE LP

A handwritten signature in blue ink, appearing to read 'Joe D. Johnson', with a horizontal line underneath.

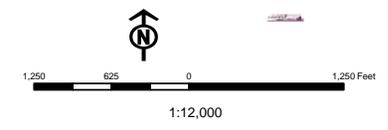
Joseph D. Johnson
Landman



API Number: 4304751595
Well Name: NBU 922-36M1CS
 Township T0.9 . Range R2.2 . Section 36
 Meridian: SLBM
 Operator: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Map Prepared:
 Map Produced by Diana Mason

Units	Wells Query Status
ACTIVE	APD - Approved Permit
EXPLORATORY	DRIL - Spudded (Drilling Commenced)
GAS STORAGE	GIW - Gas Injection
NF PP OIL	GS - Gas Storage
NF SECONDARY	LA - Location Abandoned
PI OIL	LOC - New Location
PP GAS	OPS - Operation Suspended
PP GEOTHERMAL	PA - Plugged Abandoned
PP OIL	PGW - Producing Gas Well
SECONDARY	POW - Producing Oil Well
TERMINATED	RET - Returned APD
Unknown	SGW - Shut-in Gas Well
ABANDONED	SOW - Shut-in Oil Well
ACTIVE	TA - Temp. Abandoned
COMBINED	TW - Test Well
INACTIVE	WDW - Water Disposal
STORAGE	WIW - Water Injection Well
TERMINATED	WSW - Water Supply Well
Sections	
Township	



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)

May 20, 2011

Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2011 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 2011 within the Natural Buttes Unit, Uintah County, Utah.

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

NBU 922-36I PAD

43-047-51586	NBU 922-36H4BS	Sec 36 T09S R22E 2006 FSL 0799 FEL
	BHL	Sec 36 T09S R22E 2071 FNL 0494 FEL

43-047-51587	NBU 922-36H4CS	Sec 36 T09S R22E 2014 FSL 0792 FEL
	BHL	Sec 36 T09S R22E 2508 FNL 0495 FEL

43-047-51588	NBU 922-36I1CS	Sec 36 T09S R22E 2021 FSL 0785 FEL
	BHL	Sec 36 T09S R22E 2237 FSL 0494 FEL

43-047-51589	NBU 922-36I4CS	Sec 36 T09S R22E 1999 FSL 0805 FEL
	BHL	Sec 36 T09S R22E 1574 FSL 0493 FEL

NBU 922-36K PAD

43-047-51590	NBU 922-36K1BS	Sec 36 T09S R22E 1798 FSL 1998 FWL
	BHL	Sec 36 T09S R22E 2567 FSL 2148 FWL

43-047-51591	NBU 922-36K1CS	Sec 36 T09S R22E 1809 FSL 2015 FWL
	BHL	Sec 36 T09S R22E 2236 FSL 2147 FWL

43-047-51592	NBU 922-36K4BS	Sec 36 T09S R22E 1815 FSL 2023 FWL
	BHL	Sec 36 T09S R22E 1904 FSL 2147 FWL

43-047-51593	NBU 922-36K4CS	Sec 36 T09S R22E 1804 FSL 2006 FWL
	BHL	Sec 36 T09S R22E 1573 FSL 2146 FWL

43-047-51594	NBU 922-36L4CS	Sec 36 T09S R22E 1793 FSL 1990 FWL
	BHL	Sec 36 T09S R22E 1565 FSL 0821 FWL

RECEIVED: Jul. 26, 2011

API #	WELL NAME	LOCATION
(Proposed PZ WASATCH-MESA VERDE)		
NBU 922-36N PAD		
43-047-51595	NBU 922-36M1CS	Sec 36 T09S R22E 1078 FSL 2379 FWL BHL Sec 36 T09S R22E 0792 FSL 0816 FWL
43-047-51596	NBU 922-36M4CS	Sec 36 T09S R22E 1068 FSL 2379 FWL BHL Sec 36 T09S R22E 0132 FSL 0819 FWL
43-047-51597	NBU 922-36N1BS	Sec 36 T09S R22E 1088 FSL 2379 FWL BHL Sec 36 T09S R22E 1253 FSL 2140 FWL
43-047-51598	NBU 922-36N4CS	Sec 36 T09S R22E 1048 FSL 2379 FWL BHL Sec 36 T09S R22E 0190 FSL 2081 FWL
43-047-51599	NBU 922-36O4CS	Sec 36 T09S R22E 1058 FSL 2379 FWL BHL Sec 36 T09S R22E 0085 FSL 1814 FEL
NBU 922-36O PAD		
43-047-51600	NBU 922-36J1CS	Sec 36 T09S R22E 1247 FSL 2113 FEL BHL Sec 36 T09S R22E 2071 FSL 1809 FEL
43-047-51601	NBU 922-36J4BS	Sec 36 T09S R22E 1254 FSL 2094 FEL BHL Sec 36 T09S R22E 1740 FSL 1816 FEL
43-047-51602	NBU 922-36J4CS	Sec 36 T09S R22E 1261 FSL 2075 FEL BHL Sec 36 T09S R22E 1409 FSL 1816 FEL
43-047-51603	NBU 922-36O1BS	Sec 36 T09S R22E 1257 FSL 2085 FEL BHL Sec 36 T09S R22E 1078 FSL 1815 FEL
43-047-51604	NBU 922-36O4BS	Sec 36 T09S R22E 1250 FSL 2103 FEL BHL Sec 36 T09S R22E 0415 FSL 1814 FEL
NBU 922-36P PAD		
43-047-51605	NBU 922-36P1BS	Sec 36 T09S R22E 1207 FSL 0606 FEL BHL Sec 36 T09S R22E 1243 FSL 0493 FEL
43-047-51606	NBU 922-36P1CS	Sec 36 T09S R22E 1198 FSL 0611 FEL BHL Sec 36 T09S R22E 0911 FSL 0493 FEL
43-047-51607	NBU 922-36P4BS	Sec 36 T09S R22E 1189 FSL 0616 FEL BHL Sec 36 T09S R22E 0580 FSL 0493 FEL
43-047-51608	NBU 922-36P4CS	Sec 36 T09S R22E 1181 FSL 0621 FEL BHL Sec 36 T09S R22E 0243 FSL 0492 FEL
NBU 922-36B PAD		
43-047-51609	NBU 922-36A1CS	Sec 36 T09S R22E 0678 FNL 2273 FEL BHL Sec 36 T09S R22E 0485 FNL 0494 FEL
43-047-51610	NBU 922-36B1CS	Sec 36 T09S R22E 0674 FNL 2282 FEL BHL Sec 36 T09S R22E 0579 FNL 1821 FEL
43-047-51611	NBU 922-36B4BS	Sec 36 T09S R22E 0682 FNL 2264 FEL BHL Sec 36 T09S R22E 0905 FNL 1828 FEL

API #	WELL NAME	LOCATION
(Proposed PZ WASATCH-MESA VERDE)		
43-047-51612	NBU 922-36G1BS	Sec 36 T09S R22E 0671 FNL 2291 FEL BHL Sec 36 T09S R22E 1439 FNL 1861 FEL
NBU 922-36C PAD		
43-047-51613	NBU 922-36C1CS	Sec 36 T09S R22E 0700 FNL 1741 FWL BHL Sec 36 T09S R22E 0485 FNL 2152 FWL
43-047-51614	NBU 922-36C4BS	Sec 36 T09S R22E 0706 FNL 1749 FWL BHL Sec 36 T09S R22E 0746 FNL 2153 FWL
43-047-51615	NBU 922-36F1BS	Sec 36 T09S R22E 0718 FNL 1765 FWL BHL Sec 36 T09S R22E 1407 FNL 2151 FWL
43-047-51616	NBU 922-36F1CS	Sec 36 T09S R22E 0712 FNL 1757 FWL BHL Sec 36 T09S R22E 1738 FNL 2150 FWL
NBU 922-36D PAD		
43-047-51617	NBU 922-36D1CS	Sec 36 T09S R22E 1062 FNL 0981 FWL BHL Sec 36 T09S R22E 0579 FNL 0825 FWL
43-047-51618	NBU 922-36D4BS	Sec 36 T09S R22E 1060 FNL 0971 FWL BHL Sec 36 T09S R22E 0910 FNL 0825 FWL
43-047-51619	NBU 922-36D4CS	Sec 36 T09S R22E 1064 FNL 0990 FWL BHL Sec 36 T09S R22E 1241 FNL 0825 FWL
43-047-51620	NBU 922-36E1BS	Sec 36 T09S R22E 1067 FNL 1000 FWL BHL Sec 36 T09S R22E 1572 FNL 0825 FWL
NBU 922-36E PAD		
43-047-51621	NBU 922-36E1CS	Sec 36 T09S R22E 1682 FNL 0739 FWL BHL Sec 36 T09S R22E 1903 FNL 0824 FWL
43-047-51622	NBU 922-36E4BS	Sec 36 T09S R22E 1684 FNL 0729 FWL BHL Sec 36 T09S R22E 2245 FNL 0818 FWL
43-047-51623	NBU 922-36E4CS	Sec 36 T09S R22E 1686 FNL 0719 FWL BHL Sec 36 T09S R22E 2565 FNL 0824 FWL
43-047-51624	NBU 922-36L1BS	Sec 36 T09S R22E 1688 FNL 0709 FWL BHL Sec 36 T09S R22E 2401 FSL 0824 FWL
NBU 922-36G3 PAD		
43-047-51625	NBU 922-36F4BS	Sec 36 T09S R22E 2414 FNL 2443 FEL BHL Sec 36 T09S R22E 2070 FNL 2149 FWL
43-047-51626	NBU 922-36F4CS	Sec 36 T09S R22E 2424 FNL 2445 FEL BHL Sec 36 T09S R22E 2401 FNL 2149 FWL
43-047-51627	NBU 922-36G4BS	Sec 36 T09S R22E 2405 FNL 2441 FEL BHL Sec 36 T09S R22E 2235 FNL 1818 FEL
43-047-51628	NBU 922-36G4CS	Sec 36 T09S R22E 2434 FNL 2447 FEL BHL Sec 36 T09S R22E 2566 FNL 1818 FEL

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: 2011.05.23 07:16:05 -06'00'

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

MCoulthard:mc:5-20-11

From: Jim Davis
To: Bonner, Ed; Garrison, LaVonne; Hill, Brad; Mason, Diana
CC: Gina Becker; Lytle, Andy
Date: 6/8/2011 3:00 PM
Subject: Kerr McGee APD approvals.

The following APDs have been approved by SITLA including arch and paleo clearance.

4304751586 NBU 922-36H4BS
4304751587 NBU 922-36H4CS
4304751588 NBU 922-36I1CS
4304751589 NBU 922-36I4CS
4304751590 NBU 922-36K1BS
4304751591 NBU 922-36K1CS
4304751592 NBU 922-36K4BS
4304751593 NBU 922-36K4CS
4304751594 NBU 922-36L4CS
4304751595 NBU 922-36M1CS
4304751596 NBU 922-36M4CS
4304751597 NBU 922-36N1BS
4304751598 NBU 922-36N4CS
4304751599 NBU 922-36O4CS
4304751600 NBU 922-36J1CS
4304751601 NBU 922-36J4BS
4304751602 NBU 922-36J4CS
4304751603 NBU 922-36O1BS
4304751604 NBU 922-36O4BS
4304751605 NBU 922-36P1BS
4304751606 NBU 922-36P1CS
4304751607 NBU 922-36P4BS
4304751608 NBU 922-36P4CS
4304751613 NBU 922-36C1CS
4304751614 NBU 922-36C4BS
4304751615 NBU 922-36F1BS
4304751616 NBU 922-36F1CS
4304751617 NBU 922-36D1CS
4304751618 NBU 922-36D4BS
4304751619 NBU 922-36D4CS
4304751620 NBU 922-36E1BS
4304751621 NBU 922-36E1CS
4304751622 NBU 922-36E4BS
4304751623 NBU 922-36E4CS
4304751624 NBU 922-36L1BS
4304751625 NBU 922-36F4BS
4304751626 NBU 922-36F4CS
4304751627 NBU 922-36G4BS
4304751628 NBU 922-36G4CS

Full paleo monitoring is a required condition for the approval of these APDs- as recommended in the paleo report.

4304751609 NBU 922-36A1CS
4304751610 NBU 922-36B1CS
4304751611 NBU 922-36B4BS
4304751612 NBU 922-36G1BS

Thanks.
-Jim

Jim Davis
Utah Trust Lands Administration
jimdavis1@utah.gov
Phone: (801) 538-5156

Well Name	KERR-MCGEE OIL & GAS ONSHORE, L.P. NBU 922-36M1CS			
String	Surf	Prod		
Casing Size(")	8.625	4.500		
Setting Depth (TVD)	2154	8634		
Previous Shoe Setting Depth (TVD)	40	2154		
Max Mud Weight (ppg)	8.4	12.5		
BOPE Proposed (psi)	500	5000		
Casing Internal Yield (psi)	3390	7780		
Operators Max Anticipated Pressure (psi)	5526	12.3		

Calculations	Surf String	8.625	"
Max BHP (psi)	.052*Setting Depth*MW=	941	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	683	NO <input type="text" value="air drill"/>
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	467	YES <input type="text" value="OK"/>
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	476	NO <input type="text" value="Reasonable"/>
Required Casing/BOPE Test Pressure=		2154	psi
*Max Pressure Allowed @ Previous Casing Shoe=		40	psi *Assumes 1psi/ft frac gradient

Calculations	Prod String	4.500	"
Max BHP (psi)	.052*Setting Depth*MW=	5612	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	4576	YES <input type="text"/>
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	3713	YES <input type="text" value="OK"/>
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	4186	NO <input type="text" value="Reasonable"/>
Required Casing/BOPE Test Pressure=		5000	psi
*Max Pressure Allowed @ Previous Casing Shoe=		2154	psi *Assumes 1psi/ft frac gradient

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

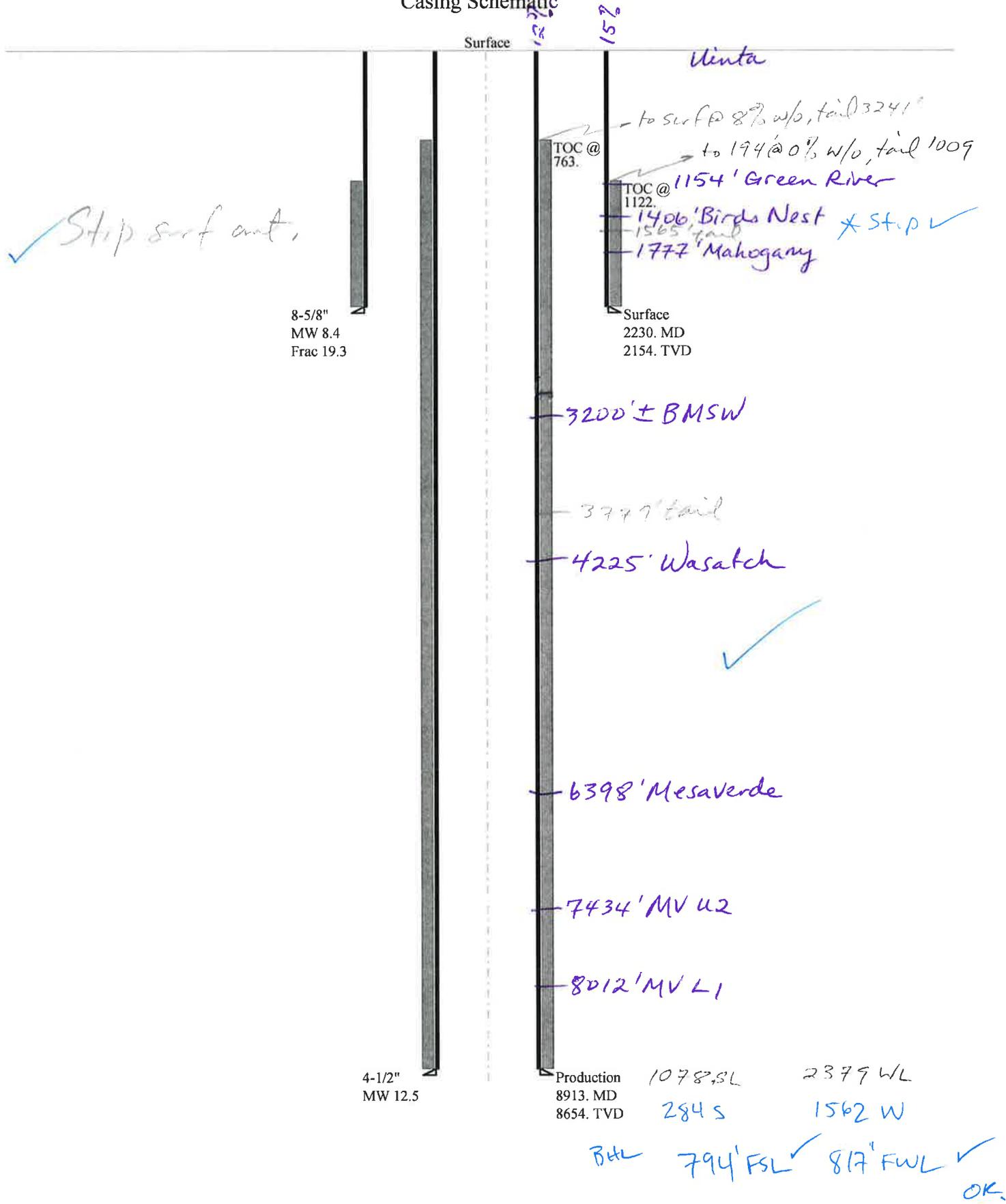
API Well Number: 43047515950000

*Max Pressure Allowed @ Previous Casing Shoe=

psi *Assumes 1psi/ft frac gradient

43047515950000 NBU 922-36M1CS

Casing Schematic



Well name:	43047515950000 NBU 922-36M1CS		
Operator:	KERR-MCGEE OIL & GAS ONSHORE, L.P.		
String type:	Surface	Project ID:	43-047-51595
Location:	UINTAH COUNTY		

Design parameters:

Collapse

Mud weight: 8.400 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: 104 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 100 ft

Cement top: 1,122 ft

Burst

Max anticipated surface pressure: 1,962 psi
Internal gradient: 0.120 psi/ft
Calculated BHP 2,221 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: 1,946 ft

Directional Info - Build & Drop

Kick-off point 300 ft
Departure at shoe: 491 ft
Maximum dogleg: 2 °/100ft
Inclination at shoe: 20 °

Re subsequent strings:

Next setting depth: 8,913 ft
Next mud weight: 12.500 ppg
Next setting BHP: 5,788 psi
Fracture mud wt: 19.250 ppg
Fracture depth: 2,230 ft
Injection pressure: 2,230 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	2230	8.625	28.00	I-55	LT&C	2154	2230	7.892	88308
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	940	1880	2.000	2221	3390	1.53	60.3	348	5.77 J

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

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

Date: July 18, 2011
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 2154 ft, a mud weight of 8.4 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

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

Well name:	43047515950000 NBU 922-36M1CS		
Operator:	KERR-MCGEE OIL & GAS ONSHORE, L.P.		
String type:	Production	Project ID:	43-047-51595
Location:	UINTAH COUNTY		

Design parameters:

Collapse

Mud weight: 12.500 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: 195 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 100 ft

Cement top: 763 ft

Burst

Max anticipated surface pressure: 3,715 psi
Internal gradient: 0.220 psi/ft
Calculated BHP 5,619 psi

No backup mud specified.

Tension:

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

Tension is based on air weight.
Neutral point: 7,296 ft

Directional Info - Build & Drop

Kick-off point 300 ft
Departure at shoe: 1588 ft
Maximum dogleg: 2 °/100ft
Inclination at shoe: 0 °

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	8913	4.5	11.60	I-80	LT&C	8654	8913	3.875	117652
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	5619	6360	1.132	5619	7780	1.38	100.4	212	2.11 J

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

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

Date: July 18, 2011
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 8654 ft, a mud weight of 12.5 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

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

ON-SITE PREDRILL EVALUATION

Utah Division of Oil, Gas and Mining

Operator KERR-MCGEE OIL & GAS ONSHORE, L.P.
Well Name NBU 922-36M1CS
API Number 43047515950000 **APD No** 3812 **Field/Unit** NATURAL BUTTES
Location: 1/4,1/4 **SESW** **Sec** 36 **Tw** 9.0S **Rng** 22.0E 1078 **FSL** 2379 **FWL**
GPS Coord (UTM) 637585 4427492 **Surface Owner**

Participants

Floyd Bartlett (DOGM), Sheila Wopsock, Lovell Young, Gina Becker, Mark Koehn, Griz Oleen (Kerr McGee), Ben Williams (UDWR) and Mitch Batty, John Slaugh (Timberline Engineering and Land Surveying).

Regional/Local Setting & Topography

The general area is in the southeast portion of the Natural Buttes Unit, which contains the White River and rugged drainages that drain into the White River. Topography is varied and frequently dissected by short draws or washes, which become overly steep as they approach the White River breaks or rim. Distance to the White River varies from $\frac{3}{4}$ mile to 2 miles. The side drainages are dry except for ephemeral flows. No seeps or springs exist in the area. An occasional pond has been constructed to supply water for livestock and antelope. Vernal, Utah is approximately 42 air miles to the northwest. Access from Vernal is approximately 45.8 road miles following Utah State, Uintah County and oilfield development roads to the location.

Five additional gas wells will be added to and directionally drilled from the NBU 922-36N pad. They are the NBU 922-36N1BS, NBU 922-36M1CS, NBU 922-36M4CS, NBU 922-36O4CS and NBU 922-36N4CS. The pad contains the existing MBU 922-36NT gas well. The terrain in the immediate area is rough and broken. The existing pad will be reoriented to a north to south direction and significantly enlarged. A deep gully occurs between Location Corners 1 and 10. It will be completely filled. The gentle head of this drainage will be diverted and rerouted along the south side of the pad from Corners 8 to 10. A ridge is located to the east and a draw and gully to the north of the site. A cut of 8.4 feet occurs at Corner 5. Maximum fill is 7.7 feet at Location Corner 10. Where the pad is cut into steep side slope behind the pit, the cut slope may be left at about $\frac{1}{4}$:1 to reduce the amount of cutting and disturbance. Reserve pit corner A is in 3.4 feet of fill. With the proposed 15 foot outer bench, 2 feet of freeboard, a 30-mil liner and the spoils placed along this side, it should be stable. The existing pad shows no stability problems. Although significant excavation is required for enlarging the pad, no stability concerns exist. The selected site is the only suitable location in the immediate area.

Both the surface and minerals are owned by SITLA.

Surface Use Plan

Current Surface Use

Grazing
Wildlife Habitat
Existing Well Pad

New Road Miles	Well Pad	Src Const Material	Surface Formation
0	Width 352 Length 455	Onsite	UNTA

Ancillary Facilities N

Waste Management Plan Adequate?

Environmental Parameters

Affected Floodplains and/or Wetlands N

Flora / Fauna

Area beyond the existing pad is poorly vegetated with blue bunch wheatgrass, Indian ricegrass, greasewood, cheatgrass, black sagebrush, broom snakeweed, globemallow, Sitanion hystrix, shadscale, rabbitbrush, loco weed, pepper weed, halogeton and annuals.

Sheep, deer, antelope, coyote, and other small mammals and birds.

Soil Type and Characteristics

Soils are shallow and rocky.

Erosion Issues Y

Sedimentation Issues Y

Site Stability Issues N

Drainage Diversion Required? Y

A deep gully occurs between Location Corners 1 and 10. It will be completely filled. The gentle head of this drainage will be diverted and rerouted along the south side of the pad from Corners 8 to 10.

Berm Required? N

Erosion Sedimentation Control Required? Y

A deep gully occurs between Location Corners 1 and 10. It will be completely filled. The gentle head of this drainage will be diverted and rerouted along the south side of the pad from Corners 8 to 10.

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

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 reserve pit is planned mostly in an area of cut in the northwest side of the location. Dimensions are 100' x 260' x 12' deep with 2' of freeboard. Corner A is within 3.4 feet of fill. With the proposed 15 foot outer bench, 2 feet of freeboard, a 30-mil liner and the spoils placed along this side, it should be stable.

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

Other Observations / Comments

Floyd Bartlett
Evaluator

5/24/2011
Date / Time

Application for Permit to Drill Statement of Basis

7/26/2011

Utah Division of Oil, Gas and Mining

Page 1

APD No	API WellNo	Status	Well Type	Surf Owner	CBM
3812	43047515950000	SITLA	GW	S	No
Operator	KERR-MCGEE OIL & GAS ONSHORE, L.P.		Surface Owner-APD		
Well Name	NBU 922-36M1CS	Unit		NATURAL BUTTES	
Field	NATURAL BUTTES	Type of Work		DRILL	
Location	SESW 36 9S 22E S 1078 FSL 2379 FWL GPS Coord (UTM)			637581E	4427485N

Geologic Statement of Basis

Kerr McGee proposes to set 2,230' of surface casing at this location. The depth to the base of the moderately saline water at this location is estimated to be at a depth of 3,200'. A search of Division of Water Rights records shows no water wells within a 10,000 foot radius of the proposed location. 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 production casing cement should be brought up above the base of the moderately saline ground water in order to isolate it from fresher waters up hole. The proposed casing and cement should adequately protect any usable ground water.

Brad Hill
APD Evaluator

6/21/2011
Date / Time

Surface Statement of Basis

The general area is in the southeast portion of the Natural Buttes Unit, which contains the White River and rugged drainages that drain into the White River. Topography is varied and frequently dissected by short draws or washes, which become overly steep as they approach the White River breaks or rim. Distance to the White River varies from $\frac{3}{4}$ mile to 2 miles. The side drainages are dry except for ephemeral flows. No seeps or springs exist in the area. An occasional pond has been constructed to supply water for livestock and antelope. Vernal, Utah is approximately 42 air miles to the northwest. Access from Vernal is approximately 45.8 road miles following Utah State, Uintah County and oilfield development roads to the location.

Five additional gas wells will be added to and directionally drilled from the NBU 922-36N pad. They are the NBU 922-36N1BS, NBU 922-36M1CS, NBU 922-36M4CS, NBU 922-36O4CS and NBU 922-36N4CS. The pad contains the existing MBU 922-36NT gas well. The terrain in the immediate area is rough and broken. The existing pad will be reoriented to a north to south direction and significantly enlarged. A deep gully occurs between Location Corners 1 and 10. It will be completely filled. The gentle head of this drainage will be diverted and rerouted along the south side of the pad from Corners 8 to 10. A ridge is located to the east and a draw and gully to the north of the site. A cut of 8.4 feet occurs at Corner 5. Maximum fill is 7.7 feet at Location Corner 10. Where the pad is cut into steep side slope behind the pit, the cut slope may be left at about $\frac{1}{4}$:1 to reduce the amount of cutting and disturbance. Reserve pit corner A is in 3.4 feet of fill. With the proposed 15 foot outer bench, 2 feet of freeboard, a 30-mil liner and the spoils placed along this side, it should be stable. The existing pad shows no stability problems. Although significant excavation is required for enlarging the pad, no stability concerns exist. The selected site is the only suitable location in the immediate area.

Both the surface and minerals are owned by SITLA. Ed Bonner and Jim Davis of SITLA were invited to attend the pre-site evaluation. Neither attended. SITLA is to be contacted for reclamation standards including a seed mix to be used.

Ben Williams of the Utah Division of Wildlife Resources attended the pre-site. Mr. Williams stated no wildlife values would be significantly affected by drilling and operating the additional wells at this location.

Application for Permit to Drill Statement of Basis

7/26/2011

Utah Division of Oil, Gas and Mining

Page 2

Floyd Bartlett
Onsite Evaluator

5/24/2011
Date / Time

Conditions of Approval / Application for Permit to Drill

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

WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 5/14/2011**API NO. ASSIGNED:** 43047515950000**WELL NAME:** NBU 922-36M1CS**OPERATOR:** KERR-MCGEE OIL & GAS ONSHORE, L.P. (N2995)**PHONE NUMBER:** 720 929-6086**CONTACT:** Gina Becker**PROPOSED LOCATION:** SESW 36 090S 220E**Permit Tech Review:** **SURFACE:** 1078 FSL 2379 FWL**Engineering Review:** **BOTTOM:** 0792 FSL 0816 FWL**Geology Review:** **COUNTY:** UINTAH**LATITUDE:** 39.98824**LONGITUDE:** -109.38858**UTM SURF EASTINGS:** 637581.00**NORTHINGS:** 4427485.00**FIELD NAME:** NATURAL BUTTES**LEASE TYPE:** 3 - State**LEASE NUMBER:** ML-22650**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 922-36M1CS
API Well Number: 43047515950000
Lease Number: ML-22650
Surface Owner: STATE
Approval Date: 7/26/2011

Issued to:

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

Authority:

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

Duration:

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

Commingle:

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

General:

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

Conditions of Approval:

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

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

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

Surface casing shall be cemented to the surface.

Additional Approvals:

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

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

Notification Requirements:

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

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

Contact Information:

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

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

Reporting Requirements:

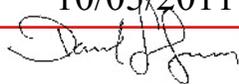
All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

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

Approved By:



For John Rogers
Associate Director, Oil & Gas

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS		5. LEASE DESIGNATION AND SERIAL NUMBER: ML-22650
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 922-36M1CS	
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047515950000	
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: 1078 FSL 2379 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESW Section: 36 Township: 09.0S Range: 22.0E Meridian: S	COUNTY: UINTAH	
		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 10/3/2011	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input checked="" type="checkbox"/> OTHER
		OTHER: <input type="text" value="Pit Refurb/ ACTS"/>
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.		
<p>Kerr-McGee Oil & Gas Onshore, LP is requesting to refurb the existing pit on this multi-well pad for 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. The trucks will unload water into these tanks before the water is placed into the refurbished pit. The purpose of the frac tanks is to collect any hydro-carbons that may have been associated with the other completion operations before releasing into the pit. 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 in the surrounding sections. Thank you.</p>		
		<p>Approved by the Utah Division of Oil, Gas and Mining</p> <p>Date: <u>10/05/2011</u> By: </p>
NAME (PLEASE PRINT) Danielle Piernot	PHONE NUMBER 720 929-6156	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 9/26/2011	

Please Review Attached Conditions of Approval

RECEIVED Sep. 26, 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 43047515950000

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
SUNDRY NOTICES AND REPORTS ON WELLS		5. LEASE DESIGNATION AND SERIAL NUMBER: ML-22650
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 922-36M1CS	
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047515950000	
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: 1078 FSL 2379 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESW Section: 36 Township: 09.0S Range: 22.0E 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 checked="" type="checkbox"/> SPUD REPORT Date of Spud: 10/9/2011 <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> WILDCAT WELL DETERMINATION <input type="checkbox"/> OTHER	
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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 10/09/2011 AT 1400 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 10/12/2011	

BLM - Vernal Field Office - Notification Form

Operator KERR-McGEE OIL & GAS Rig Name/# BUCKET RIG
Submitted By SHEILA WOPSOCK Phone Number 435.781.7024
Well Name/Number NBU 922-36M1CS
Qtr/Qtr SE/SW Section 36 Township 9S Range 22E
Lease Serial Number ML-22650
API Number 4304751595

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

Date/Time 10/07/2011 1200 HRS AM PM

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

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

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OCT 06 2011
DIV. OF OIL, GAS & MINING

Date/Time 10/12/2011 0800 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
LOVEL YOUNG AT 435.781.7051 FOR MORE

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12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. MIRU AIR RIG ON OCTOBER 17, 2011. DRILLED SURFACE HOLE TO 2359'. RAN SURFACE CASING AND CEMENTED. WELL IS WAITING ON ROTARY RIG. DETAILS OF CEMENT JOB WILL BE INCLUDED WITH WELL COMPLETION REPORT.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY		
NAME (PLEASE PRINT) Jaime Scharnowske	PHONE NUMBER 720 929-6304	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 10/20/2011	

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
4304751597	NBU 922-36N1BS		SESW	36	9S	22E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
B	99999	2900	10/11/2011		10/14/11		
Comments: MIRU PETE MARTIN BUCKET RIG. <i>WSTMVD</i> SPUD WELL ON 10/11/2011 AT 1000 HRS. <i>BHL = SESW</i>							

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304751595	NBU 922-36M1CS		SESW	36	9S	22E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
B	99999	2900	10/9/2011		10/14/11		
Comments: MIRU PETE MARTIN BUCKET RIG. <i>WSTMVD</i> SPUD WELL ON 10/09/2011 AT 1400 HRS. <i>BHL = SWSW</i>							

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304751596	NBU 922-36M4CS		SESW	36	9S	22E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
B	99999	2900	10/8/2011		10/14/11		
Comments: MIRU PETE MARTIN BUCKET RIG. <i>WSTMVD</i> SPUD WELL ON 10/08/2011 AT 10/08/2011 AT 1330 HRS. <i>BHL = SWSW</i>							

ACTION CODES:

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

SHEILA WOPSOCK

Name (Please Print)

Signature

REGULATORY ANALYST

Title

10/12/2011

Date

(5/2009)

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OCT 12 2011

DIV. OF OIL, GAS & MINING

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		Approved by the Utah Division of Oil, Gas and Mining Date: <u>11/10/2011</u> By: <u><i>Dark K. Quist</i></u>			
NAME (PLEASE PRINT) Jaime Scharnowske		PHONE NUMBER 720 929-6304			
SIGNATURE N/A		TITLE Regularatory Analyst			
		DATE 10/18/2011			

Requested Drilling Changes:

Closed Loop

Kerr-McGee will use either a closed loop drilling system that will require one pit and one cuttings storage area to be constructed on the drilling pad or a traditional drilling operation with one pit used for drilling and completion operations. The cuttings storage area will be used to contain only the de-watered drill cuttings and will be lined and bermed to prevent any liquid runoff. The drill cuttings will be buried in the completion pit once completion operations are completed according to traditional pit closure standards. The pit will be constructed to allow for completion operations. The completion operations pit will be lined with a synthetic material 20 mil or thicker and will be used for the completing of the wells on the pad or used as part of our Aandarko Completions Transportation System (ACTS). Using the closed loop drilling system will allow Kerr-McGee to decrease the amount of disturbance/footprint on location compared to a single large drilling/completions pit.

If Kerr-McGee does not use a closed loop drilling system, it will construct a traditional drilling/completions pit to contain drill cuttings and for use in completion operations. The pit will be lined with a synthetic material 20 mil or thicker. The drill cuttings will be buried in the pit using traditional pit closure standards.

Variance for FIT Requirements

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

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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: 11/17/2011 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%; border: none;"><input type="checkbox"/> ACIDIZE</td> <td style="width: 33%; border: none;"><input checked="" type="checkbox"/> ALTER CASING</td> <td style="width: 33%; border: none;"><input type="checkbox"/> CASING REPAIR</td> </tr> <tr> <td style="border: none;"><input type="checkbox"/> CHANGE TO PREVIOUS PLANS</td> <td style="border: none;"><input type="checkbox"/> CHANGE TUBING</td> <td style="border: none;"><input type="checkbox"/> CHANGE WELL NAME</td> </tr> <tr> <td style="border: none;"><input type="checkbox"/> CHANGE WELL STATUS</td> <td style="border: none;"><input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS</td> <td style="border: none;"><input type="checkbox"/> CONVERT WELL TYPE</td> </tr> <tr> <td style="border: none;"><input type="checkbox"/> DEEPEN</td> <td style="border: none;"><input type="checkbox"/> FRACTURE TREAT</td> <td style="border: none;"><input type="checkbox"/> NEW CONSTRUCTION</td> </tr> <tr> <td style="border: none;"><input type="checkbox"/> OPERATOR CHANGE</td> <td style="border: none;"><input type="checkbox"/> PLUG AND ABANDON</td> <td style="border: none;"><input type="checkbox"/> PLUG BACK</td> </tr> <tr> <td style="border: none;"><input type="checkbox"/> PRODUCTION START OR RESUME</td> <td style="border: none;"><input type="checkbox"/> RECLAMATION OF WELL SITE</td> <td style="border: none;"><input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION</td> </tr> <tr> <td style="border: none;"><input type="checkbox"/> REPERFORATE CURRENT FORMATION</td> <td style="border: none;"><input type="checkbox"/> SIDETRACK TO REPAIR WELL</td> <td style="border: none;"><input type="checkbox"/> TEMPORARY ABANDON</td> </tr> <tr> <td style="border: none;"><input type="checkbox"/> TUBING REPAIR</td> <td style="border: none;"><input type="checkbox"/> VENT OR FLARE</td> <td style="border: none;"><input type="checkbox"/> WATER DISPOSAL</td> </tr> <tr> <td style="border: none;"><input type="checkbox"/> WATER SHUTOFF</td> <td style="border: none;"><input type="checkbox"/> SI TA STATUS EXTENSION</td> <td style="border: none;"><input type="checkbox"/> APD EXTENSION</td> </tr> <tr> <td style="border: none;"><input type="checkbox"/> WILDCAT WELL DETERMINATION</td> <td style="border: none;"><input type="checkbox"/> OTHER</td> <td style="border: none;">OTHER: <input style="width: 100px;" type="text"/></td> </tr> </table>		<input type="checkbox"/> ACIDIZE	<input checked="" type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>
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<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>																														
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. <p style="text-align: center;">The Operator requests approval to change from 4-1/2 inch I-80 11.6 lb. BTC/LTC casing to 4-1/2 inch I-80 11.6 lb. DXQ/LTC casing. All other aspects of the previously approved drilling plan will not change. Please see attached drilling program. Thank you.</p>																																
NAME (PLEASE PRINT) Jaime Scharnowske	PHONE NUMBER 720 929-6304	TITLE Regularatory Analyst																														
SIGNATURE N/A	DATE 11/17/2011																															

Kerr-McGee Oil & Gas Onshore. L.P.**NBU 922-36M1CS**

Surface: 1078 FSL / 2379 FWL SESW
 BHL: 792 FSL / 816 FWL SWSW

Section 36 T9S R22E

Uintah County, Utah
 Mineral Lease: ML-22650

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	1,154'	
Birds Nest	1,406'	Water
Mahogany	1,777'	Water
Wasatch	4,225'	Gas
Mesaverde	6,398'	Gas
MVU2	7,434'	Gas
MVL1	8,012'	Gas
TVD	8,654'	
TD	8,913'	

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 8654' TVD, approximately equals
5,539 psi 0.64 psi/ft = actual bottomhole gradient

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

Maximum anticipated surface pressure equals approximately 3,623 psi (bottom hole pressure
minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot, per Onshore Order No. 2).

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

8. Anticipated Starting Dates:

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

9. Variances:

Please refer to the attached Drilling Program.
Onshore Order #2 – Air Drilling Variance

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

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

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

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

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

Background

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

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

The air rig is then mobilized to drill the surface casing hole by drilling a 12 1/4 inch hole for the first 200 feet, then will drill a 11 inch hole to just above the Bird's Nest interval with an air hammer. The hammer is then tripped and replaced with a 11 inch tri-cone bit. The tri-cone bit is used to drill to the surface casing point, approximately 500 feet below the loss circulation zone (Bird's Nest). The 8-5/8 inch surface casing is then run and cemented in place, thereby isolating the lost circulation zone.

KMG fully appreciates Onshore Order 2 well control and safety requirements associated with a typical air drilling operations. However, the requirements of Onshore Order 2 are excessive with respect to the air rig layout and drilling operation procedures that are currently in practice to drill and control the surface casing hole in KMG Fields.

Variance for BOPE Requirements

The air rig operation utilizes a properly lubricated and maintained air bowl diverter system which diverts the drilling returns to a six-inch blooie line. The air bowl is the only piece of BOPE equipment which is installed during drilling operations and is sufficient to contain the air returns associated with this drilling operation. As was discussed earlier, the drilling of the surface hole does not encounter any over pressured or productive zones, and as a result standard BOPE equipment should not be required. In addition, standard drilling practices do not support the use of BOPE on 40 feet of conductor pipe.

Variance for Mud Material Requirements

Onshore Order 2 also states that sufficient quantities of mud materials shall be maintained or readily accessible for the purpose of assuring adequate well control. Once again, the surface hole drilling operations does not encounter over pressured or productive intervals, and as a result there is not a need to control pressure in the surface hole with a mud system. Instead of mud, the air rigs utilize water from the reserve pit for well control, if necessary. A skid pump which is located near the reserve pit (see attachment) will supply the water to the well bore.

Variance for Special Drilling Operation (surface equipment placement) Requirements

Onshore Order 2 requires specific safety distances or setbacks for the placement of associated standard air drilling equipment, wellbore, and reserve pits. The air rigs used to drill the surface holes are not typical of an air rig used to drill a producing hole in other parts of the US. These are smaller in nature and designed to fit a KMG location. The typical air rig layout for drilling surface hole in the field is attached.

Typically the blooie line discharge point is required to be 100 feet from the well bore. In the case of a KMG well, the reserve pit is only 45 feet from the rig and is used for the drill cuttings. The blooie line, which transports the drill cuttings from the well to the reserve pit, subsequently discharges only 45 feet from the well bore.

Typically the air rig compressors are required to be located in the opposite direction from the blooie line and a minimum of 100 feet from the well bore. At the KMG locations, the air rig compressors are approximately 40 feet from the well bore and approximately 60 feet from the blooie line discharge due to the unique air rig design. The air compressors (see attachment) are located on the rig (1250 cfm) and

on a standby trailer (1170 cfm). A booster sits between the two compressors and boosts the output from 350 psi to 2000 psi. The design does put the booster and standby compressor opposite from the blooie line.

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

Variance for FIT Requirements

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

Conclusion

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

10. **Other Information:**

Please refer to the attached Drilling Program.



KERR-McGEE OIL & GAS ONSHORE LP
DRILLING PROGRAM

CASING PROGRAM

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS			
						BURST	COLLAPSE		TENSION
							LTC	DQX	
CONDUCTOR	14"	0-40'				3,390	1,880	348,000	N/A
SURFACE	8-5/8"	0 to 2,230	28.00	IJ-55	LTC	2.43	1.80	6.36	N/A
						7,780	6,350	223,000	267,035
PRODUCTION	4-1/2"	0 to 5,000	11.60	I-80	DQX	1.11	1.13		3.19
						1.11	1.13	6.07	

Surface casing:

(Burst Assumptions: TD = 12.5 ppg) 0.73 psi/ft = frac gradient @ surface shoe
 Fracture at surface shoe with 0.1 psi/ft gas gradient above
 (Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

Production casing:

(Burst Assumptions: Pressure test with 8.4ppg @ 7000 psi) 0.64 psi/ft = bottomhole gradient
 (Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT		YIELD
SURFACE Option 1	LEAD	500'	Premium cmt + 2% CaCl + 0.25 pps flocele	180	60%	15.80		1.15
	TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt + 2% CaCl + 0.25 pps flocele	270	0%	15.80		1.15
NOTE: If well will circulate water to surface, option 2 will be utilized								
SURFACE Option 2	LEAD	1,730'	65/35 Poz + 6% Gel + 10 pps gilsonite + 0.25 pps Flocele + 3% salt BWOW	160	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	3,723'	Premium Lite II +0.25 pps celloflake + 5 pps gilsonite + 10% gel + 0.5% extender	280	20%	11.00		3.38
	TAIL	5,190'	50/50 Poz/G + 10% salt + 2% gel + 0.1% R-3	1,230	35%	14.30		1.31

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

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

FLOAT EQUIPMENT & CENTRALIZERS

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe
PRODUCTION	Float shoe, 1 jt, float collar. 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:

Nick Spence / Danny Showers / Chad Loesel

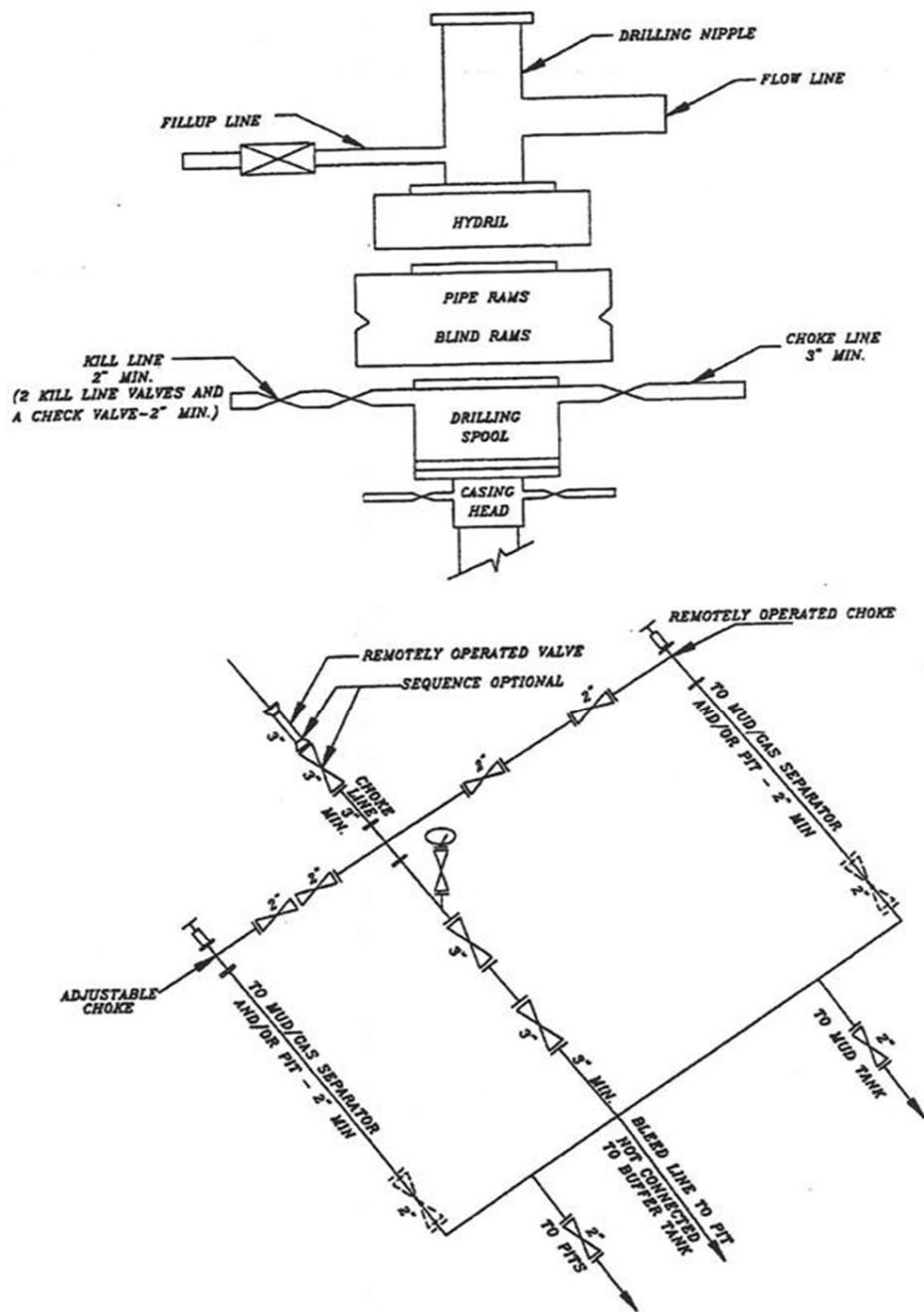
DATE:

DRILLING SUPERINTENDENT:

Kenny Gathings / Lovel Young

DATE:

EXHIBIT A
NBU 922-36M1CS



SCHEMATIC DIAGRAM OF 5,000 PSI BOP STACK

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
		5. LEASE DESIGNATION AND SERIAL NUMBER: ML-22650
SUNDRY NOTICES AND REPORTS ON WELLS		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: NBU 922-36M1CS	
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047515950000	
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: 1078 FSL 2379 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESW Section: 36 Township: 09.0S Range: 22.0E 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 type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>	
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 12/2/2011		
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.		
MIRU ROTARY RIG. FINISHED DRILLING FROM 2359' TO 8926' ON NOV. 29, 2011. RAN 4-1/2" 11.6# I-80 PRODUCTION CASING. CEMENTED PRODUCTION CASING. RELEASED XTREME RIG 12 ON DEC. 2, 2011 @ 09:30 HRS. DETAILS OF CEMENT JOB WILL BE INCLUDED WITH THE WELL COMPLETION REPORT. WELL IS WAITING ON FINAL COMPLETION ACTIVITIES.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY		
NAME (PLEASE PRINT) Jaime Scharnowske	PHONE NUMBER 720 929-6304	TITLE Regularatory Analyst
SIGNATURE N/A	DATE 12/5/2011	

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-22650
		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 922-36M1CS
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		9. API NUMBER: 43047515950000
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1078 FSL 2379 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESW Section: 36 Township: 09.0S Range: 22.0E Meridian: S		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
		COUNTY: UINTAH
		STATE: UTAH

11.

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 2/6/2012	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input checked="" type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
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	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input type="text"/>

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

THE SUBJECT WELL WAS PLACED ON PRODUCTION ON 02/06/2012 AT 1810 HRS. THE CHONROLOGICAL WELL HISTORY WILL BE SUBMITTED WITH THE WELL COMPLETION REPORT.

**Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
February 08, 2012**

NAME (PLEASE PRINT) Sheila Wopsock	PHONE NUMBER 435 781-7024	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 2/7/2012	

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-22650

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT or CA AGREEMENT NAME
UTU63047A

8. WELL NAME and NUMBER:
NBU 922-36M1CS

9. API NUMBER:
4304751595

10. FIELD AND POOL, OR WILDCAT
NATURAL BUTTES

11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
SESW 36 9S 22E 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) 929-6304**

4. LOCATION OF WELL (FOOTAGES)
AT SURFACE: **SESW 1078 FSL 2379 FWL S36,T9S,R22E**
AT TOP PRODUCING INTERVAL REPORTED BELOW: **SWSW 841 FSL 867 FWL S36,T9S,R22E**
AT TOTAL DEPTH: **SWSW 772 FSL 815 FWL S36,T9S,R22E**

14. DATE SPUDDED: **10/9/2011** 15. DATE T.D. REACHED: **11/29/2011** 16. DATE COMPLETED: **2/6/2012** *BTL by HSM*

ABANDONED READY TO PRODUCE

17. ELEVATIONS (DF, RKB, RT, GL):
4991 GL

18. TOTAL DEPTH: MD **8,926** TVD **8,687** 19. PLUG BACK T.D.: MD **8,873** TVD **8,634** 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-RSL/SM/GR/CCL

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

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

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
20"	14" STL	36.7#	0	40		28			
11"	8 5/8" IJ-55	28#	0	2,325		625		0	
7 7/8"	4 1/2" I-80	11.6#	0	8,916		1,421		1400	

25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 3/8"	8,242							

26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)	INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
(A) WASATCH	5,620	6,352			5,620 6,352	0.36	48	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
(B) MESAVERDE	6,985	8,774			6,985 8,774	0.36	168	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
(C)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
(D)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>

27. PERFORATION RECORD

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

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
6101 - 8774	PUMP 7,740 BBLs SLICK H2O & 135,987 # 30/50 OTTAWA SAND PERF'D 9 STAGES; FRAC'D 8 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

31. INITIAL PRODUCTION

INTERVAL A (As shown in Item #26)

DATE FIRST PRODUCED: 2/6/2012		TEST DATE: 2/11/2012		HOURS TESTED: 24		TEST PRODUCTION RATES: →	OIL – BBL: 0	GAS – MCF: 1,805	WATER – BBL: 600	PROD. METHOD: FLOWING
CHOKE SIZE: 20/64	TBG. PRESS. 1,600	CSG. PRESS. 1,800	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL: 0	GAS – MCF: 1,805	WATER – BBL: 600	INTERVAL STATUS: PROD

INTERVAL B (As shown in Item #26)

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

INTERVAL C (As shown in Item #26)

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

INTERVAL D (As shown in Item #26)

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

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

33. SUMMARY OF POROUS ZONES (Include Aquifers):

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

34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
				GREEN RIVER	1,154
				BIRD'S NEST	1,444
				MAHOGANY	1,837
				WASATCH	4,413
				MESAVERDE	6,652

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. DQX csg was run from surface to 5011'; LTC csg was run from 5011' to 8916'.

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 Scharnowska* DATE 3-9-12

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 922-36M1CS BLUE

Spud Date: 10/17/2011

Project: UTAH-UINTAH

Site: NBU 922-36N PAD

Rig Name No: PROPETRO 11/11, XTC 12/12

Event: DRILLING

Start Date: 9/20/2011

End Date: 12/2/2011

Active Datum: RKB @5,006.00usft (above Mean Sea Level)

UWI: SE/SW0/9/S/22/E/36/0/0/26/PM/S/1078/W/0/2379/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
10/17/2011	17:30 - 19:30	2.00	DRLSUR	01	B	P		SKID RIG TO THE /NBU 922-36M1CS RIG UP.. SET CATWALK AND PIPE RACKS. RIG UP AND PRIME PIT PUMP AND MUD PUMP
	19:30 - 20:00	0.50	DRLSUR	01	B	P		INSTALL ROTATING HEAD
	20:00 - 21:00	1.00	DRLSUR	02	B	P		SPUD @ 20:00 DRLG 12 1/4" SURFACE HOLE F/40' T/210'
	21:00 - 21:30	0.50	DRLSUR	06	A	P		POOH F/DIRECTIONAL TOOLS
	21:30 - 0:00	2.50	DRLSUR	06	A	P		M/U 11" SURF. BIT,P/U DIR TOOLS & SCRIBE TIH T/210'
10/18/2011	0:00 - 5:00	5.00	DRLSUR	02	B	P		DRILL/ SLIDE 11" SURFACE HOLE F/ 210'-880 (670' @ 134'/HR) PSI ON/ OFF 1150/880, UP/ DOWN/ ROT 60/40/52. 136 SPM, 18-20K WOB, 41 RPM ON TOP DRIVE, CIRCULATING RESERVE PIT
	5:00 - 6:00	1.00	DRLSUR	02	B	P		DRILL/ SLIDE 11" SURFACE HOLE F/ 880-1030 (150' @ 150'/HR) PSI ON/ OFF 1160/890, UP/ DOWN/ ROT 61/42/52. 136 SPM, 18-20K WOB, 41 RPM ON TOP DRIVE, CIRCULATING RESERVE PIT
	6:00 - 13:00	7.00	DRLSUR	02	B	P		DRILL/ SLIDE 11" SURFACE HOLE F/ 880-1540 (660' @ 94'/HR) PSI ON/ OFF 1550/1025, UP/ DOWN/ ROT 70/50/60. 136 SPM, 18-20K WOB, 41 RPM ON TOP DRIVE, CIRCULATING RESERVE PIT (LOST CIRCULATION @ 1540, AIR MIST 2320 CFM)
	13:00 - 14:00	1.00	DRLSUR	02	B	P		WORK TIGHT HOLE @ 1540, PUT AIR ON HOLE GOT FREE CIRC, HOLE AND RETURN TO DRILLING
	14:00 - 0:00	10.00	DRLSUR	02	B	P		DRILL/ SLIDE 11" SURFACE HOLE F/ 1540- 2200 / 660' @ 66'/HR) PSI ON/ OFF 1500/1350, UP/ DOWN/ ROT 90/56/72. 136 SPM, 18-20K WOB, 41 RPM ON TOP DRIVE, CIRCULATING RESERVE PIT / AIR MIST 2320 CFM.
10/19/2011	0:00 - 2:00	2.00	DRLSUR	02	B	P		DRILL/ SLIDE 11" SURFACE HOLE F/ 2200-2359 / 159' @79' /HR) PSI ON/ OFF 1500/1350, UP/ DOWN/ ROT 90/56/72. 136 SPM, 18-20K WOB, 41 RPM ON TOP DRIVE, CIRCULATING RESERVE PIT / AIR MIST 2320 CFM.
	2:00 - 4:00	2.00	DRLSUR	05	C	P		CIRC. & COND. F/8 5/8 28# J55 CASING RUN
	4:00 - 7:30	3.50	DRLSUR	06	A			LDDS, BHA & DIR, TOOLS
	7:30 - 8:30	1.00	DRLSUR	12	A	P		HELD S/M MOVE CATWALK & PIPE RACKS, MOVE CASING TO WORK AREA, R/U T/RUN 8 5/8 CASING
	8:30 - 12:00	3.50	DRLSUR	12	C	P		HELD SAFTEY MEETING,RUN FLOAT SHOE ,SHOE JNT,BAFFLE & 52 JNTS 8 5/8" 28# LT&C CSG WITH THE SHOE SET @2314.0 & BAFFLE @ 2266.50
	12:00 - 13:00	1.00	DRLSUR	12	B	P		RUN 200' 1" PIPE DOWN ANNULUS, MOVE RIG OFF HOLE, INSTALL CMT HEAD, R/U PRO PETRO CEMENTERS

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 922-36M1CS BLUE

Spud Date: 10/17/2011

Project: UTAH-UINTAH

Site: NBU 922-36N PAD

Rig Name No: PROPETRO 11/11, XTC 12/12

Event: DRILLING

Start Date: 9/20/2011

End Date: 12/2/2011

Active Datum: RKB @5,006.00usft (above Mean Sea Level)

UWI: SE/SW0/9/S/22/E/36/0/0/26/PM/S/1078/W/0/2379/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	13:00 - 14:00	1.00	DRLSUR	12	E	P		HELD SAFETY MEETING. TEST LINES TO 2000 PSI. PUMP 130 BBLs OF 8.4# H2O AHEAD, PUMP 20 BBLs OF 8.4# GEL WATER AHEAD. PUMP PUMP 300 SX (61.4 BBLs) OF 15.8# 1.15 YIELD TAIL.(2% CALC, 1/4# /SK OF FLOCELE).DROP PLUG ON FLY AND DISPLACE W 138 BBLs OF 8.4# H2O. LIFT PRESSURE WAS 300 PSI, BUMP PLUG AND HOLD 700 PSI FOR 5 MIN. FLOAT HELD NO RETURNS. TOP OUT DOWN 1" WITH (150 SKS) 30.7 BBLs. / TOP OUT DOWN BACK SIDE WITH (175 SKS) 35.8 BBLs. 15.8 LB. NO CEMENT TO SURFACE
	14:00 - 18:00	4.00	DRLSUR	12	E	P		RELEASE RIG @ 18:00
11/21/2011	18:00 - 18:00	0.00	DRLSUR	12	E			
	11:00 - 12:00	1.00	MIRU	01	A	P		PULL CAT WALK FORWARD. SKID RIG OVER HOLE. PLACE LOCK DOWN CAP ON PREVIOUS WELL. TAKE OFF CHOKE LINE. CENTER AND LEVEL RIG OVER HOLE. SET CAT WALK BACK IN PLACE. SCREW ON LOCKDOWN FLANGE. SET DOWN STACK AND TIGHTEN UP STACK. CHECK RIG FOR CENTER. INSTALL FLOW LINE. NIPPLE UP FLOW LINE. REPAIRED TO FLOOR PLATES ON FLOOR THAT WERE BOWED.)
	12:00 - 13:30	1.50	MIRU	14	A	P		TEST TOP DRIVE VALVE, FLOOR VALVE, DART VALVE, PIPE AND BLIND RAMS, INSIDE AND OUTSIDE KILL LINE VALVES INSIDE CHOKE LINE VALVE, HCR VALVE, CHOKE LINE, CHOKE MANIFOLD VALVES AND CHOKES TO 5000 PSI FOR 10 MIN AND 500 PSI FOR 5 MIN. TEST ANNULAR TO 2500 PSI FOR 10 MIN AND 250 PSI FOR 5 MIN. TEST CSG TO 1500 PSI FOR 30 MIN. (CHANGE OUT 2 BAD SHAKER SCREENS W/ NEW SHAKER SCREENS AND REPAIRED 2 SHAKER SCREENS.) (FILLED MUD TANKS WITH 400 BBLs OF DRILL WATER FROM PREVIOUS WELL.) INSTALL WEAR BUSHING.
	13:30 - 19:00	5.50	MIRU	15	A	P		SERVICE RIG. CHANGE OUT GRABBER BOX DIES. SERVICE TOP DRIVE. CHANGE RUBBER ON ROT HEAD RUBBER. PERFORM PRESUD SAFETY INSPECTION.
	19:00 - 20:00	1.00	MIRU	07	A	P		P/U HUNTING 1.5 BH .21 RPG MOTOR SN 2665. M/U SMITH MDI 616 SN JE8562 W/ 5-15'S. SCRIBE MOTOR. P/U DIRECTIONAL MONELS. CHANGE OUT BATTERIES ON MWD TOOL. PROGRAM MWD TOOL. TRIP IN HOLE W/ HWDP.
	20:00 - 0:00	4.00	MIRU	06	A	P		INSTALL ROT HEAD RUBBER. TRIP IN HOLE TAG CEMENT 2223'.
11/22/2011	0:00 - 0:30	0.50	MIRU	06	A	P		SLIP AND CUT DRILL LINE.
	0:30 - 2:00	1.50	MIRU	09	A	P		DRILL CEMENT AND FLOAT EQUIPMENT 2223'-2370'.
	2:00 - 3:00	1.00	DRLPRO	02	F	P		FLOAT SHOE @ 2325'. BAFFLE @ 2278'.

US ROCKIES REGION
Operation Summary Report

Well: NBU 922-36M1CS BLUE Spud Date: 10/17/2011
 Project: UTAH-UINTAH Site: NBU 922-36N PAD Rig Name No: PROPETRO 11/11, XTC 12/12
 Event: DRILLING Start Date: 9/20/2011 End Date: 12/2/2011
 Active Datum: RKB @5,006.00usft (above Mean Sea Level) UWI: SE/SW09/S/22/E/36/0/0/26/PM/S/1078/W/0/2379/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	3:00 - 5:00	2.00	DRLPRO	02	D	P		DRILL SLIDE 2370'- 2642' (272', 136'/HR) WOB 15-21K. AVE WOB-19K. RPM 55. DHRPM 108. SPM 115 GPM-517. ON/OFF PSI 1750/1450. 300 DIFF. TORQUE ON/OFF 8000/3000. STRING WT UP/DOWN/ROT 80/70/75. DRAG 5K. COME OUT OF SHOE @ 18.38 DEGREE AND HOLD TANGENT.SLIDE 100' @ 140' HR. SLIDE 37% ROT 63%. FULL CIRC. RUNNING CENTRIFUGES. DRILLING W/ WATER.
	5:00 - 10:30	5.50	ALL	22	A	X		WHILE SLIDING @ 2642' A PRESSURE LOSS ON PUMPS WAS EXPERIENCED(SOMETHING CAUGHT UP UNDER VALVE). AFTER CHANGING OVER TO PUMP #2 THAT PUMP ALSO HAD PRESSURE PROBLEMS. THEY CIRCULATED WITH PUMP FOR 10 MIN. THEY SHUT DOWN PUMPS FOR 10 MIN MOVING PIPE A FEW FEET PIPE REMAINED FREE. THEY KICKED PUMP ON HOLE WAS PACKED OFF. PIPE WAS STILL ABLE TO MOVE BUT WAS UNABLE TO CIRCULATE. WE LAID DOWN 1 JT. AND STARTED WORKING PIPE UPWARD AS WE WORKED THE PIPE THE HOLE BECAME MORE STUCK. STILL UNABLE TO CIRCULATE WE CRIPPLED #2 PUMP TO MAKE PIPE JUMP, BUT WAS STILL UNABLE TO MOVE PIPE. WE ATTEMPTED WORKING PIPE DOWN WORKING ROT AND SURGING PUMPS TO NO AD VAIL. WORK STUCK PIPE CONTINUOUSLY WHILE WAITING FOR DCT FREE POINT TRUCK. (LOSS 200 BBLs WATER TO FORMATION)
	10:30 - 15:30	5.00	ALL	19	A	X		HOLD SAFETY MEETING WITH DCT FREE POINT CREW. RIG UP CHIV IN DERRICK. KNOCK TOP CAP OFF OF TOP DRIVE. RUN IN HOLE WITH FREE POINT TOOLS. FREE POINT PIPE. DETERMINED PIPE WAS FREE DOWN TO GAP SUB. EM TOOLS ARE NOT ABLE TO BE RETRIEVED BY WIRELINE. PULL OUT OF HOLE. HOLD SAFETY MEETING. MAKE UP SHOT AND RUN IN HOLE WITH SHOT. SHOT DID NOT GO OFF.PULL SHOT AND CHECK TOOL. RELOAD SHOT AND RUN IN HOLE. BACK OFF HWDP @ 2292'. PULL SHOT. RIG DOWN FREE POINT TRUCK. WELL FLOWING. 1'-3' FLARE WHILE FREE POINTING. REPLACE TOP CAP ON TOP DRIVE.
	15:30 - 16:00	0.50	ALL	19	A	X		CIRC OUT GAS.... 15' FLARE. PUMP 10 BBL 11.5# PILL.
	16:00 - 18:30	2.50	ALL	19	A	X		TRIP OUT OF HOLE. PULL ROT HEAD RUBBER. KICK OUT BOTTOM JOINT. MOVE PIPE OFF OF PIPE RACKS.
	18:30 - 0:00	5.50	ALL	19	A	X		SET FISHING TOOLS ON CATWALK. P/U SCREW IN SUB. MAKE UP SHOCK SUB. P/U DRILLING JARS. RUN IN WITH HWDP. P/U INTENSIFIER SUB. INSTALL ROT HEAD RUBBER. TRIP IN 2290'.
11/23/2011	0:00 - 0:30	0.50	PROD	19	A	X		CIRC OUT GAS. 15' FLARE. WASH TOP OF FISH.

US ROCKIES REGION
Operation Summary Report

Well: NBU 922-36M1CS BLUE Spud Date: 10/17/2011
 Project: UTAH-UINTAH Site: NBU 922-36N PAD Rig Name No: PROPETRO 11/11, XTC 12/12
 Event: DRILLING Start Date: 9/20/2011 End Date: 12/2/2011
 Active Datum: RKB @5,006.00usft (above Mean Sea Level) UWI: SE/SW09/S/22/E/36/0/0/26/PM/S/1078/W/0/2379/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	0:30 - 6:00	5.50	ALL	19	A	X		JAR DOWN ON FISH W/ ENTIRE STRING WT OF 60 K. NO MOVEMENT GOING DOWN FOR 1 HR. JAR UP ON FISH AT 100K OVER FOR 3 TIMES THEN DOWN FOR 4 TIMES REPEATED PATTERN W/ NO MOVEMENT. JARRED DOWN FOR 1/2 HR AND THEM UP 1/2 HR UNTIL FREE POINT TRUCK RETURNED TO LOCATION WITH NO MOVEMENT. (INSPECTED TOPDRIVE AND LIGHTS IN DERRICK)
	6:00 - 12:00	6.00	ALL	19	A	X		HOLD SAFETY MEETING W/ DCT FREE POINTERS AND RIG UP FREE POINT TRUCK. FREE POINT TRUCK FOUND FREE POINT 2384' (TOP OF 4TH JT OF HWDP). JAR PIPE SEVERAL TIMES WITH FREE POINT TOOL IN HOLE ABOVE INTENSIFIER. FIND FREE POINT AGAIN AND FOUND FREE POINT @ 2450' AND HOLE GETTING STICKIER. JAR SEVERAL MORE TIMES UP AND DOWN AND FREE POINT WAS STILL @ 2444'. 2 - 30' HWDP ABOVE MONELS. PULL FREE POINT TOOLS. HOLD SAFETY MEETING AND LOAD SHOT. RUN IN WITH SHOT AND BACK OFF LEAVING 2-30' HWDP, 2 MONELS DC. 1 GAP SUB/HANG OF SUB. 1 MUD MOTOR AND BIT. RIG DOWN DCT FREE POINTERS.
	12:00 - 12:30	0.50	ALL	19	A	X		DISPLACE OUT GAS (15' FLARE) W/ 8.6 WT 50 VIS MUD.
	12:30 - 17:30	5.00	ALL	19	A	X		PULL OUT OF HOLE. PULL ROT HEAD RUBBER. LAY DOWN FISHING TOOLS.
	17:30 - 18:00	0.50	ALL	19	A	X		SERVICE RIG. SERVICE TOP DRIVE. INPSECT TOP DRIVE. SERVICE DRAWWORKS.
	18:00 - 0:00	6.00	ALL	19	A	X		RIG UP TO RUN 7 5/8" WASH PIPE. C/O ELEVATORS. INSTALL WASH PIPE SLIP BOWL. SET WASH PIPE ONTO CAT WALK AND P/U 156' OF 7 5/8" WASH PIPE W/ 6 7/8" ID. RIG DOWN WASH PIPE EQUIPMENT. P/U FISHING JAR ABOVE WASH PIPE. TIH HOLE SLOWLY BECAUSE OF A BOTTLE NECK EFFECT. WATER SHOOTING OUT OF TOP OF 4" DP WHILE COMING DOWN. WASH PIPE WOULD ONLY COME DOWN SO FAST.
11/24/2011	0:00 - 1:00	1.00	ALL	19	A	X		TRIP IN HOLE WITH 7-5/8" WASH OVER PIPE. P/U INTENSIFIER. INSTALL ROT HEAD RUBBER. 700'.
	1:00 - 1:30	0.50	ALL	07	A	X		RIG SERVICE. SERVICE TOP DRIVE. SERVICE DRAWWORKS.
	1:30 - 6:00	4.50	ALL	19	A	X		TRIP IN WITH 7-7/5" WASH OVER PIPE W/ 6-7/8" ID. TRIPPING IN IS SLOW BECAUSE OF WASH OVER PIPE WANTING TO FLOAT.

US ROCKIES REGION
Operation Summary Report

Well: NBU 922-36M1CS BLUE Spud Date: 10/17/2011
 Project: UTAH-UINTAH Site: NBU 922-36N PAD Rig Name No: PROPETRO 11/11, XTC 12/12
 Event: DRILLING Start Date: 9/20/2011 End Date: 12/2/2011
 Active Datum: RKB @5,006.00usft (above Mean Sea Level) UWI: SE/SW09/S/22/E/36/0/0/26/PM/S/1078/W/0/2379/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	6:00 - 16:30	10.50	ALL	19	A	X		CATCH CIRC W/ 45 VIS 8.4# MUD AND PUSH WASH PIPE WITH LITTLE ROTATION DOWN TO TOP OF FISH WITH PUMP @ 450 GPM. SWALLOW OVER TOP OF FISH @ 2444' AND WASH DOWN OVER HWDP @ 405 GPM WITH SOME HYDRAULIC LIFT. WASH OVER MONELS @ 2506' (MORE HYDRAULIC LIFT AFTER WASHING OVER 6.5" MONELS) SLOW PUMPS TO 360 GPM. PUMP 20 BBL 70 VIS SWEEPS TO CLEAN HOLE PERIODICALLY. WASH DOWN TO MOTOR KICK PAD @ 2600' W/ 300 GPM. (MORE HYDRAULIC LIFT AFTER PASSING OVER MOTORS HARDBAND @ 6 3/4".) STUCK BHA NEVER FELL. PUMP HIGH VIS SWEEP AND SPOT 40 BBL 11.6# PILL IN HOLE AROUND FISH. (HOLE WAS SEEPING @ FIRST ABOUT 10 BBL PER HR. SWEEP HOLE WITH SAWDUST TO HEAL UP LOSSES.)
	16:30 - 0:00	7.50	ALL	19	A	X		TRIP OUT OF HOLE. PULLING SLOW BECAUSE OF WASH PIPE WANTING TO SWAB HOLE. WASH PIPE CAME OFF OF FISH WITH NO DRAG. PULL ROT HEAD RUBBER 600'. LD INTENSIFIER. LD HWDP. LD JARS. LD WASHPIPE. MOVING WASH PIPE OFF OF RACKS @ REPORT TIME.
11/25/2011	0:00 - 7:00	7.00	ALL	19	A	X		TRIP IN HOLE WITH 7 5/8" CUT LIP SHOE W/ SCREW IN SUB. INSTALL BUMPER SUB. MAKE UP FISHING JARS. RUN HWDP AND P/U INTENSIFIER. INSTALL ROT HEAD RUBBER. TIH ABOVE FISH.
	7:00 - 7:30	0.50	ALL	19	A	X		CIRCULATE OUT GAS 8-10' FLARE. MUD 8.9 VIS 45. WASH DOWN 25' TO TOP OF FISH @ 2444'. NO FILL.
	7:30 - 8:30	1.00	ALL	19	A	X		SCREW INTO FISH. PULL TEST. JAR ONCE AT 60K OVER AND PULL FISH FREE. WORK FISH OUT OF TIGHT HOLE TO SHOE.
	8:30 - 14:30	6.00	ALL	19	A	X		TRIP OUT OF HOLE WITH FISH ON. LAYDOWN INTENSIFIERS. LAYDOWN HWDP (INSPECT HWDP, CROSS OVERS, AND MONELS FOR DAMAGE WITH B & C TESTING)) LAY DOWN ALL FISHING TOOLS. (LAY DOWN SCREW IN SUB WITH CUT LIP SHOE DOWN AND TOP HWDP OF FISH) LAY DOWN ALL OF FISH. SLIDE WASH OVER PIPE OFF OF TOP JT OF FISH ON RACKS. PICK BACK UP TOP SUB WITH HWDP AND BREAK DOWN TOP OF FISH AND SCREW IN SUBS AND CROSS OVERS. BIT UNDAMAGED.
	14:30 - 16:00	1.50	DRLPRO	09	A	P		SLIP AND CUT DRILL LINE. CONTINUE INSPECTING HWDP. LOAD OUT FISHING TOOLS. (START DEWATERING MUD)
	16:00 - 23:00	7.00	DRLPRO	06	A	P		SET UP NEW BHA ON RACKS. P/U HUNTING MOTOR 1.5 BH .21 RPG SN 6089. M/U BIT #2 RR SN JE 8562 W/ 6-16'S. (PROBLEM WITH XO FROM TM439 TO 4" FULL. FIND NEW CROSS OVER IN SUB BIN.) RUN ALL HWDP. INSTALL ROT HEAD RUBBER. TRIP TO BOTTOM OF HOLE.

US ROCKIES REGION
Operation Summary Report

Well: NBU 922-36M1CS BLUE		Spud Date: 10/17/2011	
Project: UTAH-UINTAH		Site: NBU 922-36N PAD	Rig Name No: PROPETRO 11/11, XTC 12/12
Event: DRILLING		Start Date: 9/20/2011	End Date: 12/2/2011
Active Datum: RKB @5,006.00usft (above Mean Sea Level)		UWI: SE/SW09/S/22/E/36/0/0/26/PM/S/1078/W/0/2379/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	23:00 - 0:00	1.00	DRLPRO	02	D	P		DRILL SLIDE 2642'-2784' (142',142'/HR) WOB 15-21K. AVE WOB-19K. RPM 55. DHRPM 108. SPM 115 GPM-517. ON/OFF PSI 1750/1450. 300 DIFF. TORQUE ON/OFF 8000/3000. STRING WT UP/DOWN/ROT 81/70/75. DRAG 6K. COME OUT OF SHOE @ 18.38 DEGREE AND HOLD TANGENT.SLIDE 70' @ 130' HR. SLIDE 50% ROT 50%. FULL CIRC. RUNNING CENTRIFUGES AND DEWATERING. CIRC WITH 8.5 WT AND 38 VIS. TRYING TO CUT BACK TO WATER. NO LOSSES.
11/26/2011	0:00 - 4:30	4.50	EVALPR	02	D	P		DRILL SLIDE 2784'-3235' (451',100'/HR) WOB 19-22K. AVE WOB-20K. RPM 55. DHRPM 113. SPM 120 GPM-540. ON/OFF PSI 2000/1650. 3350 DIFF. TORQUE ON/OFF 9500/3500. STRING WT UP/DOWN/ROT 98/69/77. DRAG 22K. HOLDING TANGENT.SLIDE 70' @ 130' HR. SLIDE 51% ROT 49%. FULL CIRC. RUNNING CENTRIFUGES AND DEWATERING. CIRC WITH 8.5 WT AND 36 VIS. TRYING TO CUT BACK TO WATER. NO LOSSES.
	4:30 - 5:00	0.50	EVALPR	07	A	P		SERVICE RIG. (SERVICE PUMPS, SERVICE TOP DRIVE)
	5:00 - 6:30	1.50	EVALPR	02	D	P		DRILL SLIDE 3235'-3371' (136', 91'/HR) WOB 19-22K. AVE WOB-20K. RPM 55. DHRPM 105. SPM 112 GPM-504. ON/OFF PSI 1750/1450. 300 DIFF. TORQUE ON/OFF 9000/3500. STRING WT UP/DOWN/ROT 98/71/80. DRAG 18K. HOLDING TANGENT.SLIDE 60' @ 80' HR. SLIDE 44% ROT 66%. FULL CIRC. RUNNING CENTRIFUGES AND DEWATERING. CIRC WITH 8.5 WT AND 35 VIS. TRYING TO CUT BACK TO WATER. NO LOSSES.
	6:30 - 7:00	0.50	EVALPR	07	A	P		SERVICE DRAWWORKS. SERVICE CROWN. (CIRCULATE) START CHANGING 2" BLEED OFF VALVE ON PUMP. START TRIPPING OUT OF HOLE TO MAKE REPAIRS.
	7:00 - 7:30	0.50	MAINT	08	B	Z		RIG REPAIR. WORK ON PUMPS. CHANGE OUT BLEED OFF VALVE ON PUMP. CHANGE OUT SWAB. TRIP UP OUT OF HOLE TILL PROBLEM WAS FIXED THEN TRIPPED BACK IN HOLE.
	7:30 - 0:00	16.50	EVALPR	02	D	P		DRILL SLIDE 3371'- 4797' (1426', 87'/HR) WOB 20-25K. AVE WOB-23K. RPM 55. DHRPM 113. SPM 120 GPM-540. ON/OFF PSI 2200/1850. 350 DIFF. TORQUE ON/OFF 9000/4000. STRING WT UP/DOWN/ROT 113/75/90. DRAG 23K. HOLDING TANGENT. SLIDE 904' @ 75' HR. SLIDE 63% ROT 37%. FULL CIRC. RUNNING CENTRIFUGES AND DEWATERING. CIRC WITH 8.5 WT AND 27 VIS. LOSING 20 BBLs HR SINCE 4600'. PUMP 70 VIS AND LCM SWEEP TO CONTROL LOSSES AFTER SWEEP LOSSES TAPERED BACK TO 10 BBL HR. LOSS 30 BBLs

US ROCKIES REGION
Operation Summary Report

Well: NBU 922-36M1CS BLUE		Spud Date: 10/17/2011	
Project: UTAH-UINTAH		Site: NBU 922-36N PAD	Rig Name No: PROPETRO 11/11, XTC 12/12
Event: DRILLING		Start Date: 9/20/2011	End Date: 12/2/2011
Active Datum: RKB @5,006.00usft (above Mean Sea Level)		UWI: SE/SW0/9/S/22/E/36/0/0/26/PM/S/1078/W/0/2379/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
11/27/2011	0:00 - 12:00	12.00	DRLPRO	02	D	P		DRILL SLIDE 4797'- 5914' (1117', 93'/HR) WOB 20-25K. AVE WOB-23K. RPM 55. DHRPM 113. SPM 120 GPM-540. ON/OFF PSI 2300/1950. 350 DIFF. TORQUE ON/OFF 9000/5000. STRING WT UP/DOWN/ROT 128/85/100. DRAG 28K. START DROP @ 5200'. SLIDE 140' @ 55' HR. SLIDE 13% ROT 87%. FULL CIRC. RUNNING CENTRIFUGES AND DE WATERING. CIRC WITH 8.5 WT AND 26 VIS. LOSING 10 BBLS/HR PUMP 70 VIS AND LCM SWEEP TO CONTROL LOSSES. (TOTAL LOSSES OF 120 BBLS).
	12:00 - 16:30	4.50	DRLPRO	02	D	P		DRILL SLIDE 5914'-6277' (363', 81'/HR) WOB 20-25K. AVE WOB-23K. RPM 55. DHRPM 113. SPM 120 GPM-540. ON/OFF PSI 2350/1950. 400 DIFF. TORQUE ON/OFF 10000/5500. STRING WT UP/DOWN/ROT 141/95/108. DRAG 33K. SLIDING DOWN AT 5 DEGREES TO GET DROP. SLIDE 50' @ 40' HR. SLIDE 13% ROT 87%. FULL CIRC. RUNNING CENTRIFUGES AND DE WATERING. CIRC WITH 8.5 WT AND 26 VIS. LOSING 10 BBLS/HR. PUMP 70 VIS AND LCM SWEEP TO CONTROL LOSSES. (TOTAL LOSSES OF 45 BBLS).
	16:30 - 17:00	0.50	DRLPRO	07	D	P		RIG SERVICE. FUNCTION PIPE RAMS. SERVICE TOP DRIVE. SERVICE PUMPS
	17:00 - 0:00	7.00	DRLPRO	02	D	P		DRILL SLIDE 6277'-6905' (628', 90'/HR) WOB 20-25K. AVE WOB-23K. RPM 55. DHRPM 113. SPM 120 GPM-540. ON/OFF PSI 2450/2050. 400 DIFF. TORQUE ON/OFF 10000/5500. STRING WT UP/DOWN/ROT 140/105/120. DRAG 20K. SLIDE 50' @ 45' HR. SLIDE 8% ROT 92%. FULL CIRC. RUNNING CENTRIFUGES AND DE WATERING. CIRC WITH 8.5 WT AND 26 VIS. LOSING 10 BBLS/HR. PUMP 70 VIS AND LCM SWEEP TO CONTROL LOSSES. (TOTAL LOSSES OF 70 BBLS).
	11/28/2011	0:00 - 0:30	0.50	DRLPRO	07	A	P	
	0:30 - 6:00	5.50	DRLPRO	02	D	P		DRILL SLIDE 6905'- 7321' (416',76'/HR) WOB 20-25K. AVE WOB-23K. RPM 55. DHRPM 113. SPM 120 GPM-540. ON/OFF PSI 2550/2150. 400 DIFF. TORQUE ON/OFF 11000/6500. STRING WT UP/DOWN/ROT 138/105/118. DRAG 20K. SLIDE 20' @ 35' HR. SLIDE 5% ROT 95%. FULL CIRC. RUNNING CENTRIFUGES AND DE WATERING. CIRC WITH 8.5 WT AND 26 VIS. LOSING 10 BBLS/HR. PUMP 70 VIS AND LCM SWEEP TO CONTROL LOSSES. (TOTAL LOSSES OF 55 BBLS).
	6:00 - 6:30	0.50	DRLPRO	07	A	P		SERVICE RIG. SERVICE PUMPS. SERVICE DRAWWORKS.

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 922-36M1CS BLUE Spud Date: 10/17/2011
 Project: UTAH-UINTAH Site: NBU 922-36N PAD Rig Name No: PROPETRO 11/11, XTC 12/12
 Event: DRILLING Start Date: 9/20/2011 End Date: 12/2/2011
 Active Datum: RKB @5,006.00usft (above Mean Sea Level) UWI: SE/SW0/9/S/22/E/36/0/0/26/PM/S/1078/W/0/2379/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	6:30 - 18:00	11.50	DRLPRO	02	A	P		DRILL SLIDE 7321'-7873' (552',48'/HR) WOB 18-25K. AVE WOB-21K. RPM 55. DHRPM 113. SPM 120 GPM-540. ON/OFF PSI 3100/2700. 500 DIFF. TORQUE ON/OFF 11000/8000. STRING WT UP/DOWN/ROT 145/105/121. DRAG 24K. SLIDE 130' @ 30' HR. SLIDE 23% ROT 77%. FULL CIRC. MUDDER UP @ 7450' TO HELP WITH TORQUE ISSUES. DISPLACED HOLE WITH 650 BBLs OF 11.6 MUD. STORED 400 BBLs OF DRILL WATER. MUD IN 10.4 VIS 44/ MUD OUT 10.3 VIS 40. 1' FLARE BEFORE WE MUDDER UP. 20 BBLs LOSS BEFORE MUD UP.
	18:00 - 18:30	0.50	DRLPRO	07	A	P		RIG SERVICE. SERVICE PUMPS. SERVICE TOP DRIVE.
	18:30 - 0:00	5.50	DRLPRO	02	D	P		DRILL SLIDE 7873'-8078' (205',37'/HR) WOB 15-22K. AVE WOB-18K. RPM 55. DHRPM 94. SPM 100 GPM-450. ON/OFF PSI 2700/2300. 400 DIFF. TORQUE ON/OFF 11500/9300. STRING WT UP/DOWN/ROT 155/112/122. DRAG 33K. SLIDE 40' @ 20' HR. SLIDE 19% ROT 81%. TORQUE LIMITS ARE ALMOST TO MAXIMUM HAVING TO BACK OFF OF WT ON BIT OR TOP DRIVE STALLS. SLIDES HAVE NOT REALLY BEEN VERY EFFECTIVE. FULL CIRC. MUD IN 10.4 VIS 41/ MUD OUT 10.4 VIS 39. (2'
11/29/2011	0:00 - 9:00	9.00	DRLPRO	02	D	P		DRILL SLIDE 8078'- 8410' (332',37'/HR) WOB 15-22K. AVE WOB-17K. RPM 55. DHRPM 94. SPM 100 GPM-450. ON/OFF PSI 2800/2400. 400 DIFF. TORQUE ON/OFF 11500/9300. STRING WT UP/DOWN/ROT 155/110/130. DRAG 25K. SLIDE 60' @ 17' HR. SLIDE 18% ROT 82%. TORQUE LIMITS ARE ALMOST TO MAXIMUM HAVING TO BACK OFF OF WT ON BIT OR TOP DRIVE STALLS. SLIDES HAVE NOT REALLY BEEN EFFECTIVE. FULL CIRC. MUD IN 10.9 VIS 41/ MUD OUT 10.9 VIS 39. (2' FLARE. 5; CONNECTION FLARE FROM 8170-8190') MIX SAWDUST INTO SYSTEM TO ALLEVIATE 500 FT/LBS TORQUE.
	9:00 - 16:00	7.00	DRLPRO	02	D	P		DRILL 8410'-8727' (317',45'/HR) WOB 15-22K. AVE WOB-19K. RPM 55. DHRPM 94. SPM 100 GPM-450. ON/OFF PSI 3000/2700. 300 DIFF. TORQUE ON/OFF 10500/9500. STRING WT UP/DOWN/ROT 170/120/142. DRAG 28K. SLIDE 0' SLIDE 0% ROT 100%. EASED TORQUE WITH 40 BBL PILL W/ 55 GAL OF ANCHO DRILL. REDUCED TORQUE ABOUT 1000 FT/LB ON AVERAGE. FULL CIRC. MUD IN 11.6 VIS 41/ MUD OUT 11.2 VIS 39. 5' FT DRILLING FLARE 8610'-8620'. (NO LOSSES)
	16:00 - 16:30	0.50	DRLPRO	07	A	P		SERVICE RIG. FUNCTION PIPE RAMS. SERVICE TOP DRIVE. .

US ROCKIES REGION
Operation Summary Report

Well: NBU 922-36M1CS BLUE

Spud Date: 10/17/2011

Project: UTAH-UJINTAH

Site: NBU 922-36N PAD

Rig Name No: PROPETRO 11/11, XTC 12/12

Event: DRILLING

Start Date: 9/20/2011

End Date: 12/2/2011

Active Datum: RKB @5,006.00usft (above Mean Sea Level)

UWI: SE/SW/0/9/S/22/E/36/0/0/26/PM/S/1078/W/0/2379/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	16:30 - 22:30	6.00	DRLPRO	02	D	P		DRILL 8727'- 8926' (199',33'/HR) TD 11/29/2011 22:30 WOB 15-22K. AVE WOB-19K. RPM 55. DHRPM 94. SPM 100 GPM-450. ON/OFF PSI 3000/2700. 300 DIFF. TORQUE ON/OFF 11000/10000. STRING WT UP/DOWN/ROT 185/138/148. DRAG 37K. SLIDE 0' SLIDE 0% ROT 100%. EASED TORQUE WITH 40 BBL PILL W/ 55 GAL OF ANCHO DRILL.REDUCED TORQUE ABOUT 1000 FT/LB ON AVERAGE. FULL CIRC. MUD IN 11.7 VIS 44/ MUD OUT 11.7 VIS 48. 5' FT CONNECTION FLARE. (NO LOSSES)
	22:30 - 23:30	1.00	EVALPR	05	A	P		CIRC AND CONDITION HOLE. CIRC BOTTOMS UP. 11.7 VIS 45. 2 FT FLARE FROM BOTTOMS UP. MIX 13.5# 30 BBLs PILL AND HOLD FOR DRY JOB.
	23:30 - 0:00	0.50	EVALPR	06	E	P		START PUMPING AND ROT OUT OF HOLE. 40 K OVER IN ROT. PUMPED OUT TO 8600' @ REPORT TIME.
11/30/2011	0:00 - 1:30	1.50	EVALPR	06	E	P		WIPER TRIP. PUMP AND ROT OUT OF HOLE TO 8500'. @ 180K. PUMP OUT TO 8000' @ 200K. HOLE TAKING PROPER FLUID.
	1:30 - 3:30	2.00	EVALPR	06	E	P		PULL 5 STANDS @ 70 K OVER. PUMP DRY JOB. BLOW DOWN TOP DRIVE. WIPER TRIP OUT OF HOLE TO 6000'.
	3:30 - 4:00	0.50	EVALPR	07	A	P		SERVICE TOP DRIVE. SERVICE DRAWWORKS.
	4:00 - 7:30	3.50	EVALPR	06	E	P		WIPER TRIP OUT TO SHOE. HOLE TAKING PROPER FLUID. NO FLOW ON FLOW CHECKS. WORK THROUGH TIGHT HOLE FROM 4860'-4745'. WASHED THROUGH TIGHT SPOT @ 4745-4700'. WET TRIP TO SHOE FROM 4700'. CHECK FLOW AT SHOE. (PUMP MUD FROM CELLAR BACK OVER SHAKERS) CLEAN FLOOR.
	7:30 - 9:30	2.00	EVALPR	06	E	P		TRIP BACK IN HOLE TO 4700'. GOOD DISPLACEMENT THROUGH OUT.
	9:30 - 14:00	4.50	EVALPR	03	E	P		WASH AND REAM THROUGH TIGHT SPOTS 4700'-4860', 5126'-5173', 5358'-5410',5451'-5497', 5696'-5777',5899'-5916', 6076'-6101', 6300'-6331', 6430'-6469',6600'-6613', 6754'-6792'. TRIP IN JTS BETWEEN TIGHT SPOTS. MUD WT 11.8 VIS 47. GOOD CIRC THROUGH OUT. HEAVY SLOUGHING W/ RETURNS.
	14:00 - 17:00	3.00	EVALPR	06	E	P		WIPER TRIP IN HOLE. NO TIGHT HOLE FROM 6792'-8926'. BROKE CIRC 8000'. GOOD DISPLACEMENT ON TRIP IN.
	17:00 - 20:00	3.00	EVALPR	05	A	P		CIRCULATE AND CONDITION HOLE W/ MUD IN 11.9 VIS 48/ MUD OUT 11.8 VIS 51. 10-15' FLARE ON BOTTOMS UP. CIRC HOLE CLEAN. MIX ANCHO GLIDE SWEEP IN 40 BBLs PILL AND SPOT IN HOLE. MIX 40 BBL 13.3# DRY JOB AND HOLD.
	20:00 - 0:00	4.00	EVALPR	06	B	P		PUMP AND ROT OUT OF HOLE TO 8750' W/ 40K OVER. PUMP OUT OF HOLE WITHOUT ROT 8750'-8600' W/ 55 K OVER. PULL STRAIGHT OUT OF HOLE W/ NO PUMP @ 8600 W/ 65 K OVER. HOLE TAKING PROPER FLUID. NO FLOW ON FLOW CHECKS. PUMP DRY JOB. BACK REAM THROUGH TIGHT HOLE 5000'. TRIPPING OUT @ 4900'

US ROCKIES REGION
Operation Summary Report

Well: NBU 922-36M1CS BLUE		Spud Date: 10/17/2011	
Project: UTAH-UINTAH		Site: NBU 922-36N PAD	Rig Name No: PROPETRO 11/11, XTC 12/12
Event: DRILLING		Start Date: 9/20/2011	End Date: 12/2/2011
Active Datum: RKB @5,006.00usft (above Mean Sea Level)		UWI: SE/SW09/S/22/E/36/0/0/26/PM/S/1078/W/0/2379/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
12/1/2011	0:00 - 7:00	7.00	EVALPR	06	B	P		TRIPPING OUT OF HOLE FOR LOGS. WASH THROUGH TIGHT HOLE 4700'-4600', 4400'-4300'. BLOW OUT KELLY. WET TRIP OUT OF HOLE. PULL ROT HEAD RUBBER AND BREAK TOP DRIVE SAVER SUB. LD HWDP. LD DIRECTIONAL. BREAK BIT AND LD MUD MOTOR. HOLE TOOK PROPER FLUID ON TRIP. NO FLOW ON FLOW CHECKS.
	7:00 - 11:00	4.00	EVALPR	11	D	P		HOLD SAFETY MEETING W/ HALLIBURTON LOGGERS. RIG UP LOGGERS. RUN IN HOLE WITH TRIPLE COMBO TOOLS. SURFACE CSG SHOE @ 2324'. TOOLS BRIDGED OUT AT 3330'. WORKED TOOLS TO TRY AND GET TOOLS TO FALL PAST LEDGE. TOOLS WOULD NOT GO. PULL LOGGING TOOLS OUT OF HOLE AND RIG DOWN HALLIBURTON.
	11:00 - 11:30	0.50	CSG	14	B	P		PULL WEAR BUSHING. PULL OFF ELEVATORS. PREP RIG TO RUN CSG. FUNCTION PIPE RAMS AND BLIND RAMS.
	11:30 - 12:30	1.00	CSG	12	A	P		HOLD SAFETY MEETING W/ KIMZEY CSG. RIG UP INTERGRATED TONGES AND TORQUE TURN EQUIPMENT. INSTALL CSG ELEVATORS. JAMES PACE WITH TSI ON LOCATION.
	12:30 - 15:30	3.00	CSG	12	C	P		MAKE UP DCT AUTO FILL L-80 LTC FLOAT SHOE AND FLOAT COLLAR W/ THREAD LOCK. RUN 4.5" I-80 11.6# 8RD LTC CSG 2500'. RUN MARKER JT AND INSTALL ROT HEAD RUBBER. BREAK CIRC.
	15:30 - 16:30	1.00	CSG	22	O	Z		CHANGE OUT LODE CELL ON INTERGRATED TONGES FOR TORQUE TURN. LODE CELL WOULD NOT FIT, HAD TO MODIFY BOLTS ON LOAD CELL TO GET IT TO FIT. (CIRC THROUGH CSG THROUGH OUT AND KEPT CSG MOVING)
	16:30 - 20:30	4.00	CSG	12	C	P		RUN RUN 4.5" I-80 11.6# 8RD LTC CSG FOR TOTAL LENGTH OF 3925'. P/U MARKER CROSS OVER TO 4.5" DQX THREAD. TORQUE TURN DQX THREAD TO 4325 FT/LBS. (WASHED THROUGH LEDGES AT 3800', 3940', 3953', 3993', 4765'. TRIP CSG DOWN TO 5410'. PROBLEMS WITH INTERGRATED TONGES.
	20:30 - 21:30	1.00	CSG	22	L	Z		INTERGRATED TONGES STOPPED TORQING PIPE TO PROPER SPEC. CHECK WITH TSI REP SUPERVISOR ABOUT PICKING UP REGULAR SET OF TONGES. TSI AGREED THAT IT WOULD BE OK. RIGGED DOWN INTERGRATED TONGES AND P/U REGULAR CSG TONGES.
	21:30 - 0:00	2.50	CSG	12	C	P		CONTINUE RUNNING 4.5" I-80 11.6# DQX CSG. TORQUE CHARTS LOOK GOOD W/ REGULAR TONGES. RUN CSG TO 7800' AT REPORT TIME. (CLEANED 2 TANKS WHILE RUNNING CSG.)

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 922-36M1CS BLUE Spud Date: 10/17/2011
 Project: UTAH-UINTAH Site: NBU 922-36N PAD Rig Name No: PROPETRO 11/11, XTC 12/12
 Event: DRILLING Start Date: 9/20/2011 End Date: 12/2/2011
 Active Datum: RKB @5,006.00usft (above Mean Sea Level) UWI: SE/SW/0/9/S/22/E/36/0/0/26/PM/S/1078/W/0/2379/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
12/2/2011	0:00 - 1:30	1.50	CSG	12	C	P		CONTINUE TO RUN A TOTAL OF 92 JTS 4.5" 11.6# I-80 LTC CSG AND THEN 119 JTS OF 4.5" 11.6# I-80 DQX CSG SET BOTTOM FLOAT SHOE 8916.30.42'KB. SET TOP OF FLOAT COLLAR 8871.15'KB. SET TOP OF MESA MARKER JT @ 6362.31' KB. SET TOP OF XO MARKER JT @ 4990.45' KB. NO FILL ON BOTTOM OF HOLE. INSTALL CEMENT HEAD (TOP PLUG INSTALLED) W/ CIRC. HOSE. BLOW DOWN TOP DRIVE. CIRC OUT GAS W/ 20-25' FLARE. MUD WT 11.7 VIS 40. HOLD SAFETY MEETING AND RIG DOWN KIMZEY CSG. HOLD SAFETY MEETING W/ HALLIBURTON.
	1:30 - 3:00	1.50	CSG	05	A	P		
	3:00 - 6:00	3.00	CSG	12	E	P		
	6:00 - 9:30	3.50	CSG	14	A	P		PRESSURE TEST TO 5000 PSI. PUMP 25 BBLS OF FRESH WATER. PUMP 158.9 BBLS (421 SX) OF 12.3 PPG 2.12 YD 11.38 GAL/SK OF LEAD CEMENT. PUMP 233.2 BBLS (1000 SX) OF 14.3# 1.31 YD 5.90 GAL/SK. POZ 50/50 TAIL CEMENT. SHUT DOWN AND FLUSH LINES. DROP TOP PLUG AND DISPLACE W/ 137.9 BBLS OF FRESH WATER TREATED WITH CLAYFIX AND MAGNACIDE. DOWN TO PARTIAL AT END OF JOB. RETURNS WITH 15 BBLS OF WATER AND NO CEMENT. LIFT PSI OF 2380 @ 3 BBLS MIN. BUMP PLUG 3117 PSI. . PRESSURE HELD 5 MINS. FLOAT HELD. FLOW BACK 1.5 BBLS. EST. TOC FOR LEAD 227", EST TOC FOR TAIL 3725". RIG DOWN CEMENTERS. FLUSH STACK WITH FRESH WATER. BLOW OUT MUD LINES. STORED 780 BBLS OF 11.7# MUD IN UPRIGHTS. AND STORED 110 BBLS OF 11.5# MUD IN PILL TANK. NIPPLE DOWN BOPE. NIPPLE DOWN FLOWLINE. P/U STACK. (WAIT 45 MIN FOR WEATHERFORD CSG SLIP HAND W/ TRUCK PROBLEMS) SET SLIPS UNDER STACK @ 100K. CUT OF CSG. TRANSFER MUD. CLEAN SOLIDS OUT W/ SOLIDS CONTROL. DEWATER 100 BBLS OF MUD. (780 BBLS OF 11.6# MUD AND 110 BBLS OF MUD STORED IN PILLTANK.) RELEASE RIG 12/2/2011 09:30.

1 General

1.1 Customer Information

Company	US ROCKIES REGION
Representative	
Address	

1.2 Well/Wellbore Information

Well	NBU 922-36M1CS BLUE	Wellbore No.	OH
Well Name	NBU 922-36M1CS	Wellbore Name	NBU 922-36M1CS
Report No.	1	Report Date	1/19/2012
Project	UTAH-UINTAH	Site	NBU 922-36N PAD
Rig Name/No.		Event	COMPLETION
Start Date	1/19/2012	End Date	2/6/2012
Spud Date	10/17/2011	Active Datum	RKB @5,006.00usft (above Mean Sea Level)
UWI	SE/SW/0/9/S/22/E/36/0/0/26/PM/S/1078/W/0/2379/0/0		

1.3 General

Contractor		Job Method		Supervisor	
Perforated Assembly	PRODUCTION CASING	Conveyed Method			

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	5,150.0 (usft)-8,774.0 (usft)	Start Date/Time	1/27/2012 12:00AM
No. of Intervals	38	End Date/Time	1/27/2012 12:00AM
Total Shots	240	Net Perforation Interval	60.00 (usft)
Avg Shot Density	4.00 (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
1/27/2012 12:00AM	WASATCH/			5,150.0	5,156.0	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
1/27/2012 12:00AM	WASATCH/			5,620.0	5,622.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
1/27/2012 12:00AM	WASATCH/			5,648.0	5,650.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
1/27/2012 12:00AM	WASATCH/			5,794.0	5,796.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
1/27/2012 12:00AM	WASATCH/			6,101.0	6,104.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
1/27/2012 12:00AM	WASATCH/			6,172.0	6,173.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
1/27/2012 12:00AM	WASATCH/			6,350.0	6,352.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
1/27/2012 12:00AM	MESAVERDE/			6,985.0	6,988.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
1/27/2012 12:00AM	MESAVERDE/			7,085.0	7,087.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
1/27/2012 12:00AM	MESAVERDE/			7,124.0	7,125.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
1/27/2012 12:00AM	MESAVERDE/			7,185.0	7,187.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
1/27/2012 12:00AM	MESAVERDE/			7,200.0	7,202.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
1/27/2012 12:00AM	MESAVERDE/			7,298.0	7,299.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
1/27/2012 12:00AM	MESAVERDE/			7,323.0	7,324.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
1/27/2012 12:00AM	MESAVERDE/			7,392.0	7,394.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
1/27/2012 12:00AM	MESAVERDE/			7,416.0	7,417.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
1/27/2012 12:00AM	MESAVERDE/			7,481.0	7,482.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
1/27/2012 12:00AM	MESAVERDE/			7,583.0	7,585.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
1/27/2012 12:00AM	MESAVERDE/			7,720.0	7,722.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
1/27/2012 12:00AM	MESAVERDE/			7,743.0	7,744.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
1/27/2012 12:00AM	MESAVERDE/			7,823.0	7,824.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
1/27/2012 12:00AM	MESAVERDE/			7,874.0	7,875.0	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
1/27/2012 12:00AM	MESAVERDE/			7,955.0	7,956.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
1/27/2012 12:00AM	MESAVERDE/			8,034.0	8,035.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
1/27/2012 12:00AM	MESAVERDE/			8,116.0	8,117.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
1/27/2012 12:00AM	MESAVERDE/			8,125.0	8,126.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
1/27/2012 12:00AM	MESAVERDE/			8,154.0	8,155.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
1/27/2012 12:00AM	MESAVERDE/			8,189.0	8,190.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
1/27/2012 12:00AM	MESAVERDE/			8,211.0	8,212.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
1/27/2012 12:00AM	MESAVERDE/			8,279.0	8,281.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
1/27/2012 12:00AM	MESAVERDE/			8,370.0	8,371.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
1/27/2012 12:00AM	MESAVERDE/			8,397.0	8,398.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
1/27/2012 12:00AM	MESAVERDE/			8,418.0	8,420.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
1/27/2012 12:00AM	MESAVERDE/			8,609.0	8,610.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
1/27/2012 12:00AM	MESAVERDE/			8,711.0	8,712.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
1/27/2012 12:00AM	MESAVERDE/			8,719.0	8,720.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
1/27/2012 12:00AM	MESAVERDE/			8,737.0	8,738.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
1/27/2012 12:00AM	MESAVERDE/			8,772.0	8,774.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	

3 Plots

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 922-36M1CS BLUE		Spud Date: 10/17/2011	
Project: UTAH-UINTAH		Site: NBU 922-36N PAD	Rig Name No: MILES 2/2
Event: COMPLETION		Start Date: 1/19/2012	End Date: 2/6/2012
Active Datum: RKB @5,006.00usft (above Mean Sea Level)		UWI: SE/SW/0/9/S/22/E/36/0/0/26/PM/S/1078/W/0/2379/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
1/9/2012	-							
1/19/2012	10:00 - 12:00	2.00	COMP	33		P		FILL SURFACE CSG. MIRU B&C QUICK TEST. PSI TEST T/ 1000 PSI. HELD FOR 15 MIN LOST 6 PSI. PSI TEST T/ 3500 PSI. HELD FOR 15 MIN LOST 25 PSI. 1ST PSI TEST T/ 7000 PSI. HELD FOR 30 MIN LOST 104 PSI. NO COMMUNICATION OR MIGRATION WITH SURFACE CSG BLEED OFF PSI. MOVE T/ NEXT WELL. SWFW
1/27/2012	7:00 - 12:00	5.00	COMP	37		P		PERF STG 1)PU 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH PERF AS PER PERF DESIGN. POOH. SWFW
1/30/2012	7:00 - 7:15	0.25	COMP	48		P		HSM, PRE FRAC REVIEW / FRAC VALVE OPENING, PRESSURE TEST SURFACE LINES TO 8500#, SET MANUAL POPOFF @=6,800#

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 922-36M1CS BLUE		Spud Date: 10/17/2011	
Project: UTAH-UINTAH		Site: NBU 922-36N PAD	Rig Name No: MILES 2/2
Event: COMPLETION		Start Date: 1/19/2012	End Date: 2/6/2012
Active Datum: RKB @5,006.00usft (above Mean Sea Level)		UWI: SE/SW/0/9/S/22/E/36/0/0/26/PM/S/1078/W/0/2379/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	7:15 - 18:00	10.75	COMP	36	B	P		<p>PERF & FRAC FOLLOWING WELL AS PER DESIGN W/ 30/50 MESH SAND & SLK WTR. ALL CBP'S ARE HALIBURTON 8K CBP'S. REFER TO STIM PJR FOR FLUID, SAND AND CHEMICAL VOLUME PUM'D</p> <p>FRAC STG #1] WHP=1,884#, BRK DN PERFS=3,805#, @=4.7 BPM, INJ RT=33.8, INJ PSI=5,160#, INITIAL ISIP=2,912#, INITIAL FG=.77, FINAL ISIP=2,784#, FINAL FG=.75, AVERAGE RATE=40.6, AVERAGE PRESSURE=4,707#, MAX RATE=50.6, MAX PRESSURE=61,70#, NET PRESSURE INCREASE=-128#, 24/24 100% CALC PERFS OPEN. X OVER TO WIRE LINE</p> <p>PERF STG #2] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @=8,450', PERF MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW</p> <p>FRAC STG #2] WHP=2,335#, BRK DN PERFS=3,586#, @=5.2 BPM, INJ RT=49.7, INJ PSI=5,820#, INITIAL ISIP=2,740#, INITIAL FG=.76, FINAL ISIP=3,008#, FINAL FG=.79, AVERAGE RATE=41, AVERAGE PRESSURE=5,219#, MAX RATE=51.9, MAX PRESSURE=5,964#, NET PRESSURE INCREASE=1,268#, 17/24 71% CALC PERFS OPEN. X OVER TO WIRE LINE</p> <p>PERF STG #3] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @=8,242', PERF MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW.</p> <p>FRAC STG #3] WHP=2,197#, BRK DN PERFS=3717#, @=4.7 BPM, INJ RT=49.8, INJ PSI=5,065#, INITIAL ISIP=2,696#, INITIAL FG=.76, FINAL ISIP=2,950#, FINAL FG=.79, AVERAGE RATE=45.1, AVERAGE PRESSURE=5,328#, MAX RATE=51.3, MAX PRESSURE=5,328#, NET PRESSURE INCREASE=254#, 22/24 92% CALC PERFS OPEN. X OVER TO WIRE LINE.</p> <p>SWFN.</p> <p>HSM, REVIEW ESCAPE ROUTES / OPENING & CLOSING FRAC VALVES</p>
1/31/2012	6:15 - 6:30	0.25	COMP	48		P		

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 922-36M1CS BLUE		Spud Date: 10/17/2011	
Project: UTAH-UINTAH	Site: NBU 922-36N PAD	Rig Name No: MILES 2/2	
Event: COMPLETION	Start Date: 1/19/2012	End Date: 2/6/2012	
Active Datum: RKB @5,006.00usft (above Mean Sea Level)	UWI: SE/SW/0/9/S/22/E/36/0/0/26/PM/S/1078/W/0/2379/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	6:30 - 18:00	11.50	COMP	36	B	P		<p>PERF STG #4] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @=7,986', 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=578#, BRK DN PERFS=3,772#, @=5.2 BPM, INJ RT=48.9, INJ PSI=5,039#, INITIAL ISIP=1,977#, INITIAL FG=.69, FINAL ISIP=2,092#, FINAL FG=.70, AVERAGE RATE=48.3, AVERAGE PRESSURE=4,602#, MAX RATE=49.2, MAX PRESSURE=5,876#, NET PRESSURE INCREASE=115#, 14/24 58% CALC PERFS OPEN. X OVER TO WIRE LINE</p> <p>PERF STG #5] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @=7,615', 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=1,030#, BRK DN PERFS=4,663#, @=4.8 BPM, INJ RT=49.7, INJ PSI=5,390#, INITIAL ISIP=1,842#, INITIAL FG=.67, FINAL ISIP=2,370#, FINAL FG=.74, AVERAGE RATE=49.3, AVERAGE PRESSURE=4,796#, MAX RATE=50.3, MAX PRESSURE=6,174#, NET PRESSURE INCREASE=568#, 15/24 63% CALC PERFS OPEN. X OVER TO WIRE LINE</p> <p>PERF STG #6] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @=7,354', PERF MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW</p> <p>FRAC STG #6] WHP=1000#, BRK DN PERFS=2,875#, @=4.8 BPM, INJ RT=49.7, INJ PSI=4,800#, INITIAL ISIP=1,643#, INITIAL FG=.66, FINAL ISIP=2,175#, FINAL FG=.71, AVERAGE RATE=49.1, AVERAGE PRESSURE=4,396#, MAX RATE=50.4, MAX PRESSURE=6,203#, NET PRESSURE INCREASE=532#, 24/24 100% CALC PERFS OPEN. X OVER TO WIRE LINE</p> <p>PERF STG #7] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @=7,155', PERF MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW. HSM, REVIEW VALVE CLOSING W/ NEW CREW</p>
2/1/2012	6:15 - 6:30	0.25	COMP	48		P		

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 922-36M1CS BLUE		Spud Date: 10/17/2011	
Project: UTAH-UINTAH		Site: NBU 922-36N PAD	Rig Name No: MILES 2/2
Event: COMPLETION		Start Date: 1/19/2012	End Date: 2/6/2012
Active Datum: RKB @5,006.00usft (above Mean Sea Level)		UWI: SE/SW/0/9/S/22/E/36/0/0/26/PM/S/1078/W/0/2379/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	6:30 - 6:30	0.00	COMP	36	B	P		<p>FRAC STG #7] WHP=1,237#, BRK DN PERFS=3,365#, @=4.3 BPM, INJ RT=47.8, INJ PSI=4,810#, INITIAL ISIP=2,200#, INITIAL FG=.75, FINAL ISIP=2,435#, FINAL FG=.78, AVERAGE RATE=49.8, AVERAGE PRESSURE=4,703#, MAX RATE=50, MAX PRESSURE=6,004#, NET PRESSURE INCREASE=235#, 14/24 58% CALC PERFS OPEN. X OVER TO WIRE LINE</p> <p>PERF STG #8] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @=6,382', 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=230#, BRK DN PERFS=1,600#, @=11.1 BPM, INJ RT=49.7, INJ PSI=3,027#, INITIAL ISIP=1,349#, INITIAL FG=.65, FINAL ISIP=1,320#, FINAL FG=.65, AVERAGE RATE=49.8, AVERAGE PRESSURE=2,972#, MAX RATE=51.2, MAX PRESSURE=3,253#, NET PRESSURE INCREASE=-29#, 24/24 100% CALC PERFS OPEN. X OVER TO WIRE LINE</p> <p>PERF STG #9] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @=5,826', 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=68#, BRK DN PERFS=1,231#, @=4.8 BPM, INITIAL ISIP=547#, INITIAL FG=.52, [DID NOT FRAC STG #9 DUE TO LOW FG, DID NOT PERF OR FRAC STG 10</p> <p>P/U RIH W/ HALIBURTON 8K CBP, SET FOR TOP KILL @=5,575'</p> <p>TOTAL FLUID PUMP'D=7,740 BBLS TOTAL SAND PUMP'D=135,987# BOP'S</p>
2/6/2012	7:00 - 7:30	0.50	COMP	48		P		

US ROCKIES REGION
Operation Summary Report

Well: NBU 922-36M1CS BLUE

Spud Date: 10/17/2011

Project: UTAH-UINTAH

Site: NBU 922-36N PAD

Rig Name No: MILES 2/2

Event: COMPLETION

Start Date: 1/19/2012

End Date: 2/6/2012

Active Datum: RKB @5,006.00usft (above Mean Sea Level)

UWI: SE/SW/0/9/S/22/E/36/0/0/26/PW/S/1078/W/0/2379/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	7:30 - 18:00	10.50	COMP	44		P		<p>MIRU, NDWH, NU BOP'S, TEST BOP'S, PU BIT, BIT SUB, SEATING NIPPLE, POBS, TBG, TIH TO PLUG# 1, 5100', MILL 10 PLUGS, CLEAN OUT 50' SAND TO PBD, PU TO 8242', LAND TBG, 259 JTS ND BOP'S, NUWH, POBS, 1700# TURN TO FBC, RDMO</p> <p>PLUG# 1 5106' NO PLUG NO PERF PLUG# 2 5186' PLUG SET 5600' 0 SAND 5 MIN 0# KICK PLUG# 3 5826' 30' SAND 5 MIN 100# KICK PLUG# 4 6382' 30' SAND 5 MIN 100# KICK PLUG# 5 7155' 20' SAND 5 MIN 200# KICK PLUG# 6 7354' 40' SAND 5 MIN 300# KICK PLUG# 7 7615' 50' SAND 5 MIN 800# KICK PLUG# 8 7986' 15' SAND 5 MIN 400# KICK PLUG# 9 8242' 20' SAND 5 MIN 200# KICK PLUG# 10 8450' 20' SAND 5 MIN 5003 KICK</p> <p>PBTD 8871' BTM PERF 8774'</p> <p>TBG 259 JTS 8293.27 KB 15.00' HANGER .83' XNSN 1.875" 2.20' EOT 8242.00'</p> <p>FRAC WTR 7744 BBLs RCVD 2000 BBLs LTR 5744 BBLs</p>

1 General

1.1 Customer Information

Company	US ROCKIES REGION
Representative	
Address	

1.2 Well Information

Well	NBU 922-36M1CS BLUE	Wellbore No.	OH
Well Name	NBU 922-36M1CS	Common Name	NBU 922-36M1CS
Project	UTAH-UINTAH	Site	NBU 922-36N PAD
Vertical Section	259.71 (°)	North Reference	True
Azimuth		Origin E/W	
Origin N/S		UWI	SE/SW/0/9/S/22/E/36/0/0/26/PM/S/1078/W/0/237 9/0/0
Spud Date	10/17/2011	Active Datum	RKB @5,006.00usft (above Mean Sea Level)

2 Survey Name

2.1 Survey Name: Survey #1

Survey Name	Survey #1	Company	WETHERFORD
Started	10/18/2011	Ended	
Tool Name	MWD	Engineer	Anadarko Employee

2.1.1 Tie On Point

MD (usft)	Inc (°)	Azi (°)	TVD (usft)	N/S (usft)	E/W (usft)
11.00	0.00	0.00	11.00	0.00	0.00

2.1.2 Survey Stations

Date	Type	MD (usft)	Inc (°)	Azi (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	TFace (°)
10/18/2011	Tie On	11.00	0.00	0.00	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/18/2011	NORMAL	184.00	1.20	280.33	183.99	0.32	-1.78	1.70	0.69	0.69	0.00	280.33
	NORMAL	266.00	3.25	269.27	265.92	0.45	-4.95	4.79	2.54	2.50	-13.49	-17.39
	NORMAL	351.00	5.02	274.90	350.70	0.74	-11.07	10.76	2.13	2.08	6.62	15.74
	NORMAL	441.00	7.00	272.41	440.20	1.30	-20.47	19.91	2.22	2.20	-2.77	-8.74
	NORMAL	531.00	9.06	272.53	529.31	1.85	-33.03	32.17	2.29	2.29	0.13	0.53
	NORMAL	621.00	10.63	270.44	617.98	2.22	-48.41	47.24	1.79	1.74	-2.32	-13.85
	NORMAL	711.00	12.19	268.78	706.20	2.08	-66.21	64.78	1.77	1.73	-1.84	-12.70
	NORMAL	801.00	13.13	264.73	794.01	0.94	-85.89	84.34	1.44	1.04	-4.50	-45.35
	NORMAL	891.00	14.63	263.66	881.38	-1.25	-107.37	105.87	1.69	1.67	-1.19	-10.23
	NORMAL	981.00	15.88	261.53	968.21	-4.32	-130.85	129.51	1.52	1.39	-2.37	-25.18
	NORMAL	1,071.00	16.94	259.91	1,054.55	-8.43	-155.93	154.93	1.28	1.18	-1.80	-24.13
	NORMAL	1,161.00	17.81	258.78	1,140.44	-13.41	-182.34	181.81	1.04	0.97	-1.26	-21.74
	NORMAL	1,251.00	18.81	258.78	1,225.88	-18.91	-210.08	210.08	1.11	1.11	0.00	0.00
	NORMAL	1,341.00	18.56	256.78	1,311.14	-25.01	-238.25	238.89	0.76	-0.28	-2.22	-112.26
	NORMAL	1,431.00	18.56	254.53	1,396.46	-32.10	-266.00	267.46	0.80	0.00	-2.50	-91.07
	NORMAL	1,521.00	16.44	252.28	1,482.29	-39.80	-291.94	294.36	2.47	-2.36	-2.50	-163.37
	NORMAL	1,611.00	16.69	258.78	1,568.56	-46.19	-316.75	319.91	2.08	0.28	7.22	85.44

2.1.2 Survey Stations (Continued)

Date	Type	MD (usft)	Inc (°)	Azi (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	TFace (°)
10/18/2011	NORMAL	1,701.00	17.44	257.66	1,654.60	-51.59	-342.60	346.31	0.91	0.83	-1.24	-24.20
	NORMAL	1,791.00	17.00	258.16	1,740.56	-57.17	-368.66	372.94	0.52	-0.49	0.56	161.65
	NORMAL	1,881.00	17.81	260.66	1,826.44	-62.10	-395.11	399.85	1.22	0.90	2.78	43.91
	NORMAL	1,971.00	18.19	259.90	1,912.04	-66.80	-422.53	427.66	0.50	0.42	-0.84	-32.08
	NORMAL	2,061.00	18.25	260.66	1,997.53	-71.55	-450.26	455.80	0.27	0.07	0.84	76.19
	NORMAL	2,151.00	18.63	259.91	2,082.90	-76.36	-478.32	484.27	0.50	0.42	-0.83	-32.33
10/19/2011	NORMAL	2,241.00	18.13	260.03	2,168.31	-81.30	-506.27	512.65	0.56	-0.56	0.13	175.73
	NORMAL	2,310.00	18.30	258.87	2,233.86	-85.25	-527.47	534.21	0.58	0.25	-1.68	-65.43

2.2 Survey Name: Survey #2

Survey Name	Survey #2	Company	NATIVE NAVIGATION
Started	11/22/2011	Ended	
Tool Name	EM	Engineer	Anadarko Employee

2.2.1 Tie On Point

MD (usft)	Inc (°)	Azi (°)	TVD (usft)	N/S (usft)	E/W (usft)
2,310.00	18.30	258.87	2,233.77	-85.36	-527.84

2.2.2 Survey Stations

Date	Type	MD (usft)	Inc (°)	Azi (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	TFace (°)
11/22/2011	Tie On	2,310.00	18.30	258.87	2,233.77	-85.36	-527.84	534.60	0.00	0.00	0.00	0.00
11/22/2011	NORMAL	2,355.00	18.28	256.01	2,276.50	-88.43	-541.62	548.71	1.99	-0.04	-6.36	-92.63
	NORMAL	2,446.00	16.87	251.61	2,363.25	-96.05	-568.00	576.02	2.13	-1.55	-4.84	-138.79
	NORMAL	2,536.00	17.93	254.16	2,449.13	-103.95	-593.72	602.74	1.45	1.18	2.83	36.95
11/25/2011	NORMAL	2,600.00	17.84	258.64	2,510.04	-108.57	-612.81	622.35	2.15	-0.14	7.00	95.87
	NORMAL	2,691.00	15.95	259.64	2,597.11	-113.56	-638.78	648.79	2.10	-2.08	1.10	171.74
11/26/2011	NORMAL	2,781.00	16.48	259.26	2,683.53	-118.17	-663.49	673.92	0.60	0.59	-0.42	-11.50
	NORMAL	2,872.00	16.74	259.88	2,770.73	-122.87	-689.07	699.93	0.35	0.29	0.68	34.58
	NORMAL	2,963.00	17.14	261.63	2,857.79	-127.13	-715.24	726.44	0.71	0.44	1.92	52.73
	NORMAL	3,053.00	17.80	263.39	2,943.64	-130.64	-742.02	753.42	0.94	0.73	1.96	39.52
	NORMAL	3,144.00	16.83	264.53	3,030.51	-133.50	-768.95	780.43	1.13	-1.07	1.25	161.26
	NORMAL	3,235.00	16.61	263.57	3,117.66	-136.21	-794.99	806.54	0.39	-0.24	-1.05	-129.00
	NORMAL	3,326.00	16.17	262.78	3,204.97	-139.26	-820.49	832.17	0.54	-0.48	-0.87	-153.51
	NORMAL	3,417.00	17.14	257.33	3,292.15	-143.79	-846.14	858.22	2.02	1.07	-5.99	-60.79
	NORMAL	3,508.00	17.62	256.45	3,379.00	-149.96	-872.62	885.37	0.60	0.53	-0.97	-29.13
	NORMAL	3,599.00	17.27	256.89	3,465.81	-156.25	-899.16	912.61	0.41	-0.38	0.48	159.56
	NORMAL	3,689.00	17.40	257.50	3,551.72	-162.20	-925.31	939.40	0.25	0.14	0.68	54.72
	NORMAL	3,780.00	18.28	258.21	3,638.35	-168.06	-952.57	967.26	1.00	0.97	0.78	14.22
	NORMAL	3,871.00	17.75	262.78	3,724.89	-172.72	-980.30	995.38	1.66	-0.58	5.02	112.72
	NORMAL	3,962.00	18.19	263.66	3,811.45	-176.03	-1,008.18	1,023.41	0.57	0.48	0.97	32.10
	NORMAL	4,053.00	19.16	260.14	3,897.66	-180.16	-1,037.01	1,052.51	1.63	1.07	-3.87	-50.96
	NORMAL	4,143.00	19.82	261.89	3,982.50	-184.84	-1,066.67	1,082.53	0.98	0.73	1.94	42.33
	NORMAL	4,234.00	18.85	260.76	4,068.37	-189.37	-1,096.45	1,112.64	1.14	-1.07	-1.24	-159.44
	NORMAL	4,325.00	17.45	259.49	4,154.84	-194.22	-1,124.38	1,140.99	1.60	-1.54	-1.40	-164.82
	NORMAL	4,416.00	19.41	261.90	4,241.17	-198.84	-1,152.76	1,169.74	2.31	2.15	2.65	22.39
	NORMAL	4,507.00	20.13	263.48	4,326.81	-202.75	-1,183.29	1,200.48	0.99	0.79	1.74	37.33
	NORMAL	4,598.00	20.52	265.24	4,412.14	-205.85	-1,214.75	1,231.98	0.80	0.43	1.93	58.29
	NORMAL	4,688.00	21.01	266.03	4,496.30	-208.28	-1,246.56	1,263.72	0.63	0.54	0.88	30.12
	NORMAL	4,779.00	20.35	265.50	4,581.43	-210.65	-1,278.61	1,295.67	0.75	-0.73	-0.58	-164.42

2.2.2 Survey Stations (Continued)

Date	Type	MD (usft)	Inc (°)	Azi (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (%/100usft)	Build (%/100usft)	Turn (%/100usft)	TFace (°)
11/27/2011	NORMAL	4,870.00	21.18	266.03	4,666.52	-213.03	-1,310.78	1,327.75	0.94	0.91	0.58	13.00
	NORMAL	4,961.00	20.92	266.64	4,751.45	-215.12	-1,343.40	1,360.22	0.37	-0.29	0.67	140.16
	NORMAL	5,052.00	20.08	264.97	4,836.69	-217.44	-1,375.18	1,391.91	1.12	-0.92	-1.84	-145.93
	NORMAL	5,142.00	19.91	266.38	4,921.26	-219.76	-1,405.87	1,422.51	0.57	-0.19	1.57	110.08
	NORMAL	5,233.00	18.37	262.69	5,007.23	-222.57	-1,435.56	1,452.22	2.15	-1.69	-4.05	-143.58
	NORMAL	5,324.00	15.90	264.53	5,094.19	-225.58	-1,462.19	1,478.97	2.78	-2.71	2.02	168.50
	NORMAL	5,415.00	12.08	261.96	5,182.47	-228.10	-1,484.04	1,500.91	4.25	-4.20	-2.82	-172.01
	NORMAL	5,505.00	9.40	248.63	5,270.90	-232.10	-1,500.21	1,517.54	4.04	-2.98	-14.81	-143.59
	NORMAL	5,596.00	7.29	243.18	5,360.93	-237.41	-1,512.29	1,530.37	2.47	-2.32	-5.99	-162.13
	NORMAL	5,687.00	6.37	237.11	5,451.29	-242.76	-1,521.68	1,540.57	1.28	-1.01	-6.67	-144.87
	NORMAL	5,778.00	6.24	239.75	5,541.74	-247.99	-1,530.19	1,549.88	0.35	-0.14	2.90	115.46
	NORMAL	5,868.00	5.89	239.49	5,631.23	-252.80	-1,538.39	1,558.81	0.39	-0.39	-0.29	-175.64
	NORMAL	5,960.00	5.14	234.21	5,722.81	-257.61	-1,545.80	1,566.96	0.98	-0.82	-5.74	-148.53
	NORMAL	6,050.00	5.19	239.84	5,812.44	-262.01	-1,552.59	1,574.42	0.57	0.06	6.26	87.17
	NORMAL	6,141.00	4.35	237.20	5,903.13	-265.95	-1,559.05	1,581.48	0.95	-0.92	-2.90	-166.67
	NORMAL	6,232.00	3.03	250.56	5,993.94	-268.62	-1,564.22	1,587.05	1.72	-1.45	14.68	153.47
	NORMAL	6,323.00	2.07	268.40	6,084.85	-269.46	-1,568.13	1,591.05	1.36	-1.05	19.60	149.10
	NORMAL	6,414.00	1.58	285.89	6,175.80	-269.17	-1,570.98	1,593.80	0.81	-0.54	19.22	139.86
	NORMAL	6,504.00	1.36	289.41	6,265.77	-268.47	-1,573.18	1,595.84	0.26	-0.24	3.91	159.44
	NORMAL	6,595.00	0.97	303.91	6,356.75	-267.68	-1,574.84	1,597.33	0.53	-0.43	15.93	150.01
	NORMAL	6,686.00	0.92	307.51	6,447.74	-266.81	-1,576.06	1,598.37	0.09	-0.05	3.96	131.89
	NORMAL	6,777.00	0.31	191.76	6,538.74	-266.60	-1,576.69	1,598.95	1.20	-0.67	-127.20	-165.17
	NORMAL	6,867.00	0.35	217.87	6,628.74	-267.06	-1,576.91	1,599.25	0.17	0.04	29.01	88.41
11/28/2011	NORMAL	6,958.00	1.23	179.28	6,719.73	-268.26	-1,577.07	1,599.62	1.08	0.97	-42.41	-51.45
	NORMAL	7,049.00	0.97	175.50	6,810.71	-270.00	-1,576.99	1,599.86	0.30	-0.29	-4.15	-166.29
	NORMAL	7,139.00	1.27	165.57	6,900.69	-271.73	-1,576.68	1,599.86	0.40	0.33	-11.03	-37.93
	NORMAL	7,230.00	1.63	157.22	6,991.66	-273.90	-1,575.93	1,599.51	0.46	0.40	-9.18	-34.63
	NORMAL	7,321.00	1.67	140.70	7,082.63	-276.11	-1,574.59	1,598.59	0.52	0.04	-18.15	-93.48
	NORMAL	7,412.00	1.98	156.87	7,173.58	-278.59	-1,573.13	1,597.60	0.66	0.34	17.77	67.20
	NORMAL	7,502.00	1.19	157.13	7,263.55	-280.88	-1,572.16	1,597.05	0.88	-0.88	0.29	179.61
	NORMAL	7,593.00	1.01	153.35	7,354.53	-282.47	-1,571.43	1,596.62	0.21	-0.20	-4.15	-159.93
	NORMAL	7,684.00	0.83	158.80	7,445.52	-283.80	-1,570.83	1,596.26	0.22	-0.20	5.99	156.78
	NORMAL	7,775.00	0.31	105.98	7,536.51	-284.48	-1,570.36	1,595.92	0.76	-0.57	-58.04	-158.98
	NORMAL	7,866.00	0.97	119.25	7,627.51	-284.92	-1,569.45	1,595.10	0.74	0.73	14.58	19.35
	NORMAL	7,956.00	1.01	152.91	7,717.49	-286.00	-1,568.43	1,594.29	0.64	0.04	37.40	103.01
11/29/2011	NORMAL	8,049.00	0.70	123.56	7,810.48	-287.05	-1,567.58	1,593.64	0.57	-0.33	-31.56	-139.37
	NORMAL	8,138.00	1.05	177.61	7,899.47	-288.16	-1,567.09	1,593.36	0.96	0.39	60.73	95.61
	NORMAL	8,228.00	1.49	164.60	7,989.45	-290.11	-1,566.75	1,593.37	0.58	0.49	-14.46	-39.86
	NORMAL	8,319.00	1.41	201.52	8,080.43	-292.29	-1,566.84	1,593.85	1.01	-0.09	40.57	113.18
	NORMAL	8,410.00	1.41	184.47	8,171.40	-294.45	-1,567.34	1,594.73	0.46	0.00	-18.74	-98.52
	NORMAL	8,501.00	0.88	181.30	8,262.38	-296.27	-1,567.44	1,595.16	0.59	-0.58	-3.48	-174.77
	NORMAL	8,592.00	1.05	179.81	8,353.37	-297.80	-1,567.46	1,595.44	0.19	0.19	-1.64	-9.14
	NORMAL	8,682.00	1.19	140.26	8,443.35	-299.34	-1,566.86	1,595.13	0.85	0.16	-43.94	-99.91
	NORMAL	8,773.00	1.58	161.62	8,534.32	-301.26	-1,565.86	1,594.49	0.70	0.43	23.47	63.93
	NORMAL	8,864.00	1.67	161.97	8,625.29	-303.71	-1,565.05	1,594.13	0.10	0.10	0.38	6.47
	NORMAL	8,881.00	2.15	149.75	8,642.28	-304.22	-1,564.81	1,593.99	3.69	2.82	-71.88	-46.53
	NORMAL	8,926.00	2.15	149.75	8,687.25	-305.68	-1,563.96	1,593.41	0.00	0.00	0.00	0.00

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
		5. LEASE DESIGNATION AND SERIAL NUMBER: ML-22650
SUNDRY NOTICES AND REPORTS ON WELLS		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
1. TYPE OF WELL Gas Well		8. WELL NAME and NUMBER: NBU 922-36M1CS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		9. API NUMBER: 43047515950000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6507	9. FIELD and POOL or WILDCAT: NATURAL BUTTES
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1078 FSL 2379 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESW Section: 36 Township: 09.0S Range: 22.0E 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 checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 12/29/2015 <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PLUG BACK <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> WILDCAT WELL DETERMINATION <input checked="" type="checkbox"/> OTHER	
	OTHER: WELLBORE CLEANOUT	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.		
<p>A WORKOVER/WELLBORE CLEANOUT HAS BEEN COMPLETED ON THE NBU 922-36M1CS WELL. PLEASE SEE THE ATTACHED OPERATIONS SUMMARY REPORT FOR DETAILS.</p>		
<p>Accepted by the Utah Division of Oil, Gas and Mining</p> <p>FOR RECORD ONLY</p> <p>January 06, 2016</p>		
NAME (PLEASE PRINT) Kristina Geno	PHONE NUMBER 720 929-6824	TITLE Regulatory Analyst
SIGNATURE N/A		DATE 12/31/2015

US ROCKIES REGION
Operation Summary Report

Well: NBU 922-36M1CS BLUE				Spud date: 10/17/2011				
Project: UTAH-UINTAH			Site: NBU 922-36N PAD			Rig name no.: ROCKY MOUNTAIN WELL SERVICE 1/1		
Event: WELL WORK EXPENSE			Start date: 12/17/2015		End date: 12/22/2015			
Active datum: RKB @5,006.00usft (above Mean Sea Level)			UWI: SE/SW/0/9/S/22/E/36/0/0/26/PM/S/1078/W/0/2379/0/0					
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD from (usft)	Operation
12/17/2015	7:00 - 7:15	0.25	MAINT	48	A	P		HSM, BACKING RIG INTO PLACE
	7:15 - 11:00	3.75	MAINT	30	A	P		SICP=920#, SITP=920#, MIRU, SPOT EQUIP, HOOK UP FLOW LINES. BLOW WELL DOWN. CONTROL WELL W/ 25 BBLS DOWN TBG AND 25 BBLS DOWN CSG. N/D WELL HEAD P/U ON TBG STING, NOT STUCK LAND BACK, N/U BOPS. R/U TBG EQUIP. MIRU SCAN TECH
	11:00 - 16:00	5.00	MAINT	45	A	P		SCAN 259 JNTS 2-3/8 L-80 TBG, 54 JNTS YELLOW BAND 8 JNTS BLUE BAND 197 JNTS RED BAND [JUNK] HEAVY PITTING ON "ID" HOLES IN TBG STARTING ON JNT 187 THROUGH 196 [9 JNTS W/ HOLES] 259 JNTS TOTAL, CONTROL WELL W/ 130 BBLS ON TRIP OUT. SWIFN.
12/18/2015	7:00 - 7:15	0.25	MAINT	48		P		HSM, UNLOADING TBG
	7:15 - 16:00	8.75	MAINT	31	I	P		SICP=625#, BLOW WELL DOWN CONTROL W/ 30 BBLS, MOVE IN UNLOAD TBG. P/U 3-7/8 MILL, TALLEY AND P/U 246 JNTS 2-3/8 P-110 TBG. TAG @=8,010', POOH W/ 42 STANDS. EOT @=5,594', PUMP 22 BBLS DOWN TBG. DRAIN EQUIP, SDFWE
12/21/2015	7:00 - 7:15	0.25	MAINT	48		P		HSM, P/U POWER SWIVEL
	7:15 - 8:30	1.25	MAINT	31	I	P		SICP=680#, SITP=620#, BLOW WELL DOWN. CONTROL TBG W/ 15 BBLS, RIH W/ TBG, TAG @=8,010'. P/U POWER SWIVEL, HOOK UP WEATHERFORD AIR FOAM / N2 UNIT.
	8:30 - 9:30	1.00	MAINT	31	H	P		BREAK CIRC.
	9:30 - 17:00	7.50	MAINT	44	D	P		C/O FROM 8,010' FELL THROUGH @=8,031' HANG POWER SWIVEL BACK, RIH W/ TBG TAG @=8,779', P/U POWER BREAK CIRC, C/O TO 8,854' CIRC HOLE FOR 30 MIN. PUMP 15 BBLS DOWN TBG. R/D POWER SWIVEL, L/D 19 JNTS ON RACKS, POOH W/ 254 JNTS 2-3/8 P-110 TBG. L/D MILL. SWIFN.
12/22/2015	7:00 - 7:15	0.25	MAINT	48		P		HSM, BROACHING TBG
	7:15 - 12:00	4.75	MAINT	31	I	P		SICP=720#, BLOW WELL DOWN. CONTROL W/ 20 BBLS, P/U 1.87 PROFILE NOTCHED COLLAR. RIH BROACHING TBG, W/ 254 JNTS 2-3/8 P-110 TBG, P/U HANGER LAND TBG W/ EOT @=8,268.13. R/D TBG EQUIP, N/D BOPS, N/U WELL HEAD BLOW WELL AROUND W/ AIR FOAM / N2 UNIT. RDMO
12/29/2015	7:00 - 11:00	4.00	PROD	42		P		SWABBING FL 1400

