

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 922-3611CS
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	2021 FSL 785 FEL	NESE	36	9.0 S	22.0 E	S
Top of Uppermost Producing Zone	2237 FSL 494 FEL	NESE	36	9.0 S	22.0 E	S
At Total Depth	2237 FSL 494 FEL	NESE	36	9.0 S	22.0 E	S

21. COUNTY UINTAH	22. DISTANCE TO NEAREST LEASE LINE (Feet) 494	23. NUMBER OF ACRES IN DRILLING UNIT 640
24. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 281	26. PROPOSED DEPTH MD: 8701 TVD: 8673	
27. ELEVATION - GROUND LEVEL 5029	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 - 2300	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 - 8701	11.2	I-80 LT&C	12.5	Premium Lite High Strength	280	3.38	11.0
							50/50 Poz	1170	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 43047515880000	APPROVAL  Permit Manager	

Kerr-McGee Oil & Gas Onshore. L.P.**NBU 922-361CS**

Surface: 2021 FSL / 785 FEL NESE
 BHL: 2237 FSL / 494 FEL NESE

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	1207	
Birds Nest	1487	Water
Mahogany	1853	Water
Wasatch	4279	Gas
Mesaverde	6490	Gas
MVU2	7486	Gas
MVL1	8043	Gas
TVD	8673	
TD	8701	

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 8673' TVD, approximately equals
 5,724 psi 0.64 psi/ft = actual bottomhole gradient

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

Maximum anticipated surface pressure equals approximately 3,630 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.

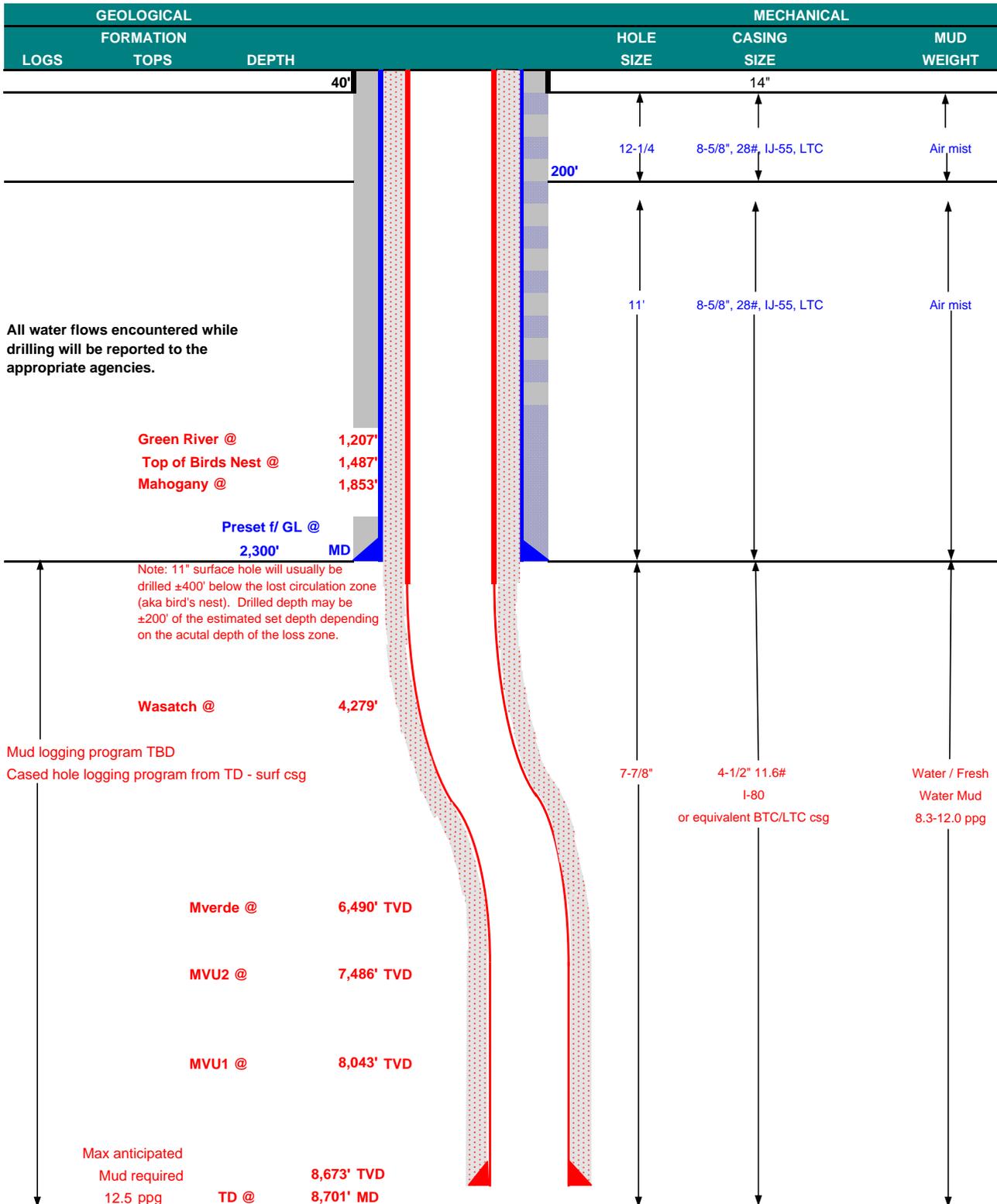
10. Other Information:

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 6, 2011	
WELL NAME	NBU 922-361CS		TD	8,673'	TVD 8,701' MD
FIELD	Natural Buttes	COUNTY	Uintah	STATE	Utah
SURFACE LOCATION	NESE	2021 FSL	785 FEL	Sec 36 T 9S R 22E	FINISHED ELEVATION 5028.8
	Latitude: 39.990814		Longitude: -109.381005		NAD 27
BTM HOLE LOCATION	NESE	2237 FSL	494 FEL	Sec 36 T 9S R 22E	
	Latitude: 39.991406		Longitude: -109.37997		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	LTC	BTC
CONDUCTOR	14"	0-40'							
SURFACE	8-5/8"	0 to 2,300	28.00	IJ-55	LTC	3,390	1,880	348,000	N/A
PRODUCTION	4-1/2"	0 to 8,701	11.60	I-80	LTC/BTC	2,35	1,75	6.17	N/A
						7,780	6,350	279,000	367,000
						1.11	1.13	3.42	4.49

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	1,800'	65/35 Poz + 6% Gel + 10 pps gilsonite + 0.25 pps Flocele + 3% salt BWOW	170	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	3,771'	Premium Lite II +0.25 pps celloflake + 5 pps gilsonite + 10% gel + 0.5% extender	280	20%	11.00	3.38
	TAIL	4,930'	50/50 Poz/G + 10% salt + 2% gel + 0.1% R-3	1,170	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

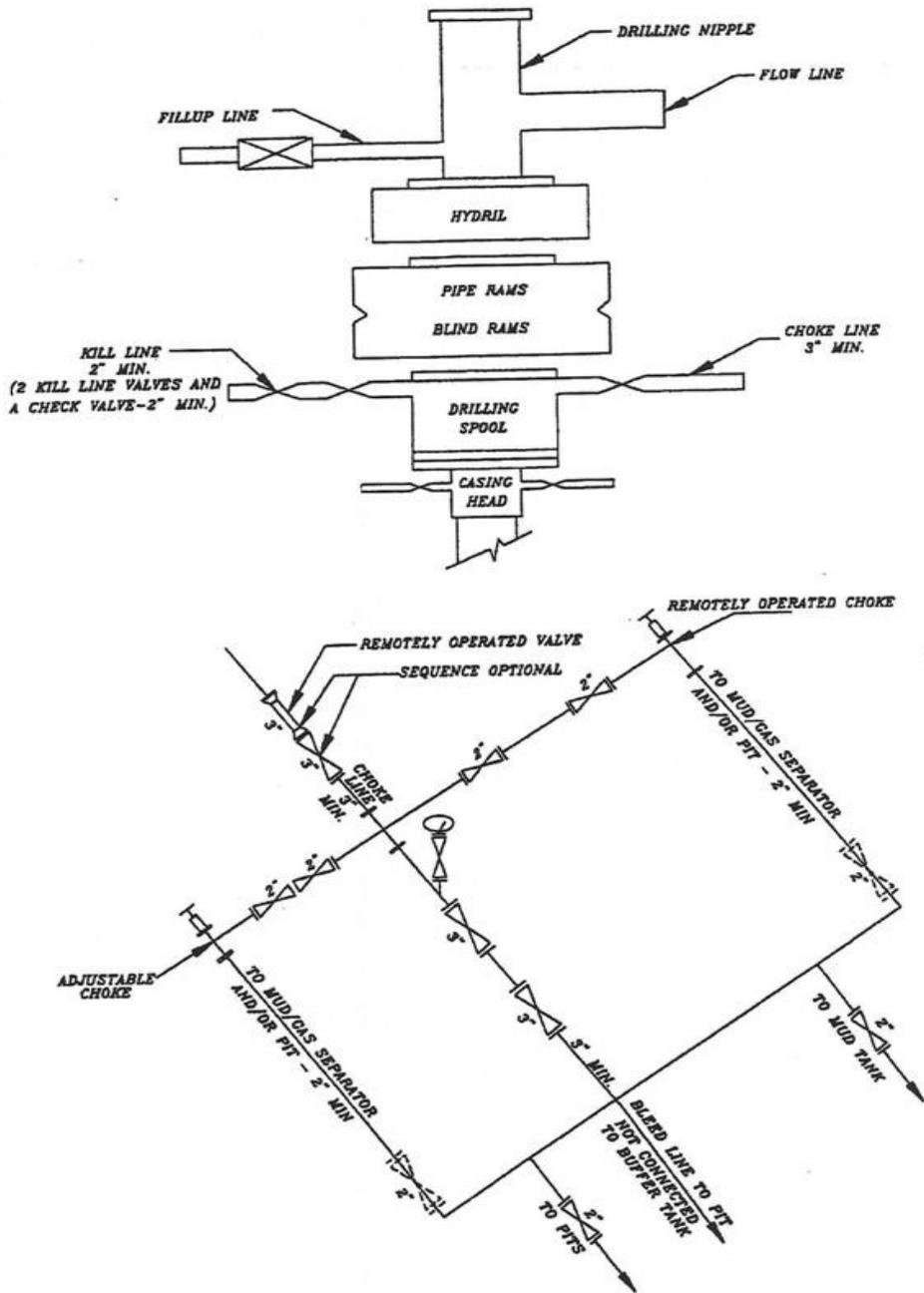
DATE: _____

DRILLING SUPERINTENDENT:

Kenny Gathings / Lovel Young

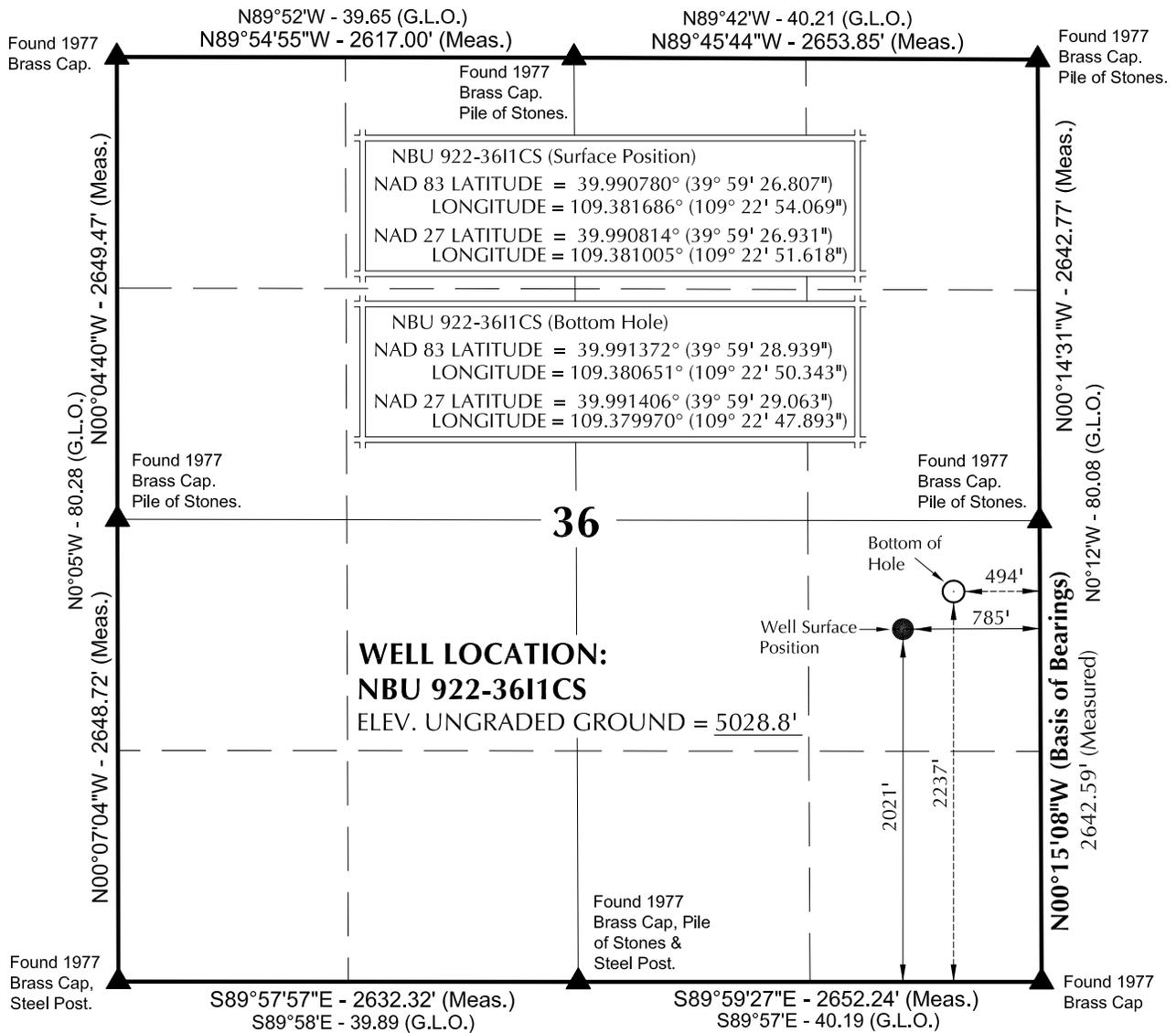
DATE: _____

EXHIBIT A
NBU 922-3611CS



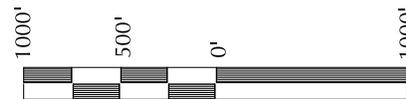
SCHEMATIC DIAGRAM OF 5,000 PSI BOP STACK

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 N53°18'02"E 361.49' 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'.



SCALE

SURVEYOR'S CERTIFICATE

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

John R. Slaugh
 PROFESSIONAL LAND SURVEYOR
 REGISTRATION NO. 6028691
 STATE OF UTAH

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

WELL PAD: NBU 922-361

NBU 922-3611CS
WELL PLAT

2237' FSL, 494' FEL (Bottom Hole)
NE ¼ SE 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

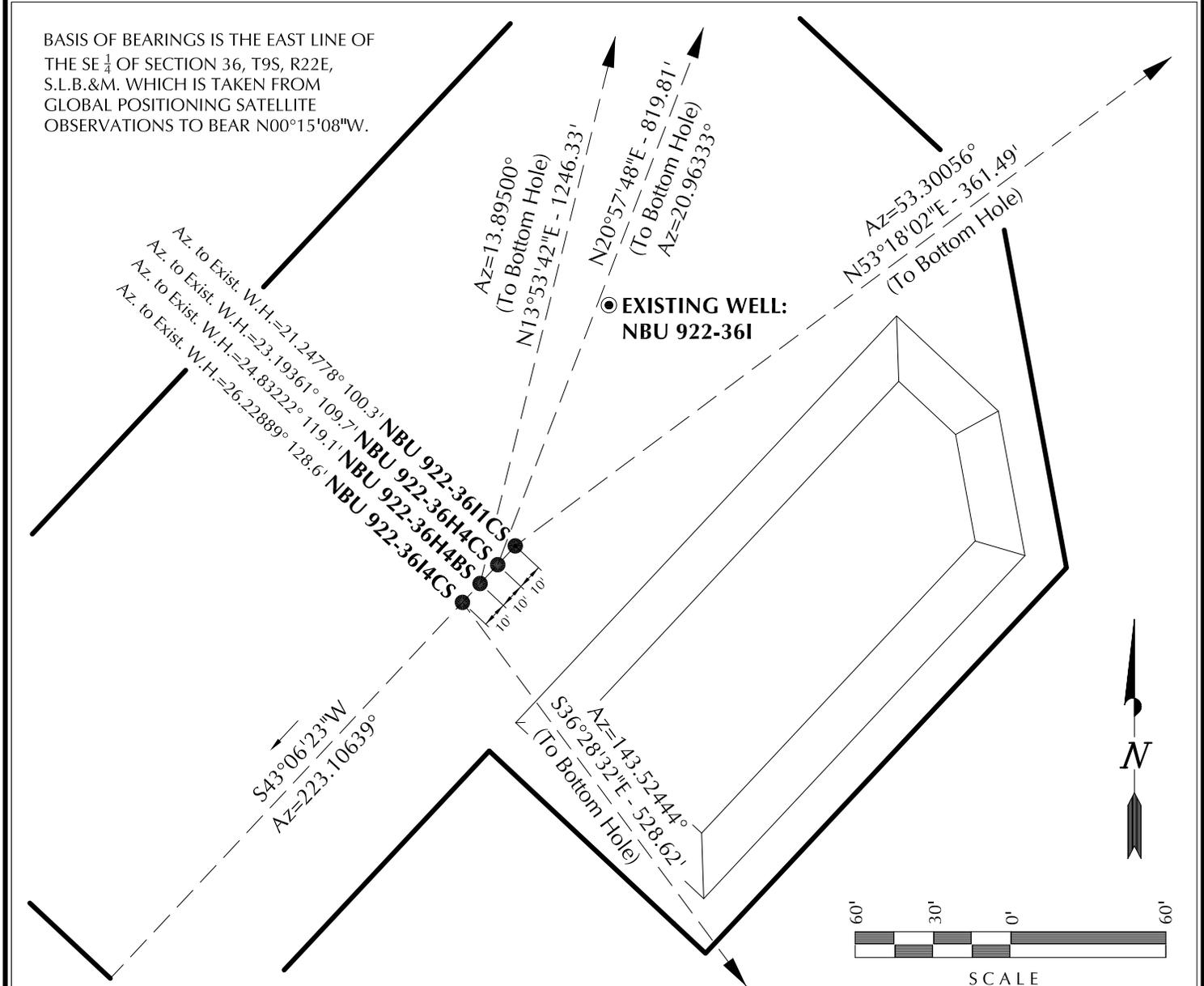
(435) 789-1365

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

DATE SURVEYED: 11-08-10	SURVEYED BY: M.S.B.	SHEET NO: 1 1 OF 16
DATE DRAWN: 11-18-10	DRAWN BY: B.M.	
SCALE: 1" = 1000'	Date Last Revised: 12-14-10 M.W.W.	

WELL NAME	SURFACE POSITION					BOTTOM HOLE				
	NAD83		NAD27		FOOTAGES	NAD83		NAD27		FOOTAGES
	LATITUDE	LONGITUDE	LATITUDE	LONGITUDE		LATITUDE	LONGITUDE	LATITUDE	LONGITUDE	
NBU 922-361CS	39°59'26.807"	109°22'54.069"	39°59'26.931"	109°22'51.618"	2021' FSL	39°59'28.939"	109°22'50.343"	39°59'29.063"	109°22'47.893"	2237' FSL
NBU 922-36H4CS	39°59'26.735"	109°22'54.156"	39°59'26.859"	109°22'51.706"	2014' FSL	39°59'34.296"	109°22'50.380"	39°59'34.420"	109°22'47.930"	2508' FNL
NBU 922-36H4BS	39°59'26.663"	109°22'54.244"	39°59'26.787"	109°22'51.794"	2006' FSL	39°59'38.614"	109°22'50.386"	39°59'38.738"	109°22'47.935"	2071' FNL
NBU 922-3614CS	39°59'26.591"	109°22'54.332"	39°59'26.715"	109°22'51.882"	1999' FSL	39°59'22.389"	109°22'50.301"	39°59'22.512"	109°22'47.851"	1574' FSL
NBU 922-361	39°59'27.731"	109°22'53.601"	39°59'27.854"	109°22'51.150"	2114' FSL	39°59'27.731"	109°22'53.601"	39°59'27.854"	109°22'51.150"	2114' FSL

RELATIVE COORDINATES - From Surface Position to Bottom Hole											
WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST
NBU 922-361CS	216.0'	289.8'	NBU 922-36H4CS	765.5'	293.3'	NBU 922-36H4BS	1,209.9'	299.3'	NBU 922-3614CS	-425.1'	314.3'



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

WELL PAD - NBU 922-361

WELL PAD INTERFERENCE PLAT
WELLS - NBU 922-361CS, NBU 922-36H4CS,
NBU 922-36H4BS & NBU 922-3614CS
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

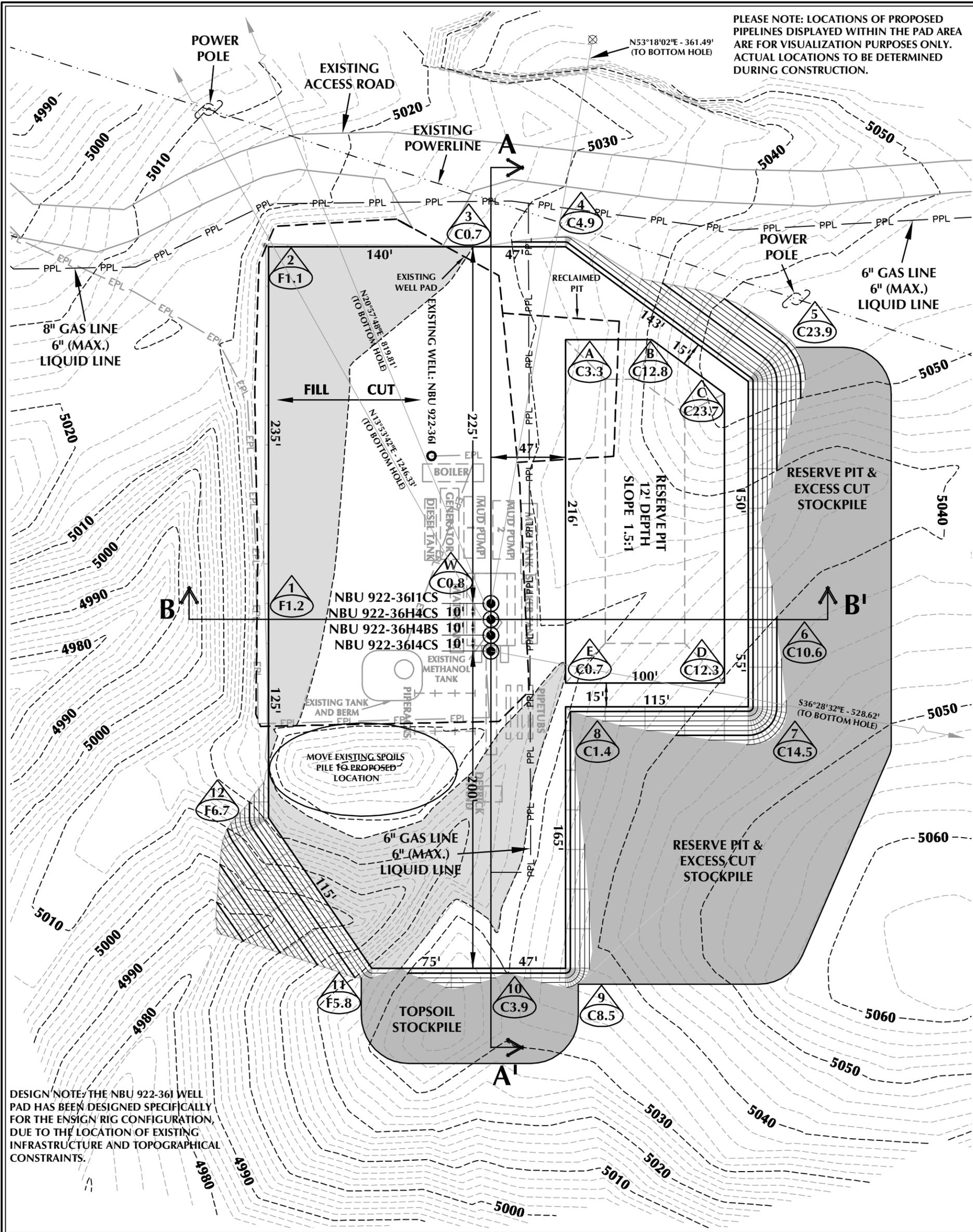
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209 NORTH 300 WEST - VERNAL, UTAH 84078

DATE SURVEYED: 11-08-10	SURVEYED BY: M.S.B.	SHEET NO: 5 5 OF 16
DATE DRAWN: 11-18-10	DRAWN BY: B.M.	
SCALE: 1" = 60'	Date Last Revised: 12-14-10 M.W.W.	

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



DESIGN NOTE: THE NBU 922-361 WELL PAD HAS BEEN DESIGNED SPECIFICALLY FOR THE ENSIGN RIG CONFIGURATION, DUE TO THE LOCATION OF EXISTING INFRASTRUCTURE AND TOPOGRAPHICAL CONSTRAINTS.

WELL PAD - NBU 922-361 DESIGN SUMMARY

EXISTING GRADE @ CENTER OF WELL PAD = 5028.8'
 FINISHED GRADE ELEVATION = 5028.0'
 CUT SLOPES = 1.5:1
 FILL SLOPES = 1.5:1
 TOTAL WELL PAD AREA = 2.98 ACRES
 TOTAL DAMAGE AREA = 5.58 ACRES
 SHRINKAGE FACTOR = 1.10
 SWELL FACTOR = 1.00

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

WELL PAD - NBU 922-361

WELL PAD - LOCATION LAYOUT
 NBU 922-361CS, NBU 922-36H4CS,
 NBU 922-36H4BS & NBU 922-36I4CS
 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

WELL PAD QUANTITIES

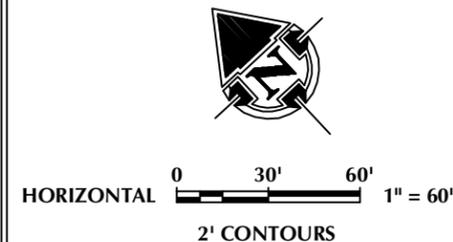
TOTAL CUT FOR WELL PAD = 14,506 C.Y.
 TOTAL FILL FOR WELL PAD = 6,449 C.Y.
 TOPSOIL @ 6" DEPTH = 1,532 C.Y.
 EXCESS MATERIAL = 8,057 C.Y.

RESERVE PIT QUANTITIES

TOTAL CUT FOR RESERVE PIT
 +/- 7,020 C.Y.
 RESERVE PIT CAPACITY (2' OF FREEBOARD)
 +/- 26,630 BARRELS

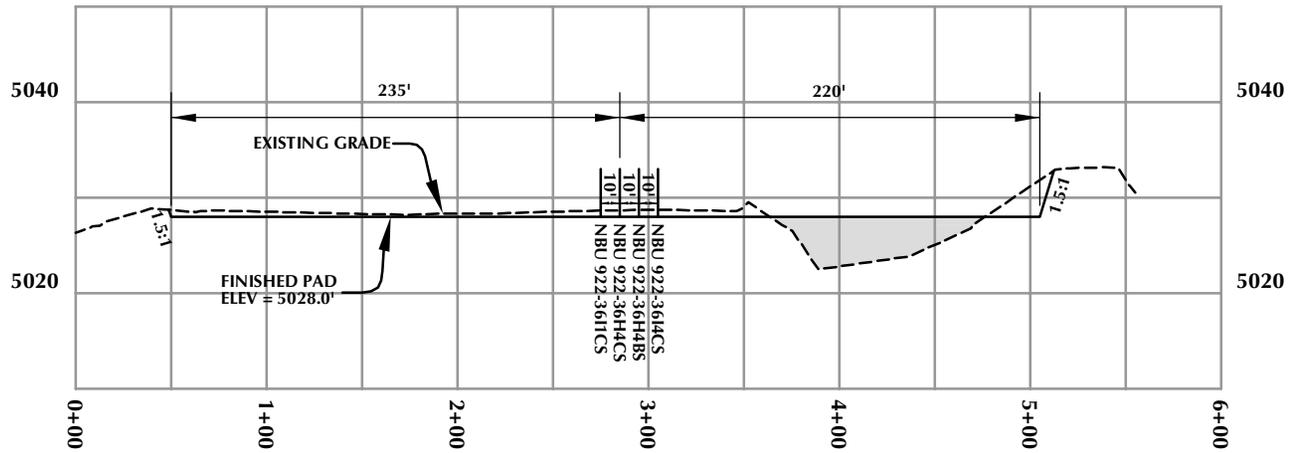
WELL PAD LEGEND

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

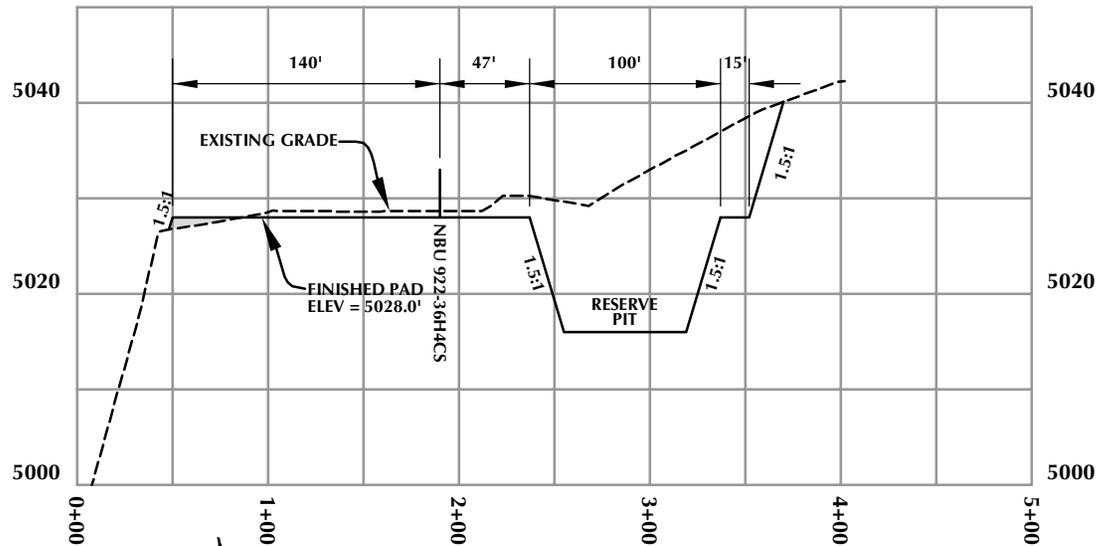


SCALE: 1"=60' DATE: 12/3/10 SHEET NO:
 REVISED: **6** 6 OF 16

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 922-361

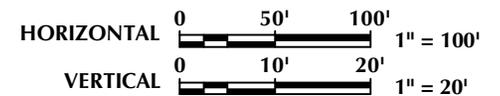
WELL PAD - CROSS SECTIONS
NBU 922-3611CS, NBU 922-36H4CS,
NBU 922-36H4BS & NBU 922-3614CS
LOCATED IN SECTION 36, T9S, R22E,
S.L.B.&M., UINTAH COUNTY, UTAH



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Scale: 1"=100'

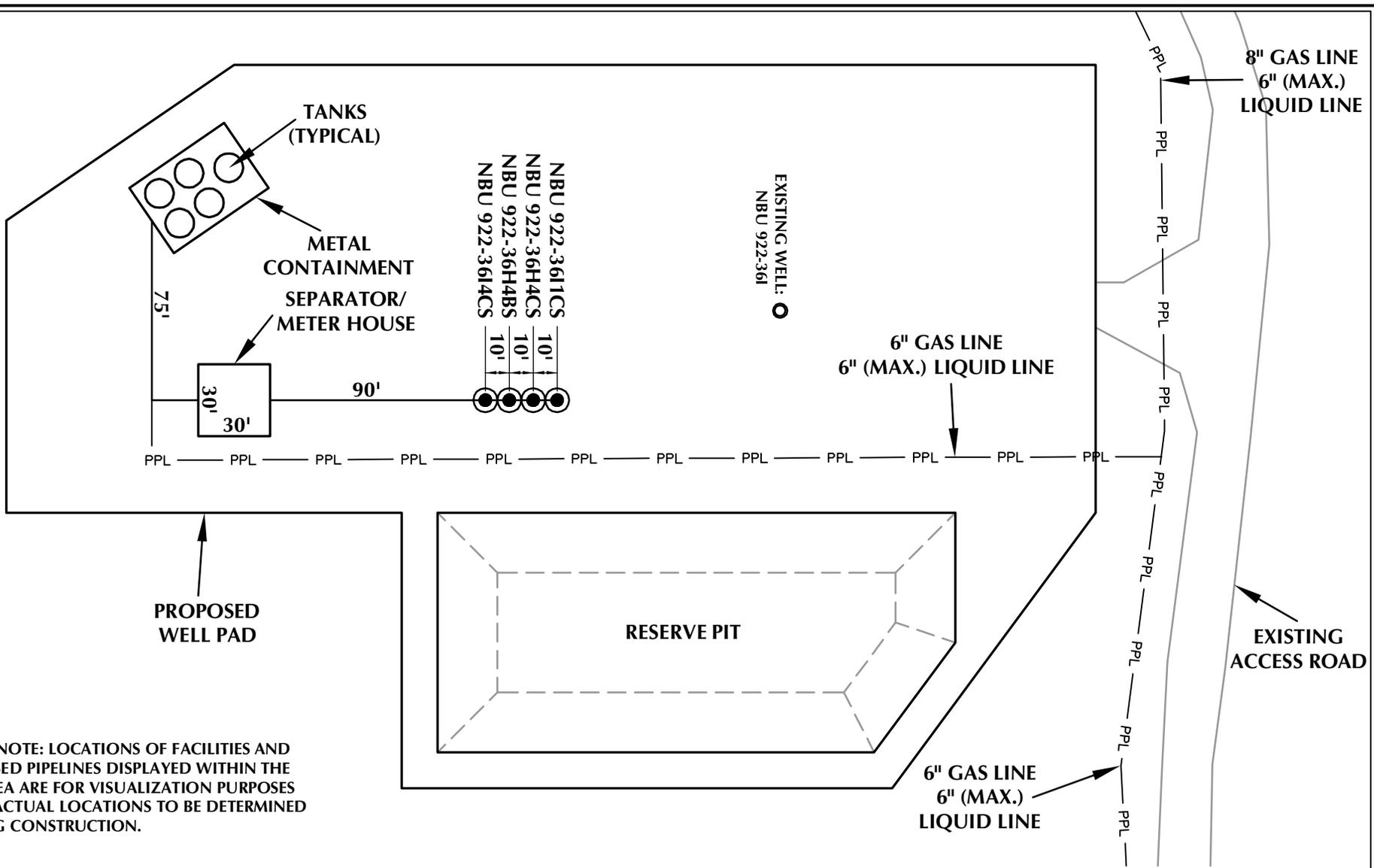
Date: 12/3/10

SHEET NO:

REVISED:

7

7 OF 16



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 922-36I

WELL PAD - FACILITIES DIAGRAM
NBU 922-3611CS, NBU 922-36H4CS,
NBU 922-36H4BS & NBU 922-36I4CS
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 LEGEND

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



HORIZONTAL 1" = 60'

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

Scale: 1"=60'
REVISED:

Date: 12/3/10

SHEET NO:
8
8 OF 16

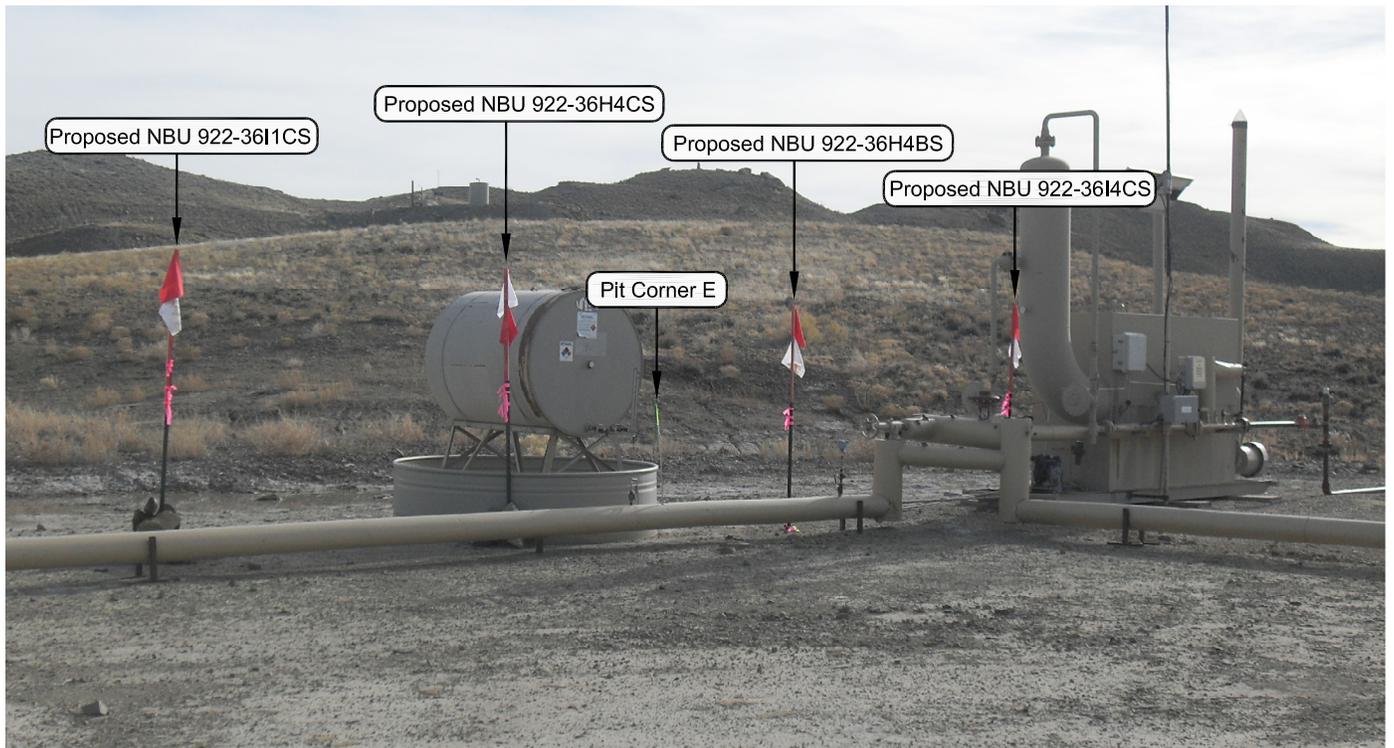


PHOTO VIEW: FROM LOCATION STAKE TO PIT CORNER E

CAMERA ANGLE: SOUTHEASTERLY



PHOTO VIEW: FROM EXISTING ACCESS ROAD

CAMERA ANGLE: SOUTHWESTERLY

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

WELL PAD - NBU 922-361

LOCATION PHOTOS

**NBU 922-3611CS, NBU 922-36H4CS,
 NBU 922-36H4BS & NBU 922-36I4CS
 LOCATED IN SECTION 36, T9S, R22E,
 S.L.B.&M., UINTAH COUNTY, UTAH.**



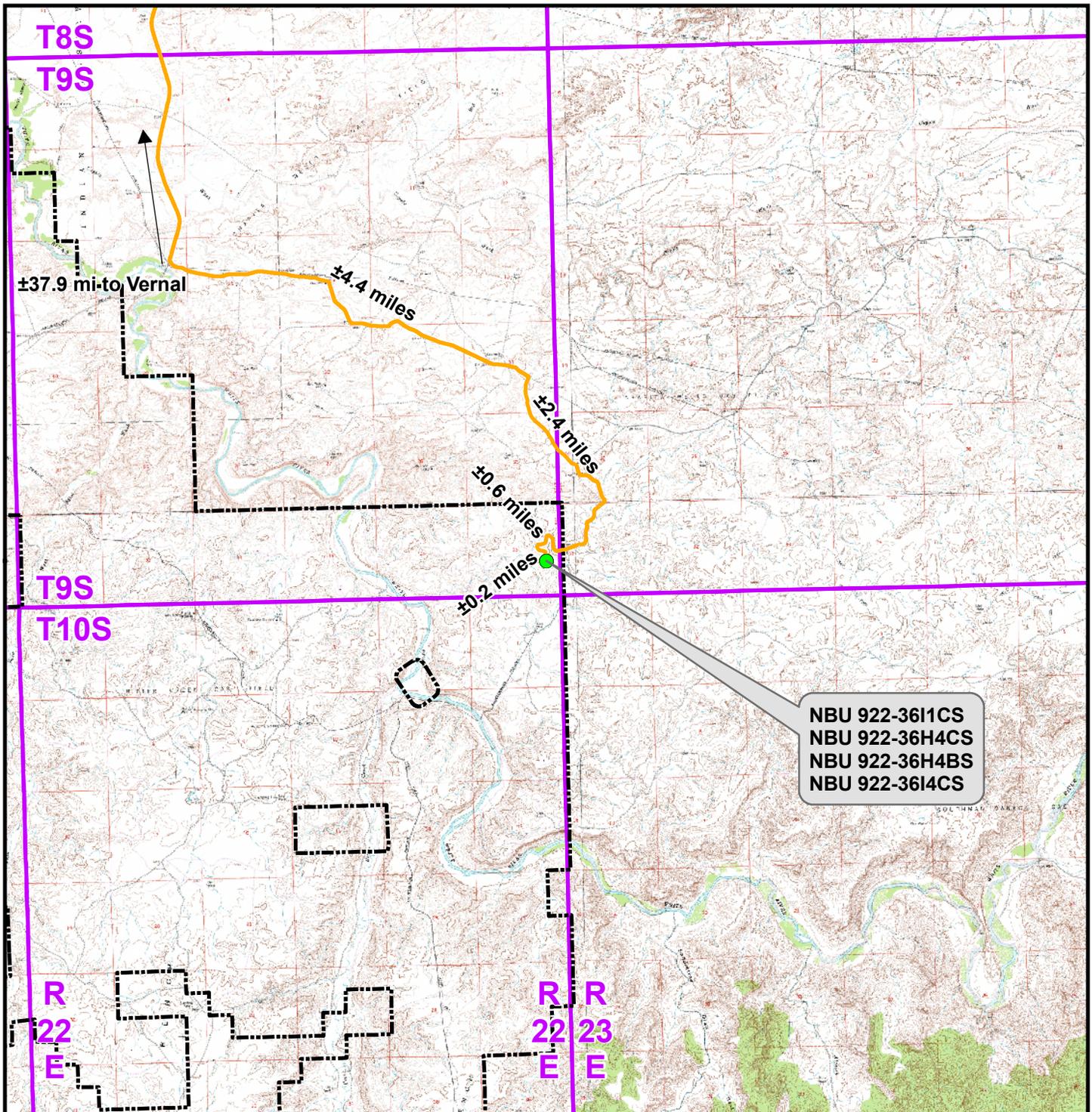
CONSULTING, LLC
 2155 North Main Street
 Sheridan WY 82801
 Phone 307-674-0609
 Fax 307-674-0182

TIMBERLINE

(435) 789-1365

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

DATE PHOTOS TAKEN: 11-18-10	PHOTOS TAKEN BY: M.S.B.	SHEET NO: 9
DATE DRAWN: 11-18-10	DRAWN BY: B.M.	
Date Last Revised:		9 OF 16



NBU 922-36I1CS
 NBU 922-36H4CS
 NBU 922-36H4BS
 NBU 922-36I4CS

Legend

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

Distance From Well Pad - NBU 922-36I To Unit Boundary: ±785ft

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

WELL PAD - NBU 922-36I

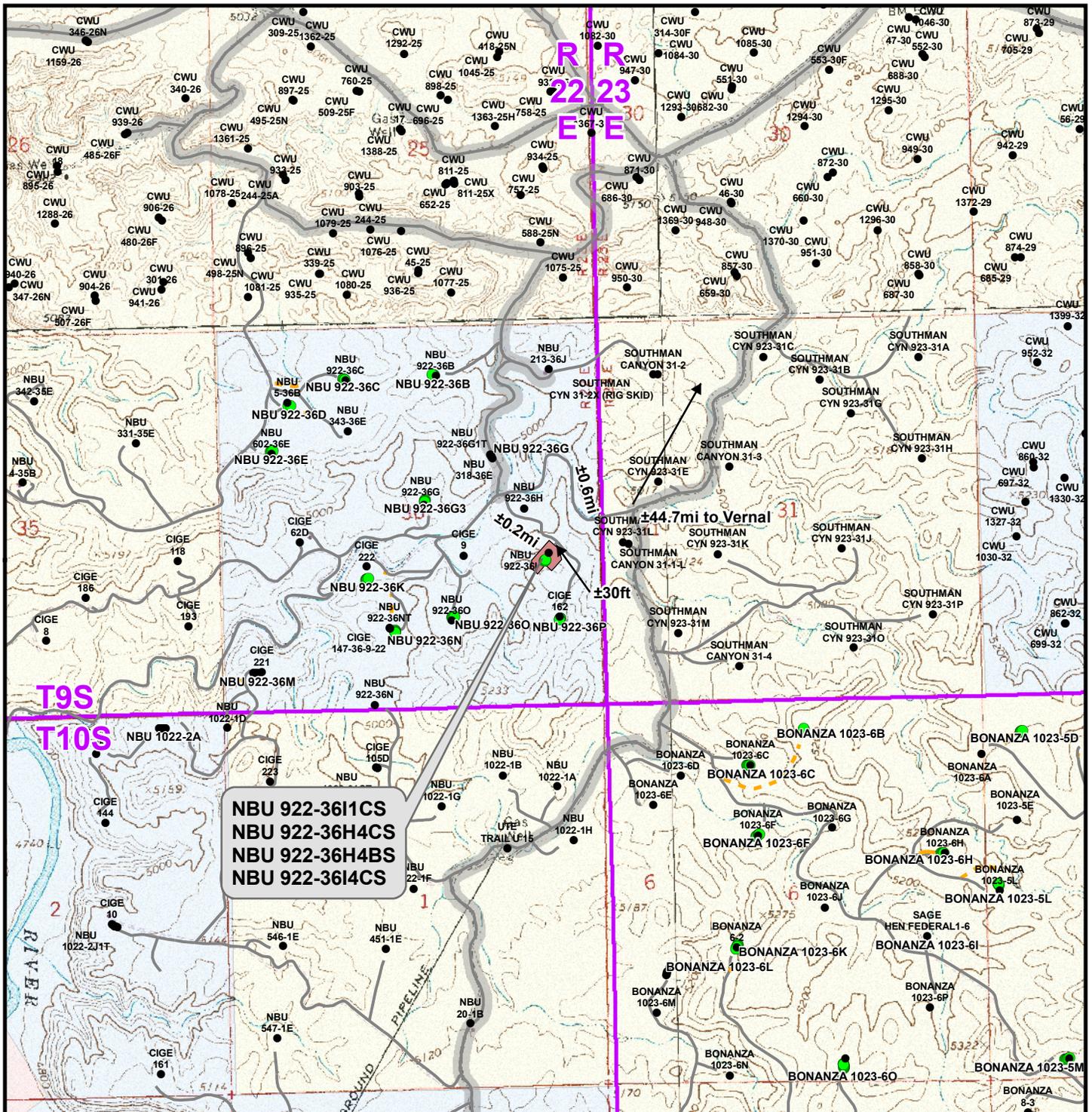
TOPO A
 NBU 922-36I1CS, NBU 922-36H4CS,
 NBU 922-36H4BS & NBU 922-36I4CS
 LOCATED IN SECTION 36, T9S, R22E,
 S.L.B.&M., UINTAH COUNTY, UTAH



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



Scale: 1:100,000	NAD83 USP Central	Sheet No:
Drawn: TL	Date: 3 Dec 2010	10
Revised:	Date:	



Legend

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

Total Proposed Road Length: ±0ft

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

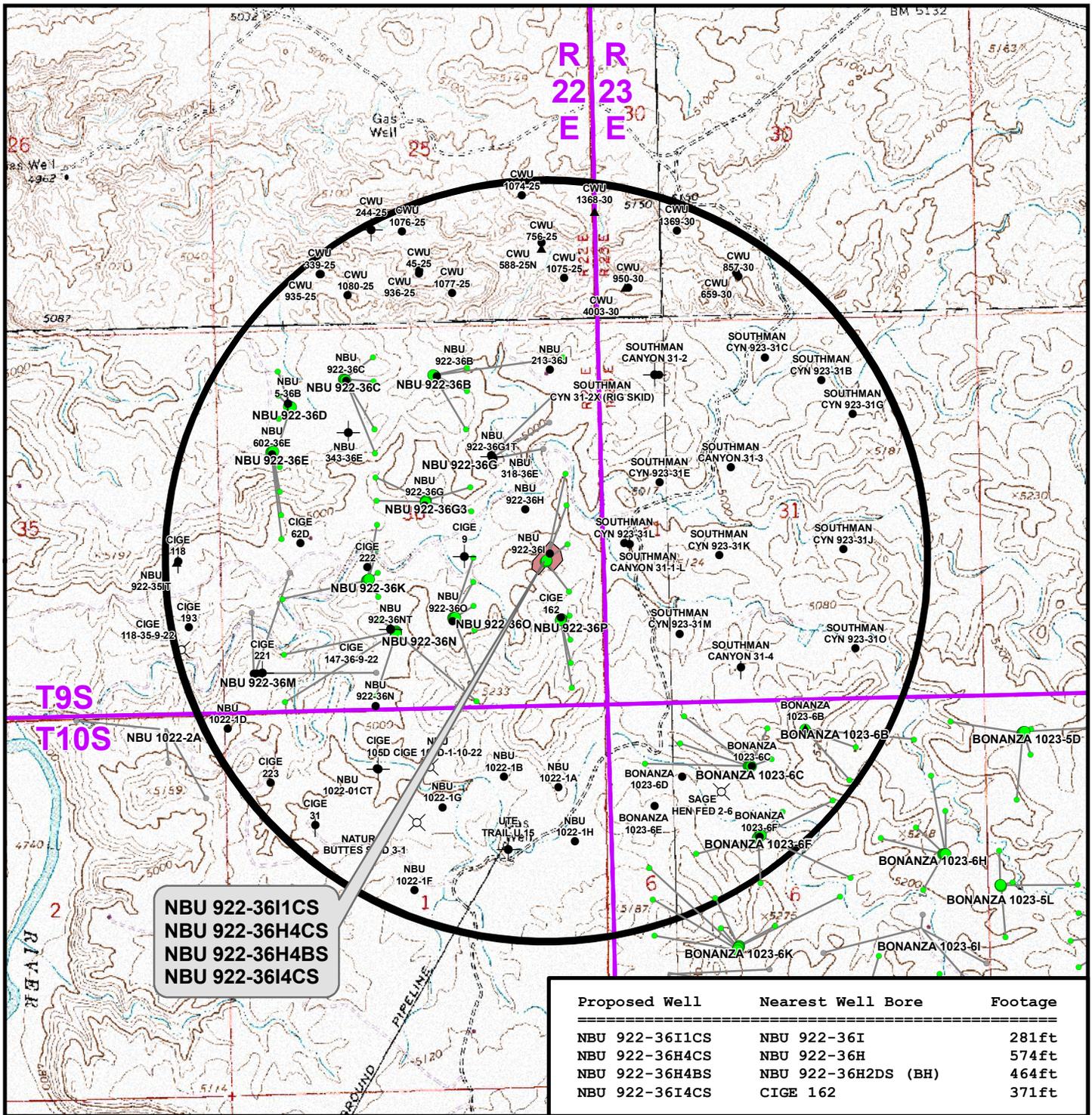
WELL PAD - NBU 922-361

TOPO B
NBU 922-361CS, NBU 922-36H4CS,
NBU 922-36H4BS & NBU 922-3614CS
LOCATED IN SECTION 36, T9S, R22E,
S.L.B.&M., UTAH COUNTY, UTAH

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



Scale: 1" = 2,000ft	NAD83 USP Central	Sheet No: 11
Drawn: TL	Date: 3 Dec 2010	11 of 16
Revised:	Date:	



Legend

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

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

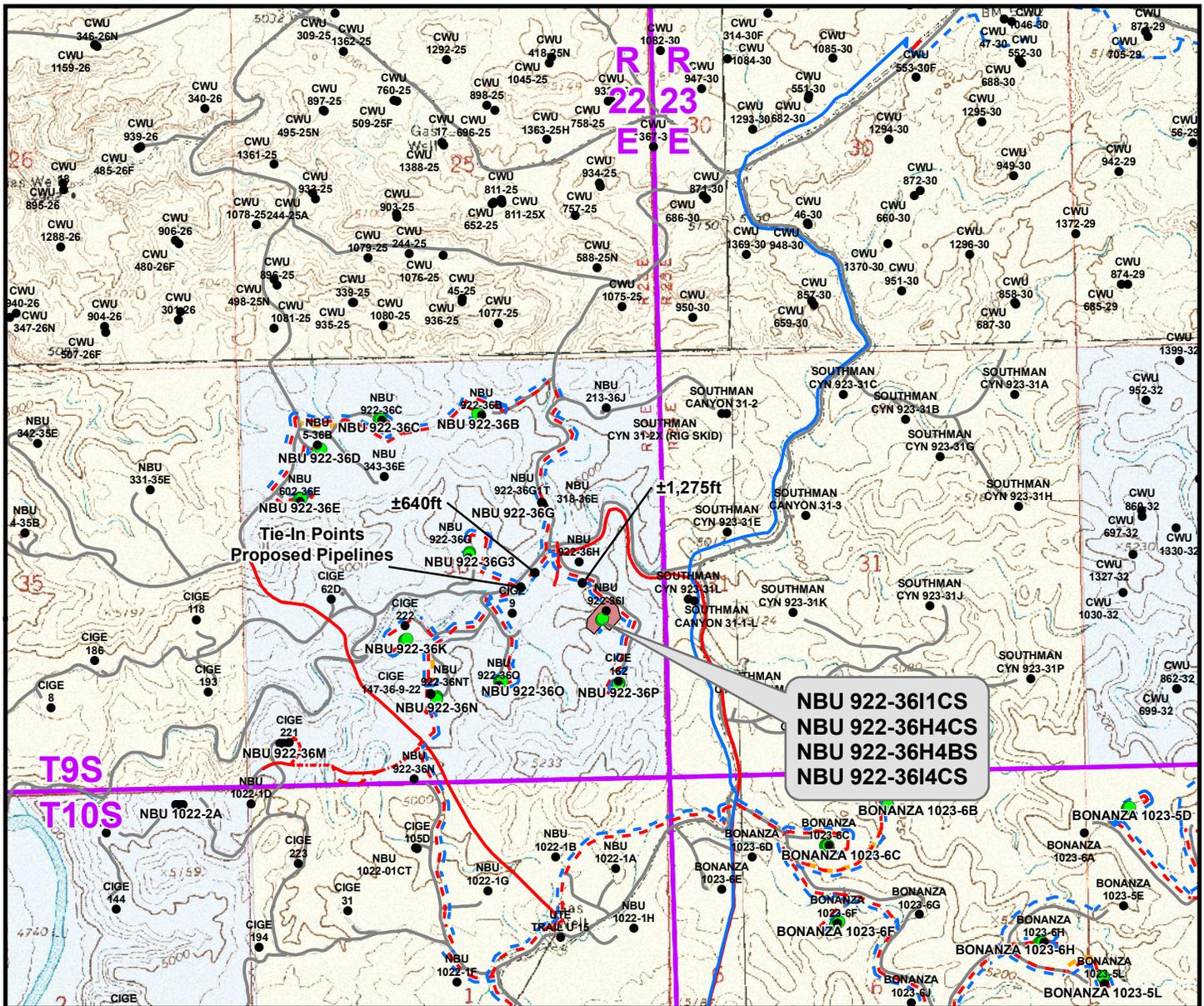
WELL PAD - NBU 922-36I

TOPO C
NBU 922-36I1CS, NBU 922-36H4CS,
NBU 922-36H4BS & NBU 922-36I4CS
LOCATED IN SECTION 36, T9S, R22E,
S.L.B.&M., UTAH COUNTY, UTAH

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



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



**NBU 922-361CS
NBU 922-36H4CS
NBU 922-36H4BS
NBU 922-36I4CS**

Proposed Liquid Pipeline	Length
Proposed 6" (Max.) (Meter House to Edge of Pad)	±460ft
Proposed 6" (Max.) (Edge of Pad to 36P Intersection)	±30ft
Proposed 6" (Max.) (36P Intersection to 36B Intersection)	±1,245ft
Proposed 6" (Max.) (36B Intersection to 36G3 Intersection)	±640ft
TOTAL PROPOSED LIQUID PIPELINE =	±2,375ft

Proposed Gas Pipeline	Length
Proposed 6" (Meter House to Edge of Pad)	±460ft
Proposed 6" (Edge of Pad to 36P Intersection)	±30ft
Proposed 8" (36P Intersection to 36B Intersection)	±1,245ft
Proposed 16" (36B Intersection to 36G3 Intersection)	±640ft
TOTAL PROPOSED GAS PIPELINE =	±2,375ft

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 922-36I

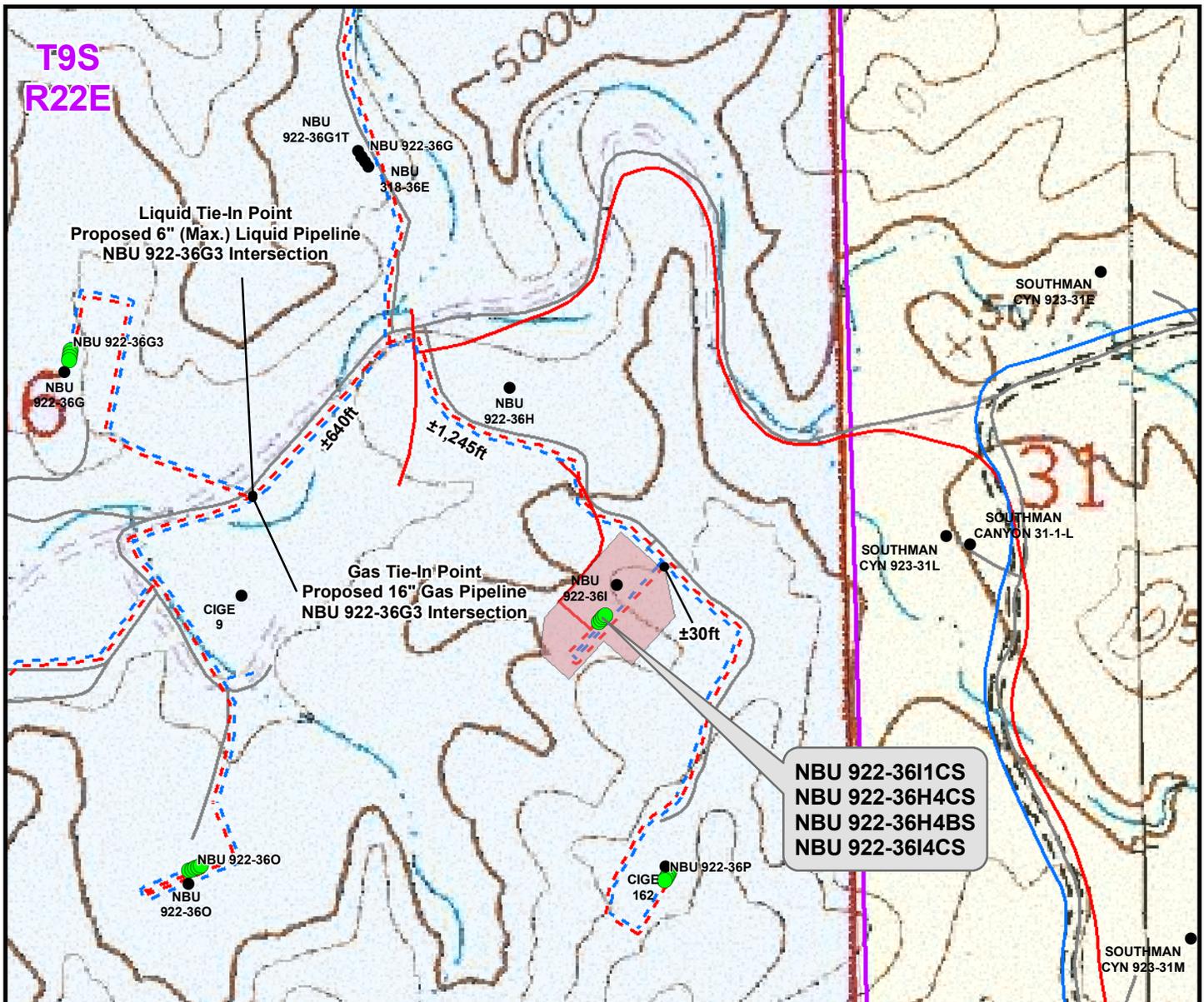
TOPO D
NBU 922-361CS, NBU 922-36H4CS,
NBU 922-36H4BS & NBU 922-36I4CS
LOCATED IN SECTION 36, T9S, R22E,
S.L.B.&M., UINTAH COUNTY, UTAH

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



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

13 of 16



Proposed Liquid Pipeline	Length
Proposed 6" (Max.) (Meter House to Edge of Pad)	±460ft
Proposed 6" (Max.) (Edge of Pad to 36P Intersection)	±30ft
Proposed 6" (Max.) (36P Intersection to 36B Intersection)	±1,245ft
Proposed 6" (Max.) (36B Intersection to 36G3 Intersection)	±640ft
TOTAL PROPOSED LIQUID PIPELINE =	±2,375ft

Proposed Gas Pipeline	Length
Proposed 6" (Meter House to Edge of Pad)	±460ft
Proposed 6" (Edge of Pad to 36P Intersection)	±30ft
Proposed 8" (36P Intersection to 36B Intersection)	±1,245ft
Proposed 16" (36B Intersection to 36G3 Intersection)	±640ft
TOTAL PROPOSED GAS PIPELINE =	±2,375ft

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

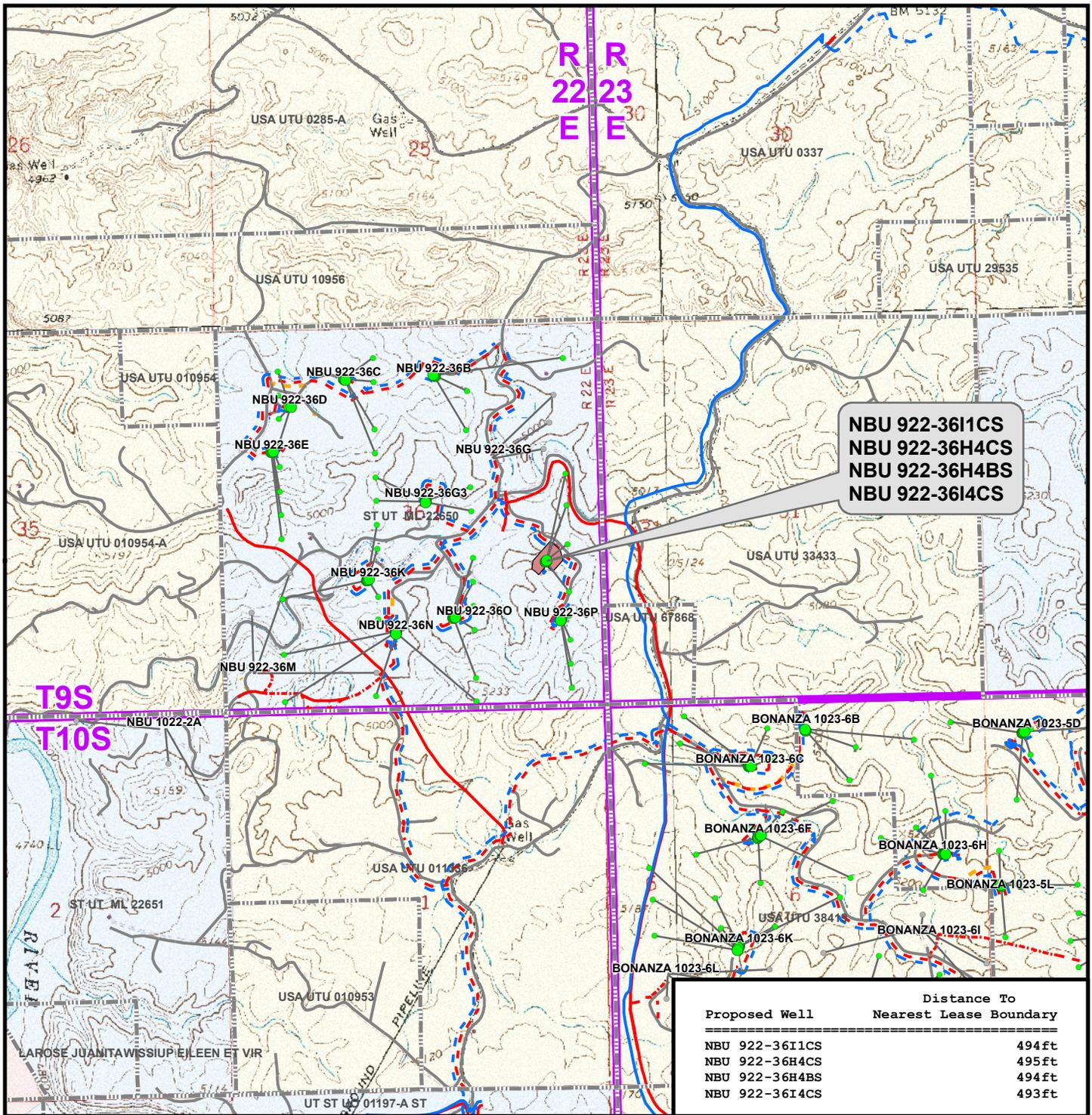
WELL PAD - NBU 922-36I

TOPO D2 (PAD & PIPELINE DETAIL)
 NBU 922-36I1CS, NBU 922-36H4CS,
 NBU 922-36H4BS & NBU 922-36I4CS
 LOCATED IN SECTION 36, T9S, R22E,
 S.L.B.&M., UINTAH COUNTY, UTAH

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



Scale: 1" = 500ft	NAD83 USP Central	Sheet No:
Drawn: TL	Date: 3 Dec 2010	14 14 of 16
Revised:	Date:	



**NBU 922-36I1CS
NBU 922-36H4CS
NBU 922-36H4BS
NBU 922-36I4CS**

Proposed Well	Distance To Nearest Lease Boundary
NBU 922-36I1CS	494ft
NBU 922-36H4CS	495ft
NBU 922-36H4BS	494ft
NBU 922-36I4CS	493ft

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 922-36I

TOPO E
NBU 922-36I1CS, NBU 922-36H4CS,
NBU 922-36H4BS & NBU 922-36I4CS
LOCATED IN SECTION 36, T9S, R22E,
S.L.B.&M., UINTAH COUNTY, UTAH

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CONSULTING, LLC
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Sheridan, WY 82801
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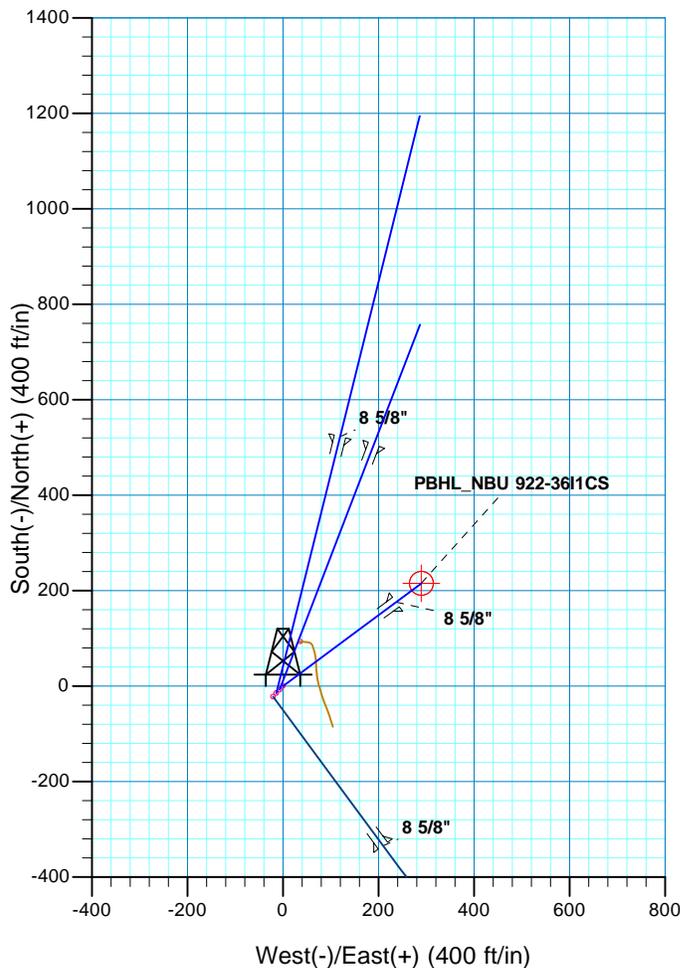
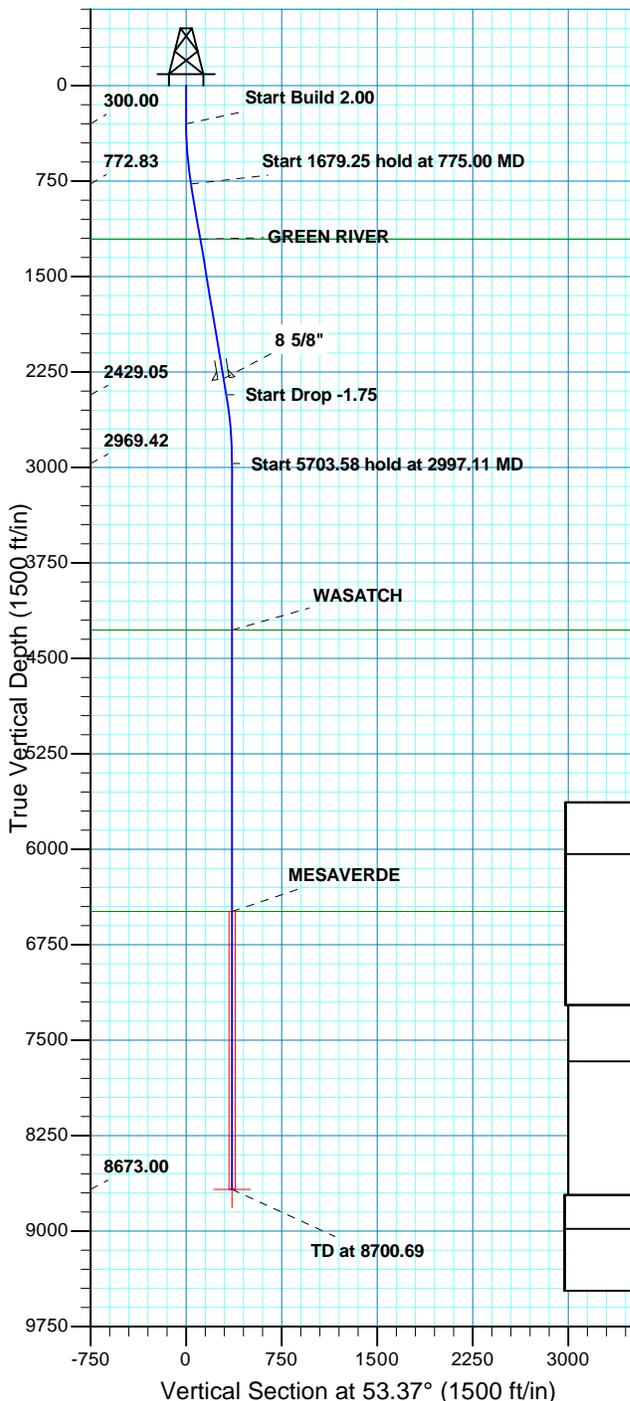
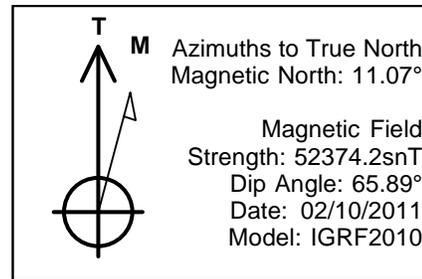
Scale: 1" = 2,000ft	NAD83 USP Central	Sheet No:
Drawn: TL	Date: 3 Dec 2010	15
Revised:	Date:	

Kerr-McGee Oil & Gas Onshore, LP
WELL PAD – NBU 922-36I
WELLS – NBU 922-36I1CS, NBU 922-36H4CS,
NBU 922-36H4BS & NBU 922-36I4CS
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 0.6 miles to a second service road to the southeast. Exit left and proceed in a southeasterly direction along the second service road approximately 0.2 miles to an access road to the southwest. Exit right and proceed along the access road in a southwesterly direction approximately 30 feet to the proposed well pad.

Total distance from Vernal, Utah to the proposed well location is approximately 45.5 miles in a southerly direction.

WELL DETAILS: NBU 922-361CS						
GL 5028' & KB 4' @ 5032.00ft (ASSUMED)						
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	
0.00	0.00	14526817.60	2093901.04	39° 59' 26.930 N	109° 22' 51.618 W	
DESIGN TARGET DETAILS						
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude
PBHL	8673.00	215.62	289.97	14527038.45	2094187.04	39° 59' 29.062 N
- plan hits target center						
Longitude	Shape					
109° 22' 47.892 W	Circle (Radius: 25.00)					



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	
775.00	9.50	53.37	772.83	23.44	31.53	2.00	53.37	39.29	
2454.25	9.50	53.37	2429.05	188.83	253.93	0.00	0.00	316.45	
2997.11	0.00	0.00	2969.42	215.62	289.97	1.75	180.00	361.35	
8700.69	0.00	0.00	8673.00	215.62	289.97	0.00	0.00	361.35	PBHL_NBU 922-361CS
FORMATION TOP DETAILS									
PROJECT DETAILS: Uintah County, UT UTM12					FORMATION TOP DETAILS				
Geodetic System: Universal Transverse Mercator (US Survey Feet) Datum: NAD 1927 - Western US Ellipsoid: Clarke 1866 Zone: Zone 12N (114 W to 108 W) Location: SECTION 36 T9S R22E System Datum: Mean Sea Level					TVDPath	MDPath	Formation		
					1207.00	1215.21	GREEN RIVER		
					4279.00	4306.69	WASATCH		
							MESAVERDE		
CASING DETAILS									
	TVD	MD	Name	Size					
	2303.00	2326.45	8 5/8"	8.625					

RECEIVED: Jul. 26, 2011



Kerr McGee Oil and Gas Onshore LP

**Uintah County, UT UTM12
NBU 922-36I PAD
NBU 922-36I1CS**

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 922-36I1CS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 5028' & KB 4' @ 5032.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 5028' & KB 4' @ 5032.00ft (ASSUMED)
Site:	NBU 922-36I PAD	North Reference:	True
Well:	NBU 922-36I1CS	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 922-36I PAD, SECTION 36 T9S R22E				
Site Position:		Northing:	14,526,795.38 usft	Latitude:	39° 59' 26.714 N
From:	Lat/Long	Easting:	2,093,880.99 usft	Longitude:	109° 22' 51.881 W
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence:	1.04 °

Well	NBU 922-36I1CS, 2021 FSL 785 FEL					
Well Position	+N/-S	21.85 ft	Northing:	14,526,817.61 usft	Latitude:	39° 59' 26.930 N
	+E/-W	20.45 ft	Easting:	2,093,901.04 usft	Longitude:	109° 22' 51.618 W
Position Uncertainty		0.00 ft	Wellhead Elevation:		Ground Level:	5,028.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	02/10/2011	11.07	65.89	52,374

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	53.37

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	
775.00	9.50	53.37	772.83	23.44	31.53	2.00	2.00	0.00	53.37	
2,454.25	9.50	53.37	2,429.05	188.83	253.93	0.00	0.00	0.00	0.00	
2,997.11	0.00	0.00	2,969.42	215.62	289.97	1.75	-1.75	0.00	180.00	
8,700.69	0.00	0.00	8,673.00	215.62	289.97	0.00	0.00	0.00	0.00	PBHL_NBU 922-36I1



Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 922-361CS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 5028' & KB 4' @ 5032.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 5028' & KB 4' @ 5032.00ft (ASSUMED)
Site:	NBU 922-361 PAD	North Reference:	True
Well:	NBU 922-361CS	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	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 2.00										
400.00	2.00	53.37	399.98	1.04	1.40	1.75	2.00	2.00	2.00	0.00
500.00	4.00	53.37	499.84	4.16	5.60	6.98	2.00	2.00	2.00	0.00
600.00	6.00	53.37	599.45	9.36	12.59	15.69	2.00	2.00	2.00	0.00
700.00	8.00	53.37	698.70	16.64	22.37	27.88	2.00	2.00	2.00	0.00
775.00	9.50	53.37	772.83	23.44	31.53	39.29	2.00	2.00	2.00	0.00
Start 1679.25 hold at 775.00 MD										
800.00	9.50	53.37	797.48	25.91	34.84	43.42	0.00	0.00	0.00	0.00
900.00	9.50	53.37	896.11	35.75	48.08	59.92	0.00	0.00	0.00	0.00
1,000.00	9.50	53.37	994.74	45.60	61.33	76.42	0.00	0.00	0.00	0.00
1,100.00	9.50	53.37	1,093.37	55.45	74.57	92.93	0.00	0.00	0.00	0.00
1,200.00	9.50	53.37	1,192.00	65.30	87.82	109.43	0.00	0.00	0.00	0.00
1,215.21	9.50	53.37	1,207.00	66.80	89.83	111.94	0.00	0.00	0.00	0.00
GREEN RIVER										
1,300.00	9.50	53.37	1,290.63	75.15	101.06	125.94	0.00	0.00	0.00	0.00
1,400.00	9.50	53.37	1,389.26	85.00	114.30	142.44	0.00	0.00	0.00	0.00
1,500.00	9.50	53.37	1,487.88	94.85	127.55	158.95	0.00	0.00	0.00	0.00
1,600.00	9.50	53.37	1,586.51	104.69	140.79	175.45	0.00	0.00	0.00	0.00
1,700.00	9.50	53.37	1,685.14	114.54	154.04	191.96	0.00	0.00	0.00	0.00
1,800.00	9.50	53.37	1,783.77	124.39	167.28	208.46	0.00	0.00	0.00	0.00
1,900.00	9.50	53.37	1,882.40	134.24	180.53	224.97	0.00	0.00	0.00	0.00
2,000.00	9.50	53.37	1,981.03	144.09	193.77	241.47	0.00	0.00	0.00	0.00
2,100.00	9.50	53.37	2,079.66	153.94	207.02	257.98	0.00	0.00	0.00	0.00
2,200.00	9.50	53.37	2,178.28	163.79	220.26	274.48	0.00	0.00	0.00	0.00
2,300.00	9.50	53.37	2,276.91	173.63	233.50	290.99	0.00	0.00	0.00	0.00
2,326.45	9.50	53.37	2,303.00	176.24	237.01	295.35	0.00	0.00	0.00	0.00
8 5/8"										
2,400.00	9.50	53.37	2,375.54	183.48	246.75	307.49	0.00	0.00	0.00	0.00
2,454.25	9.50	53.37	2,429.05	188.83	253.93	316.45	0.00	0.00	0.00	0.00
Start Drop -1.75										
2,500.00	8.70	53.37	2,474.22	193.14	259.74	323.68	1.75	-1.75	0.00	0.00
2,600.00	6.95	53.37	2,573.29	201.27	270.66	337.29	1.75	-1.75	0.00	0.00
2,700.00	5.20	53.37	2,672.72	207.58	279.16	347.88	1.75	-1.75	0.00	0.00
2,800.00	3.45	53.37	2,772.43	212.08	285.21	355.42	1.75	-1.75	0.00	0.00
2,900.00	1.70	53.37	2,872.33	214.76	288.81	359.91	1.75	-1.75	0.00	0.00
2,997.11	0.00	0.00	2,969.42	215.62	289.97	361.35	1.75	-1.75	0.00	0.00
Start 5703.58 hold at 2997.11 MD										
3,000.00	0.00	0.00	2,972.31	215.62	289.97	361.35	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,072.31	215.62	289.97	361.35	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,172.31	215.62	289.97	361.35	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,272.31	215.62	289.97	361.35	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,372.31	215.62	289.97	361.35	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,472.31	215.62	289.97	361.35	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,572.31	215.62	289.97	361.35	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,672.31	215.62	289.97	361.35	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,772.31	215.62	289.97	361.35	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,872.31	215.62	289.97	361.35	0.00	0.00	0.00	0.00



SDI
Planning Report



Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 922-361CS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 5028' & KB 4' @ 5032.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 5028' & KB 4' @ 5032.00ft (ASSUMED)
Site:	NBU 922-361 PAD	North Reference:	True
Well:	NBU 922-361CS	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)
4,000.00	0.00	0.00	3,972.31	215.62	289.97	361.35	0.00	0.00	0.00
4,100.00	0.00	0.00	4,072.31	215.62	289.97	361.35	0.00	0.00	0.00
4,200.00	0.00	0.00	4,172.31	215.62	289.97	361.35	0.00	0.00	0.00
4,300.00	0.00	0.00	4,272.31	215.62	289.97	361.35	0.00	0.00	0.00
4,306.69	0.00	0.00	4,279.00	215.62	289.97	361.35	0.00	0.00	0.00
WASATCH									
4,400.00	0.00	0.00	4,372.31	215.62	289.97	361.35	0.00	0.00	0.00
4,500.00	0.00	0.00	4,472.31	215.62	289.97	361.35	0.00	0.00	0.00
4,600.00	0.00	0.00	4,572.31	215.62	289.97	361.35	0.00	0.00	0.00
4,700.00	0.00	0.00	4,672.31	215.62	289.97	361.35	0.00	0.00	0.00
4,800.00	0.00	0.00	4,772.31	215.62	289.97	361.35	0.00	0.00	0.00
4,900.00	0.00	0.00	4,872.31	215.62	289.97	361.35	0.00	0.00	0.00
5,000.00	0.00	0.00	4,972.31	215.62	289.97	361.35	0.00	0.00	0.00
5,100.00	0.00	0.00	5,072.31	215.62	289.97	361.35	0.00	0.00	0.00
5,200.00	0.00	0.00	5,172.31	215.62	289.97	361.35	0.00	0.00	0.00
5,300.00	0.00	0.00	5,272.31	215.62	289.97	361.35	0.00	0.00	0.00
5,400.00	0.00	0.00	5,372.31	215.62	289.97	361.35	0.00	0.00	0.00
5,500.00	0.00	0.00	5,472.31	215.62	289.97	361.35	0.00	0.00	0.00
5,600.00	0.00	0.00	5,572.31	215.62	289.97	361.35	0.00	0.00	0.00
5,700.00	0.00	0.00	5,672.31	215.62	289.97	361.35	0.00	0.00	0.00
5,800.00	0.00	0.00	5,772.31	215.62	289.97	361.35	0.00	0.00	0.00
5,900.00	0.00	0.00	5,872.31	215.62	289.97	361.35	0.00	0.00	0.00
6,000.00	0.00	0.00	5,972.31	215.62	289.97	361.35	0.00	0.00	0.00
6,100.00	0.00	0.00	6,072.31	215.62	289.97	361.35	0.00	0.00	0.00
6,200.00	0.00	0.00	6,172.31	215.62	289.97	361.35	0.00	0.00	0.00
6,300.00	0.00	0.00	6,272.31	215.62	289.97	361.35	0.00	0.00	0.00
6,400.00	0.00	0.00	6,372.31	215.62	289.97	361.35	0.00	0.00	0.00
6,500.00	0.00	0.00	6,472.31	215.62	289.97	361.35	0.00	0.00	0.00
6,517.69	0.00	0.00	6,490.00	215.62	289.97	361.35	0.00	0.00	0.00
MESAVERDE									
6,600.00	0.00	0.00	6,572.31	215.62	289.97	361.35	0.00	0.00	0.00
6,700.00	0.00	0.00	6,672.31	215.62	289.97	361.35	0.00	0.00	0.00
6,800.00	0.00	0.00	6,772.31	215.62	289.97	361.35	0.00	0.00	0.00
6,900.00	0.00	0.00	6,872.31	215.62	289.97	361.35	0.00	0.00	0.00
7,000.00	0.00	0.00	6,972.31	215.62	289.97	361.35	0.00	0.00	0.00
7,100.00	0.00	0.00	7,072.31	215.62	289.97	361.35	0.00	0.00	0.00
7,200.00	0.00	0.00	7,172.31	215.62	289.97	361.35	0.00	0.00	0.00
7,300.00	0.00	0.00	7,272.31	215.62	289.97	361.35	0.00	0.00	0.00
7,400.00	0.00	0.00	7,372.31	215.62	289.97	361.35	0.00	0.00	0.00
7,500.00	0.00	0.00	7,472.31	215.62	289.97	361.35	0.00	0.00	0.00
7,600.00	0.00	0.00	7,572.31	215.62	289.97	361.35	0.00	0.00	0.00
7,700.00	0.00	0.00	7,672.31	215.62	289.97	361.35	0.00	0.00	0.00
7,800.00	0.00	0.00	7,772.31	215.62	289.97	361.35	0.00	0.00	0.00
7,900.00	0.00	0.00	7,872.31	215.62	289.97	361.35	0.00	0.00	0.00
8,000.00	0.00	0.00	7,972.31	215.62	289.97	361.35	0.00	0.00	0.00
8,100.00	0.00	0.00	8,072.31	215.62	289.97	361.35	0.00	0.00	0.00
8,200.00	0.00	0.00	8,172.31	215.62	289.97	361.35	0.00	0.00	0.00
8,300.00	0.00	0.00	8,272.31	215.62	289.97	361.35	0.00	0.00	0.00
8,400.00	0.00	0.00	8,372.31	215.62	289.97	361.35	0.00	0.00	0.00
8,500.00	0.00	0.00	8,472.31	215.62	289.97	361.35	0.00	0.00	0.00
8,600.00	0.00	0.00	8,572.31	215.62	289.97	361.35	0.00	0.00	0.00
8,700.00	0.00	0.00	8,672.31	215.62	289.97	361.35	0.00	0.00	0.00



Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 922-361CS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 5028' & KB 4' @ 5032.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 5028' & KB 4' @ 5032.00ft (ASSUMED)
Site:	NBU 922-361 PAD	North Reference:	True
Well:	NBU 922-361CS	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)
8,700.69	0.00	0.00	8,673.00	215.62	289.97	361.35	0.00	0.00	0.00
PBHL_NBU 922-361CS									

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 922-361CS - plan hits target center - Circle (radius 25.00)	0.00	0.00	8,673.00	215.62	289.97	14,527,038.46	2,094,187.04	39° 59' 29.062 N	109° 22' 47.892 W

Casing Points						
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)		
2,326.45	2,303.00	8 5/8"	8.625	11.000		

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,215.21	1,207.00	GREEN RIVER			
4,306.69	4,279.00	WASATCH			
6,517.69	6,490.00	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	
775.00	772.83	23.44	31.53	Start 1679.25 hold at 775.00 MD	
2,454.25	2,429.05	188.83	253.93	Start Drop -1.75	
2,997.11	2,969.42	215.62	289.97	Start 5703.58 hold at 2997.11 MD	
8,700.69	8,673.00	215.62	289.97	TD at 8700.69	



Kerr McGee Oil and Gas Onshore LP

**Uintah County, UT UTM12
NBU 922-36I PAD
NBU 922-36I1CS**

OH

Plan: PLAN #1 2-10-11 RHS

Standard Planning Report - Geographic

10 February, 2011





Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 922-361CS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 5028' & KB 4' @ 5032.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 5028' & KB 4' @ 5032.00ft (ASSUMED)
Site:	NBU 922-361 PAD	North Reference:	True
Well:	NBU 922-361CS	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 922-361 PAD, SECTION 36 T9S R22E				
Site Position:		Northing:	14,526,795.38 usft	Latitude:	39° 59' 26.714 N
From:	Lat/Long	Easting:	2,093,880.99 usft	Longitude:	109° 22' 51.881 W
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence:	1.04 °

Well	NBU 922-361CS, 2021 FSL 785 FEL					
Well Position	+N/-S	0.00 ft	Northing:	14,526,817.61 usft	Latitude:	39° 59' 26.930 N
	+E/-W	0.00 ft	Easting:	2,093,901.04 usft	Longitude:	109° 22' 51.618 W
Position Uncertainty	0.00 ft		Wellhead Elevation:		Ground Level:	5,028.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	02/10/2011	11.07	65.89	52,374

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	53.37	

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	
775.00	9.50	53.37	772.83	23.44	31.53	2.00	2.00	0.00	53.37	
2,454.25	9.50	53.37	2,429.05	188.83	253.93	0.00	0.00	0.00	0.00	
2,997.11	0.00	0.00	2,969.42	215.62	289.97	1.75	-1.75	0.00	180.00	
8,700.69	0.00	0.00	8,673.00	215.62	289.97	0.00	0.00	0.00	0.00	PBHL_NBU 922-361



Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 922-361CS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 5028' & KB 4' @ 5032.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 5028' & KB 4' @ 5032.00ft (ASSUMED)
Site:	NBU 922-361 PAD	North Reference:	True
Well:	NBU 922-361CS	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	14,526,817.61	2,093,901.04	39° 59' 26.930 N	109° 22' 51.618 W	
100.00	0.00	0.00	100.00	0.00	0.00	14,526,817.61	2,093,901.04	39° 59' 26.930 N	109° 22' 51.618 W	
200.00	0.00	0.00	200.00	0.00	0.00	14,526,817.61	2,093,901.04	39° 59' 26.930 N	109° 22' 51.618 W	
300.00	0.00	0.00	300.00	0.00	0.00	14,526,817.61	2,093,901.04	39° 59' 26.930 N	109° 22' 51.618 W	
Start Build 2.00										
400.00	2.00	53.37	399.98	1.04	1.40	14,526,818.67	2,093,902.42	39° 59' 26.941 N	109° 22' 51.600 W	
500.00	4.00	53.37	499.84	4.16	5.60	14,526,821.87	2,093,906.56	39° 59' 26.972 N	109° 22' 51.546 W	
600.00	6.00	53.37	599.45	9.36	12.59	14,526,827.20	2,093,913.46	39° 59' 27.023 N	109° 22' 51.456 W	
700.00	8.00	53.37	698.70	16.64	22.37	14,526,834.65	2,093,923.11	39° 59' 27.095 N	109° 22' 51.331 W	
775.00	9.50	53.37	772.83	23.44	31.53	14,526,841.62	2,093,932.14	39° 59' 27.162 N	109° 22' 51.213 W	
Start 1679.25 hold at 775.00 MD										
800.00	9.50	53.37	797.48	25.91	34.84	14,526,844.14	2,093,935.40	39° 59' 27.186 N	109° 22' 51.170 W	
900.00	9.50	53.37	896.11	35.75	48.08	14,526,854.23	2,093,948.46	39° 59' 27.284 N	109° 22' 51.000 W	
1,000.00	9.50	53.37	994.74	45.60	61.33	14,526,864.31	2,093,961.53	39° 59' 27.381 N	109° 22' 50.830 W	
1,100.00	9.50	53.37	1,093.37	55.45	74.57	14,526,874.40	2,093,974.59	39° 59' 27.478 N	109° 22' 50.660 W	
1,200.00	9.50	53.37	1,192.00	65.30	87.82	14,526,884.49	2,093,987.65	39° 59' 27.576 N	109° 22' 50.490 W	
1,215.21	9.50	53.37	1,207.00	66.80	89.83	14,526,886.02	2,093,989.64	39° 59' 27.591 N	109° 22' 50.464 W	
GREEN RIVER										
1,300.00	9.50	53.37	1,290.63	75.15	101.06	14,526,894.58	2,094,000.72	39° 59' 27.673 N	109° 22' 50.319 W	
1,400.00	9.50	53.37	1,389.26	85.00	114.30	14,526,904.66	2,094,013.78	39° 59' 27.771 N	109° 22' 50.149 W	
1,500.00	9.50	53.37	1,487.88	94.85	127.55	14,526,914.75	2,094,026.84	39° 59' 27.868 N	109° 22' 49.979 W	
1,600.00	9.50	53.37	1,586.51	104.69	140.79	14,526,924.84	2,094,039.91	39° 59' 27.965 N	109° 22' 49.809 W	
1,700.00	9.50	53.37	1,685.14	114.54	154.04	14,526,934.93	2,094,052.97	39° 59' 28.063 N	109° 22' 49.639 W	
1,800.00	9.50	53.37	1,783.77	124.39	167.28	14,526,945.01	2,094,066.03	39° 59' 28.160 N	109° 22' 49.468 W	
1,900.00	9.50	53.37	1,882.40	134.24	180.53	14,526,955.10	2,094,079.10	39° 59' 28.257 N	109° 22' 49.298 W	
2,000.00	9.50	53.37	1,981.03	144.09	193.77	14,526,965.19	2,094,092.16	39° 59' 28.355 N	109° 22' 49.128 W	
2,100.00	9.50	53.37	2,079.66	153.94	207.02	14,526,975.28	2,094,105.22	39° 59' 28.452 N	109° 22' 48.958 W	
2,200.00	9.50	53.37	2,178.28	163.79	220.26	14,526,985.36	2,094,118.29	39° 59' 28.549 N	109° 22' 48.788 W	
2,300.00	9.50	53.37	2,276.91	173.63	233.50	14,526,995.45	2,094,131.35	39° 59' 28.647 N	109° 22' 48.618 W	
2,326.45	9.50	53.37	2,303.00	176.24	237.01	14,526,998.12	2,094,134.81	39° 59' 28.672 N	109° 22' 48.573 W	
8 5/8"										
2,400.00	9.50	53.37	2,375.54	183.48	246.75	14,527,005.54	2,094,144.41	39° 59' 28.744 N	109° 22' 48.447 W	
2,454.25	9.50	53.37	2,429.05	188.83	253.93	14,527,011.01	2,094,151.50	39° 59' 28.797 N	109° 22' 48.355 W	
Start Drop -1.75										
2,500.00	8.70	53.37	2,474.22	193.14	259.74	14,527,015.43	2,094,157.23	39° 59' 28.839 N	109° 22' 48.280 W	
2,600.00	6.95	53.37	2,573.29	201.27	270.66	14,527,023.75	2,094,168.00	39° 59' 28.920 N	109° 22' 48.140 W	
2,700.00	5.20	53.37	2,672.72	207.58	279.16	14,527,030.22	2,094,176.38	39° 59' 28.982 N	109° 22' 48.031 W	
2,800.00	3.45	53.37	2,772.43	212.08	285.21	14,527,034.83	2,094,182.35	39° 59' 29.027 N	109° 22' 47.953 W	
2,900.00	1.70	53.37	2,872.33	214.76	288.81	14,527,037.58	2,094,185.90	39° 59' 29.053 N	109° 22' 47.907 W	
2,997.11	0.00	0.00	2,969.42	215.62	289.97	14,527,038.46	2,094,187.04	39° 59' 29.062 N	109° 22' 47.892 W	
Start 5703.58 hold at 2997.11 MD										
3,000.00	0.00	0.00	2,972.31	215.62	289.97	14,527,038.46	2,094,187.04	39° 59' 29.062 N	109° 22' 47.892 W	
3,100.00	0.00	0.00	3,072.31	215.62	289.97	14,527,038.46	2,094,187.04	39° 59' 29.062 N	109° 22' 47.892 W	
3,200.00	0.00	0.00	3,172.31	215.62	289.97	14,527,038.46	2,094,187.04	39° 59' 29.062 N	109° 22' 47.892 W	
3,300.00	0.00	0.00	3,272.31	215.62	289.97	14,527,038.46	2,094,187.04	39° 59' 29.062 N	109° 22' 47.892 W	
3,400.00	0.00	0.00	3,372.31	215.62	289.97	14,527,038.46	2,094,187.04	39° 59' 29.062 N	109° 22' 47.892 W	
3,500.00	0.00	0.00	3,472.31	215.62	289.97	14,527,038.46	2,094,187.04	39° 59' 29.062 N	109° 22' 47.892 W	
3,600.00	0.00	0.00	3,572.31	215.62	289.97	14,527,038.46	2,094,187.04	39° 59' 29.062 N	109° 22' 47.892 W	
3,700.00	0.00	0.00	3,672.31	215.62	289.97	14,527,038.46	2,094,187.04	39° 59' 29.062 N	109° 22' 47.892 W	
3,800.00	0.00	0.00	3,772.31	215.62	289.97	14,527,038.46	2,094,187.04	39° 59' 29.062 N	109° 22' 47.892 W	
3,900.00	0.00	0.00	3,872.31	215.62	289.97	14,527,038.46	2,094,187.04	39° 59' 29.062 N	109° 22' 47.892 W	
4,000.00	0.00	0.00	3,972.31	215.62	289.97	14,527,038.46	2,094,187.04	39° 59' 29.062 N	109° 22' 47.892 W	



Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 922-361CS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 5028' & KB 4' @ 5032.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 5028' & KB 4' @ 5032.00ft (ASSUMED)
Site:	NBU 922-361 PAD	North Reference:	True
Well:	NBU 922-361CS	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	
4,100.00	0.00	0.00	4,072.31	215.62	289.97	14,527,038.46	2,094,187.04	39° 59' 29.062 N	109° 22' 47.892 W	
4,200.00	0.00	0.00	4,172.31	215.62	289.97	14,527,038.46	2,094,187.04	39° 59' 29.062 N	109° 22' 47.892 W	
4,300.00	0.00	0.00	4,272.31	215.62	289.97	14,527,038.46	2,094,187.04	39° 59' 29.062 N	109° 22' 47.892 W	
4,306.69	0.00	0.00	4,279.00	215.62	289.97	14,527,038.46	2,094,187.04	39° 59' 29.062 N	109° 22' 47.892 W	
WASATCH										
4,400.00	0.00	0.00	4,372.31	215.62	289.97	14,527,038.46	2,094,187.04	39° 59' 29.062 N	109° 22' 47.892 W	
4,500.00	0.00	0.00	4,472.31	215.62	289.97	14,527,038.46	2,094,187.04	39° 59' 29.062 N	109° 22' 47.892 W	
4,600.00	0.00	0.00	4,572.31	215.62	289.97	14,527,038.46	2,094,187.04	39° 59' 29.062 N	109° 22' 47.892 W	
4,700.00	0.00	0.00	4,672.31	215.62	289.97	14,527,038.46	2,094,187.04	39° 59' 29.062 N	109° 22' 47.892 W	
4,800.00	0.00	0.00	4,772.31	215.62	289.97	14,527,038.46	2,094,187.04	39° 59' 29.062 N	109° 22' 47.892 W	
4,900.00	0.00	0.00	4,872.31	215.62	289.97	14,527,038.46	2,094,187.04	39° 59' 29.062 N	109° 22' 47.892 W	
5,000.00	0.00	0.00	4,972.31	215.62	289.97	14,527,038.46	2,094,187.04	39° 59' 29.062 N	109° 22' 47.892 W	
5,100.00	0.00	0.00	5,072.31	215.62	289.97	14,527,038.46	2,094,187.04	39° 59' 29.062 N	109° 22' 47.892 W	
5,200.00	0.00	0.00	5,172.31	215.62	289.97	14,527,038.46	2,094,187.04	39° 59' 29.062 N	109° 22' 47.892 W	
5,300.00	0.00	0.00	5,272.31	215.62	289.97	14,527,038.46	2,094,187.04	39° 59' 29.062 N	109° 22' 47.892 W	
5,400.00	0.00	0.00	5,372.31	215.62	289.97	14,527,038.46	2,094,187.04	39° 59' 29.062 N	109° 22' 47.892 W	
5,500.00	0.00	0.00	5,472.31	215.62	289.97	14,527,038.46	2,094,187.04	39° 59' 29.062 N	109° 22' 47.892 W	
5,600.00	0.00	0.00	5,572.31	215.62	289.97	14,527,038.46	2,094,187.04	39° 59' 29.062 N	109° 22' 47.892 W	
5,700.00	0.00	0.00	5,672.31	215.62	289.97	14,527,038.46	2,094,187.04	39° 59' 29.062 N	109° 22' 47.892 W	
5,800.00	0.00	0.00	5,772.31	215.62	289.97	14,527,038.46	2,094,187.04	39° 59' 29.062 N	109° 22' 47.892 W	
5,900.00	0.00	0.00	5,872.31	215.62	289.97	14,527,038.46	2,094,187.04	39° 59' 29.062 N	109° 22' 47.892 W	
6,000.00	0.00	0.00	5,972.31	215.62	289.97	14,527,038.46	2,094,187.04	39° 59' 29.062 N	109° 22' 47.892 W	
6,100.00	0.00	0.00	6,072.31	215.62	289.97	14,527,038.46	2,094,187.04	39° 59' 29.062 N	109° 22' 47.892 W	
6,200.00	0.00	0.00	6,172.31	215.62	289.97	14,527,038.46	2,094,187.04	39° 59' 29.062 N	109° 22' 47.892 W	
6,300.00	0.00	0.00	6,272.31	215.62	289.97	14,527,038.46	2,094,187.04	39° 59' 29.062 N	109° 22' 47.892 W	
6,400.00	0.00	0.00	6,372.31	215.62	289.97	14,527,038.46	2,094,187.04	39° 59' 29.062 N	109° 22' 47.892 W	
6,500.00	0.00	0.00	6,472.31	215.62	289.97	14,527,038.46	2,094,187.04	39° 59' 29.062 N	109° 22' 47.892 W	
6,517.69	0.00	0.00	6,490.00	215.62	289.97	14,527,038.46	2,094,187.04	39° 59' 29.062 N	109° 22' 47.892 W	
MESAVERDE										
6,600.00	0.00	0.00	6,572.31	215.62	289.97	14,527,038.46	2,094,187.04	39° 59' 29.062 N	109° 22' 47.892 W	
6,700.00	0.00	0.00	6,672.31	215.62	289.97	14,527,038.46	2,094,187.04	39° 59' 29.062 N	109° 22' 47.892 W	
6,800.00	0.00	0.00	6,772.31	215.62	289.97	14,527,038.46	2,094,187.04	39° 59' 29.062 N	109° 22' 47.892 W	
6,900.00	0.00	0.00	6,872.31	215.62	289.97	14,527,038.46	2,094,187.04	39° 59' 29.062 N	109° 22' 47.892 W	
7,000.00	0.00	0.00	6,972.31	215.62	289.97	14,527,038.46	2,094,187.04	39° 59' 29.062 N	109° 22' 47.892 W	
7,100.00	0.00	0.00	7,072.31	215.62	289.97	14,527,038.46	2,094,187.04	39° 59' 29.062 N	109° 22' 47.892 W	
7,200.00	0.00	0.00	7,172.31	215.62	289.97	14,527,038.46	2,094,187.04	39° 59' 29.062 N	109° 22' 47.892 W	
7,300.00	0.00	0.00	7,272.31	215.62	289.97	14,527,038.46	2,094,187.04	39° 59' 29.062 N	109° 22' 47.892 W	
7,400.00	0.00	0.00	7,372.31	215.62	289.97	14,527,038.46	2,094,187.04	39° 59' 29.062 N	109° 22' 47.892 W	
7,500.00	0.00	0.00	7,472.31	215.62	289.97	14,527,038.46	2,094,187.04	39° 59' 29.062 N	109° 22' 47.892 W	
7,600.00	0.00	0.00	7,572.31	215.62	289.97	14,527,038.46	2,094,187.04	39° 59' 29.062 N	109° 22' 47.892 W	
7,700.00	0.00	0.00	7,672.31	215.62	289.97	14,527,038.46	2,094,187.04	39° 59' 29.062 N	109° 22' 47.892 W	
7,800.00	0.00	0.00	7,772.31	215.62	289.97	14,527,038.46	2,094,187.04	39° 59' 29.062 N	109° 22' 47.892 W	
7,900.00	0.00	0.00	7,872.31	215.62	289.97	14,527,038.46	2,094,187.04	39° 59' 29.062 N	109° 22' 47.892 W	
8,000.00	0.00	0.00	7,972.31	215.62	289.97	14,527,038.46	2,094,187.04	39° 59' 29.062 N	109° 22' 47.892 W	
8,100.00	0.00	0.00	8,072.31	215.62	289.97	14,527,038.46	2,094,187.04	39° 59' 29.062 N	109° 22' 47.892 W	
8,200.00	0.00	0.00	8,172.31	215.62	289.97	14,527,038.46	2,094,187.04	39° 59' 29.062 N	109° 22' 47.892 W	
8,300.00	0.00	0.00	8,272.31	215.62	289.97	14,527,038.46	2,094,187.04	39° 59' 29.062 N	109° 22' 47.892 W	
8,400.00	0.00	0.00	8,372.31	215.62	289.97	14,527,038.46	2,094,187.04	39° 59' 29.062 N	109° 22' 47.892 W	
8,500.00	0.00	0.00	8,472.31	215.62	289.97	14,527,038.46	2,094,187.04	39° 59' 29.062 N	109° 22' 47.892 W	
8,600.00	0.00	0.00	8,572.31	215.62	289.97	14,527,038.46	2,094,187.04	39° 59' 29.062 N	109° 22' 47.892 W	
8,700.00	0.00	0.00	8,672.31	215.62	289.97	14,527,038.46	2,094,187.04	39° 59' 29.062 N	109° 22' 47.892 W	



Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 922-361CS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 5028' & KB 4' @ 5032.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 5028' & KB 4' @ 5032.00ft (ASSUMED)
Site:	NBU 922-361 PAD	North Reference:	True
Well:	NBU 922-361CS	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
8,700.69	0.00	0.00	8,673.00	215.62	289.97	14,527,038.46	2,094,187.04	39° 59' 29.062 N	109° 22' 47.892 W
PBHL_NBU 922-361CS									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PBHL_NBU 922-361CS - hit/miss target - Shape - plan hits target center - Circle (radius 25.00)	0.00	0.00	8,673.00	215.62	289.97	14,527,038.46	2,094,187.04	39° 59' 29.062 N	109° 22' 47.892 W

Casing Points						
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)		
2,326.45	2,303.00	8 5/8"	8.625	11.000		

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,215.21	1,207.00	GREEN RIVER			
4,306.69	4,279.00	WASATCH			
6,517.69	6,490.00	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	
775.00	772.83	23.44	31.53	Start 1679.25 hold at 775.00 MD	
2,454.25	2,429.05	188.83	253.93	Start Drop -1.75	
2,997.11	2,969.42	215.62	289.97	Start 5703.58 hold at 2997.11 MD	
8,700.69	8,673.00	215.62	289.97	TD at 8700.69	

NBU 922-36H4BS

Surface: 2006' FSL 799' FEL (NE/4SE/4)
BHL: 2071' FNL 494' FEL (SE/4NE/4)

NBU 922-36H4CS

Surface: 2014' FSL 792' FEL (NE/4SE/4)
BHL: 2508' FNL 495' FEL (SE/4NE/4)

NBU 922-36I1CS

Surface: 2021' FSL 785' FEL (NE/4SE/4)
BHL: 2237' FSL 494' FEL (NE/4SE/4)

NBU 922-36I4CS

Surface: 1999' FSL 805' FEL (NE/4SE/4)
BHL: 1574' FSL 493' FEL (NE/4SE/4)

Pad: NBU 922-36I 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.

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36I1CS/ 36I4CS

Surface Use Plan of Operations
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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:

No new access road is proposed. (see Topo Map B). Applicable Uintah County encroachment and/or pipeline crossing permits will be obtained prior to construction/development. No other pipelines will be crossed at this location.

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 922-36I. The NBU 922-36I well location is a vertical producing well according to Utah Division of Oil, Gas and Mining (UDOGM) records as of May 5, 2011.

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 $\pm 2,375'$ and the individual segments are broken up as follows:

- $\pm 460'$ (0.09 miles) –New 6” buried gas pipeline from the meter to the edge of the pad. Please refer to Topo D2.
- $\pm 30'$ (0.01 miles) –New 6” buried gas pipeline from the edge of pad to the proposed 8” buried gas pipeline tie-in at the 36P intersection. Please refer to Topo D.
- $\pm 1,245'$ (0.25 miles) –New 8” buried gas pipeline from the proposed 36P intersection to the proposed 16” buried gas pipeline at the 36B intersection. Please refer to Topo D.
- $\pm 640'$ (0.12 miles) –New 16” buried gas pipeline from the proposed 36B intersection to the proposed 36G3 intersection. Please refer to Topo D.

The total liquid gathering pipeline distance from the separator to the tie in point is $\pm 2,375'$ and the individual segments are broken up as follows:

- $\pm 460'$ (0.09 miles) –New 6” buried liquid pipeline from the separator to the edge of the pad. Please refer to Topo D.
- $\pm 30'$ (0.01 miles) –New 6” buried liquid pipeline from the edge of pad to the proposed 6” buried liquid pipeline tie-in at the 36P intersection. Please refer to Topo D.
- $\pm 1,245'$ (0.25 miles) –New 6” buried liquid pipeline from the proposed 36P intersection to the proposed 6” buried liquid pipeline tie-in at the 36B intersection. Please refer to Topo D.
- $\pm 640'$ (0.12 miles) –New 6” buried liquid pipeline from the proposed 36B intersection to the proposed 6” buried liquid pipeline tie-in at the 36G3 intersection. 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.

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:

**NBU 922-36H4BS / 36H4CS/
36I1CS/ 36I4CS**

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RNI in Sec. 5 T9S R22E
Ace Oilfield in Sec. 2 T6S R20E
MC&MC in Sec. 12 T6S R19E
Pipeline Facility in Sec. 36 T9S R20E
Goat Pasture Evaporation Pond in SW/4 Sec. 16 T10S R22E
Bonanza Evaporation Pond in Sec. 2 T10S R23E
Ouray #1 SWD in Sec. 1 T9S R21E
NBU 159 SWD in Sec. 35 T9S R21E
CIGE 112D SWD in Sec. 19 T9S R21E
CIGE 114 SWD in Sec. 34 T9S R21E
NBU 921-34K SWD in Sec. 34 T9S R21E
NBU 921-33F SWD in Sec. 33 T9S R21E
NBU 921-34L SWD in Sec. 34 T9S R21E

Drill cuttings and/or fluids will be contained in the reserve/frac pit. Cuttings will be buried in pit(s) upon closure. Unless otherwise approved, no oil or other oil-based drilling additives, chromium/metals-based, or saline muds will be used during drilling. Only fresh water (as specified above), biodegradable polymer soap, bentonite clay, and/or non-toxic additives will be used in the mud system.

Pits will be constructed to minimize the accumulation of surface runoff. Should fluid hydrocarbons be encountered during drilling, completions or well testing, product will either be contained in test tanks on the well site or evacuated by vacuum trucks and transported to an approved disposal/sales facility. Should petroleum hydrocarbons unexpectedly be released into a pit, they will be removed as soon as practical but in no case will they remain longer than 72 hours unless an alternate is approved by SITLA. Should timely removal prove infeasible, the pit will be netted with mesh no larger than 1 inch until such time as hydrocarbons can be removed. Hydrocarbon removal will also take place prior to the closure of the pit, unless authorization is provided for disposal via alternative pit closure methods (e.g. solidification).

The reserve and/or fracture stimulation pit will be lined with a synthetic material 20-mil or thicker. The liner will be installed over smooth fill subgrade that is free of pockets, loose rocks, or other materials (i.e. sand, sifted dirt, bentonite, straw, etc.) that could damage the liner. Any additional pits necessary 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.

**NBU 922-36H4BS / 36H4CS/
36I1CS/ 36I4CS**

**Surface Use Plan of Operations
Page 9**

J. Surface/Mineral Ownership:

SITLA

675 East 500 South, Suite 500

Salt Lake City, UT 84102

K. Other Information:

None

NBU 922-36H4BS / 36H4CS/
36I1CS/ 36I4CSSurface Use Plan of Operations
Page 10**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 12, 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 922-36I1CS
T9S-R22E
Section 36: NESE/NESE
Surface: 2021' FSL, 785' FEL
Bottom Hole: 2237' FSL, 494' FEL
Uintah County, Utah

Dear Ms. Mason:

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

- Kerr-McGee's NBU 922-36I1CS 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

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
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(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 922-3611CS			
String	Surf	Prod		
Casing Size(")	8.625	4.500		
Setting Depth (TVD)	2277	8673		
Previous Shoe Setting Depth (TVD)	40	2277		
Max Mud Weight (ppg)	8.4	12.5		
BOPE Proposed (psi)	500	5000		
Casing Internal Yield (psi)	3390	7780		
Operators Max Anticipated Pressure (psi)	5550	12.3		

Calculations	Surf String	8.625	"
Max BHP (psi)	.052*Setting Depth*MW=	995	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	722	NO <input type="checkbox"/> air drill
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	494	YES <input type="checkbox"/> OK
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	503	NO <input type="checkbox"/> Reasonable
Required Casing/BOPE Test Pressure=		2277	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=	5637	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	4596	YES <input type="checkbox"/>
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	3729	YES <input type="checkbox"/> OK
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	4230	NO <input type="checkbox"/> Reasonable
Required Casing/BOPE Test Pressure=		5000	psi
*Max Pressure Allowed @ Previous Casing Shoe=		2277	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="checkbox"/>
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=		NO <input type="checkbox"/>
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=		NO <input type="checkbox"/>
Required Casing/BOPE Test Pressure=			psi
*Max Pressure Allowed @ Previous Casing Shoe=			psi *Assumes 1psi/ft frac gradient

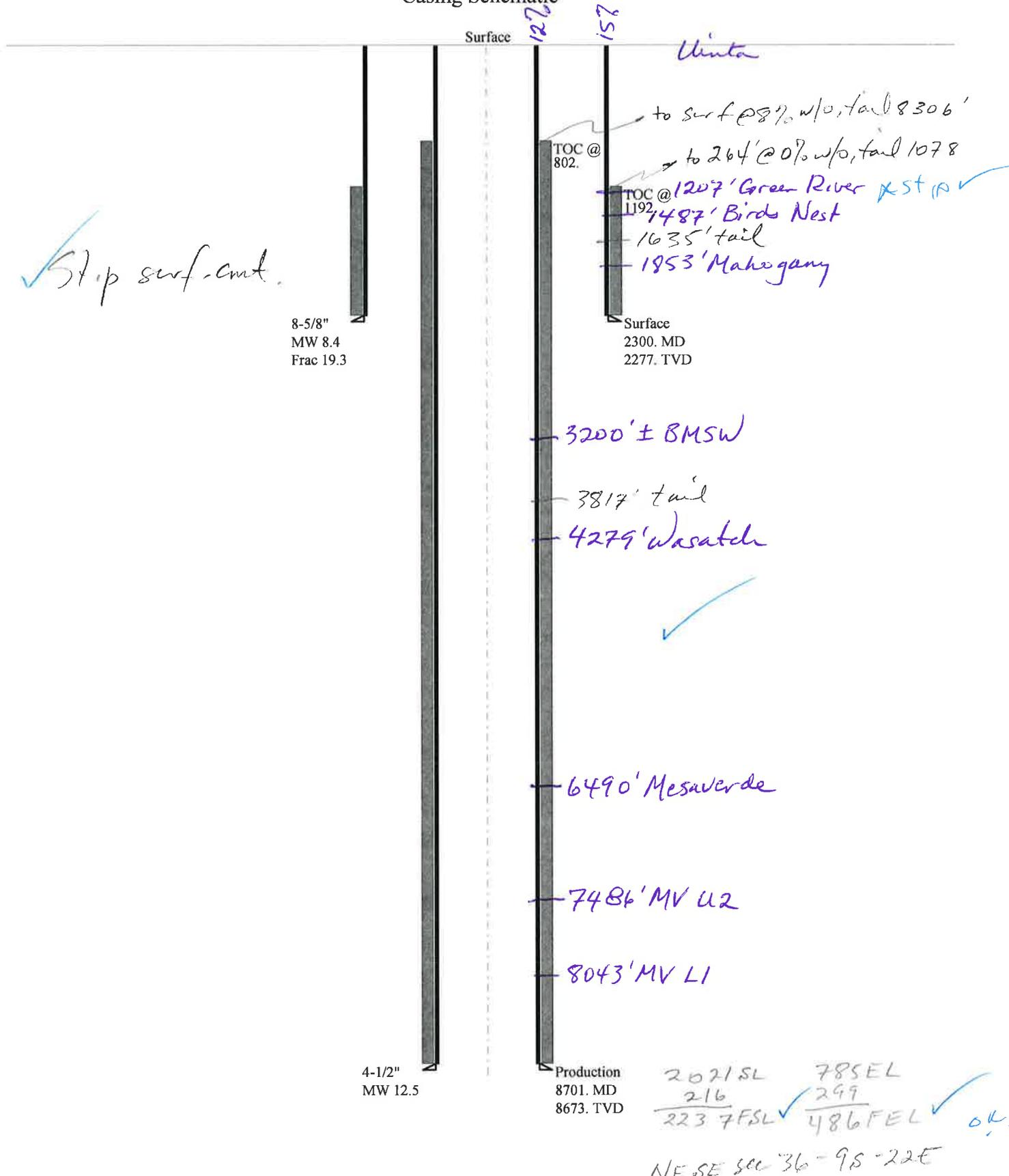
Calculations	String		"
Max BHP (psi)	.052*Setting Depth*MW=		
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=		NO <input type="checkbox"/>
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=		NO <input type="checkbox"/>
			*Can Full Expected Pressure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

API Well Number: 43047515880000

*Max Pressure Allowed @ Previous Casing Shoe=	<input type="text"/>	psi *Assumes 1psi/ft frac gradient
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43047515880000 NBU 922-36I1CS

Casing Schematic



Well name:	43047515880000 NBU 922-3611CS		
Operator:	KERR-MCGEE OIL & GAS ONSHORE, L.P.		
String type:	Surface	Project ID:	43-047-51588
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: 106 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 100 ft

Cement top: 1,192 ft

Burst

Max anticipated surface pressure: 2,024 psi
Internal gradient: 0.120 psi/ft
Calculated BHP 2,297 psi

No backup mud specified.

Tension:

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

Tension is based on air weight.
Neutral point: 2,014 ft

Directional Info - Build & Drop

Kick-off point 300 ft
Departure at shoe: 291 ft
Maximum dogleg: 2 °/100ft
Inclination at shoe: 9.5 °

Re subsequent strings:

Next setting depth: 8,701 ft
Next mud weight: 12.500 ppg
Next setting BHP: 5,650 psi
Fracture mud wt: 19.250 ppg
Fracture depth: 2,300 ft
Injection pressure: 2,300 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	2300	8.625	28.00	I-55	LT&C	2277	2300	7.892	91076
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	994	1880	1.892	2297	3390	1.48	63.8	348	5.46 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 2277 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:	43047515880000 NBU 922-3611CS		
Operator:	KERR-MCGEE OIL & GAS ONSHORE, L.P.		
String type:	Production	Project ID:	43-047-51588
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: 802 ft

Burst

Max anticipated surface pressure: 3,724 psi
 Internal gradient: 0.220 psi/ft
 Calculated BHP 5,632 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: 7,080 ft

Directional Info - Build & Drop

Kick-off point 300 ft
 Departure at shoe: 361 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	8701	4.5	11.60	I-80	LT&C	8673	8701	3.875	114852
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	5632	6360	1.129	5632	7780	1.38	100.6	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 8673 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 922-36I1CS
API Number 43047515880000 **APD No** 3805 **Field/Unit** NATURAL BUTTES
Location: 1/4,1/4 NESE **Sec** 36 **Tw** 9.0S **Rng** 22.0E 2021 FSL 785 FEL
GPS Coord (UTM) 638219 4427781 **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 45.5 road miles following Utah State, Uintah County and oilfield development roads to the location.

Four additional gas wells will be added to and directionally drilled from the NBU 922-36I pad. They are the NBU 922-36I1CS, NBU 922-36H4CS, NBU 922-36H4BS and NBU 922-36I4CS. The pad contains the existing NBU 922-36I gas well. The existing pad will be significantly enlarged. The site is in moderately rough terrain. The reserve pit is tapered on the northeast and the pad tapered on the southwest to avoid the steep terrain. Any drainage from the south will be caught with spoils during drilling. When closing the pit, this drainage should be reconstructed across the pit and pad area along the contour rejoining the drainage on the west. A deep draw to the north has been avoided. Where the pad is cut into the steep side slopes, leave the cut slope at about $\frac{1}{4}$:1 to reduce the amount of cutting and disturbance. Maximum cut is 23.9 feet at Corner 5 and maximum fill is 6.7 feet at Corner 12. The White River is approximately 1 $\frac{3}{4}$ miles to the west. The existing pad shows no stability problems and the site has no significant concerns for constructing an enlarged pad and drilling and operating the planned wells. It is the only suitable location in the immediate area.

Both the surface and minerals are owned by SITLA.

Surface Use Plan

Current Surface Use

New Road Miles	Well Pad Width Length	Src Const Material	Surface Formation
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Ancillary Facilities

Waste Management Plan Adequate?

Environmental Parameters

Affected Floodplains and/or Wetlands

Flora / Fauna

Soil Type and Characteristics

Erosion Issues

Sedimentation Issues

Site Stability Issues

Drainage Diversion Required?

Berm Required?

Erosion Sedimentation Control Required?

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

Reserve Pit

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

Characteristics / Requirements

The reserve pit is planned mostly in an area of cut in the northwest side of the location. Dimensions are 100' x 216' x 12' deep with 2' of freeboard. The east end of the pit is tapered to avoid excessive cut in this area. Because the length of time the reserve pit will be used and the roughness of the terrain, Kerr McGee committed to line it with a 30-mil.liner and an appropriate thickness of felt sub-liner to cushion the rock.

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
3805	43047515880000	SITLA	GW	S	No
Operator	KERR-MCGEE OIL & GAS ONSHORE, L.P.		Surface Owner-APD		
Well Name	NBU 922-36I1CS		Unit	NATURAL BUTTES	
Field	NATURAL BUTTES		Type of Work	DRILL	
Location	NESE 36 9S 22E S 2021 FSL 785 FEL GPS Coord (UTM) 638212E 4427787N				

Geologic Statement of Basis

Kerr McGee proposes to set 2,300' 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 ¾ 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 45.5 road miles following Utah State, Uintah County and oilfield development roads to the location.

Four additional gas wells will be added to and directionally drilled from the NBU 922-36I pad. They are the NBU 922-36I1CS, NBU 922-36H4CS, NBU 922-36H4BS and NBU 922-36I4CS. The pad contains the existing NBU 922-36I gas well. The existing pad will be significantly enlarged. The site is in moderately rough terrain. The reserve pit is tapered on the northeast and the pad tapered on the southwest to avoid the steep terrain. Any drainage from the south will be caught with spoils during drilling. When closing the pit, this drainage should be reconstructed across the pit and pad area along the contour rejoining the drainage on the west. A deep draw to the north has been avoided. Where the pad is cut into the steep side slopes, leave the cut slope at about ¼:1 to reduce the amount of cutting and disturbance. Maximum cut is 23.9 feet at Corner 5 and maximum fill is 6.7 feet at Corner 12. The White River is approximately 1 ¾ miles to the west. The existing pad shows no stability problems and the site has no significant concerns for constructing an enlarged pad and drilling and operating the planned wells. It 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: 43047515880000

WELL NAME: NBU 922-36I1CS

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

PHONE NUMBER: 720 929-6086

CONTACT: Gina Becker

PROPOSED LOCATION: NESE 36 090S 220E

Permit Tech Review:

SURFACE: 2021 FSL 0785 FEL

Engineering Review:

BOTTOM: 2237 FSL 0494 FEL

Geology Review:

COUNTY: UINTAH

LATITUDE: 39.99085

LONGITUDE: -109.38112

UTM SURF EASTINGS: 638212.00

NORTHINGS: 4427787.00

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 922-3611CS

API Well Number: 43047515880000

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:
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 922-3611CS
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		9. API NUMBER: 43047515880000
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2021 FSL 0785 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NESE 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"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER: <input style="width: 50px;" type="text"/>	
<input checked="" type="checkbox"/> SPUD REPORT Date of Spud: 10/20/2011	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION	
<input type="checkbox"/> DRILLING REPORT Report Date:		
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.		
MIRU PETE MARTIN BUCKET RIG. DRILLED 20" CONDUCTOR HOLE TO 40'. RAN 14" 36.7# SCHEDULE 10 PIPE. CMT W/28 SX READY MIX. SPUD WELL ON 10/20/2011 AT 0900 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 10/25/2011	

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
4304751588	NBU 922-3611CS		NESE	36	9S	22E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
B	99999	2900	10/20/2011			10/31/11	
Comments: MIRU PETE MARTIN BUCKET RIG. <i>WSMVD</i> SPUD WELL ON 10/20/2011 AT 0900 HRS. <i>BAL = NESE</i>							

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304751587	NBU 922-36H4CS		NESE	36	9S	22E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
B	99999	2900	10/20/2011			10/31/11	
Comments: MIRU PETE MARTIN BUCKET RIG. <i>WSMVD</i> SPUD WELL ON 10/20/2011 AT 1600 HRS. <i>BAL = SENE</i>							

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304751586	NBU 922-36H4BS		NESE	36	9S	22E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
B	99999	2900	10/20/2011			10/31/11	
Comments: MIRU PETE MARTIN BUCKET RIG. <i>WSMVD</i> SPUD WELL ON 10/20/2011 AT 1300 HRS. <i>BAL = SENE</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

10/25/2011

Date

(5/2000)

RECEIVED

OCT 25 2011

DIV. OF OIL, GAS & MINING

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:
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 922-3611CS
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		9. API NUMBER: 43047515880000
PHONE NUMBER: 720 929-6515 Ext		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2021 FSL 0785 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NESE 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 style="width: 50px;" type="text"/>	
<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	
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 10/31/2011		
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.		
MIRU AIR RIG ON OCTOBER 28, 2011. DRILLED SURFACE HOLE TO 2360'. 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 Regularatory Analyst
SIGNATURE N/A	DATE 11/1/2011	

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
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		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: NBU 922-3611CS	
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047515880000	
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: 2021 FSL 0785 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NESE 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"/> ALTER CASING
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 10/31/2011	<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: <input type="text"/>
		<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
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.		
MIRU AIR RIG ON OCTOBER 28, 2011. DRILLED SURFACE HOLE TO 2360'. 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 11/1/2011	

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 922-3611CS	
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047515880000	
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		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 12/15/2011 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input checked="" type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	
	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.		
<p>The operator requests approval for changes in the drilling plan. Specifically, the Operator requests approval for a FIT waiver, closed loop drilling option, and a production casing change. All other aspects of the previously approved drilling plan will not change. These proposals do not deviate from previously submitted and approved plans. Please see attachments. Thank you.</p>		
		<p>Approved by the Utah Division of Oil, Gas and Mining</p> <p>Date: <u>12/20/2011</u></p> <p>By: <u><i>Derek Duff</i></u></p>
NAME (PLEASE PRINT) Jaime Scharnowske	PHONE NUMBER 720 929-6304	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 12/15/2011	

Kerr-McGee Oil & Gas Onshore. L.P.**NBU 922-3611CS**

Surface:	2021 FSL / 785 FEL	NESE
BHL:	2237 FSL / 494 FEL	NESE

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	1,207'	
Birds Nest	1,487'	Water
Mahogany	1,853'	Water
Wasatch	4,279'	Gas
Mesaverde	6,490'	Gas
MVU2	7,486'	Gas
MVL1	8,043'	Gas
TVD	8,673'	
TD	8,701'	

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 8673' TVD, approximately equals
5,551 psi 0.64 psi/ft = actual bottomhole gradient

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

Maximum anticipated surface pressure equals approximately 3,630 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.

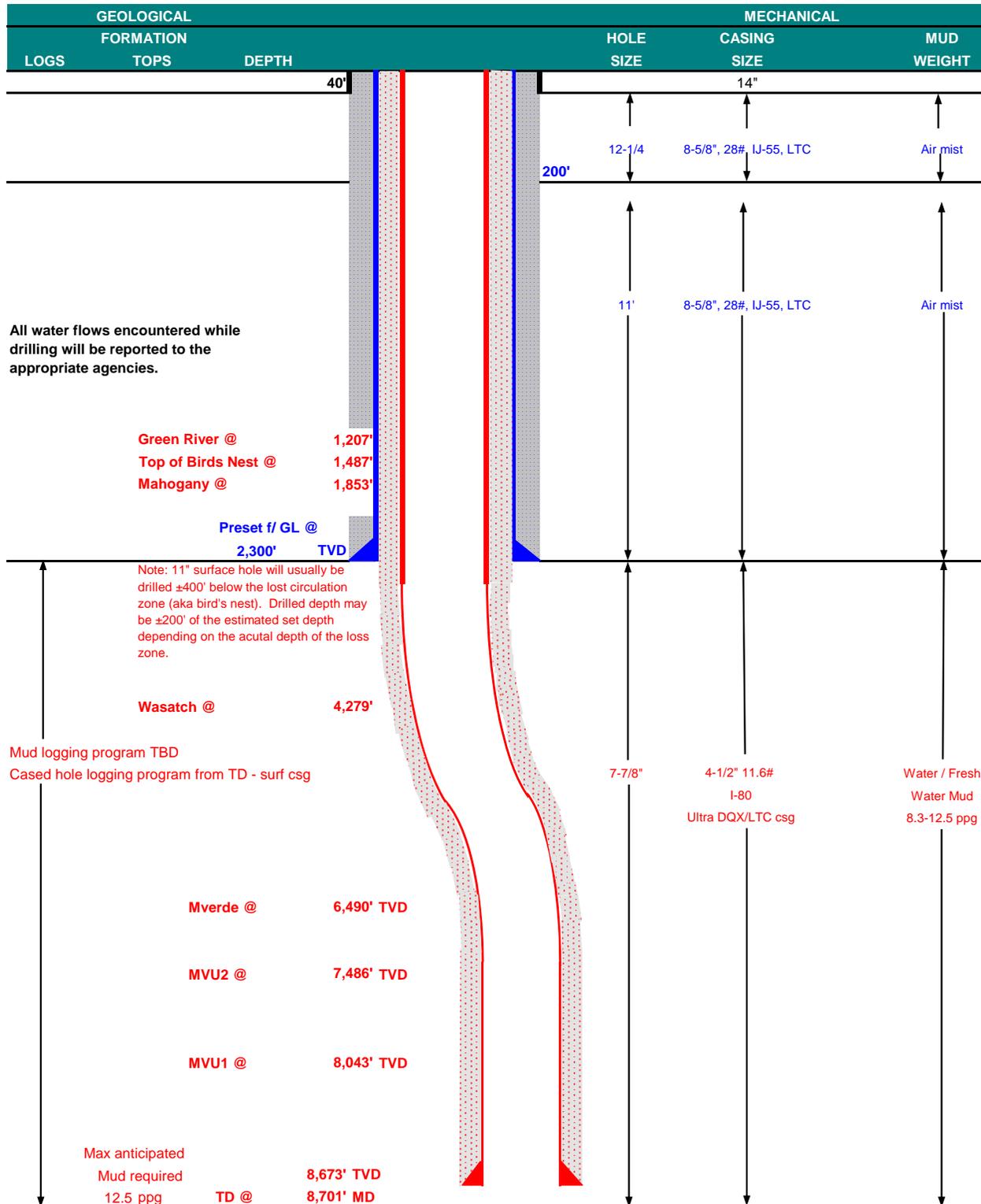
10. **Other Information:**

Please refer to the attached Drilling Program.



KERR-McGEE OIL & GAS ONSHORE LP DRILLING PROGRAM

COMPANY NAME	KERR-McGEE OIL & GAS ONSHORE LP			DATE	December 15, 2011		
WELL NAME	NBU 922-3611CS			TD	8,673' TVD	8,701' MD	
FIELD	Natural Buttes	COUNTY	Uintah	STATE	Utah	FINISHED ELEVATION	5,029'
SURFACE LOCATION	NESE	2021 FSL	785 FEL	Sec 36	T 9S	R 22E	
	Latitude: 39.990814		Longitude: -109.381005		NAD 27		
BTM HOLE LOCATION	NESE	2237 FSL	494 FEL	Sec 36	T 9S	R 22E	
	Latitude: 39.991406		Longitude: -109.379970		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	LTC		DQX
							COLLAPSE	TENSION	
CONDUCTOR	14"	0-40'				3,390	1,880	348,000	N/A
SURFACE	8-5/8"	0 to 2,300	28.00	IJ-55	LTC	2.35	1.75	6.17	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		3.27
						1.11	1.13	6.42	

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	180	60%	15.80	1.15
	Option 1		+ 0.25 pps flocele				
	TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt	270	0%	15.80	1.15
			+ 2% CaCl + 0.25 pps flocele				
NOTE: If well will circulate water to surface, option 2 will be utilized							
SURFACE	LEAD	1,800'	65/35 Poz + 6% Gel + 10 pps gilsonite	170	35%	11.00	3.82
			+ 0.25 pps Flocele + 3% salt BWOW				
	TAIL	500'	Premium cmt + 2% CaCl	150	35%	15.80	1.15
			+ 0.25 pps flocele				
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.80	1.15
PRODUCTION	LEAD	3,771'	Premium Lite II +0.25 pps	280	20%	12.00	3.38
			celloflake + 5 pps gilsonite + 10% gel				
			+ 0.5% extender				
	TAIL	4,930'	50/50 Poz/G + 10% salt + 2% gel	1,170	35%	14.30	1.31
			+ 0.1% R-3				

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

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

FLOAT EQUIPMENT & CENTRALIZERS

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe
PRODUCTION	Float shoe, 1 jt, float collar. 15 centralizers for a Mesaverde and 20 for a Blackhawk. 1 on first 3 joints and 1 every third from there up.

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

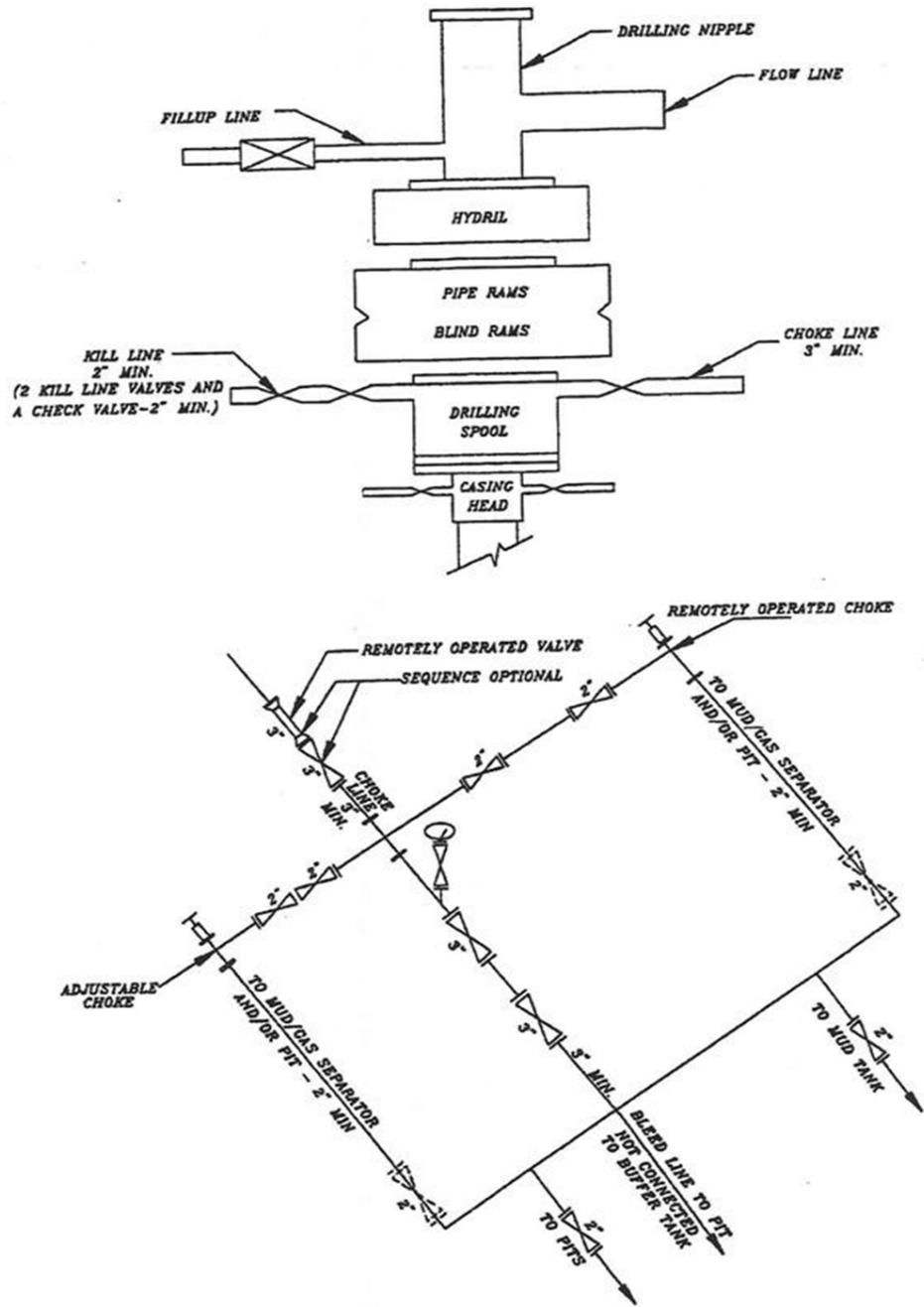
DATE:

DRILLING SUPERINTENDENT:

Kenny Gathings / Lovel Young

DATE:

EXHIBIT A NBU 922-3611CS



SCHEMATIC DIAGRAM OF 5,000 PSI BOP STACK

Requested Drilling Options:

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.

BLM - Vernal Field Office - Notification Form

Operator ANADARKO Rig Name/# ENSIGN 139
Submitted By SID ARMSTRONG Phone Number 435- 828-0984
Well Name/Number NBU 922 - 36I1CS
Qtr/Qtr NE/SE Section 36 Township 9S Range 22E
Lease Serial Number ML-22650
API Number 43047515880000

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

Date/Time _____ AM PM

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

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

RECEIVED

JAN 04 2012

DIV. OF OIL, GAS & MINING

Date/Time _____ AM PM

BOPE

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

Date/Time 1/7/2012 09:00 AM PM

Remarks WILL BE MOVING TO NBU 922 - 36I PAD & TESTING B.O.P'S

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 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 922-361CS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047515880000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6511 9. FIELD and POOL or WILDCAT: NATURAL BUTTES
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11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
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<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 1/13/2012	<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
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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.

MIRU ROTARY RIG. FINISHED DRILLING FROM 2360' TO 8730' ON JAN. 11, 2012. RAN 4-1/2" 11.6# I-80 PRODUCTION CASING. CEMENTED PRODUCTION CASING. RELEASED ENSIGN RIG 139 ON JAN. 13, 2012 @ 14:00 HRS. DETAILS OF CEMENT JOB WILL BE INCLUDED WITH THE WELL COMPLETION REPORT. WELL IS WAITING ON FINAL COMPLETION ACTIVITIES.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
 January 13, 2012

NAME (PLEASE PRINT) Jaime Scharnowske	PHONE NUMBER 720 929-6304	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 1/13/2012	

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Operator ANADARKO Rig Name/# ENSIGN 139
Submitted By SID ARMSTRONG Phone Number 435- 828-0984
Well Name/Number NBU 922 - 36I1CS
Qtr/Qtr NE/SE Section 36 Township 9S Range 22E
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- Production Casing
- Liner
- Other

RECEIVED
JAN 10 2012
DIV. OF OIL, GAS & MINING

Date/Time 1/12/2012 08:00 AM PM

BOPE

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

Date/Time _____ AM PM

Remarks WILL BE MOVING TO NBU 922-36H4CS & TESTING B.O.P'S

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
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		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start: <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input checked="" type="checkbox"/> DRILLING REPORT Report Date: 3/16/2012	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input checked="" type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	
	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input 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 03/16/2012 AT 1200 HRS. THE CHRONOLOGICAL WELL HISTORY WILL BE SUBMITTED WITH THE WELL COMPLETION REPORT.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY March 19, 2012		
NAME (PLEASE PRINT) Sheila Wopsock	PHONE NUMBER 435 781-7024	TITLE Regulatory Analyst
SIGNATURE N/A		DATE 3/19/2012

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 922-361CS

9. API NUMBER:
4304751588

10. FIELD AND POOL, OR WILDCAT
NATURAL BUTTES

11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
NESE 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: **NESE 2021 FSL 785 FEL S36,T9S,R22E**
AT TOP PRODUCING INTERVAL REPORTED BELOW: **NESE 2248 FSL 492 FEL S36,T9S,R22E**
AT TOTAL DEPTH: **NESE 2222 FSL 489 FEL S36,T9S,R22E** *BHL by HSM*

14. DATE SPURRED: **10/20/2011** 15. DATE T.D. REACHED: **1/11/2012** 16. DATE COMPLETED: **3/16/2012** ABANDONED READY TO PRODUCE

17. ELEVATIONS (DF, RKB, RT, GL): **5028 GL**

18. TOTAL DEPTH: MD **8,730** 19. PLUG BACK T.D.: MD **8,693** 20. IF MULTIPLE COMPLETIONS, HOW MANY? *
TVD **8,695** TVD **8,658**

21. DEPTH BRIDGE MD PLUG SET: TVD

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)
BHV-DSN/SD/ACTR-CBL/GR/COLLARS/TEMP

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	8,737		1,495		950	

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"	7,953							

26. PRODUCING INTERVALS					27. PERFORATION RECORD				
FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)	INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS	
(A) WASATCH	5,186	5,322			5,186 5,322	0.36	24	Open <input checked="" type="checkbox"/>	Squeezed <input type="checkbox"/>
(B) MESAVERDE	6,900	8,581			6,900 8,581	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"/>

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

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
6900-8581	PUMP 6,205 BBLs SLICK H2O & 115,471 LBS 30/50 OTTAWA SAND
	PERF'D & FRAC'D 7 STAGES; DID NOT PERF OR FRAC STAGE 8; DID NOT FRAC STAGE 9

29. ENCLOSED ATTACHMENTS:

ELECTRICAL/MECHANICAL LOGS GEOLOGIC REPORT DST REPORT DIRECTIONAL SURVEY

SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION CORE ANALYSIS OTHER: _____

30. WELL STATUS:
PROD RECEIVED

31. INITIAL PRODUCTION

INTERVAL A (As shown in Item #26)

DATE FIRST PRODUCED: 3/16/2012		TEST DATE: 3/18/2012		HOURS TESTED: 24		TEST PRODUCTION RATES: →	OIL - BBL: 0	GAS - MCF: 962	WATER - BBL: 432	PROD. METHOD: FLOWING
CHOKE SIZE: 20/64	TBG. PRESS. 770	CSG. PRESS. 2,328	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL - BBL: 0	GAS - MCF: 962	WATER - BBL: 432	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	1,207
				BIRD'S NEST	1,497
				MAHOGANY	1,869
				WASATCH	4,326
				MESAVERDE	6,496

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 4852'; LTC csg was run from 4852' to 8737'. Attached is the chronological well history, perforation report & final survey.

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

NAME (PLEASE PRINT) JAMIE SCHARNOWSKE TITLE REGULATORY ANALYST

SIGNATURE *Jamie Scharnowske* DATE 5/8/2012

This report must be submitted within 30 days of

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

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

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

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

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

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 922-361CS RED		Spud Date: 10/29/2011	
Project: UTAH-UINTAH		Site: NBU 922-361 PAD	Rig Name No: ENSIGN 139/139, PROPETRO 11/11
Event: DRILLING		Start Date: 10/19/2011	End Date: 1/13/2012
Active Datum: RKB @5,042.01ft (above Mean Sea Level)		UWI: NE/SE/0/9/S/22/E/36/0/0/26/PM/S/2021/E/0/785/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
10/28/2011	21:30 - 0:00	2.50	MIRU	01	A	P		HELD SAFETY MEETING,LOAD OUT TRUCKS,MOVE PIT PUMP,BOB CAT,ANDTRUCKS TO THE NBU 922-361 PAD 20 MILE MOVE.
10/29/2011	0:00 - 6:00	6.00	MIRU	01	A	P		HELD SAFETY MEETING,LOAD OUT TRUCKS,MOVE PIT PUMP,BOB CAT,ANDTRUCKS TO THE NBU 922-361 PAD 20 MILE MOVE.
	6:00 - 14:30	8.50	MIRU	01	A	P		HELD SAFETY MEETING WITH JD FILD SERVICE, MOVE SHACKS AND FORK LIFT,FRACK TANKS,DIESEL TANK TO THE NBU 922-361CS. 20 MILE.
	14:30 - 19:30	5.00	PRSPD	01	B	P		MIRU ,DRESS CONDUCTOR, INSTALL BLOOIE LINE,CENTER RIG OVER HOLE,R/U & PRIME MUD PUMP & RESERVE PIT
	19:30 - 20:00	0.50	DRLSUR	01	B	P		INSTALL ROTATING HEAD LEVEL RIG.
	20:00 - 22:00	2.00	DRLSUR	02	B	P		SPUD @ 20:00 10/29/2011 DRLG 12 1/4" SURFACE HOLE F/40' T/210'
	22:00 - 23:00	1.00	DRLSUR	06	A	P		POOH F/DIRECTIONAL TOOLS
	23:00 - 0:00	1.00	DRLSUR	06	A	P		M/U 11" SURF. BIT,P/U DIR TOOLS & SCRIBE TIH T/210'
10/30/2011	0:00 - 0:30	0.50	DRLSUR	06	A	P		FINISH THE TIH T/210'
	0:30 - 6:00	5.50	DRLSUR	02	B	P		DRILL/ SLIDE 11" SURFACE HOLE F/ 210'-820 (610' @ 110'/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
	6:00 - 18:00	12.00	DRLSUR	02	B	P		DRILL/ SLIDE 11" SURFACE HOLE F/ 820-2050'(1230' @ 102'/HR) PSI ON/ OFF 1460/1350, UP/ DOWN/ ROT 81/61/70. 136 SPM, 18-20K WOB, 41 RPM ON TOP DRIVE, (LOST CIRC @ 1510 PUT AIR MIST ON HOLE @ 2420 CFM)
	18:00 - 22:00	4.00	DRLSUR	02	B	P		DRILL/ SLIDE 11" SURFACE HOLE F/ 2050'-2360(310' @ 77.5'/HR) PSI ON/ OFF 1450/1250, UP/ DOWN/ ROT 89/70/75. 136 SPM, 18-20K WOB, 41 RPM ON TOP DRIVE, (AIR MIST ON HOLE @ 2420 CFM)
	22:00 - 23:30	1.50	DRLSUR	05	C	P		CIRC. & COND. F/8 5/8 28# J55 CASING RUN
	23:30 - 0:00	0.50	DRLSUR	06	A	P		LDDS, BHA & DIR, TOOLS
10/31/2011	0:00 - 3:00	3.00	DRLSUR	06	A	P		LDDS, BHA & DIR, TOOLS
	3:00 - 4:00	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
	4:00 - 7:00	3.00	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 @2315.0 & BAFFLE @ 2268.97
	7:00 - 8:00	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 922-361CS RED

Spud Date: 10/29/2011

Project: UTAH-UINTAH

Site: NBU 922-361 PAD

Rig Name No: ENSIGN 139/139, PROPETRO 11/11

Event: DRILLING

Start Date: 10/19/2011

End Date: 1/13/2012

Active Datum: RKB @5,042.01ft (above Mean Sea Level)

UWI: NE/SE/0/9/S/22/E/36/0/0/26/PM/S/2021/E/0/785/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	8:00 - 9:00	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 (81.4 BBLS) OF 15.8# 1.15 YIELD TAIL(2% CALC, 1/4#/SK OF FLOCELE).DROP PLUG ON FLY AND DISPLACE W 141 BBLS OF 8.4# H2O. LIFT PRESSURE WAS 330 PSI, BUMP PLUG AND HOLD 820 PSI FOR 5 MIN. FLOAT HELD NO RETURNS.
	9:00 - 10:00	1.00	DRLSUR	12	E	P		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
	10:00 - 12:00	2.00	DRLSUR	12	E	P		TOP OUT DOWN BACK SIDE OF PERVIOUS WELLS WITH (50 SKS) 46.1 BBLS. 15.8 LB. CEMENT TO SURFACE THEN FELL 50+ FEET. REALESE RIG @ 12:00 10/31/2011
1/5/2012	6:00 - 0:00	18.00	DRLPRO	01	E	P		TOP OUT CMT 11/04/2011 FINISH CLEANING MUD TANKS @ 15:30 & R.D.R.T & GET READY FOR RIG MOVE & MOVE CAMP HOUSES - WILL BE MOVING THIS AM W/ JONES TRUCKING TO NBU 922 - 361CS
1/6/2012	0:00 - 6:00	6.00	DRLPRO	01	E	P		R/D RIG GET READY FOR TRUCKS
	6:00 - 14:00	8.00	DRLPRO	01	A	P		MOVE RIG WITH JONES TRUCKING HAD 3 BED TRUCK - 4 HAUL TRUCKS - 2 FORK LIFTS - TRUCK LEFT LOC. @ 02:00
1/7/2012	14:00 - 0:00	10.00	DRLPRO	01	B	P		R.U.R.T & RAISE DERRICK & CONT TO RIG UP
	0:00 - 5:00	5.00	DRLPRO	01	B	P		R.U.R.T & GET READY FOR SPUD
	5:00 - 6:00	1.00	DRLPRO	14	A	P		N/U B.O.P'S
	6:00 - 10:00	4.00	DRLPRO	15	A	P		TEST B.O.P'S
	10:00 - 10:30	0.50	DRLPRO	14	B	P		SET WEAR BUSHING
	10:30 - 11:30	1.00	DRLPRO	23		P		STRAP BHA & RIG INSPECTION & PRE SPUP S/M
	11:30 - 14:30	3.00	DRLPRO	06	A	P		P/U BIT-MOTOR & BHA
	14:30 - 15:30	1.00	DRLPRO	07	B	P		LEVEL DERRICK OVER CENTER HOLE
	15:30 - 16:30	1.00	DRLPRO	06	A	P		CONT. T.I.H & TAG CEMENT @ 2240
	16:30 - 19:00	2.50	DRLPRO	02	F	P		DRILL SHOE TRACK
	19:00 - 0:00	5.00	DRLPRO	02	D	P		DRILL F/2370 TO 2836 = 466' AVG 93.2 ,WOB 18/20,RPM 40/110,GPM 540,PSI 1000/1300,TORQ 5/8K,SLIDE 40-' @ 7%
1/8/2012	0:00 - 13:00	13.00	DRLPRO	02	D	P		DRILL F/ 2836 TO 4071 = 1235 ' @ 95.0 ,WOB 18/20,RPM 40/110,GPM 540,PSI 1000/1300,TORQ 5/8K,SLIDE 315 ' @ 25%
	13:00 - 13:30	0.50	DRLPRO	07	A	P		SER RIG
	13:30 - 0:00	10.50	DRLPRO	02	D	P		DRILL F/ 4071 TO 5064 = 993 ' @ 94.5 ,WOB 18/20,RPM 40/110,GPM 540,PSI 1300/1600,TORQ 5/8K,SLIDE 230 ' @ 23%
1/9/2012	0:00 - 15:00	15.00	DRLPRO	02	D	P		DRILL F/ 5064 TO 6108 = 1044' @ 69.6 ,WOB 18/20,RPM 40/110,GPM 540,PSI 1300/1600,TORQ 5/8K,SLIDE 333 ' @ 32%
	15:00 - 15:30	0.50	DRLPRO	07	A	P		SER RIG
	15:30 - 0:00	8.50	DRLPRO	02	D	P		DRILL F/ 6108 TO 6710 = 602' @ 70.8 ,WOB 18/20,RPM 40/110,GPM 540,PSI 1300/1600,TORQ 5/8K,SLIDE 90' @ 14%

US ROCKIES REGION
Operation Summary Report

Well: NBU 922-361CS RED

Spud Date: 10/29/2011

Project: UTAH-UINTAH

Site: NBU 922-361 PAD

Rig Name No: ENSIGN 139/139, PROPETRO 11/11

Event: DRILLING

Start Date: 10/19/2011

End Date: 1/13/2012

Active Datum: RKB @5,042.01ft (above Mean Sea Level)

UWI: NE/SE/0/9/S/22/E/36/0/0/26/PM/S/2021/E/0/785/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
1/10/2012	0:00 - 12:00	12.00	DRLPRO	02	D	P		DRILL F/ 6710 TO 7556 = 846' @ 70.5 ,WOB 18/20,RPM 40/105,GPM 514,PSI 1300/1600,TORQ 5/8K,SLIDE 210' @ 24%
	12:00 - 13:00	1.00	DRLPRO	05	G	P		MUD UP SYSTEM
	13:00 - 15:30	2.50	DRLPRO	02	D	P		DRILL F/ 7556 TO 7692 = 136' @ 54.4 ,WOB 18/20,RPM 40/100,GPM 491,PSI 1500/1850,TORQ 5/8K,SLIDE 0' @ 0%
	15:30 - 16:00	0.50	DRLPRO	07	A	P		RIG SER
	16:00 - 0:00	8.00	DRLPRO	02	D	P		DRILL F/ 7692 TO 8145 = 453' @ 56.6 ,WOB 18/20,RPM 40/100,GPM 491,PSI 1500/1850,TORQ 5/8K,SLIDE 0' @ 0%
1/11/2012	0:00 - 9:30	9.50	DRLPRO	02	D	P		DRILL F/ 8145 TO 8687 = 542' @ 57.0 ,WOB 18/20,RPM 40/100,GPM 491,PSI 2000/2350,TORQ 5/8K,SLIDE 0' @ 0%
	9:30 - 10:00	0.50	DRLPRO	07	A	P		RIG SER
	10:00 - 11:30	1.50	DRLPRO	02	D	P		DRILL F/ 8687 TO 8730 = 43' @ 28.6 ,WOB 18/20,RPM 40/100,GPM 491,PSI 2000/2350,TORQ 5/8K,SLIDE 0' @ 0%
	11:30 - 12:30	1.00	DRLPRO	05	A	P		CIRC BTM UP
	12:30 - 20:00	7.50	DRLPRO	06	E	P		WIPER TRIP TO CASING SHOE - PUMP OUT 15 STANDS & REAM OUT TIGHT SPOTS @ 7800 , 5192 , 4273 - CONT T.O.H
1/12/2012	20:00 - 0:00	4.00	DRLPRO	06	E	P		T.I.H ON WIPER TRIP - TIGHT SPOT @ 4273 - 5701 - 6364
	0:00 - 2:30	2.50	DRLPRO	06	E	P		CONT T.I.H ON WIPER & WASH TIGHT SPOT @ 6699 - & WASH 90' TO BTM HAD 10' FILL
	2:30 - 4:00	1.50	DRLPRO	05	A	P		CIRC BTM UP -PUMP LCM SWEEP TO CLEAN HOLE
	4:00 - 12:30	8.50	DRLPRO	06	B	P		T.O.H F/ LOGS & PUMPED OUT 2 STANDS & PUMP DRY JOB & CONT T.O.H
	12:30 - 13:00	0.50	DRLPRO	14	B	P		PULL WEAR RIG
1/13/2012	13:00 - 18:30	5.50	DRLPRO	11	E	P		HELD S/M W/HALLIBURTON LOGGING & R/U & RUN TRIPLE COMBO @ 8712
	18:30 - 0:00	5.50	DRLPRO	12	C	P		HELD S/M & R/U FRANKS CASING CREW & RUN 4.5 PROD CASING
	0:00 - 3:00	3.00	DRLPRO	12	C	P		FINISH RUNNING PROD CSG RUN 206 JTSPLUS 2 MARKER & SHOE SET @ 8708 & F/C @ 8666 & WASH TO BTM
	3:00 - 4:00	1.00	DRLPRO	05	D	P		CIRC BTM UP
	4:00 - 8:00	4.00	DRLPRO	21	D	Z		WAIT ON CEMENT BULK TRUCK
1/13/2012	8:00 - 10:30	2.50	DRLPRO	12	E	P		SAFETY MEET W/ BJ SER,R/U PRESSURE TEST TO 5K,PUMP 25 BBL FRESH,WATER & ,415 SX LEAD @12.0 2.26 YLD- PLII+8%GEL +4%R-3+2%SMS+25#SK CELLOFLAKE+5#SK KOL-SEAL , F/ TAIL 1080 SKS # 14.3 - YLD 1.31 YLD 50:50+2%GEL+10%SALT+2%R-3 & ,DISPLACE 135 BBLs,FINAL LIFT PSI ,BUMP PLUG 2520, W/ 500 OVER & FLOATS HELD, 5 BBL WATER BACK TO PIT, 1.5 BBLs WATER BACK TO TRUCK
	10:30 - 14:00	3.50	DRLPRO	14	A	P		WASH OUT STACK & N/D & SET C-22 SLIPS W/ 105K - ROUGH CUT 4.5 CASING & WASH CLEAN OUT MUD TANKS & RELEASED RIG @14:00 ON 1/13/2012

1 General

1.1 Customer Information

Company	US ROCKIES REGION
Representative	
Address	

1.2 Well/Wellbore Information

Well	NBU 922-361CS RED	Wellbore No.	OH
Well Name	NBU 922-361CS	Wellbore Name	NBU 922-361CS
Report No.	1	Report Date	2/28/2012
Project	UTAH-UINTAH	Site	NBU 922-361 PAD
Rig Name/No.		Event	COMPLETION
Start Date	2/28/2012	End Date	3/16/2012
Spud Date	10/29/2011	Active Datum	RKB @5,042.00usft (above Mean Sea Level)
UWI	NE/SE/O9/S/22/E/36/O/O/26/PM/S/2021/E/O/785/O/O		

1.3 General

Contractor	CASED HOLE SOLUTIONS	Job Method	PERFORATE	Supervisor	FRANK WINN
Perforated Assembly	PRODUCTION CASING	Conveyed Method	WIRELINE		

1.4 Initial Conditions

Fluid Type		Fluid Density	8.40 (ppg)
Surface Press		Estimate Res Press	
TVD Fluid Top	0.0 (usft)	Fluid Head	5,042.0 (usft)
Hydrostatic Press	2,200.15 (psi)	Press Difference	2,200.15 (psi)
Balance Cond	OVER BALANCED		

1.5 Summary

Gross Interval	5,186.0 (usft)-8,581.0 (usft)	Start Date/Time	3/8/2012 12:00AM
No. of Intervals	31	End Date/Time	3/13/2012 12:00AM
Total Shots	192	Net Perforation Interval	48.00 (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
3/13/2012 12:00AM	WASATCH/			5,186.0	5,190.0	4.00		0.360	EXP/	3.375	90.00 23/		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
3/13/2012 12:00AM	WASATCH/			5,320.0	5,322.0	4.00		0.360	EXP/	3.375	90.00	23/	23.00	PRODUCTIO N	
3/13/2012 12:00AM	MESAVERDE/			6,900.0	6,902.0	4.00		0.360	EXP/	3.375	90.00	23/	23.00	PRODUCTIO N	
3/13/2012 12:00AM	MESAVERDE/			6,922.0	6,925.0	4.00		0.360	EXP/	3.375	90.00	23/	23.00	PRODUCTIO N	
3/13/2012 12:00AM	MESAVERDE/			6,939.0	6,940.0	4.00		0.360	EXP/	3.375	90.00	23/	23.00	PRODUCTIO N	
3/12/2012 12:00AM	MESAVERDE/			7,213.0	7,214.0	4.00		0.360	EXP/	3.375	90.00	23/	23.00	PRODUCTIO N	
3/12/2012 12:00AM	MESAVERDE/			7,234.0	7,235.0	4.00		0.360	EXP/	3.375	90.00	23/	23.00	PRODUCTIO N	
3/12/2012 12:00AM	MESAVERDE/			7,264.0	7,265.0	4.00		0.360	EXP/	3.375	90.00	23/	23.00	PRODUCTIO N	
3/12/2012 12:00AM	MESAVERDE/			7,284.0	7,286.0	4.00		0.360	EXP/	3.375	90.00	23/	23.00	PRODUCTIO N	
3/12/2012 12:00AM	MESAVERDE/			7,298.0	7,299.0	4.00		0.360	EXP/	3.375	90.00	23/	23.00	PRODUCTIO N	
3/12/2012 12:00AM	MESAVERDE/			7,366.0	7,370.0	4.00		0.360	EXP/	3.375	90.00	23/	23.00	PRODUCTIO N	
3/12/2012 12:00AM	MESAVERDE/			7,418.0	7,420.0	4.00		0.360	EXP/	3.375	90.00	23/	23.00	PRODUCTIO N	
3/12/2012 12:00AM	MESAVERDE/			7,530.0	7,531.0	4.00		0.360	EXP/	3.375	90.00	23/	23.00	PRODUCTIO N	
3/12/2012 12:00AM	MESAVERDE/			7,550.0	7,551.0	4.00		0.360	EXP/	3.375	90.00	23/	23.00	PRODUCTIO N	
3/12/2012 12:00AM	MESAVERDE/			7,586.0	7,588.0	4.00		0.360	EXP/	3.375	90.00	23/	23.00	PRODUCTIO N	
3/12/2012 12:00AM	MESAVERDE/			7,618.0	7,619.0	4.00		0.360	EXP/	3.375	90.00	23/	23.00	PRODUCTIO N	
3/12/2012 12:00AM	MESAVERDE/			7,647.0	7,648.0	4.00		0.360	EXP/	3.375	90.00	23/	23.00	PRODUCTIO N	
3/12/2012 12:00AM	MESAVERDE/			7,790.0	7,791.0	4.00		0.360	EXP/	3.375	90.00	23/	23.00	PRODUCTIO N	
3/12/2012 12:00AM	MESAVERDE/			7,832.0	7,833.0	4.00		0.360	EXP/	3.375	90.00	23/	23.00	PRODUCTIO N	
3/12/2012 12:00AM	MESAVERDE/			7,880.0	7,882.0	4.00		0.360	EXP/	3.375	90.00	23/	23.00	PRODUCTIO N	
3/12/2012 12:00AM	MESAVERDE/			7,938.0	7,940.0	4.00		0.360	EXP/	3.375	90.00	23/	23.00	PRODUCTIO N	
3/12/2012 12:00AM	MESAVERDE/			7,994.0	7,995.0	4.00		0.360	EXP/	3.375	90.00	23/	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
3/12/2012 12:00AM	MESAVERDE/			8,005.0	8,006.0	4.00		0.360	EXP/	3.375	90.00	23/	23.00	PRODUCTIO N	
3/12/2012 12:00AM	MESAVERDE/			8,016.0	8,017.0	4.00		0.360	EXP/	3.375	90.00	23/	23.00	PRODUCTIO N	
3/12/2012 12:00AM	MESAVERDE/			8,168.0	8,169.0	4.00		0.360	EXP/	3.375	90.00	23/	23.00	PRODUCTIO N	
3/12/2012 12:00AM	MESAVERDE/			8,205.0	8,206.0	4.00		0.360	EXP/	3.375	90.00	23/	23.00	PRODUCTIO N	
3/12/2012 12:00AM	MESAVERDE/			8,223.0	8,224.0	4.00		0.360	EXP/	3.375	90.00	23/	23.00	PRODUCTIO N	
3/8/2012 12:00AM	MESAVERDE/			8,414.0	8,415.0	4.00		0.360	EXP/	3.375	90.00	23/	23.00	PRODUCTIO N	
3/8/2012 12:00AM	MESAVERDE/			8,497.0	8,498.0	4.00		0.360	EXP/	3.375	90.00	23/	23.00	PRODUCTIO N	
3/8/2012 12:00AM	MESAVERDE/			8,529.0	8,530.0	4.00		0.360	EXP/	3.375	90.00	23/	23.00	PRODUCTIO N	
3/8/2012 12:00AM	MESAVERDE/			8,578.0	8,581.0	4.00		0.360	EXP/	3.375	90.00	23/	23.00	PRODUCTIO N	

3 Others

3.1 Remarks

STG 9 (WASATCH ZONE) NOT FRACED DUE TO LOW F.G.DID NOT PERF STG 8 IN THIS WELL. (DUE TO ENGINEERS RECOMENDATIONS)

4 Plots

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 922-361CS RED

Spud Date: 10/29/2011

Project: UTAH-UINTAH

Site: NBU 922-361 PAD

Rig Name No: MILES 3/3

Event: COMPLETION

Start Date: 2/28/2012

End Date: 3/16/2012

Active Datum: RKB @5,042.00usft (above Mean Sea Level)

UWI: NE/SE/0/9/S/22/E/36/0/0/26/PM/S/2021/E/0/785/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
2/28/2012	-							
3/9/2012	6:45 - 7:00	0.25	COMP	48		P		HSM. SLIP TRIPS & FALLS.
	7:00 - 18:00	11.00	COMP	37	B	P		MIRU B & C QUICK TEST & CASED HOLE SOLUTIONS. OPEN WELL 0 PSI. FILL SURFACE CSG. PSI TEST T/ 1000 PSI. HELD FOR 15 MIN LOST 7.5 PSI. PSI TEST T/ 3500 PSI. HELD FOR 15 MIN LOST 35 PSI. 1ST PSI TEST T/ 7000 PSI. HELD FOR 30 MIN LOST 87.5 PSI. GOOD TEST. BLEED OFF PSI. PERF STG 1) PU 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH PERF AS PER DESIGN. POOH. SWIFWE.

US ROCKIES REGION
Operation Summary Report

Well: NBU 922-361CS RED

Spud Date: 10/29/2011

Project: UTAH-UINTAH

Site: NBU 922-361 PAD

Rig Name No: MILES 3/3

Event: COMPLETION

Start Date: 2/28/2012

End Date: 3/16/2012

Active Datum: RKB @5,042.00usft (above Mean Sea Level)

UWI: NE/SE/0/9/S/22/E/36/0/0/26/PM/S/2021/E/0/785/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
3/12/2012	7:00 - 18:00	11.00	COMP	36	B	P		<p>RAC STG 1)WHP 935 PSI, BRK 3424 PSI @ 4.5 BPM. ISIP 2097 PSI, FG .69. CALC PERFS OPEN @ 48.5 BPM @ 5741 PSI = 74% HOLES OPEN. ISIP 2614 PSI, FG .75, NPI 517 PSI. MP 6528 PSI, MR 50.6 BPM, AP 5441 PSI, AR 50.1 BPM, PUMPED 30/50 OWATTA SAND. SWI, X-OVER FOR WL. ((SCREWS & CHEM PUMPS SHUT DOWN. NOT SURE WHY. SAND CUT 6500 # SHORT.)</p> <p>PERF STG 2)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 8254' P/U PERF AS PER DESIGN. POOH, X-OVER FOR FRAC CREW.</p> <p>FRAC STG 2)WHP 550 PSI, BRK 2442 PSI @ 4.3 BPM. ISIP 1231 PSI, FG .59. CALC PERFS OPEN @ 50.7 BPM @ 4395 PSI = 87% HOLES OPEN. ISIP 2591 PSI, FG .76, NPI 1360 PSI. MP 5140 PSI, MR 50.9 BPM, AP 4334 PSI, AR 50.5 BPM, PUMPED 30/50 OWATTA SAND. SWI, X-OVER FOR WL.</p> <p>PERF STG 3)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 7970' P/U PERF AS PER DESIGN. POOH, X-OVER FOR FRAC CREW.</p> <p>FRAC STG 3)WHP 150 PSI, BRK 2547 PSI @ 5.9 BPM. ISIP 2041 PSI, FG .70. CALC PERFS OPEN @ 50.1 BPM @ 5842 PSI = 73% HOLES OPEN. ISIP 2520 PSI, FG .76, NPI 479 PSI. MP 6009 PSI, MR 50.8 BPM, AP 4536 PSI, AR 50.4 BPM, PUMPED 30/50 OWATTA SAND. SWI, X-OVER FOR WL.</p> <p>PERF STG 4)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 7678' P/U PERF AS PER DESIGN. POOH, X-OVER FOR FRAC CREW.</p> <p>FRAC STG 4)WHP 450 PSI, BRK 3321 PSI @ 4.6 BPM. ISIP 1468 PSI, FG .63. CALC PERFS OPEN @ 50.8 BPM @ 4304 PSI = 94% HOLES OPEN. ISIP 2065 PSI, FG .71, NPI 597 PSI. MP 4603 PSI, MR 51.2 BPM, AP 4050 PSI, AR 50.9 BPM, PUMPED 30/50 OWATTA SAND. SWI, X-OVER FOR WL.</p>

US ROCKIES REGION
Operation Summary Report

Well: NBU 922-361CS RED		Spud Date: 10/29/2011	
Project: UTAH-UINTAH	Site: NBU 922-361 PAD	Rig Name No: MILES 3/3	
Event: COMPLETION	Start Date: 2/28/2012	End Date: 3/16/2012	
Active Datum: RKB @5,042.00usft (above Mean Sea Level)		UWI: NE/SE/0/9/S/22/E/36/0/0/26/PM/S/2021/E/0/785/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
								<p>PERF STG 5)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 7450' P/U PERF AS PER DESIGN. POOH, X-OVER FOR FRAC CREW.</p> <p>FRAC STG 5)WHP 125 PSI, BRK 5686 PSI @ 4.7 BPM. ISIP 1864 PSI, FG .69. CALC PERFS OPEN @ 50.9 BPM @ 4127 PSI = 100% HOLES OPEN. ISIP 2182 PSI, FG .73, NPI 318 PSI. MP 4382 PSI, MR 51.2 BPM, AP 4092 PSI, AR 50.8 BPM, PUMPED 30/50 OWATTA SAND. SWIFN.</p>

US ROCKIES REGION
Operation Summary Report

Well: NBU 922-361CS RED Spud Date: 10/29/2011
 Project: UTAH-UINTAH Site: NBU 922-361 PAD Rig Name No: MILES 3/3
 Event: COMPLETION Start Date: 2/28/2012 End Date: 3/16/2012

Active Datum: RKB @5,042.00usft (above Mean Sea Level) UWI: NE/SE/0/9/S/22/E/36/0/0/26/PM/S/2021/E/0/785/0/0

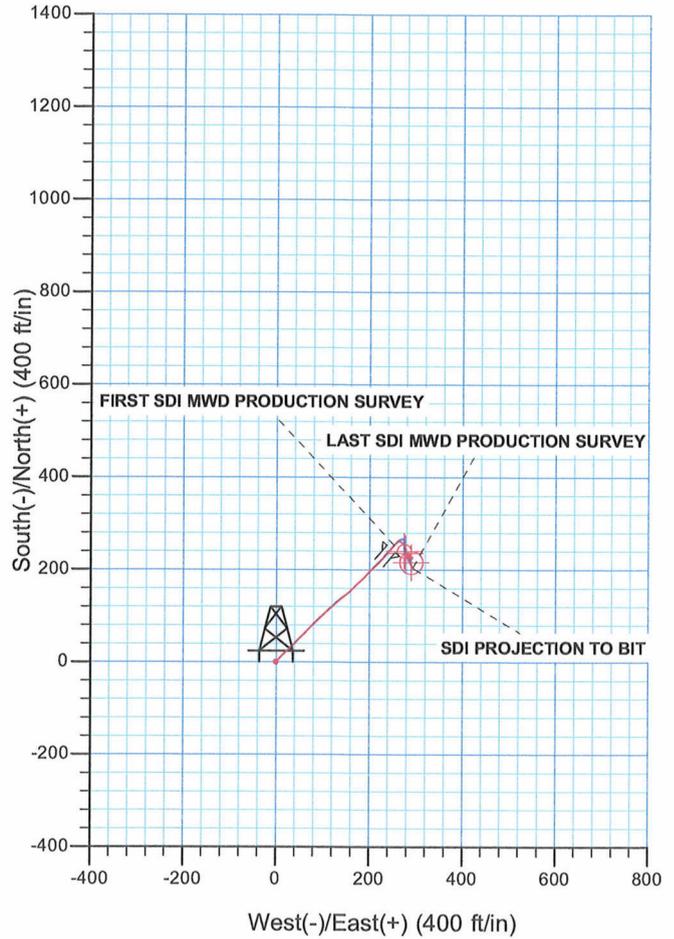
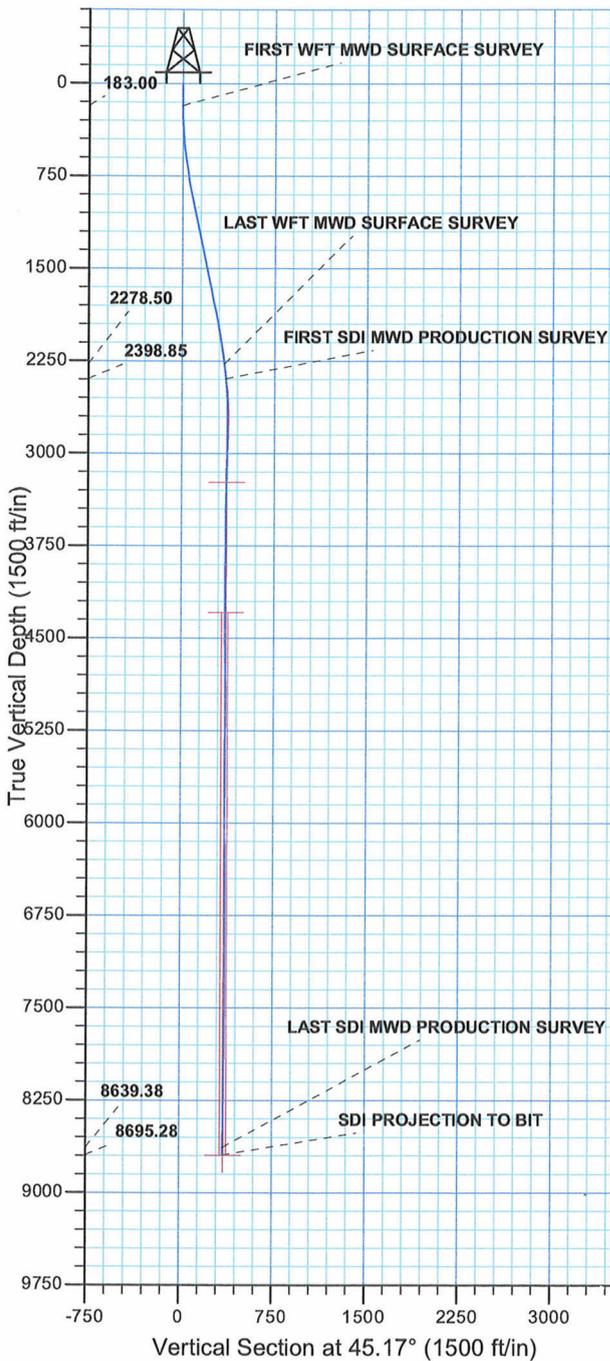
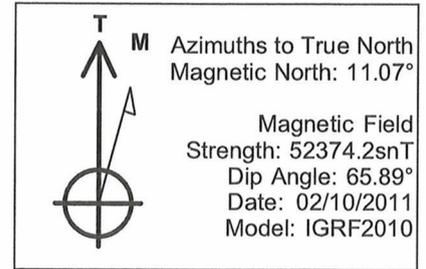
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
3/13/2012	7:30 - 18:00	10.50	COMP	36	B	P		<p>PERF STG 6)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 7329' P/U PERF AS PER DESIGN. POOH. X-OVER FOR FRAC CREW.</p> <p>FRAC STG 6)WHP 1280 PSI, BRK 1760 PSI @ 4.1 BPM. ISIP 1326 PSI, FG .62. CALC PERFS OPEN @ 51.3 BPM @ 4091 PSI = 96% HOLES OPEN. ISIP 2233 PSI, FG .73, NPI 907 PSI. MP 4351 PSI, MR 51.6 BPM, AP 3945 PSI, AR 51.3 BPM, PUMPED 30/50 OWATTA SAND. SWI, X-OVER FOR WL.</p> <p>PERF STG 7)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. RIH SET CBP @ 6970' P/U PERF AS PER DESIGN. POOH. X-OVER FOR FRAC CREW.</p> <p>FRAC STG 7)WHP 245 PSI, BRK 2469 PSI @ 4.4 BPM. ISIP 1682 PSI, FG .68. CALC PERFS OPEN @ 51.2 BPM @ 4421 PSI = 95% HOLES OPEN. ISIP 2403 PSI, FG .79, NPI 721 PSI. MP 4902 PSI, MR 51.4 BPM, AP 4488 PSI, AR 51.2 BPM, PUMPED 30/50 OWATTA SAND. SWI, X-OVER FOR WL.</p> <p>DID NOT PERF OR FRAC STG 8, DUE T/ ENGINEER RECOMENDATION. MOVE ON T/ STG 9.</p> <p>PERF STG 9)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 5352' P/U PERF AS PER DESIGN. POOH, X-OVER FOR FRAC CREW.</p> <p>FRAC STG 9)OPEN WELL. WELL WAS ON A VACUME. SWI. DID NOT SET KILL PLUG IN THIS WELL.</p> <p>TOTAL SAND = 115,471 LBS TOTAL CLFL = 6205 BBL</p>
3/15/2012	7:00 - 7:15	0.25	COMP	48		P		DIDNT FRAC STG 8 OR 9.
	7:15 - 9:30	2.25	COMP	30	A	P		JSA- RUSU, ND/NU. PU TBG. SPOT AND RUSU. ND WH. NU BOP (X-OUT PIPE RAMS). RU FLOOR AND TBG EQUIP. SPOT TBG TRAILER.
	9:30 - 12:30	3.00	COMP	31	I	P		MU 3-7/8" BIT, POBS, AND 1.87" XN. RIH AS MEAS AND PU 2-3/8" L-80 TBG. TAG AT 5342' W/ 169-JTS IN. RU DRLG EQUIP (MILES WELL SERVICE PWR SWIVEL). FILL TBG AND EST CIRC.

US ROCKIES REGION
Operation Summary Report

Well: NBU 922-36H1CS RED		Spud Date: 10/29/2011	
Project: UTAH-UINTAH		Site: NBU 922-36I PAD	Rig Name No: MILES 3/3
Event: COMPLETION		Start Date: 2/28/2012	End Date: 3/16/2012
Active Datum: RKB @5,042.00usft (above Mean Sea Level)		UWI: NE/SE/0/9/S/22/E/36/0/0/26/PM/S/2021/E/0/785/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	12:30 - 16:30	4.00	COMP	44	C	P		#1- C/O 10' SAND TO CBP AT 5352'. START D/O PLUG. (PWR SWIVEL LOCKED UP. X-OUT PWR SWIVEL). FIN D/O #1 IN 6 MIN. 0# INC. 0# FCP. RIH. #2- C/O 25' SAND TO CBP AT 6970'. D/O IN 7 MIN. 200# INC. 100-400# FCP. RIH. #3- C/O 30' SAND TO CBP AT 7329'. D/O IN 2 MIN. 200# INC. 100-400# FCP. RIH. #4- C/O 25' SAND TO CBP AT 7456'. D/O IN 4 MIN. 200# INC. 200-600# FCP. RIH TO 7496' W/ 236-JTS IN. FLOW AND CIRC CLEAN. SWI AND SDFN. .JSA- D/O PLUGS. LAND TBG
3/16/2012	7:00 - 7:15	0.25	COMP	48		P		SITP 0, SICP 1500. BWD TO PIT. CONT RIH AS D/O PLUGS.
	7:15 - 11:00	3.75	COMP	44	C	P		#5- C/O 25' SAND TO CBP AT 7678'. D/O IN 2 MIN. 500# INC. 300-500# FCP. RIH. #6- C/O 30' SAND TO CBP AT 7970'. D/O IN 5 MIN. 300# INC. 500-600# FCP. RIH. #7- C/O 35' SAND TO CBP AT 8258'. D/O IN 3 MIN. 500# INC. 500-600# FCP. RIH. BTM PERF AT 8581'. C/O 40' SAND TO 8677' W/ 273-JTS IN (96' RATHOLE). CIRC CLEAN. RD PWR SWIVEL. POOH AS LD 23-JTS TBG. PU 4" 10K HANGER. LUB IN AND LAND 250-JTS 2-3/8" L-80 TBG W/ EOT AT 7953.42'. RD FLOOR. ND BOP. NU WH. HOOK UP TO HAL 9000. POBS AT 800#. PRES TEST FLOW LINES TO 3000#. SITP 0#. SICP 1300#. TURN OVER TO FBC AND SALES. RDSU AND MOVE OVER. TBG DETAIL KB 14.00 4" 10K HANGER .83 250-JTS 2-3/8" L-80 7936.39 1.87" XN POBS 2.20 EOT 7953.42 283-JTS DELIVERED, 33-JTS TRANSFERED TO 922-36H4CS. TLTR 6205, TLRT 950, LLTR 5255. WELL TURNED TO SALES AT 1200 HR ON 3/16/2012 - 550 MCFD, 1680 BWP, FCP 2829#, FTP 1100#, 20/64 CK WELL IP'D ON 3/18/12 - 962 MCFD, 0 BOPD, 432 BWP, CP 2328#, FTP 770#, CK 20/64", LP 133#, 24 HRS
	12:00 -		COMP	50				
3/18/2012	7:00 -		PROD	50				
3/19/2012	-							

WELL DETAILS: NBU 922-3611CS					
GL 5028' & KB 14' @ 5042.00ft (ENSIGN 139)					
+N-S	+E-W	Northing	Easting	Latitude	Longitude
0.00	0.00	14526817.60	2093901.04	39° 59' 26.930 N	109° 22' 51.618 W



PROJECT DETAILS: Uintah County, UT UTM12
Geodetic System: Universal Transverse Mercator (US Survey Feet)
Datum: NAD 1927 - Western US
Ellipsoid: Clarke 1866
Zone: Zone 12N (114 W to 108 W)
Location: SECTION 36 T9S R22E
System Datum: Mean Sea Level

Design: OH (NBU 922-3611CS/OH)
Created By: RobertScott Date: 14:09, January 17 2012



Scientific Drilling
Rocky Mountain Operations

Kerr McGee Oil and Gas Onshore LP

Uintah County, UT UTM12
NBU 922-36I PAD
NBU 922-36I1CS

OH

Design: OH

Standard Survey Report

17 January, 2012

Anadarko 
Petroleum Corporation

Company:	Kerr McGee Oil and Gas Onshore LP	Local Co-ordinate Reference:	Well NBU 922-36I1CS
Project:	Uintah County, UT UTM12	TVD Reference:	GL 5028' & KB 14' @ 5042.00ft (ENSIGN 139)
Site:	NBU 922-36I PAD	MD Reference:	GL 5028' & KB 14' @ 5042.00ft (ENSIGN 139)
Well:	NBU 922-36I1CS	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

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

Site	NBU 922-36I PAD, SECTION 36 T9S R22E				
Site Position:		Northing:	14,526,795.38 usft	Latitude:	39° 59' 26.714 N
From:	Lat/Long	Easting:	2,093,880.99 usft	Longitude:	109° 22' 51.881 W
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence:	1.04 °

Well	NBU 922-36I1CS, 2021 FSL 785 FEL				
Well Position	+N-S	0.00 ft	Northing:	14,526,817.61 usft	Latitude: 39° 59' 26.930 N
	+E-W	0.00 ft	Easting:	2,093,901.04 usft	Longitude: 109° 22' 51.618 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level: 5,028.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	02/10/11	11.07	65.89	52,374

Design	OH				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N-S (ft)	+E-W (ft)	Direction (°)	
	0.00	0.00	0.00	45.17	

Survey Program	Date	01/17/12			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
10.00	2,310.00	Survey #1 WFT MWD SURFACE (OH)	MWD	MWD - Standard	
2,431.00	8,730.00	Survey #2 SDI MWD PRODUCTION (OH)	MWD SDI	MWD - Standard ver 1.0.1	

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N-S (ft)	+E-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10.00	0.00	0.00	10.00	0.00	0.00	0.00	0.00	0.00	0.00	
183.00	0.35	37.61	183.00	0.42	0.32	0.52	0.20	0.20	0.00	
FIRST WFT MWD SURFACE SURVEY										
265.00	1.96	30.59	264.98	1.82	1.19	2.13	1.97	1.96	-8.56	
350.00	3.09	41.83	349.90	4.78	3.46	5.82	1.45	1.33	13.22	
440.00	4.56	45.51	439.69	9.10	7.63	11.82	1.66	1.63	4.09	
530.00	6.06	44.64	529.30	14.99	13.52	20.15	1.67	1.67	-0.97	
620.00	7.63	45.64	618.66	22.54	21.13	30.88	1.75	1.74	1.11	
710.00	8.75	46.64	707.74	31.42	30.38	43.70	1.25	1.24	1.11	

Company: Kerr McGee Oil and Gas Onshore LP
 Project: Uintah County, UT UTM12
 Site: NBU 922-361 PAD
 Well: NBU 922-361CS
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well NBU 922-361CS
 TVD Reference: GL 5028' & KB 14' @ 5042.00ft (ENSIGN 139)
 MD Reference: GL 5028' & KB 14' @ 5042.00ft (ENSIGN 139)
 North Reference: True
 Survey Calculation Method: Minimum Curvature
 Database: EDM 5000.1 Single User Db

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)
800.00	9.94	46.01	796.55	41.52	40.94	58.31	1.33	1.32	-0.70
890.00	11.13	44.01	885.03	53.16	52.57	74.76	1.38	1.32	-2.22
980.00	11.50	43.64	973.28	65.90	64.79	92.41	0.42	0.41	-0.41
1,070.00	11.25	42.89	1,061.51	78.82	76.96	110.15	0.32	-0.28	-0.83
1,160.00	11.63	44.39	1,149.72	91.74	89.28	128.00	0.54	0.42	1.67
1,250.00	11.50	48.39	1,237.90	104.18	102.34	146.02	0.90	-0.14	4.44
1,340.00	11.75	47.64	1,326.05	116.31	115.82	164.14	0.32	0.28	-0.83
1,430.00	12.31	48.14	1,414.07	128.89	129.73	182.87	0.63	0.62	0.56
1,520.00	12.06	49.26	1,502.05	141.43	144.00	201.83	0.38	-0.28	1.24
1,610.00	11.81	49.39	1,590.10	153.56	158.12	220.40	0.28	-0.28	0.14
1,700.00	12.06	46.64	1,678.15	166.01	171.94	238.98	0.69	0.28	-3.06
1,790.00	11.63	42.89	1,766.24	179.11	184.95	257.44	0.98	-0.48	-4.17
1,880.00	11.13	42.51	1,854.47	192.16	197.00	275.19	0.56	-0.56	-0.42
1,970.00	10.50	45.14	1,942.87	204.35	208.68	292.06	0.89	-0.70	2.92
2,060.00	10.13	44.01	2,031.42	215.82	219.99	308.18	0.47	-0.41	-1.26
2,150.00	9.50	42.26	2,120.10	227.01	230.49	323.51	0.77	-0.70	-1.94
2,240.00	7.81	41.01	2,209.07	237.13	239.50	337.03	1.89	-1.88	-1.39
2,310.00	6.81	40.60	2,278.50	243.87	245.32	345.91	1.43	-1.43	-0.59
LAST WFT MWD SURFACE SURVEY									
2,431.00	5.00	40.63	2,398.85	253.32	253.42	358.32	1.50	-1.50	0.02
FIRST SDI MWD PRODUCTION SURVEY									
2,521.00	3.74	47.63	2,488.59	258.27	258.14	365.16	1.52	-1.40	7.78
2,612.00	3.05	68.09	2,579.43	261.17	262.58	370.35	1.52	-0.76	22.48
2,702.00	1.60	95.72	2,669.36	261.94	266.05	373.36	1.99	-1.61	30.70
2,793.00	1.57	124.21	2,760.33	261.12	268.35	374.40	0.86	-0.03	31.31
2,883.00	2.12	142.36	2,850.28	259.10	270.38	374.43	0.88	0.61	20.17
2,974.00	2.14	136.98	2,941.22	256.53	272.57	374.16	0.22	0.02	-5.91
3,064.00	2.51	154.98	3,031.14	253.51	274.55	373.44	0.90	0.41	20.00
3,155.00	2.64	164.49	3,122.05	249.69	275.96	371.74	0.49	0.14	10.45
3,246.00	3.25	161.29	3,212.93	245.23	277.34	369.58	0.69	0.67	-3.52
3,336.00	2.89	166.91	3,302.80	240.60	278.68	367.26	0.52	-0.40	6.24
3,427.00	2.47	175.46	3,393.70	236.41	279.35	364.79	0.64	-0.46	9.40
3,517.00	1.69	187.86	3,483.64	233.16	279.32	362.48	1.00	-0.87	13.78
3,608.00	0.75	192.13	3,574.62	231.25	279.01	360.91	1.04	-1.03	4.69
3,698.00	1.11	164.83	3,664.61	229.83	279.12	359.99	0.62	0.40	-30.33
3,789.00	0.70	179.61	3,755.60	228.43	279.35	359.16	0.51	-0.45	16.24
3,879.00	0.82	293.94	3,845.60	228.14	278.77	358.54	1.42	0.13	127.03
3,970.00	0.40	226.80	3,936.59	228.19	277.94	357.99	0.84	-0.46	-73.78
4,060.00	0.33	271.14	4,026.59	227.98	277.45	357.49	0.31	-0.08	49.27
4,151.00	0.25	250.22	4,117.59	227.91	277.00	357.13	0.14	-0.09	-22.99
4,241.00	0.59	133.97	4,207.59	227.53	277.15	356.96	0.82	0.38	-129.17
4,332.00	0.27	120.89	4,298.58	227.09	277.67	357.03	0.37	-0.35	-14.37
4,423.00	0.87	49.75	4,389.58	227.43	278.38	357.77	0.90	0.66	-78.18

Company:	Kerr McGee Oil and Gas Onshore LP	Local Co-ordinate Reference:	Well NBU 922-361CS
Project:	Uintah County, UT UTM12	TVD Reference:	GL 5028' & KB 14' @ 5042.00ft (ENSIGN 139)
Site:	NBU 922-361 PAD	MD Reference:	GL 5028' & KB 14' @ 5042.00ft (ENSIGN 139)
Well:	NBU 922-361CS	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,513.00	1.11	40.89	4,479.57	228.53	279.48	359.32	0.32	0.27	-9.84
4,604.00	1.12	51.97	4,570.55	229.74	280.75	361.08	0.24	0.01	12.18
4,694.00	1.34	74.90	4,660.53	230.56	282.46	362.87	0.59	0.24	25.48
4,785.00	1.20	102.76	4,751.51	230.62	284.42	364.30	0.69	-0.15	30.62
4,875.00	1.21	113.11	4,841.49	230.04	286.21	365.16	0.24	0.01	11.50
4,966.00	1.98	110.49	4,932.45	229.12	288.57	366.18	0.85	0.85	-2.88
5,056.00	1.77	117.21	5,022.40	227.94	291.26	367.26	0.34	-0.23	7.47
5,147.00	0.75	154.53	5,113.38	226.76	292.77	367.50	1.38	-1.12	41.01
5,237.00	0.91	220.93	5,203.37	225.68	292.55	366.59	1.02	0.18	73.78
5,328.00	0.52	244.05	5,294.37	224.96	291.71	365.48	0.52	-0.43	25.41
5,418.00	1.27	316.11	5,384.36	225.50	290.65	365.11	1.35	0.83	80.07
5,509.00	0.94	310.78	5,475.34	226.71	289.39	365.07	0.38	-0.36	-5.86
5,599.00	0.70	281.48	5,565.33	227.30	288.29	364.70	0.53	-0.27	-32.56
5,690.00	0.64	186.37	5,656.33	226.91	287.69	364.00	1.09	-0.07	-104.52
5,780.00	0.07	182.05	5,746.33	226.35	287.63	363.57	0.63	-0.63	-4.80
5,871.00	0.27	314.46	5,837.33	226.45	287.47	363.52	0.35	0.22	145.51
5,961.00	0.67	295.39	5,927.32	226.82	286.85	363.34	0.47	0.44	-21.19
6,052.00	0.76	302.92	6,018.32	227.38	285.86	363.04	0.14	0.10	8.27
6,142.00	0.87	359.97	6,108.31	228.39	285.36	363.39	0.87	0.12	63.39
6,233.00	1.25	3.68	6,199.29	230.07	285.42	364.62	0.42	0.42	4.08
6,323.00	0.93	3.15	6,289.28	231.78	285.52	365.90	0.36	-0.36	-0.59
6,414.00	0.72	338.13	6,380.27	233.05	285.35	366.67	0.45	-0.23	-27.49
6,504.00	1.36	341.93	6,470.25	234.59	284.81	367.37	0.71	0.71	4.22
6,595.00	0.78	325.73	6,561.24	236.12	284.13	367.97	0.71	-0.64	-17.80
6,685.00	0.19	0.49	6,651.23	236.78	283.78	368.19	0.70	-0.66	38.62
6,776.00	0.36	187.79	6,742.23	236.65	283.75	368.07	0.60	0.19	-189.78
6,866.00	0.77	148.51	6,832.23	235.85	284.02	367.71	0.60	0.46	-43.64
6,957.00	1.23	176.37	6,923.21	234.36	284.40	366.92	0.72	0.51	30.62
7,047.00	0.88	236.96	7,013.20	233.01	283.89	365.61	1.23	-0.39	67.32
7,138.00	0.59	320.10	7,104.19	232.99	283.00	364.97	1.10	-0.32	91.36
7,228.00	0.81	325.31	7,194.19	233.87	282.34	365.12	0.25	0.24	5.79
7,319.00	0.48	348.41	7,285.18	234.77	281.90	365.44	0.45	-0.36	25.38
7,409.00	0.00	10.95	7,375.18	235.14	281.82	365.65	0.53	-0.53	0.00
7,500.00	0.21	235.77	7,466.18	235.05	281.68	365.48	0.23	0.23	0.00
7,591.00	0.57	302.14	7,557.18	235.20	281.16	365.22	0.57	0.40	72.93
7,681.00	0.62	276.64	7,647.17	235.49	280.30	364.81	0.30	0.06	-28.33
7,772.00	0.94	213.21	7,738.17	234.92	279.40	363.77	0.95	0.35	-69.70
7,862.00	1.18	183.37	7,828.15	233.38	278.94	362.36	0.66	0.27	-33.16
7,953.00	1.14	149.39	7,919.14	231.67	279.35	361.44	0.75	-0.04	-37.34
8,043.00	1.50	155.44	8,009.11	229.82	280.29	360.81	0.43	0.40	6.72
8,134.00	1.66	155.64	8,100.08	227.54	281.33	359.94	0.18	0.18	0.22
8,224.00	2.30	156.47	8,190.02	224.70	282.59	358.83	0.71	0.71	0.92
8,315.00	2.56	153.40	8,280.94	221.21	284.23	357.53	0.32	0.29	-3.37
8,405.00	3.06	152.24	8,370.83	217.28	286.25	356.19	0.56	0.56	-1.29

Company:	Kerr McGee Oil and Gas Onshore LP	Local Co-ordinate Reference:	Well NBU 922-361CS
Project:	Uintah County, UT UTM12	TVD Reference:	GL 5028' & KB 14' @ 5042.00ft (ENSIGN 139)
Site:	NBU 922-361 PAD	MD Reference:	GL 5028' & KB 14' @ 5042.00ft (ENSIGN 139)
Well:	NBU 922-361CS	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

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)	
8,496.00	3.17	155.10	8,461.70	212.85	288.44	354.62	0.21	0.12	3.14	
8,586.00	3.55	148.05	8,551.54	208.23	290.96	353.15	0.62	0.42	-7.83	
8,674.00	3.46	147.87	8,639.38	203.67	293.82	351.96	0.10	-0.10	-0.20	
LAST SDI MWD PRODUCTION SURVEY										
8,730.00	3.46	147.87	8,695.28	200.81	295.61	351.22	0.00	0.00	0.00	
SDI PROJECTION TO BIT										

Design Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment	
		+N-S (ft)	+E-W (ft)		
183.00	183.00	0.42	0.32	FIRST WFT MWD SURFACE SURVEY	
2,310.00	2,278.50	243.87	245.32	LAST WFT MWD SURFACE SURVEY	
2,431.00	2,398.85	253.32	253.42	FIRST SDI MWD PRODUCTION SURVEY	
8,674.00	8,639.38	203.67	293.82	LAST SDI MWD PRODUCTION SURVEY	
8,730.00	8,695.28	200.81	295.61	SDI PROJECTION TO BIT	

Checked By: _____ Approved By: _____ Date: _____



Scientific Drilling
Rocky Mountain Operations

Kerr McGee Oil and Gas Onshore LP

**Uintah County, UT UTM12
NBU 922-36I PAD
NBU 922-36I1CS**

OH

Design: OH

Survey Report - Geographic

17 January, 2012

Anadarko 
Petroleum Corporation

Company: Kerr McGee Oil and Gas Onshore LP	Local Co-ordinate Reference: Well NBU 922-361CS	
Project: Uintah County, UT UTM12	TVD Reference: GL 5028' & KB 14' @ 5042.00ft (ENSIGN 139)	
Site: NBU 922-361 PAD	MD Reference: GL 5028' & KB 14' @ 5042.00ft (ENSIGN 139)	
Well: NBU 922-361CS	North Reference: True	
Wellbore: OH	Survey Calculation Method: Minimum Curvature	
Design: OH	Database: EDM 5000.1 Single User Db	

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

Site NBU 922-361 PAD, SECTION 36 T9S R22E					
Site Position:		Northing: 14,526,795.38 usft	Latitude: 39° 59' 26.714 N		
From: Lat/Long		Easting: 2,093,880.99 usft	Longitude: 109° 22' 51.881 W		
Position Uncertainty: 0.00 ft		Slot Radius: 13.200 in	Grid Convergence: 1.04 °		

Well NBU 922-361CS, 2021 FSL 785 FEL					
Well Position	+N/-S 0.00 ft	Northing: 14,526,817.61 usft	Latitude: 39° 59' 26.930 N		
	+E/-W 0.00 ft	Easting: 2,093,901.04 usft	Longitude: 109° 22' 51.618 W		
Position Uncertainty	0.00 ft	Wellhead Elevation: ft	Ground Level: 5,028.00 ft		

Wellbore OH					
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	02/10/11	11.07	65.89	52,374

Design OH					
Audit Notes:					
Version: 1.0		Phase: ACTUAL		Tie On Depth: 0.00	
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.00	0.00	0.00	45.17	

Survey Program Date 01/17/12					
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
10.00	2,310.00	Survey #1 WFT MWD SURFACE (OH)	MWD	MWD - Standard	
2,431.00	8,730.00	Survey #2 SDI MWD PRODUCTION (OH)	MWD SDI	MWD - Standard ver 1.0.1	

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	14,526,817.61	2,093,901.04	39° 59' 26.930 N	109° 22' 51.618 W	
10.00	0.00	0.00	10.00	0.00	0.00	14,526,817.61	2,093,901.04	39° 59' 26.930 N	109° 22' 51.618 W	
183.00	0.35	37.61	183.00	0.42	0.32	14,526,818.03	2,093,901.35	39° 59' 26.935 N	109° 22' 51.614 W	
FIRST WFT MWD SURFACE SURVEY										
265.00	1.96	30.59	264.98	1.82	1.19	14,526,819.45	2,093,902.19	39° 59' 26.948 N	109° 22' 51.603 W	
350.00	3.09	41.83	349.90	4.78	3.46	14,526,822.45	2,093,904.41	39° 59' 26.978 N	109° 22' 51.574 W	
440.00	4.56	45.51	439.69	9.10	7.63	14,526,826.84	2,093,908.50	39° 59' 27.020 N	109° 22' 51.520 W	
530.00	6.06	44.64	529.30	14.99	13.52	14,526,832.83	2,093,914.28	39° 59' 27.079 N	109° 22' 51.444 W	
620.00	7.63	45.64	618.66	22.54	21.13	14,526,840.53	2,093,921.75	39° 59' 27.153 N	109° 22' 51.347 W	
710.00	8.75	46.64	707.74	31.42	30.38	14,526,849.57	2,093,930.84	39° 59' 27.241 N	109° 22' 51.228 W	
800.00	9.94	46.01	796.55	41.52	40.94	14,526,859.86	2,093,941.22	39° 59' 27.341 N	109° 22' 51.092 W	

Company: Kerr McGee Oil and Gas Onshore LP
Project: Uintah County, UT UTM12
Site: NBU 922-361 PAD
Well: NBU 922-361CS
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well NBU 922-361CS
TVD Reference: GL 5028' & KB 14' @ 5042.00ft (ENSGN 139)
MD Reference: GL 5028' & KB 14' @ 5042.00ft (ENSGN 139)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
890.00	11.13	44.01	885.03	53.16	52.57	14,526,871.71	2,093,952.63	39° 59' 27.456 N	109° 22' 50.943 W	
980.00	11.50	43.64	973.28	65.90	64.79	14,526,884.67	2,093,964.63	39° 59' 27.582 N	109° 22' 50.785 W	
1,070.00	11.25	42.89	1,061.51	78.82	76.96	14,526,897.81	2,093,976.56	39° 59' 27.710 N	109° 22' 50.629 W	
1,160.00	11.63	44.39	1,149.72	91.74	89.28	14,526,910.95	2,093,988.64	39° 59' 27.837 N	109° 22' 50.471 W	
1,250.00	11.50	48.39	1,237.90	104.18	102.34	14,526,923.63	2,094,001.47	39° 59' 27.960 N	109° 22' 50.303 W	
1,340.00	11.75	47.64	1,326.05	116.31	115.82	14,526,936.00	2,094,014.72	39° 59' 28.080 N	109° 22' 50.130 W	
1,430.00	12.31	48.14	1,414.07	128.89	129.73	14,526,948.83	2,094,028.41	39° 59' 28.204 N	109° 22' 49.951 W	
1,520.00	12.06	49.26	1,502.05	141.43	144.00	14,526,961.62	2,094,042.45	39° 59' 28.328 N	109° 22' 49.768 W	
1,610.00	11.81	49.39	1,590.10	153.56	158.12	14,526,974.01	2,094,056.34	39° 59' 28.448 N	109° 22' 49.586 W	
1,700.00	12.06	46.64	1,678.15	166.01	171.94	14,526,986.71	2,094,069.94	39° 59' 28.571 N	109° 22' 49.409 W	
1,790.00	11.63	42.89	1,766.24	179.11	184.95	14,527,000.04	2,094,082.71	39° 59' 28.701 N	109° 22' 49.241 W	
1,880.00	11.13	42.51	1,854.47	192.16	197.00	14,527,013.31	2,094,094.51	39° 59' 28.830 N	109° 22' 49.087 W	
1,970.00	10.50	45.14	1,942.87	204.35	208.68	14,527,025.71	2,094,105.97	39° 59' 28.950 N	109° 22' 48.936 W	
2,060.00	10.13	44.01	2,031.42	215.82	219.99	14,527,037.39	2,094,117.08	39° 59' 29.064 N	109° 22' 48.791 W	
2,150.00	9.50	42.26	2,120.10	227.01	230.49	14,527,048.77	2,094,127.36	39° 59' 29.174 N	109° 22' 48.656 W	
2,240.00	7.81	41.01	2,209.07	237.13	239.50	14,527,059.04	2,094,136.19	39° 59' 29.274 N	109° 22' 48.541 W	
2,310.00	6.81	40.60	2,278.50	243.87	245.32	14,527,065.89	2,094,141.89	39° 59' 29.341 N	109° 22' 48.466 W	
LAST WFT MWD SURFACE SURVEY										
2,431.00	5.00	40.63	2,398.85	253.32	253.42	14,527,075.48	2,094,149.82	39° 59' 29.434 N	109° 22' 48.362 W	
FIRST SDI MWD PRODUCTION SURVEY										
2,521.00	3.74	47.63	2,488.59	258.27	258.14	14,527,080.52	2,094,154.45	39° 59' 29.483 N	109° 22' 48.301 W	
2,612.00	3.05	68.09	2,579.43	261.17	262.58	14,527,083.51	2,094,158.83	39° 59' 29.512 N	109° 22' 48.244 W	
2,702.00	1.80	95.72	2,669.36	261.94	266.05	14,527,084.34	2,094,162.29	39° 59' 29.519 N	109° 22' 48.193 W	
2,793.00	1.57	124.21	2,760.33	261.12	268.35	14,527,083.55	2,094,164.60	39° 59' 29.511 N	109° 22' 48.170 W	
2,883.00	2.12	142.36	2,850.28	259.10	270.38	14,527,081.58	2,094,166.67	39° 59' 29.491 N	109° 22' 48.144 W	
2,974.00	2.14	136.98	2,941.22	256.53	272.57	14,527,079.04	2,094,168.91	39° 59' 29.466 N	109° 22' 48.115 W	
3,064.00	2.51	154.98	3,031.14	253.51	274.55	14,527,076.06	2,094,170.94	39° 59' 29.436 N	109° 22' 48.090 W	
3,155.00	2.64	164.49	3,122.05	249.69	275.96	14,527,072.27	2,094,172.41	39° 59' 29.398 N	109° 22' 48.072 W	
3,246.00	3.25	161.29	3,212.93	245.23	277.34	14,527,067.83	2,094,173.88	39° 59' 29.354 N	109° 22' 48.054 W	
3,336.00	2.89	166.91	3,302.80	240.60	278.68	14,527,063.23	2,094,175.30	39° 59' 29.309 N	109° 22' 48.037 W	
3,427.00	2.47	175.46	3,393.70	236.41	279.35	14,527,059.05	2,094,176.05	39° 59' 29.267 N	109° 22' 48.028 W	
3,517.00	1.69	187.86	3,483.64	233.16	279.32	14,527,055.80	2,094,176.08	39° 59' 29.235 N	109° 22' 48.029 W	
3,608.00	0.75	192.13	3,574.62	231.25	279.01	14,527,053.89	2,094,175.81	39° 59' 29.216 N	109° 22' 48.033 W	
3,698.00	1.11	164.83	3,664.61	229.83	279.12	14,527,052.47	2,094,175.94	39° 59' 29.202 N	109° 22' 48.031 W	
3,789.00	0.70	179.61	3,755.60	228.43	279.35	14,527,051.07	2,094,176.20	39° 59' 29.188 N	109° 22' 48.028 W	
3,879.00	0.82	293.94	3,845.60	228.14	278.77	14,527,050.77	2,094,175.62	39° 59' 29.185 N	109° 22' 48.036 W	
3,970.00	0.40	226.80	3,936.59	228.19	277.94	14,527,050.80	2,094,174.79	39° 59' 29.186 N	109° 22' 48.047 W	
4,060.00	0.33	271.14	4,026.59	227.98	277.45	14,527,050.58	2,094,174.30	39° 59' 29.184 N	109° 22' 48.053 W	
4,151.00	0.25	250.22	4,117.59	227.91	277.00	14,527,050.51	2,094,173.86	39° 59' 29.183 N	109° 22' 48.059 W	
4,241.00	0.59	133.97	4,207.59	227.53	277.15	14,527,050.13	2,094,174.01	39° 59' 29.179 N	109° 22' 48.057 W	
4,332.00	0.27	120.89	4,298.58	227.09	277.67	14,527,049.70	2,094,174.54	39° 59' 29.175 N	109° 22' 48.050 W	
4,423.00	0.87	49.75	4,389.58	227.43	278.38	14,527,050.05	2,094,175.25	39° 59' 29.178 N	109° 22' 48.041 W	
4,513.00	1.11	40.89	4,479.57	228.53	279.48	14,527,051.17	2,094,176.32	39° 59' 29.189 N	109° 22' 48.027 W	
4,604.00	1.12	51.97	4,570.55	229.74	280.75	14,527,052.41	2,094,177.57	39° 59' 29.201 N	109° 22' 48.010 W	
4,694.00	1.34	74.90	4,660.53	230.56	282.46	14,527,053.25	2,094,179.27	39° 59' 29.209 N	109° 22' 47.988 W	
4,785.00	1.20	102.76	4,751.51	230.62	284.42	14,527,053.36	2,094,181.22	39° 59' 29.210 N	109° 22' 47.963 W	
4,875.00	1.21	113.11	4,841.49	230.04	286.21	14,527,052.81	2,094,183.03	39° 59' 29.204 N	109° 22' 47.940 W	
4,966.00	1.98	110.49	4,932.45	229.12	288.57	14,527,051.92	2,094,185.40	39° 59' 29.195 N	109° 22' 47.910 W	
5,056.00	1.77	117.21	5,022.40	227.94	291.26	14,527,050.79	2,094,188.11	39° 59' 29.183 N	109° 22' 47.875 W	
5,147.00	0.75	154.53	5,113.38	226.76	292.77	14,527,049.64	2,094,189.64	39° 59' 29.172 N	109° 22' 47.856 W	
5,237.00	0.91	220.93	5,203.37	225.68	292.55	14,527,048.57	2,094,189.44	39° 59' 29.161 N	109° 22' 47.859 W	
5,328.00	0.52	244.05	5,294.37	224.96	291.71	14,527,047.82	2,094,188.61	39° 59' 29.154 N	109° 22' 47.870 W	
5,418.00	1.27	316.11	5,384.36	225.50	290.65	14,527,048.34	2,094,187.54	39° 59' 29.159 N	109° 22' 47.883 W	
5,509.00	0.94	310.78	5,475.34	226.71	289.39	14,527,049.54	2,094,186.26	39° 59' 29.171 N	109° 22' 47.899 W	
5,599.00	0.70	281.48	5,565.33	227.30	288.29	14,527,050.11	2,094,185.15	39° 59' 29.177 N	109° 22' 47.914 W	

Company:	Kerr McGee Oil and Gas Onshore LP	Local Co-ordinate Reference:	Well NBU 922-3611 CS
Project:	Uintah County, UT UTM12	TVD Reference:	GL 5028' & KB 14' @ 5042.00ft (ENSIGN 139)
Site:	NBU 922-361 PAD	MD Reference:	GL 5028' & KB 14' @ 5042.00ft (ENSIGN 139)
Well:	NBU 922-3611CS	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
5,690.00	0.64	186.37	5,656.33	226.91	287.69	14,527,049.70	2,094,184.56	39° 59' 29.173 N	109° 22' 47.921 W	
5,780.00	0.07	182.05	5,746.33	226.35	287.63	14,527,049.15	2,094,184.51	39° 59' 29.168 N	109° 22' 47.922 W	
5,871.00	0.27	314.46	5,837.33	226.45	287.47	14,527,049.24	2,094,184.35	39° 59' 29.169 N	109° 22' 47.924 W	
5,961.00	0.67	295.39	5,927.32	226.82	286.85	14,527,049.60	2,094,183.72	39° 59' 29.172 N	109° 22' 47.932 W	
6,052.00	0.76	302.92	6,018.32	227.38	285.86	14,527,050.14	2,094,182.72	39° 59' 29.178 N	109° 22' 47.945 W	
6,142.00	0.87	359.97	6,108.31	228.39	285.36	14,527,051.14	2,094,182.20	39° 59' 29.188 N	109° 22' 47.951 W	
6,233.00	1.25	3.68	6,199.29	230.07	285.42	14,527,052.82	2,094,182.23	39° 59' 29.204 N	109° 22' 47.950 W	
6,323.00	0.93	3.15	6,289.28	231.78	285.52	14,527,054.53	2,094,182.31	39° 59' 29.221 N	109° 22' 47.949 W	
6,414.00	0.72	338.13	6,380.27	233.05	285.35	14,527,055.79	2,094,182.11	39° 59' 29.234 N	109° 22' 47.951 W	
6,504.00	1.36	341.93	6,470.25	234.59	284.81	14,527,057.32	2,094,181.54	39° 59' 29.249 N	109° 22' 47.958 W	
6,595.00	0.78	325.73	6,561.24	236.12	284.13	14,527,058.85	2,094,180.83	39° 59' 29.264 N	109° 22' 47.967 W	
6,685.00	0.19	0.49	6,651.23	236.78	283.78	14,527,059.50	2,094,180.47	39° 59' 29.271 N	109° 22' 47.971 W	
6,776.00	0.36	187.79	6,742.23	236.65	283.75	14,527,059.37	2,094,180.44	39° 59' 29.269 N	109° 22' 47.972 W	
6,866.00	0.77	148.51	6,832.23	235.85	284.02	14,527,058.58	2,094,180.73	39° 59' 29.262 N	109° 22' 47.968 W	
6,957.00	1.23	176.37	6,923.21	234.36	284.40	14,527,057.09	2,094,181.14	39° 59' 29.247 N	109° 22' 47.963 W	
7,047.00	0.88	236.96	7,013.20	233.01	283.89	14,527,055.74	2,094,180.65	39° 59' 29.234 N	109° 22' 47.970 W	
7,138.00	0.59	320.10	7,104.19	232.99	283.00	14,527,055.70	2,094,179.76	39° 59' 29.233 N	109° 22' 47.982 W	
7,228.00	0.81	325.31	7,194.19	233.87	282.34	14,527,056.57	2,094,179.08	39° 59' 29.242 N	109° 22' 47.990 W	
7,319.00	0.48	348.41	7,285.18	234.77	281.90	14,527,057.46	2,094,178.63	39° 59' 29.251 N	109° 22' 47.996 W	
7,409.00	0.00	10.95	7,375.18	235.14	281.82	14,527,057.83	2,094,178.54	39° 59' 29.255 N	109° 22' 47.997 W	
7,500.00	0.21	235.77	7,466.18	235.05	281.68	14,527,057.73	2,094,178.41	39° 59' 29.254 N	109° 22' 47.998 W	
7,591.00	0.57	302.14	7,557.18	235.20	281.16	14,527,057.87	2,094,177.88	39° 59' 29.255 N	109° 22' 48.005 W	
7,681.00	0.62	276.64	7,647.17	235.49	280.30	14,527,058.15	2,094,177.02	39° 59' 29.258 N	109° 22' 48.016 W	
7,772.00	0.94	213.21	7,738.17	234.92	279.40	14,527,057.56	2,094,176.13	39° 59' 29.252 N	109° 22' 48.028 W	
7,862.00	1.18	183.37	7,828.15	233.38	278.94	14,527,056.01	2,094,175.70	39° 59' 29.237 N	109° 22' 48.034 W	
7,953.00	1.14	149.39	7,919.14	231.67	279.35	14,527,054.31	2,094,176.13	39° 59' 29.220 N	109° 22' 48.028 W	
8,043.00	1.50	155.44	8,009.11	229.82	280.29	14,527,052.48	2,094,177.11	39° 59' 29.202 N	109° 22' 48.016 W	
8,134.00	1.66	155.64	8,100.08	227.54	281.33	14,527,050.22	2,094,178.19	39° 59' 29.179 N	109° 22' 48.003 W	
8,224.00	2.30	156.47	8,190.02	224.70	282.59	14,527,047.40	2,094,179.50	39° 59' 29.151 N	109° 22' 47.987 W	
8,315.00	2.56	153.40	8,280.94	221.21	284.23	14,527,043.94	2,094,181.21	39° 59' 29.117 N	109° 22' 47.966 W	
8,405.00	3.06	152.24	8,370.83	217.28	286.25	14,527,040.05	2,094,183.30	39° 59' 29.078 N	109° 22' 47.940 W	
8,496.00	3.17	155.10	8,461.70	212.85	288.44	14,527,035.66	2,094,185.57	39° 59' 29.034 N	109° 22' 47.912 W	
8,586.00	3.55	148.05	8,551.54	208.23	290.96	14,527,031.08	2,094,188.17	39° 59' 28.989 N	109° 22' 47.879 W	
8,674.00	3.46	147.87	8,639.38	203.67	293.82	14,527,026.58	2,094,191.11	39° 59' 28.943 N	109° 22' 47.843 W	
LAST SDI MWD PRODUCTION SURVEY										
8,730.00	3.46	147.87	8,695.28	200.81	295.61	14,527,023.75	2,094,192.96	39° 59' 28.915 N	109° 22' 47.819 W	
SDI PROJECTION TO BIT										

Design Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment	
		+N/-S (ft)	+E/-W (ft)		
183.00	183.00	0.42	0.32	FIRST WFT MWD SURFACE SURVEY	
2,310.00	2,278.50	243.87	245.32	LAST WFT MWD SURFACE SURVEY	
2,431.00	2,398.85	253.32	253.42	FIRST SDI MWD PRODUCTION SURVEY	
8,674.00	8,639.38	203.67	293.82	LAST SDI MWD PRODUCTION SURVEY	
8,730.00	8,695.28	200.81	295.61	SDI PROJECTION TO BIT	

Checked By: _____ Approved By: _____ Date: _____

BLM - Vernal Field Office - Notification Form

Operator KERR-McGEE OIL & GAS Rig Name/# BUCKET RIG
 Submitted By ANDY LYTLE Phone Number 720.929.6100
 Well Name/Number NBU 922-3611CS
 Qtr/Qtr NESE Section 36 Township 9S Range 22E
 Lease Serial Number ML 22650
 API Number 4304751588

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

Date/Time 10/20/2011 08:00 HRS AM PM

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

- Surface Casing
 Intermediate Casing
 Production Casing
 Liner
 Other

RECEIVED

OCT 19 2011

DIV. OF OIL, GAS & MINING

Date/Time 10/26/2011 08:00 HRS AM PM

BOPE

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

Date/Time _____ AM PM

Remarks ESTIMATED DATE AND TIME. PLEASE CONTACT KENNY GATHINGS AT

435.828.0986 OR LOVEL YOUNG AT 435.781.7051