

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 1022-11K4BS
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) UO1197A-ST	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	1980 FSL 2131 FEL	NWSE	11	10.0 S	22.0 E	S
Top of Uppermost Producing Zone	1804 FSL 1963 FWL	NESW	11	10.0 S	22.0 E	S
At Total Depth	1804 FSL 1963 FWL	NESW	11	10.0 S	22.0 E	S

21. COUNTY UINTAH	22. DISTANCE TO NEAREST LEASE LINE (Feet) 1962	23. NUMBER OF ACRES IN DRILLING UNIT 1674
24. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 506	25. PROPOSED DEPTH MD: 8622 TVD: 8430	
26. ELEVATION - GROUND LEVEL 5079	27. BOND NUMBER 22013542	28. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE 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 - 2050	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 - 8622	11.6	I-80 LT&C	12.5	Premium Lite High Strength	270	3.38	11.0
							50/50 Poz	1200	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 Andy Lytle	TITLE Regulatory Analyst	PHONE 720 929-6100
SIGNATURE	DATE 08/10/2011	EMAIL andrew.lytle@anadarko.com
API NUMBER ASSIGNED 43047518160000	APPROVAL  Permit Manager	

Kerr-McGee Oil & Gas Onshore. L.P.**NBU 1022-11K4BS**

Surface: 1980 FSL / 2131 FEL NWSE
 BHL: 1804 FSL / 1963 FWL NESW

Section 11 T10S R22E

Uintah County, Utah
 Mineral Lease: UO1197A-ST

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	900	
Birds Nest	1243	Water
Mahogany	1599	Water
Wasatch	4032	Gas
Mesaverde	6283	Gas
MVU2	7267	Gas
MVL1	7815	Gas
TVD	8430	Gas
TD	8622	Gas

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 8430' TVD, approximately equals
 5,395 psi 0.64 psi/ft = actual bottomhole gradient

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

Maximum anticipated surface pressure equals approximately 3,529 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.

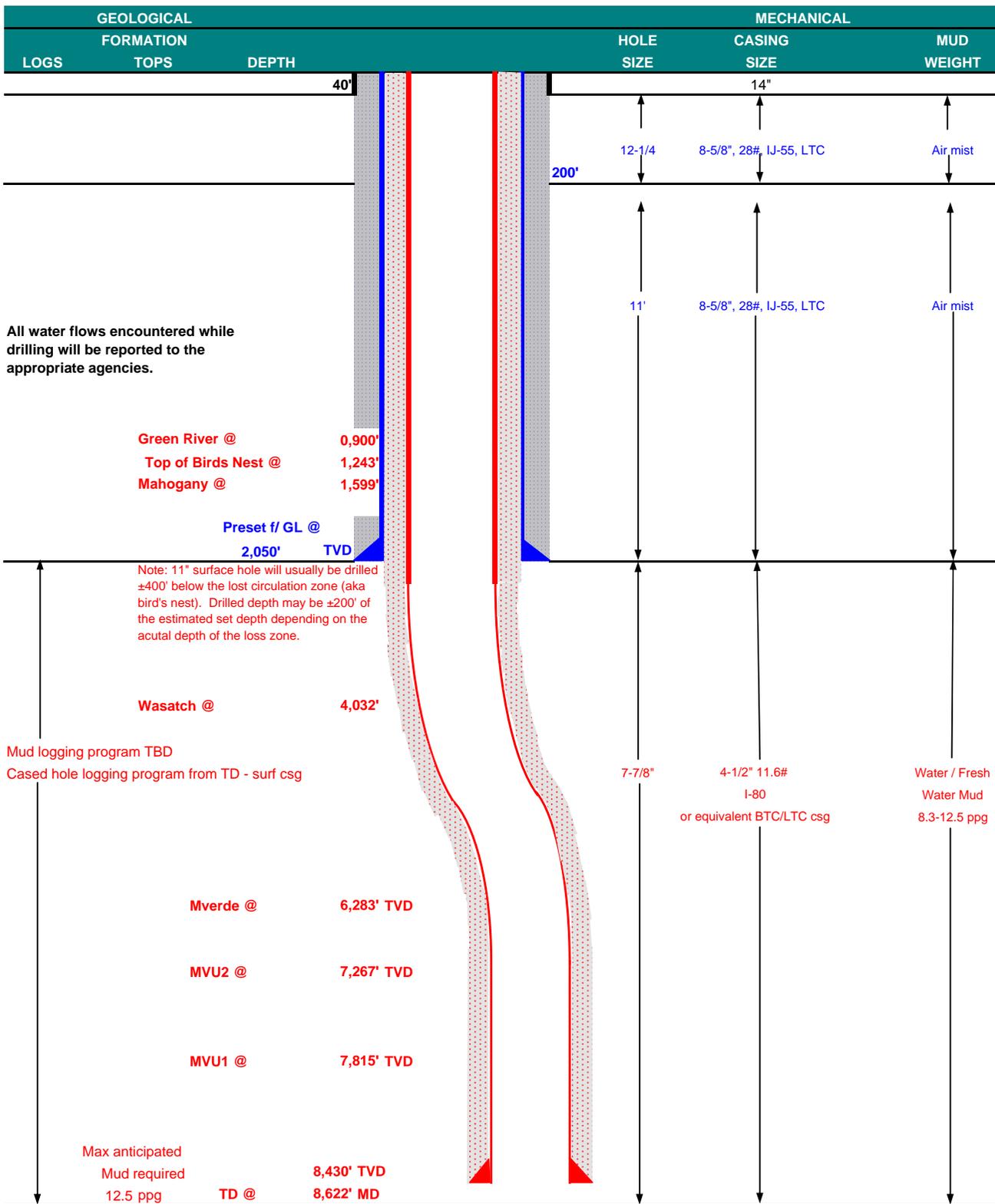
10. **Other Information:**

Please refer to the attached Drilling Program.



KERR-McGEE OIL & GAS ONSHORE LP DRILLING PROGRAM

COMPANY NAME	KERR-McGEE OIL & GAS ONSHORE LP		DATE	August 9, 2011	
WELL NAME	NBU 1022-11K4BS		TD	8,430' TVD	8,622' MD
FIELD	Natural Buttes	COUNTY	Uintah	STATE	Utah
SURFACE LOCATION	NWSE	1980 FSL	2131 FEL	Sec 11 T 10S R 22E	FINISHED ELEVATION 5078'
	Latitude: 39.961683	Longitude: -109.40469		NAD 27	
BTM HOLE LOCATION	NESW	1804 FSL	1963 FWL	Sec 11 T 10S R 22E	
	Latitude: 39.961201	Longitude: -109.408954		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 2,050	28.00	IJ-55	LTC	3,390	1,880	348,000	N/A
PRODUCTION	4-1/2"	0 to 8,622	11.60	I-80	LTC/BTC	2.64	1.96	6.92	N/A
						7,780	6,350	279,000	367,000
						1.11	1.16	3.45	4.54

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	1,550'	65/35 Poz + 6% Gel + 10 pps gilsonite + 0.25 pps Flocele + 3% salt BWOW	140	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	3,532'	Premium Lite II +0.25 pps celloflake + 5 pps gilsonite + 10% gel + 0.5% extender	270	20%	11.00	3.38
TAIL	5,090'	50/50 Poz/G + 10% salt + 2% gel + 0.1% R-3	1,200	35%	14.30	1.31

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

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

FLOAT EQUIPMENT & CENTRALIZERS

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

ADDITIONAL INFORMATION

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

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

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

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

DRILLING ENGINEER:

Nick Spence / Danny Showers

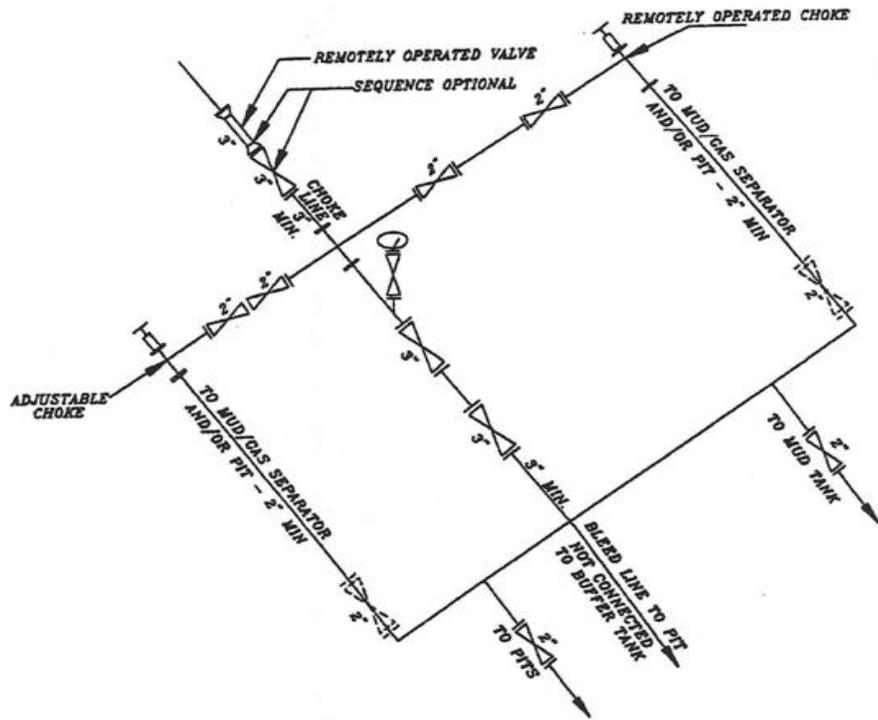
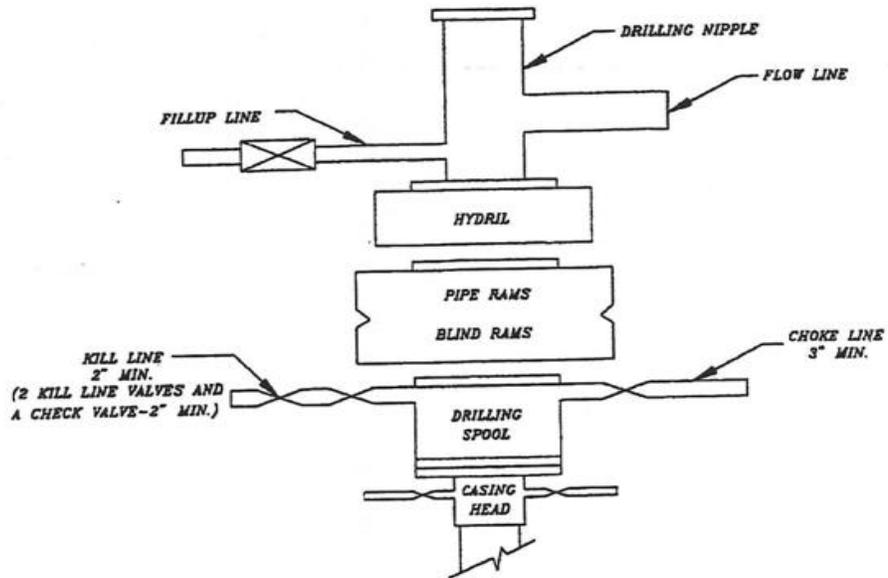
DATE: _____

DRILLING SUPERINTENDENT:

Kenny Gathings / Lovel Young

DATE: _____

EXHIBIT A
NBU 1022-11K4BS

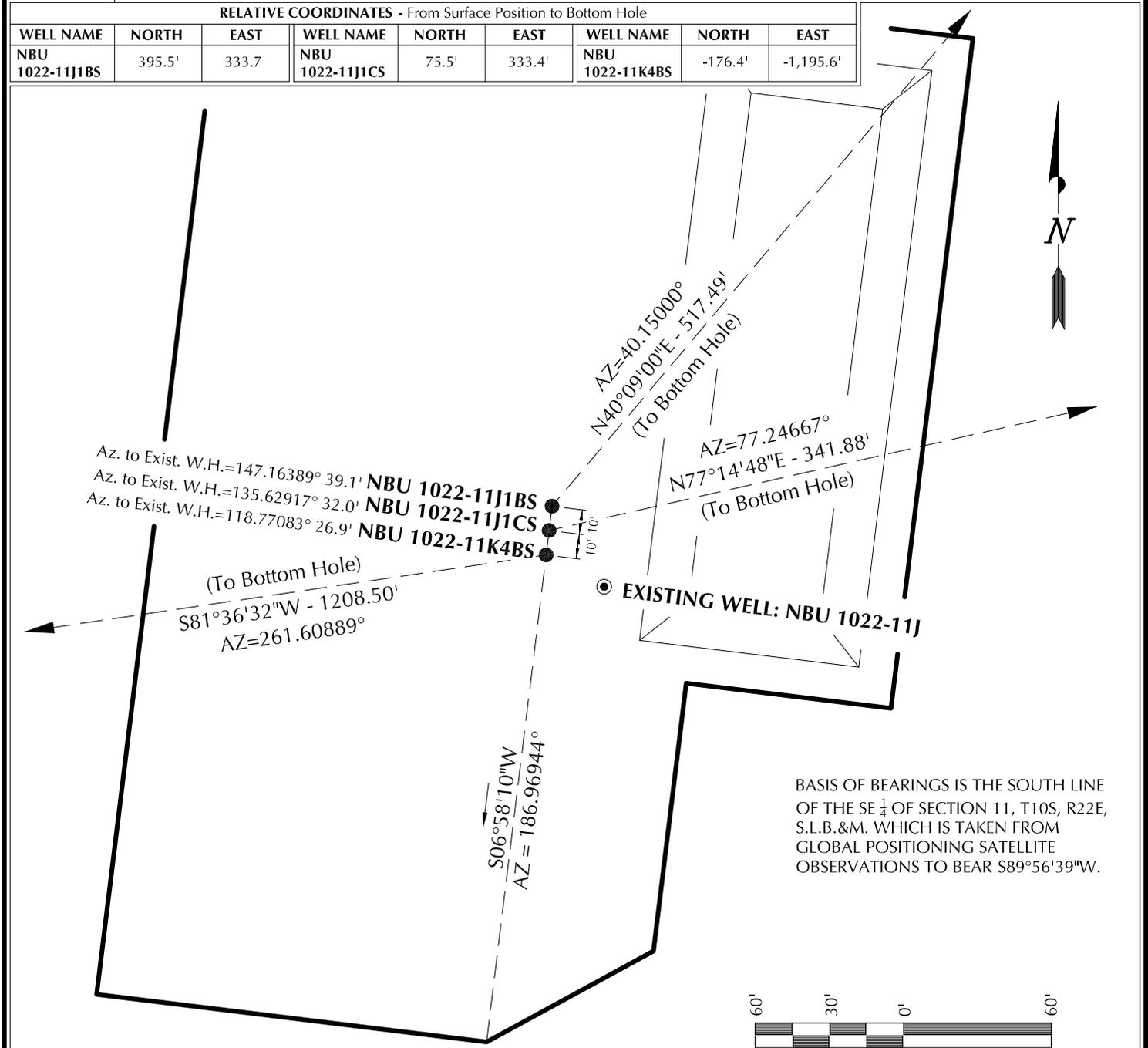


SCHEMATIC DIAGRAM OF 5,000 PSI BOP STACK

WELL NAME	SURFACE POSITION					BOTTOM HOLE				
	NAD83		NAD27		FOOTAGES	NAD83		NAD27		FOOTAGES
	LATITUDE	LONGITUDE	LATITUDE	LONGITUDE		LATITUDE	LONGITUDE	LATITUDE	LONGITUDE	
NBU 1022-11J1BS	39°57'42.131"	109°24'19.306"	39°57'42.255"	109°24'16.854"	2000' FSL 2129' FEL	39°57'46.037"	109°24'15.018"	39°57'46.161"	109°24'12.566"	2395' FSL 1798' FEL
NBU 1022-11J1CS	39°57'42.033"	109°24'19.322"	39°57'42.157"	109°24'16.869"	1990' FSL 2130' FEL	39°57'42.777"	109°24'15.040"	39°57'42.900"	109°24'12.588"	2065' FSL 1797' FEL
NBU 1022-11K4BS	39°57'41.935"	109°24'19.337"	39°57'42.059"	109°24'16.885"	1980' FSL 2131' FEL	39°57'40.200"	109°24'34.689"	39°57'40.324"	109°24'32.236"	1804' FSL 1963' FWL
NBU 1022-11J	39°57'41.807"	109°24'19.034"	39°57'41.930"	109°24'16.582"	1967' FSL 2107' FEL	39°57'41.167"	109°24'09.636"	39°57'41.167"	109°24'09.636"	

RELATIVE COORDINATES - From Surface Position to Bottom Hole

WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST
NBU 1022-11J1BS	395.5'	333.7'	NBU 1022-11J1CS	75.5'	333.4'	NBU 1022-11K4BS	-176.4'	-1,195.6'



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

WELL PAD - NBU 1022-11J

WELL PAD INTERFERENCE PLAT
WELLS - NBU 1022-11J1BS,
NBU 1022-11J1CS & NBU 1022-11K4BS
LOCATED IN SECTION 11, T10S, 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

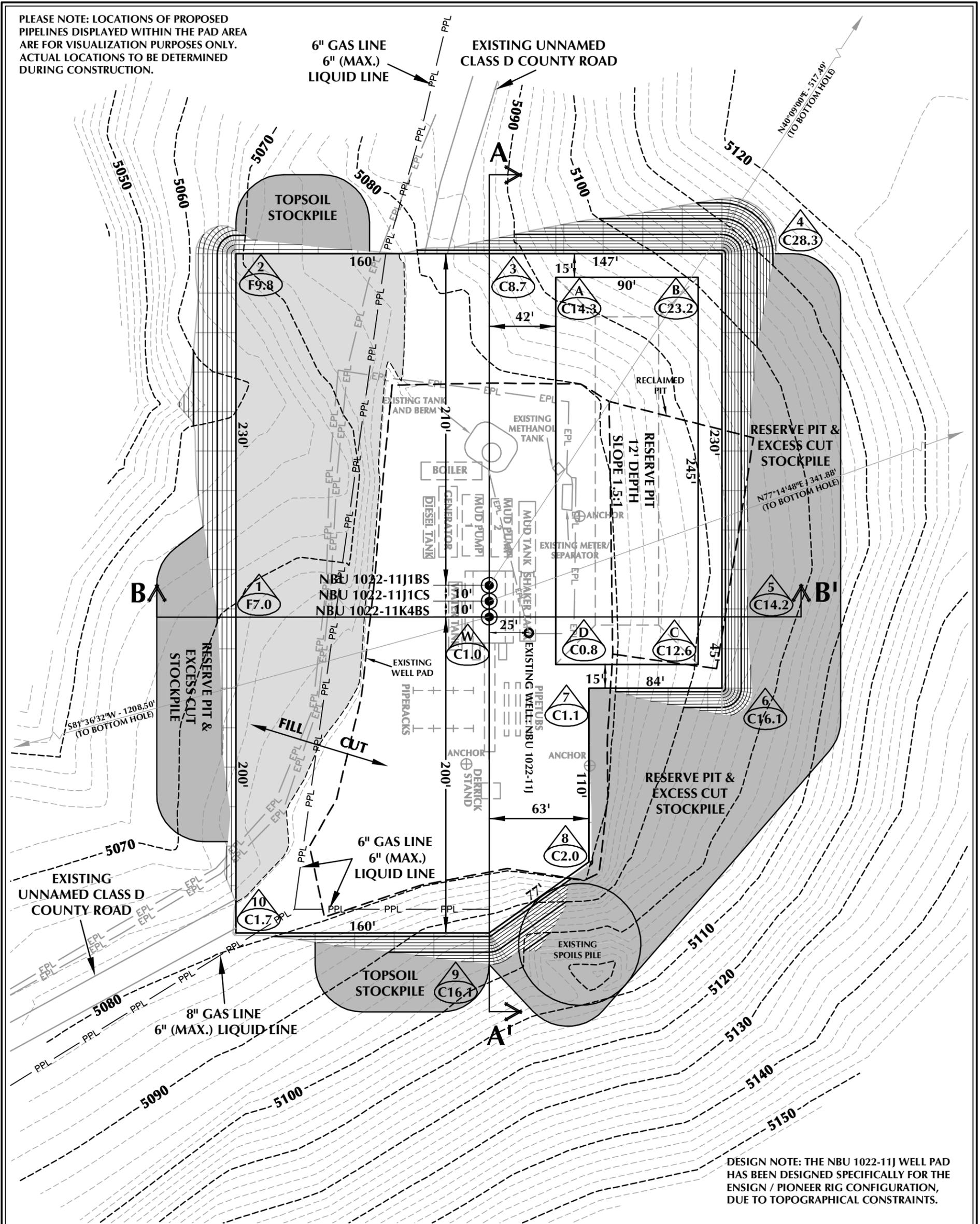
TIMBERLINE

(435) 789-1365

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

DATE SURVEYED: 12-29-10	SURVEYED BY: M.S.B.	SHEET NO: 4
DATE DRAWN: 01-14-11	DRAWN BY: E.M.S.	
SCALE: 1" = 60'	Date Last Revised:	4 OF 15

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 1022-11J WELL PAD HAS BEEN DESIGNED SPECIFICALLY FOR THE ENSIGN / PIONEER RIG CONFIGURATION, DUE TO TOPOGRAPHICAL CONSTRAINTS.

WELL PAD - NBU 1022-11J DESIGN SUMMARY

EXISTING GRADE @ CENTER OF WELL PAD = 5078.8'
 FINISHED GRADE ELEVATION = 5077.8'
 CUT SLOPES = 1:1
 FILL SLOPES = 1.5:1
 TOTAL WELL PAD AREA = 3.20 ACRES
 TOTAL DAMAGE AREA = 5.42 ACRES
 SHRINKAGE FACTOR = 1.10
 SWELL FACTOR = 1.00

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

WELL PAD - NBU 1022-11J

WELL PAD - LOCATION LAYOUT
 NBU 1022-11J1BS,
 NBU 1022-11J1CS & NBU 1022-11K4BS
 LOCATED IN SECTION 11, T10S, R22E,
 S.L.B.&M., UTAH COUNTY, UTAH



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

WELL PAD QUANTITIES

TOTAL CUT FOR WELL PAD = 16,741 C.Y.
 TOTAL FILL FOR WELL PAD = 10,689 C.Y.
 TOPSOIL @ 6" DEPTH = 1,687 C.Y.
 EXCESS MATERIAL = 6,052 C.Y.

RESERVE PIT QUANTITIES

TOTAL CUT FOR RESERVE PIT
 +/- 7,310 C.Y.
 RESERVE PIT CAPACITY (2' OF FREEBOARD)
 +/- 27,670 BARRELS

WELL PAD LEGEND

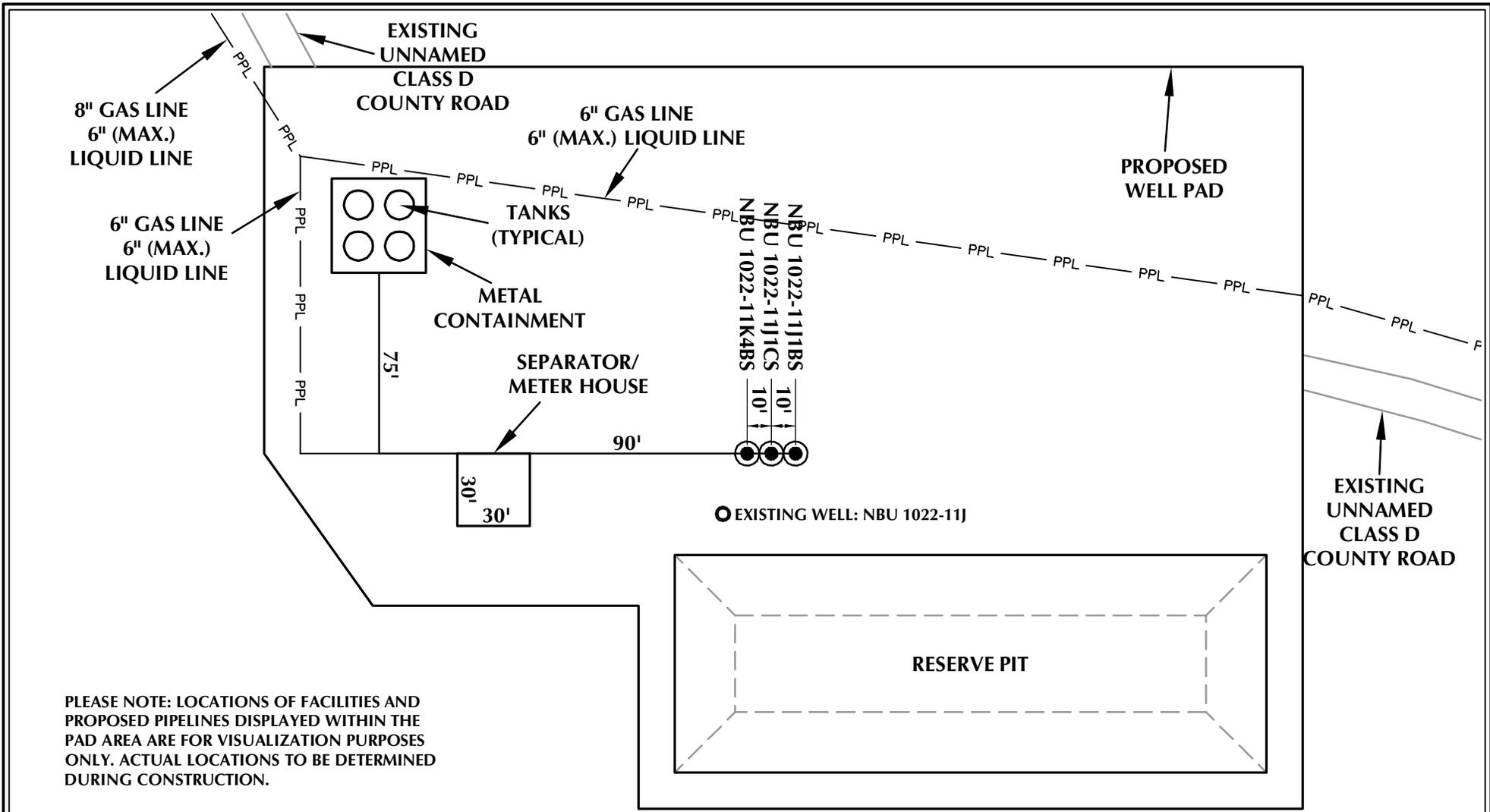
- EXISTING WELL LOCATION
- PROPOSED WELL LOCATION
- PROPOSED BOTTOM HOLE LOCATION
- EXISTING CONTOURS (2' INTERVAL)
- PROPOSED CONTOURS (2' INTERVAL)
- PPL - PROPOSED PIPELINE
- EPL - EXISTING PIPELINE



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

SCALE: 1"=60' DATE: 3/3/11 SHEET NO:
 REVISED: **5** 5 OF 15

TIMBERLINE (435) 789-1365
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 209 NORTH 300 WEST - VERNAL, UTAH 84078



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

WELL PAD - NBU 1022-11J

WELL PAD - FACILITIES DIAGRAM
NBU 1022-11J1BS,
NBU 1022-11J1CS & NBU 1022-11K4BS
LOCATED IN SECTION 11, T10S, 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 0 30' 60' 1" = 60'

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

Scale: 1"=60' Date: 3/8/11
REVISED:

SHEET NO:
7
7 OF 15

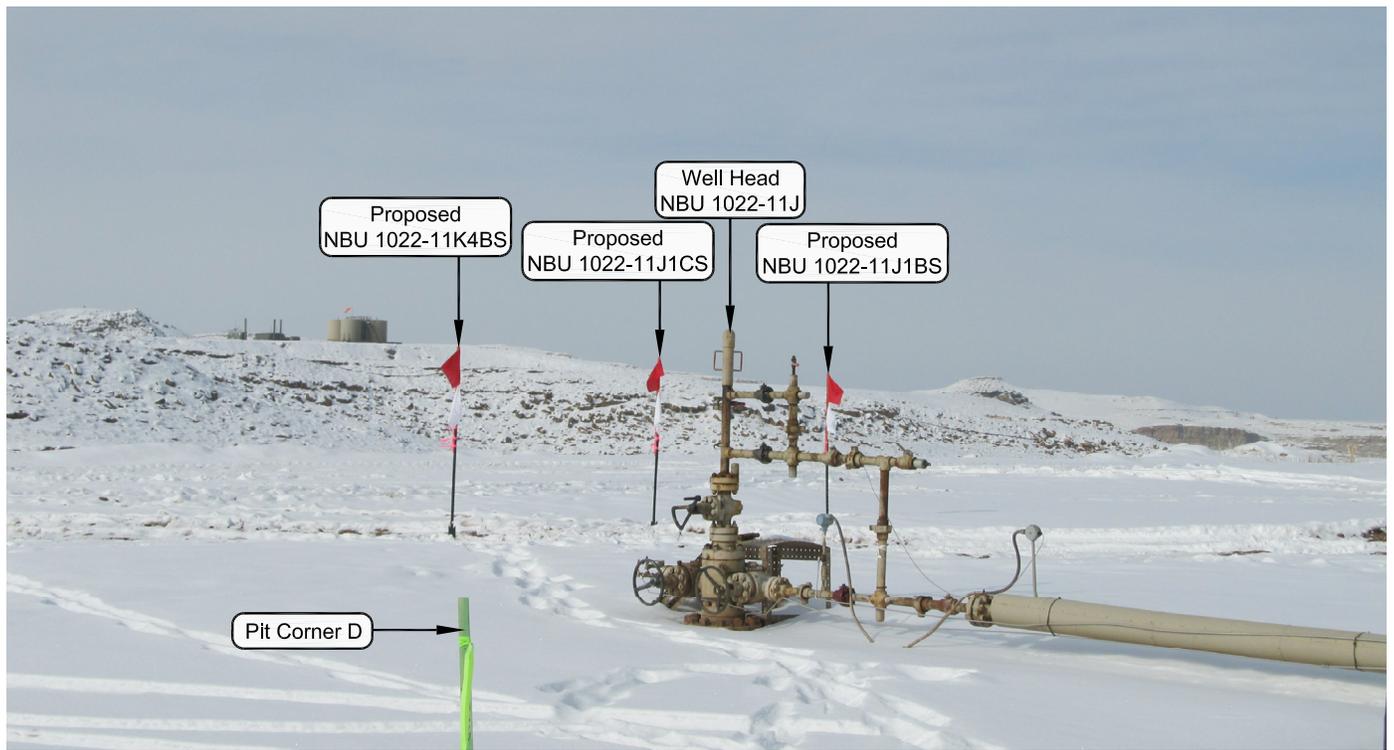


PHOTO VIEW: FROM PIT CORNER D TO LOCATION STAKE

CAMERA ANGLE: NORTHWESTERLY



PHOTO VIEW: FROM EXISTING ACCESS ROAD

CAMERA ANGLE: NORTHEASTERLY

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

WELL PAD - NBU 1022-11J

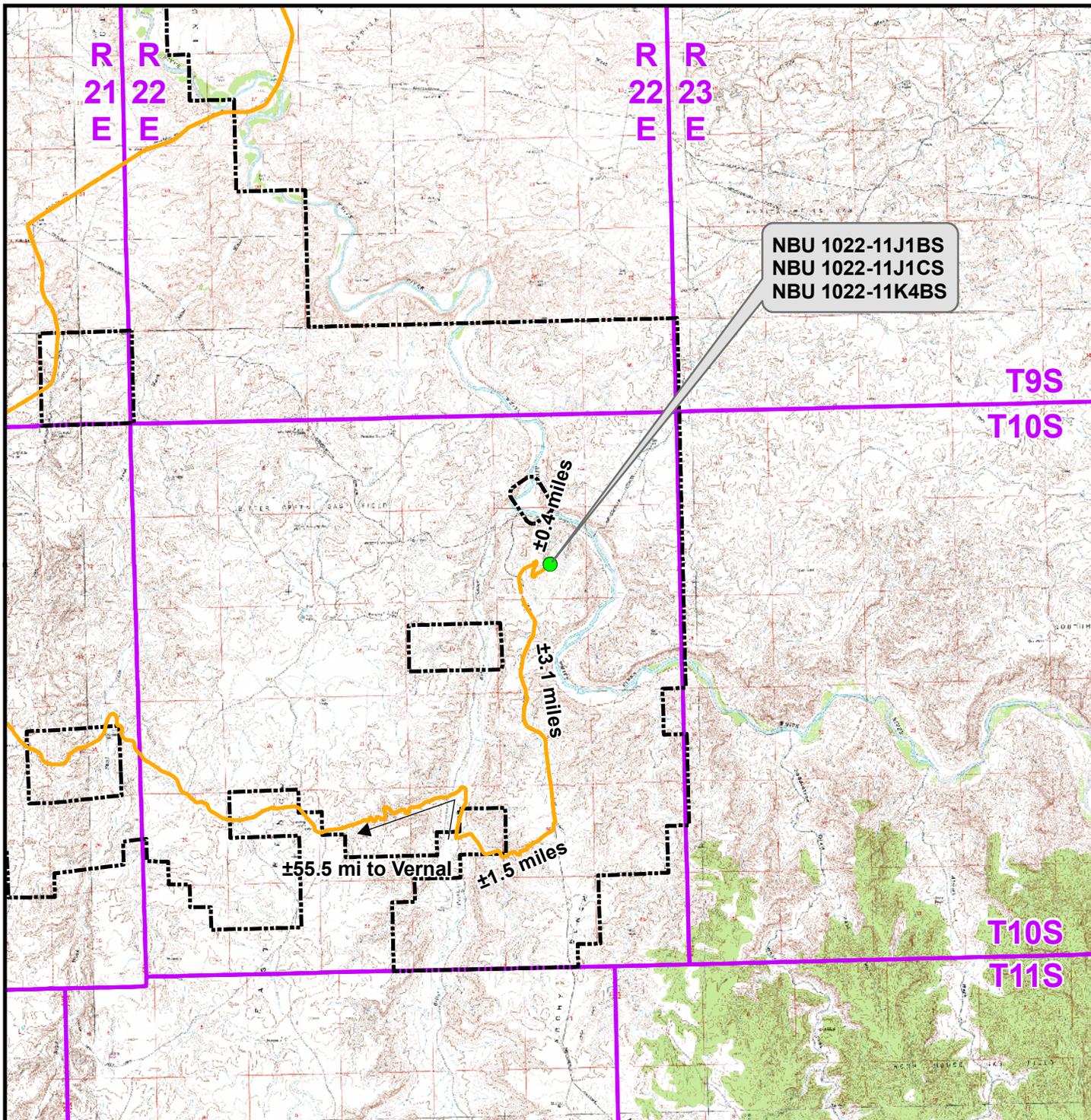
LOCATION PHOTOS
 NBU 1022-11J1BS,
 NBU 1022-11J1CS & NBU 1022-11K4BS
 LOCATED IN SECTION 11, T10S, R22E,
 S.L.B.&M., UINTAH COUNTY, UTAH.



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DATE PHOTOS TAKEN: 01-15-11	PHOTOS TAKEN BY: M.S.B.	SHEET NO: 8 8 OF 15
DATE DRAWN: 01-17-11	DRAWN BY: E.M.S.	
Date Last Revised:		



Legend

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

Distance From Well Pad - NBU 1022-11J To Unit Boundary: ±3,034ft

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

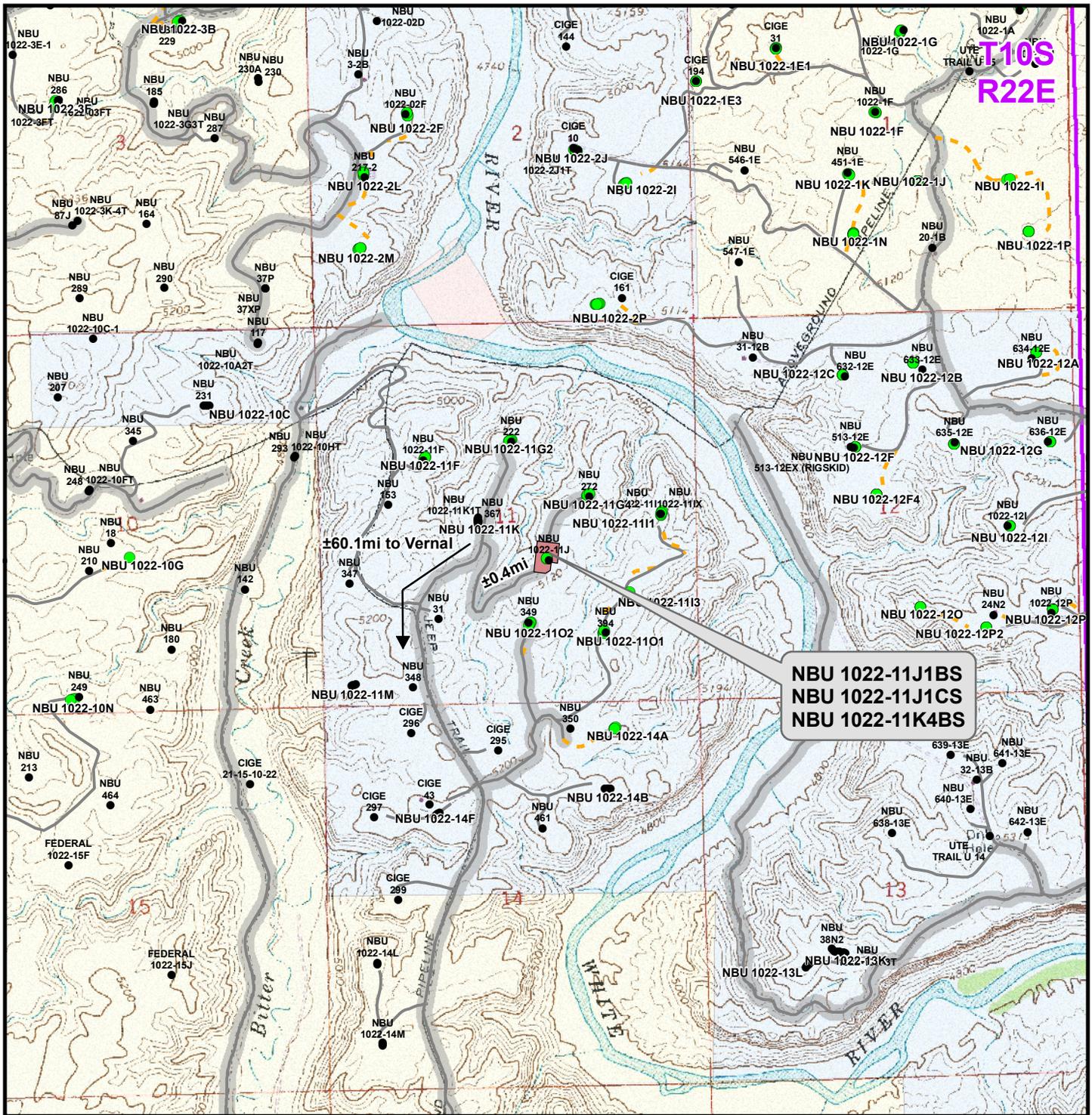
WELL PAD - NBU 1022-11J

TOPO A
NBU 1022-11J1BS,
NBU 1022-11J1CS & NBU 1022-11K4BS
LOCATED IN SECTION 11, T10S, 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: KGS	Date: 3 Mar 2011	9
Revised:	Date:	



**NBU 1022-11J1BS
NBU 1022-11J1CS
NBU 1022-11K4BS**

Legend

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

Total Proposed Road Length: ±0ft

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

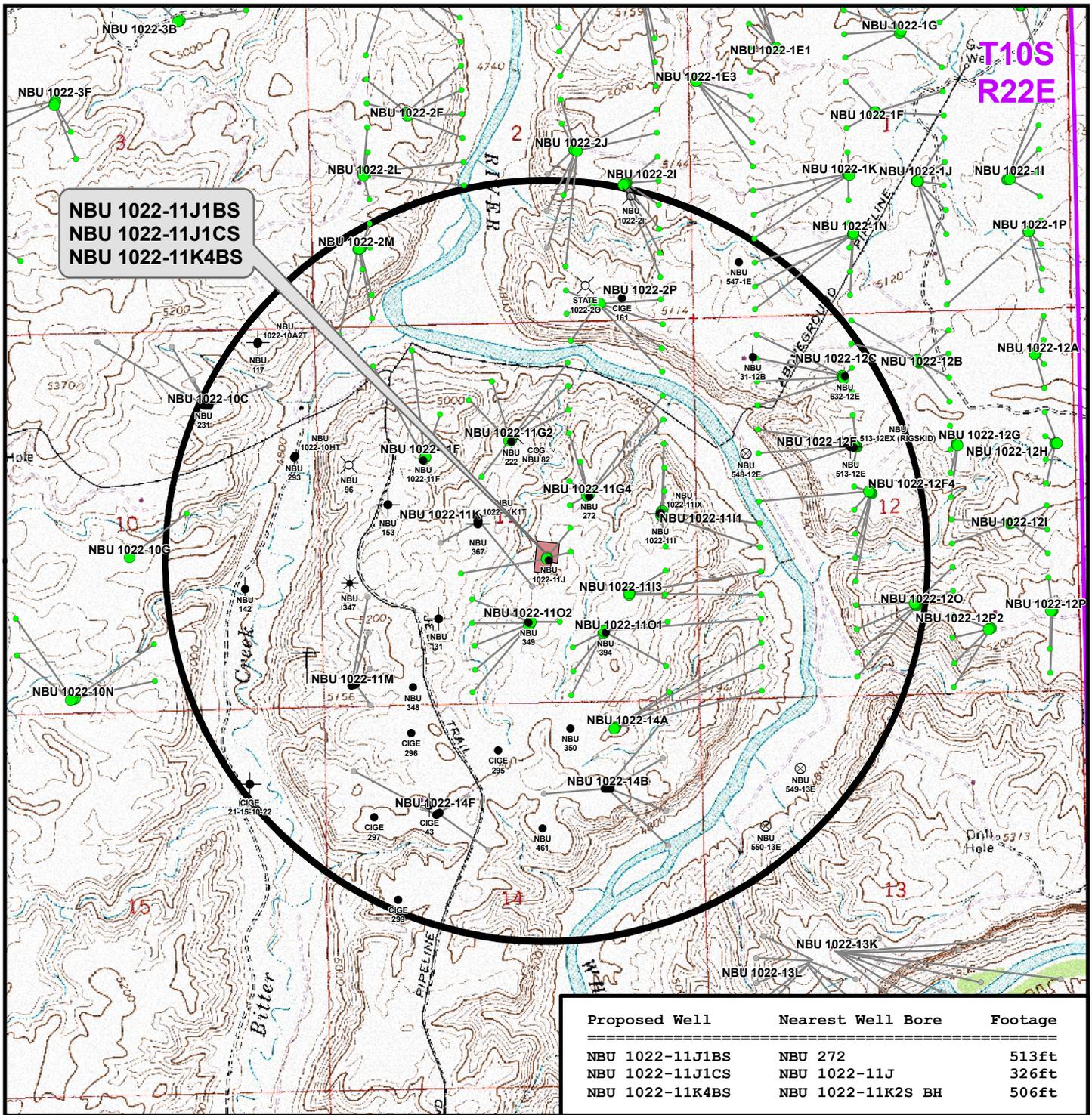
WELL PAD - NBU 1022-11J

TOPO B
NBU 1022-11J1BS,
NBU 1022-11J1CS & NBU 1022-11K4BS
LOCATED IN SECTION 11, T10S, 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:	10
Drawn: KGS	Date: 8 Feb 2011	10 of 15	
Revised:	Date:		



Proposed Well	Nearest Well Bore	Footage
NBU 1022-11J1BS	NBU 272	513ft
NBU 1022-11J1CS	NBU 1022-11J	326ft
NBU 1022-11K4BS	NBU 1022-11K2S BH	506ft

Legend

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

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

- Producing
- ⊕ Active
- ⊙ Spudded (Drilling commenced; Not yet completed)
- ⊙ Approved permit (APD); not yet spudded
- ⊙ New Permit (Not yet approved or drilled)
- ⊕ Inactive
- ⊗ Drilling Operations Suspended
- Temporarily-Abandoned
- Shut-In
- Plugged and Abandoned
- ⊙ Location Abandoned
- ⊙ Dry hole marker, buried
- ⊙ Returned APD (Unapproved)

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

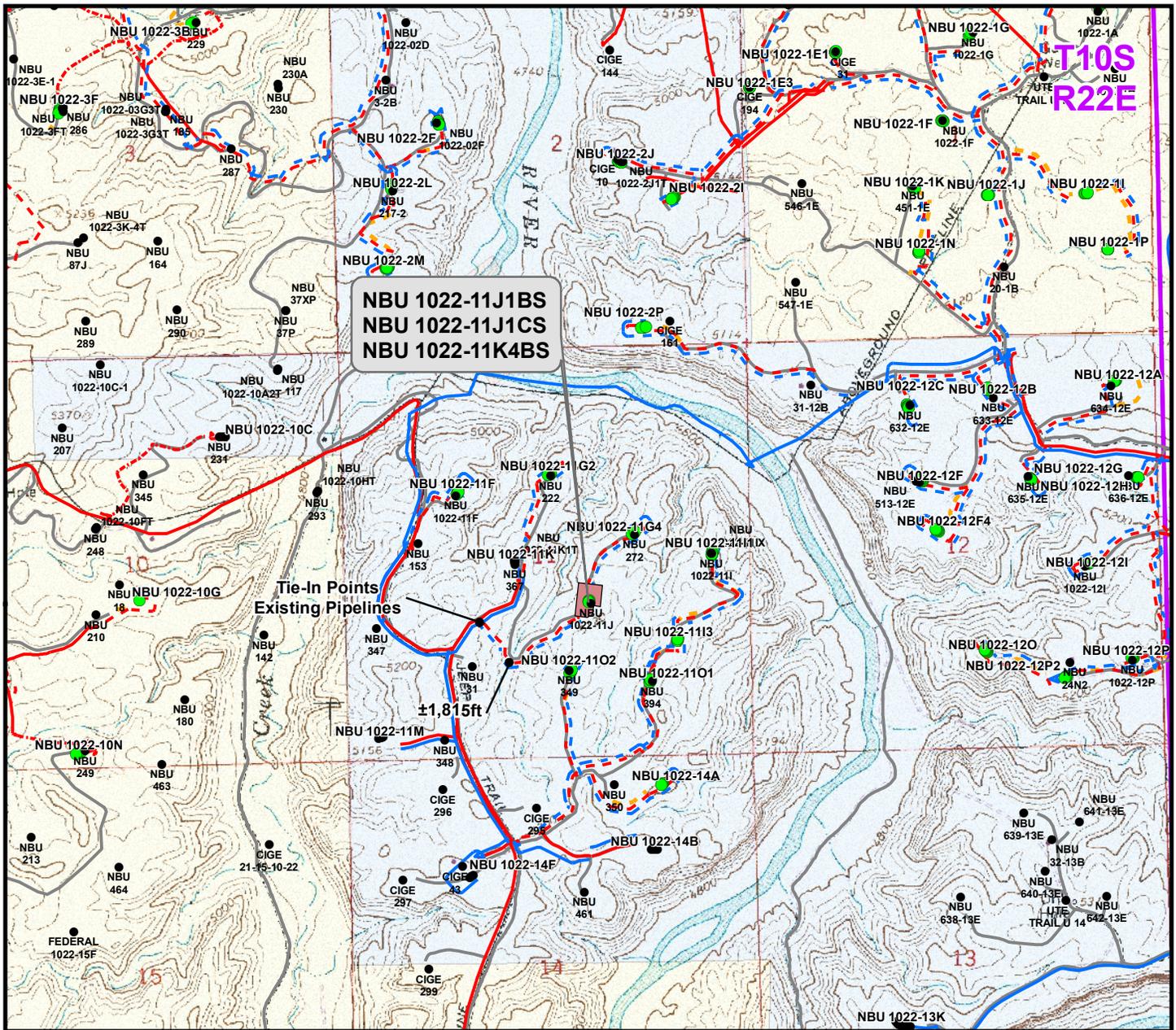
WELL PAD - NBU 1022-11J

TOPO C
NBU 1022-11J1BS,
NBU 1022-11J1CS & NBU 1022-11K4BS
LOCATED IN SECTION 11, T10S, R22E,
S.L.B.&M., UINTAH COUNTY, UTAH

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



Scale: 1" = 2,000ft	NAD83 USP Central	Sheet No:
Drawn: KGS	Date: 3 Mar 2011	11
Revised:	Date:	



Proposed Liquid Pipeline	Length
Proposed 6" (Max.) (Meter House to 11G4 Intersection)	±205ft
Proposed 6" (Max.) (11G4 Intersection to Existing Liquid Pipeline)	±1,815ft
TOTAL PROPOSED LIQUID PIPELINE =	±2,020ft

Proposed Gas Pipeline	Length
Proposed 6" (Meter House to 11G4 Intersection)	±205ft
Proposed 8" (11G4 Intersection to Existing 8" Gas Pipeline)	±1,815ft
TOTAL PROPOSED GAS PIPELINE =	±2,020ft

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

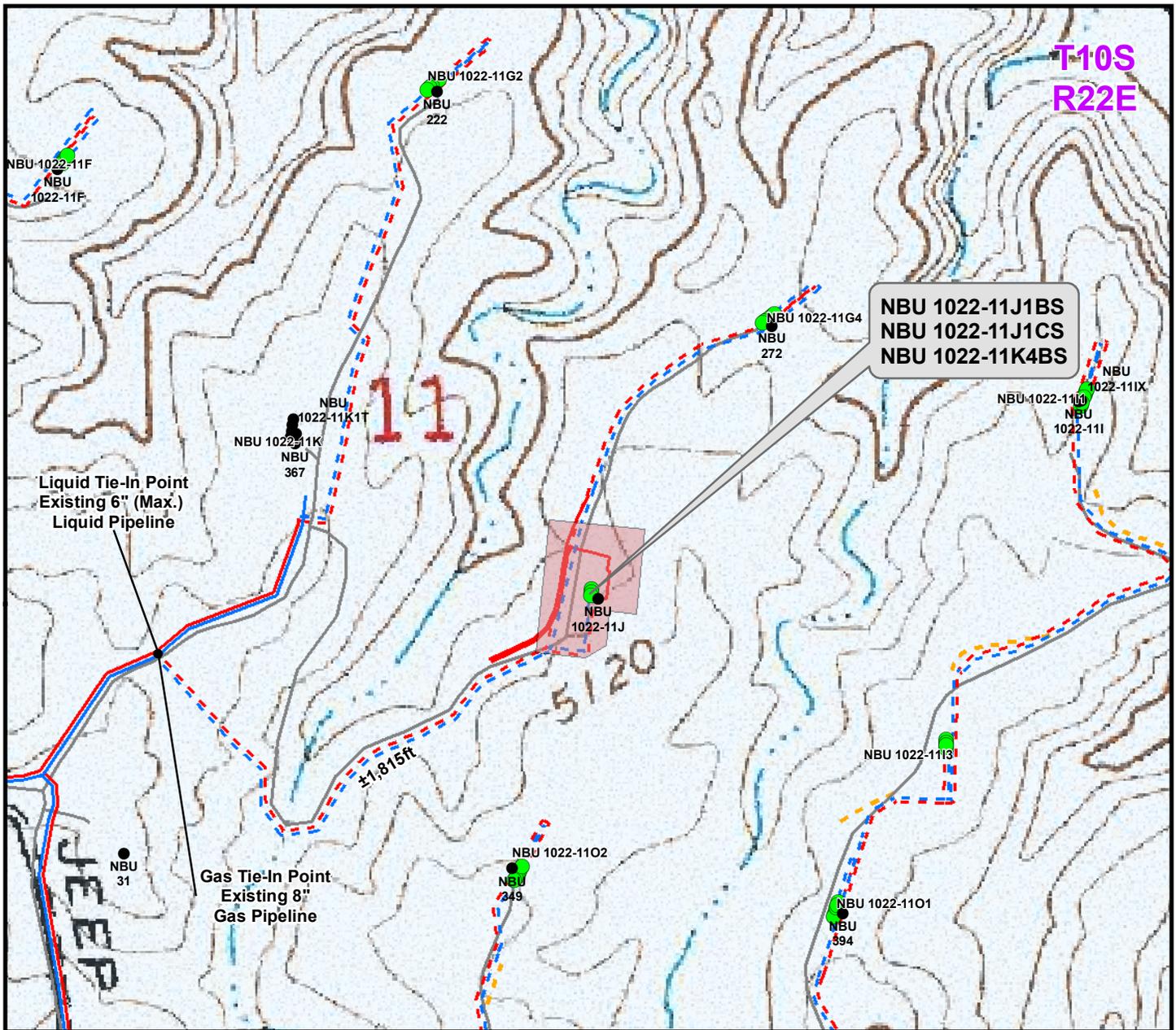
Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

WELL PAD - NBU 1022-11J

TOPO D
NBU 1022-11J1BS,
NBU 1022-11J1CS & NBU 1022-11K4BS
LOCATED IN SECTION 11, T10S, R22E,
S.L.B.&M., UINTAH COUNTY, UTAH

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

Scale: 1" = 2,000ft	NAD83 USP Central	Sheet No:
Drawn: JFE	Date: 3 Mar 2011	12 12 of 15
Revised:	Date:	



**NBU 1022-11J1BS
NBU 1022-11J1CS
NBU 1022-11K4BS**

Proposed Liquid Pipeline	Length
Proposed 6" (Max.) (Meter House to 11G4 Intersection)	±205ft
Proposed 6" (Max.) (11G4 Intersection to Existing Liquid Pipeline)	±1,815ft
TOTAL PROPOSED LIQUID PIPELINE =	±2,020ft

Proposed Gas Pipeline	Length
Proposed 6" (Meter House to 11G4 Intersection)	±205ft
Proposed 8" (11G4 Intersection to Existing 8" Gas Pipeline)	±1,815ft
TOTAL PROPOSED GAS PIPELINE =	±2,020ft

Legend

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

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

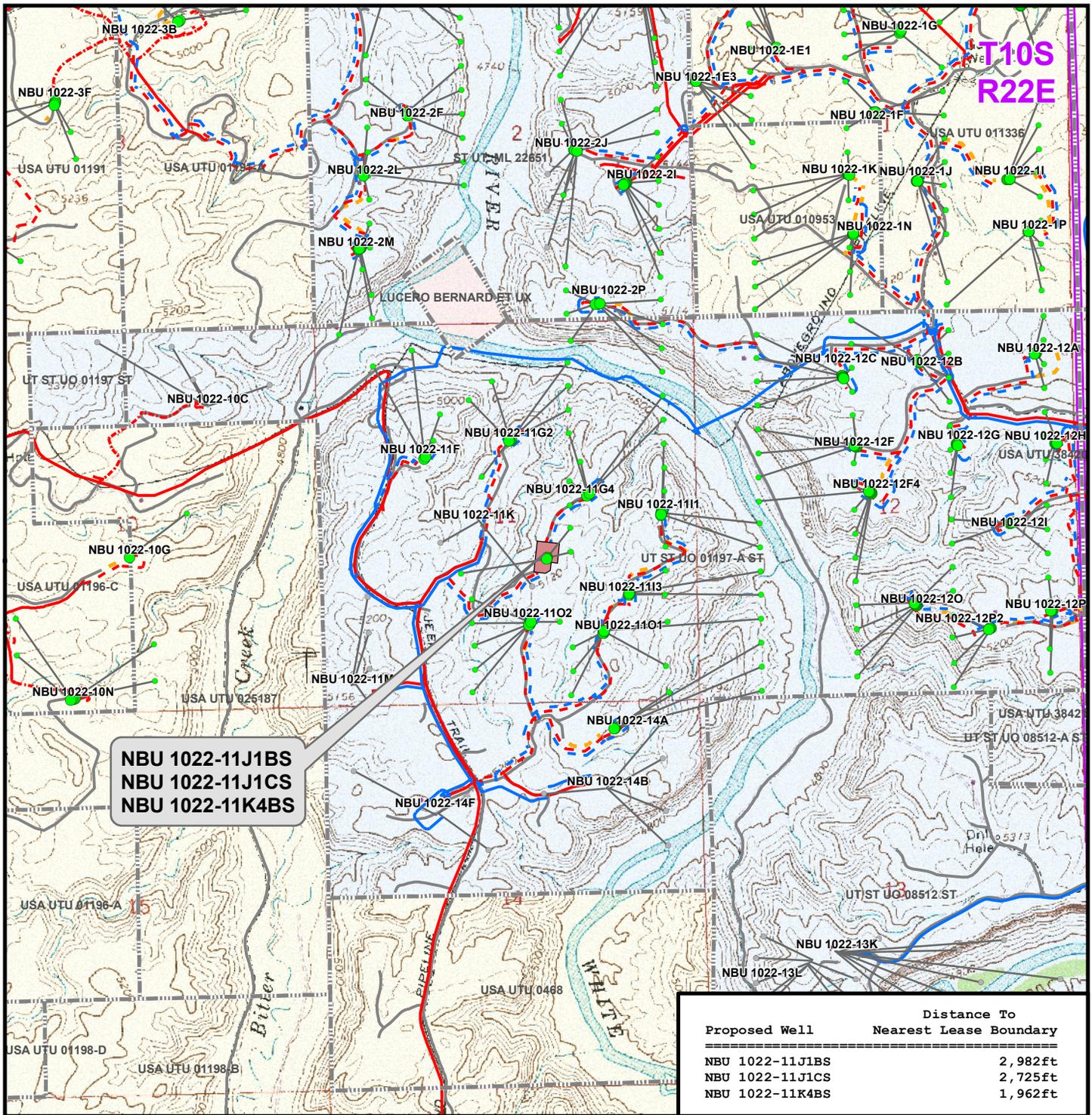
WELL PAD - NBU 1022-11J

TOPO D2 (PAD & PIPELINE DETAIL)
NBU 1022-11J1BS,
NBU 1022-11J1CS & NBU 1022-11K4BS
LOCATED IN SECTION 11, T10S, R22E,
S.L.B.&M., UINTAH COUNTY, UTAH

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



Scale: 1" = 500ft	NAD83 USP Central	Sheet No:
Drawn: JFE	Date: 3 Mar 2011	13 13 of 15
Revised:	Date:	



**NBU 1022-11J1BS
NBU 1022-11J1CS
NBU 1022-11K4BS**

Proposed Well	Distance To Nearest Lease Boundary
NBU 1022-11J1BS	2,982ft
NBU 1022-11J1CS	2,725ft
NBU 1022-11K4BS	1,962ft

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 1022-11J

TOPO E
NBU 1022-11J1BS,
NBU 1022-11J1CS & NBU 1022-11K4BS
LOCATED IN SECTION 11, T10S, R22E,
S.L.B.&M., UINTAH COUNTY, UTAH

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CONSULTING, LLC
2155 North Main Street
Sheridan, WY 82801
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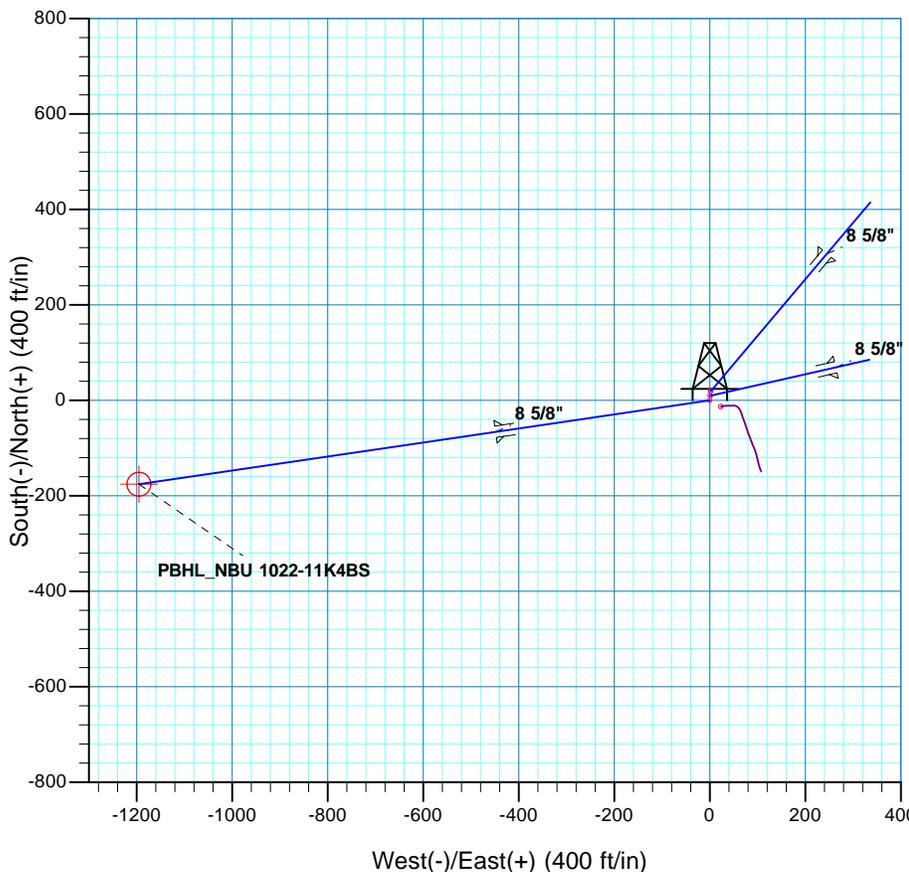
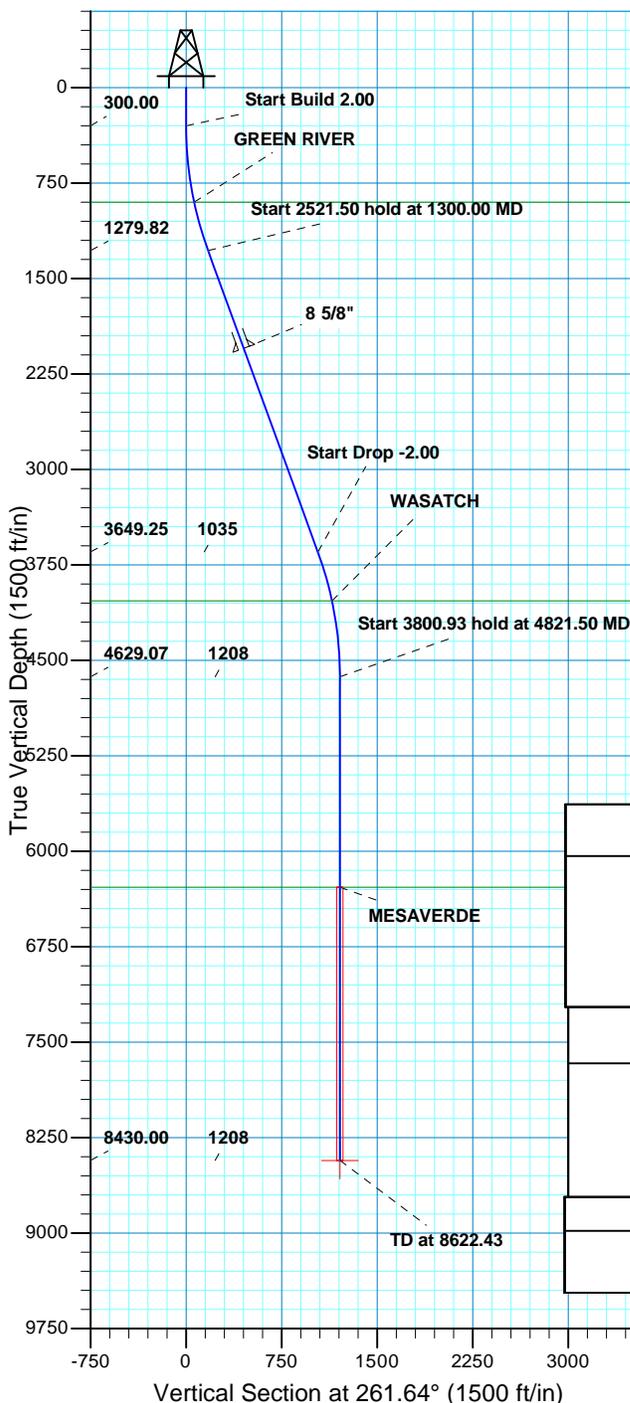
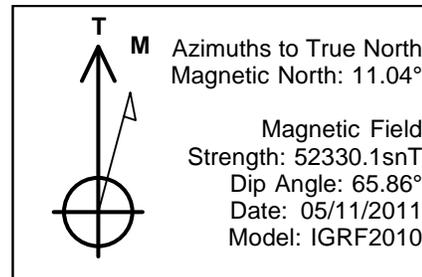
Scale: 1" = 2,000ft	NAD83 USP Central	Sheet No:
Drawn: KGS	Date: 3 Mar 2011	14
Revised:	Date:	

**Kerr-McGee Oil & Gas Onshore, LP
WELL PAD - NBU 1022-11J
WELLS – NBU 1022-11J1BS,
NBU 1022-11J1CS & NBU 1022-11K4BS
Section 11, T10S, 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 23.8 miles to the intersection of the Bitter Creek Road (County B Road 4120). Exit left and proceed in a southeasterly direction along the Bitter Creek Road approximately 8.2 miles to the junction of the Bitter Creek Cut Off Road (County B Road 4140). Exit left and proceed in an easterly direction along the Bitter Creek Cut Off Road approximately 1.5 miles to the junction of the Archy Bench Road (County D Road 4150). Exit left and proceed in a northerly direction along the Archy Bench Road approximately 3.1 miles to a Class D County Road to the south. Exit right and proceed in a southerly, then northeasterly direction along the Class D County Road approximately 0.4 miles to the proposed well location.

Total distance from Vernal, Utah to the proposed well location is approximately 60.5 miles in a southerly direction.

WELL DETAILS: NBU 1022-11K4BS						
GL 5078 & KB 14' @ 5092.00ft (ASSUMED)						
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	
0.00	0.00	14516089.70	2087456.33	39° 57' 42.059 N	109° 24' 16.884 W	
DESIGN TARGET DETAILS						
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude Longitude Shape
PBHL	8430.00	-175.52	-1195.12	14515892.83	2086264.54	39° 57' 40.324 N 109° 24' 32.234 W Circle (Radius: 25.00)
- plan hits target center						



SECTION DETAILS										
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect		
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00		
1300.00	20.00	261.64	1279.82	-25.10	-170.93	2.00	261.64	172.77		
3821.50	20.00	261.64	3649.25	-150.42	-1024.18	0.00	0.00	1035.17		
4821.50	0.00	0.00	4629.07	-175.52	-1195.12	2.00	180.00	1207.94		
8622.43	0.00	0.00	8430.00	-175.52	-1195.12	0.00	0.00	1207.94		
PBHL_NBU 1022-11K4BS										
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 11 T10S R22E System Datum: Mean Sea Level							No formation data is available			
CASING DETAILS										
			TVD	MD	Name	Size				
			2050.00	2119.61	8 5/8"	8.625				

RECEIVED



Kerr McGee Oil and Gas Onshore LP

**Uintah County, UT UTM12
NBU 1022-11J PAD
NBU 1022-11K4BS**

OH

Plan: PLAN #1 5-11-11

Standard Planning Report

11 May, 2011





SDI
Planning Report



Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 1022-11K4BS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 5078 & KB 14' @ 5092.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 5078 & KB 14' @ 5092.00ft (ASSUMED)
Site:	NBU 1022-11J PAD	North Reference:	True
Well:	NBU 1022-11K4BS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1 5-11-11		

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 1022-11J PAD, SECTION 11 T10S R22E				
Site Position:		Northing:	14,516,109.41 usft	Latitude:	39° 57' 42.253 N
From:	Lat/Long	Easting:	2,087,458.22 usft	Longitude:	109° 24' 16.855 W
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence:	1.02 °

Well	NBU 1022-11K4BS, 1980 FSL 2131 FEL					
Well Position	+N/-S	-19.67 ft	Northing:	14,516,089.71 usft	Latitude:	39° 57' 42.059 N
	+E/-W	-2.24 ft	Easting:	2,087,456.33 usft	Longitude:	109° 24' 16.884 W
Position Uncertainty		0.00 ft	Wellhead Elevation:		Ground Level:	5,078.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	05/11/2011	11.04	65.86	52,330

Design	PLAN #1 5-11-11			
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	261.64

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,300.00	20.00	261.64	1,279.82	-25.10	-170.93	2.00	2.00	0.00	261.64	
3,821.50	20.00	261.64	3,649.25	-150.42	-1,024.19	0.00	0.00	0.00	0.00	
4,821.50	0.00	0.00	4,629.07	-175.52	-1,195.12	2.00	-2.00	0.00	180.00	
8,622.43	0.00	0.00	8,430.00	-175.52	-1,195.12	0.00	0.00	0.00	0.00	PBHL_NBU 1022-11H



Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 1022-11K4BS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 5078 & KB 14' @ 5092.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 5078 & KB 14' @ 5092.00ft (ASSUMED)
Site:	NBU 1022-11J PAD	North Reference:	True
Well:	NBU 1022-11K4BS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1 5-11-11		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
Start Build 2.00										
400.00	2.00	261.64	399.98	-0.25	-1.73	1.75	2.00	2.00	0.00	
500.00	4.00	261.64	499.84	-1.01	-6.90	6.98	2.00	2.00	0.00	
600.00	6.00	261.64	599.45	-2.28	-15.53	15.69	2.00	2.00	0.00	
700.00	8.00	261.64	698.70	-4.05	-27.58	27.88	2.00	2.00	0.00	
800.00	10.00	261.64	797.47	-6.32	-43.06	43.52	2.00	2.00	0.00	
900.00	12.00	261.64	895.62	-9.10	-61.94	62.60	2.00	2.00	0.00	
1,000.00	14.00	261.64	993.06	-12.37	-84.19	85.10	2.00	2.00	0.00	
1,100.00	16.00	261.64	1,089.64	-16.13	-109.80	110.98	2.00	2.00	0.00	
1,200.00	18.00	261.64	1,185.27	-20.37	-138.72	140.21	2.00	2.00	0.00	
1,300.00	20.00	261.64	1,279.82	-25.10	-170.93	172.77	2.00	2.00	0.00	
Start 2521.50 hold at 1300.00 MD										
1,400.00	20.00	261.64	1,373.78	-30.07	-204.77	206.97	0.00	0.00	0.00	
1,500.00	20.00	261.64	1,467.75	-35.04	-238.61	241.17	0.00	0.00	0.00	
1,600.00	20.00	261.64	1,561.72	-40.01	-272.45	275.37	0.00	0.00	0.00	
1,700.00	20.00	261.64	1,655.69	-44.98	-306.29	309.58	0.00	0.00	0.00	
1,800.00	20.00	261.64	1,749.66	-49.95	-340.13	343.78	0.00	0.00	0.00	
1,900.00	20.00	261.64	1,843.63	-54.92	-373.97	377.98	0.00	0.00	0.00	
2,000.00	20.00	261.64	1,937.60	-59.89	-407.81	412.18	0.00	0.00	0.00	
2,100.00	20.00	261.64	2,031.57	-64.86	-441.65	446.38	0.00	0.00	0.00	
2,119.61	20.00	261.64	2,050.00	-65.84	-448.28	453.09	0.00	0.00	0.00	
8 5/8"										
2,200.00	20.00	261.64	2,125.54	-69.83	-475.49	480.59	0.00	0.00	0.00	
2,300.00	20.00	261.64	2,219.51	-74.80	-509.32	514.79	0.00	0.00	0.00	
2,400.00	20.00	261.64	2,313.48	-79.77	-543.16	548.99	0.00	0.00	0.00	
2,500.00	20.00	261.64	2,407.45	-84.74	-577.00	583.19	0.00	0.00	0.00	
2,600.00	20.00	261.64	2,501.42	-89.71	-610.84	617.39	0.00	0.00	0.00	
2,700.00	20.00	261.64	2,595.39	-94.68	-644.68	651.60	0.00	0.00	0.00	
2,800.00	20.00	261.64	2,689.35	-99.65	-678.52	685.80	0.00	0.00	0.00	
2,900.00	20.00	261.64	2,783.32	-104.62	-712.36	720.00	0.00	0.00	0.00	
3,000.00	20.00	261.64	2,877.29	-109.59	-746.20	754.20	0.00	0.00	0.00	
3,100.00	20.00	261.64	2,971.26	-114.56	-780.04	788.40	0.00	0.00	0.00	
3,200.00	20.00	261.64	3,065.23	-119.53	-813.88	822.61	0.00	0.00	0.00	
3,300.00	20.00	261.64	3,159.20	-124.50	-847.71	856.81	0.00	0.00	0.00	
3,400.00	20.00	261.64	3,253.17	-129.47	-881.55	891.01	0.00	0.00	0.00	
3,500.00	20.00	261.64	3,347.14	-134.44	-915.39	925.21	0.00	0.00	0.00	
3,600.00	20.00	261.64	3,441.11	-139.41	-949.23	959.41	0.00	0.00	0.00	
3,700.00	20.00	261.64	3,535.08	-144.38	-983.07	993.62	0.00	0.00	0.00	
3,800.00	20.00	261.64	3,629.05	-149.35	-1,016.91	1,027.82	0.00	0.00	0.00	
3,821.50	20.00	261.64	3,649.25	-150.42	-1,024.19	1,035.17	0.00	0.00	0.00	
Start Drop -2.00										
3,900.00	18.43	261.64	3,723.38	-154.17	-1,049.75	1,061.01	2.00	-2.00	0.00	
4,000.00	16.43	261.64	3,818.78	-158.52	-1,079.38	1,090.96	2.00	-2.00	0.00	
4,100.00	14.43	261.64	3,915.17	-162.39	-1,105.70	1,117.56	2.00	-2.00	0.00	
4,200.00	12.43	261.64	4,012.43	-165.76	-1,128.68	1,140.79	2.00	-2.00	0.00	
4,300.00	10.43	261.64	4,110.44	-168.64	-1,148.29	1,160.60	2.00	-2.00	0.00	
4,400.00	8.43	261.64	4,209.09	-171.02	-1,164.50	1,176.99	2.00	-2.00	0.00	
4,500.00	6.43	261.64	4,308.24	-172.90	-1,177.29	1,189.92	2.00	-2.00	0.00	



SDI
Planning Report



Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 1022-11K4BS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 5078 & KB 14' @ 5092.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 5078 & KB 14' @ 5092.00ft (ASSUMED)
Site:	NBU 1022-11J PAD	North Reference:	True
Well:	NBU 1022-11K4BS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1 5-11-11		

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)	
4,600.00	4.43	261.64	4,407.79	-174.28	-1,186.65	1,199.38	2.00	-2.00	0.00	
4,700.00	2.43	261.64	4,507.60	-175.15	-1,192.57	1,205.36	2.00	-2.00	0.00	
4,800.00	0.43	261.64	4,607.57	-175.51	-1,195.04	1,207.86	2.00	-2.00	0.00	
4,821.50	0.00	0.00	4,629.07	-175.52	-1,195.12	1,207.94	2.00	-2.00	0.00	
Start 3800.93 hold at 4821.50 MD										
4,900.00	0.00	0.00	4,707.57	-175.52	-1,195.12	1,207.94	0.00	0.00	0.00	
5,000.00	0.00	0.00	4,807.57	-175.52	-1,195.12	1,207.94	0.00	0.00	0.00	
5,100.00	0.00	0.00	4,907.57	-175.52	-1,195.12	1,207.94	0.00	0.00	0.00	
5,200.00	0.00	0.00	5,007.57	-175.52	-1,195.12	1,207.94	0.00	0.00	0.00	
5,300.00	0.00	0.00	5,107.57	-175.52	-1,195.12	1,207.94	0.00	0.00	0.00	
5,400.00	0.00	0.00	5,207.57	-175.52	-1,195.12	1,207.94	0.00	0.00	0.00	
5,500.00	0.00	0.00	5,307.57	-175.52	-1,195.12	1,207.94	0.00	0.00	0.00	
5,600.00	0.00	0.00	5,407.57	-175.52	-1,195.12	1,207.94	0.00	0.00	0.00	
5,700.00	0.00	0.00	5,507.57	-175.52	-1,195.12	1,207.94	0.00	0.00	0.00	
5,800.00	0.00	0.00	5,607.57	-175.52	-1,195.12	1,207.94	0.00	0.00	0.00	
5,900.00	0.00	0.00	5,707.57	-175.52	-1,195.12	1,207.94	0.00	0.00	0.00	
6,000.00	0.00	0.00	5,807.57	-175.52	-1,195.12	1,207.94	0.00	0.00	0.00	
6,100.00	0.00	0.00	5,907.57	-175.52	-1,195.12	1,207.94	0.00	0.00	0.00	
6,200.00	0.00	0.00	6,007.57	-175.52	-1,195.12	1,207.94	0.00	0.00	0.00	
6,300.00	0.00	0.00	6,107.57	-175.52	-1,195.12	1,207.94	0.00	0.00	0.00	
6,400.00	0.00	0.00	6,207.57	-175.52	-1,195.12	1,207.94	0.00	0.00	0.00	
6,500.00	0.00	0.00	6,307.57	-175.52	-1,195.12	1,207.94	0.00	0.00	0.00	
6,600.00	0.00	0.00	6,407.57	-175.52	-1,195.12	1,207.94	0.00	0.00	0.00	
6,700.00	0.00	0.00	6,507.57	-175.52	-1,195.12	1,207.94	0.00	0.00	0.00	
6,800.00	0.00	0.00	6,607.57	-175.52	-1,195.12	1,207.94	0.00	0.00	0.00	
6,900.00	0.00	0.00	6,707.57	-175.52	-1,195.12	1,207.94	0.00	0.00	0.00	
7,000.00	0.00	0.00	6,807.57	-175.52	-1,195.12	1,207.94	0.00	0.00	0.00	
7,100.00	0.00	0.00	6,907.57	-175.52	-1,195.12	1,207.94	0.00	0.00	0.00	
7,200.00	0.00	0.00	7,007.57	-175.52	-1,195.12	1,207.94	0.00	0.00	0.00	
7,300.00	0.00	0.00	7,107.57	-175.52	-1,195.12	1,207.94	0.00	0.00	0.00	
7,400.00	0.00	0.00	7,207.57	-175.52	-1,195.12	1,207.94	0.00	0.00	0.00	
7,500.00	0.00	0.00	7,307.57	-175.52	-1,195.12	1,207.94	0.00	0.00	0.00	
7,600.00	0.00	0.00	7,407.57	-175.52	-1,195.12	1,207.94	0.00	0.00	0.00	
7,700.00	0.00	0.00	7,507.57	-175.52	-1,195.12	1,207.94	0.00	0.00	0.00	
7,800.00	0.00	0.00	7,607.57	-175.52	-1,195.12	1,207.94	0.00	0.00	0.00	
7,900.00	0.00	0.00	7,707.57	-175.52	-1,195.12	1,207.94	0.00	0.00	0.00	
8,000.00	0.00	0.00	7,807.57	-175.52	-1,195.12	1,207.94	0.00	0.00	0.00	
8,100.00	0.00	0.00	7,907.57	-175.52	-1,195.12	1,207.94	0.00	0.00	0.00	
8,200.00	0.00	0.00	8,007.57	-175.52	-1,195.12	1,207.94	0.00	0.00	0.00	
8,300.00	0.00	0.00	8,107.57	-175.52	-1,195.12	1,207.94	0.00	0.00	0.00	
8,400.00	0.00	0.00	8,207.57	-175.52	-1,195.12	1,207.94	0.00	0.00	0.00	
8,500.00	0.00	0.00	8,307.57	-175.52	-1,195.12	1,207.94	0.00	0.00	0.00	
8,600.00	0.00	0.00	8,407.57	-175.52	-1,195.12	1,207.94	0.00	0.00	0.00	
8,622.43	0.00	0.00	8,430.00	-175.52	-1,195.12	1,207.94	0.00	0.00	0.00	
TD at 8622.43 - PBHL_NBU 1022-11K4BS										



SDI
Planning Report



Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 1022-11K4BS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 5078 & KB 14' @ 5092.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 5078 & KB 14' @ 5092.00ft (ASSUMED)
Site:	NBU 1022-11J PAD	North Reference:	True
Well:	NBU 1022-11K4BS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1 5-11-11		

Design Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(ft)	(ft)	(ft)	(usft)	(usft)		
- Shape									
PBHL_NBU 1022-11K4E - plan hits target center - Circle (radius 25.00)	0.00	0.00	8,430.00	-175.52	-1,195.12	14,515,892.84	2,086,264.54	39° 57' 40.324 N	109° 24' 32.234 W

Casing Points					
Measured Depth	Vertical Depth	Name	Casing Diameter	Hole Diameter	
(ft)	(ft)		(in)	(in)	
2,119.61	2,050.00	8 5/8"	8.625	11.000	

Plan Annotations				
Measured Depth	Vertical Depth	Local Coordinates		Comment
(ft)	(ft)	+N/-S (ft)	+E/-W (ft)	
300.00	300.00	0.00	0.00	Start Build 2.00
1,300.00	1,279.82	-25.10	-170.93	Start 2521.50 hold at 1300.00 MD
3,821.50	3,649.25	-150.42	-1,024.19	Start Drop -2.00
4,821.50	4,629.07	-175.52	-1,195.12	Start 3800.93 hold at 4821.50 MD
8,622.43	8,430.00	-175.52	-1,195.12	TD at 8622.43

NBU 1022-11J1BS			
Surface:	2000 FSL / 2129 FEL	NWSE	Lot
BHL:	2395 FSL / 1798 FEL	NWSE	Lot

NBU 1022-11J1CS			
Surface:	1990 FSL / 2130 FEL	NWSE	Lot
BHL:	2065 FSL / 1797 FEL	NWSE	Lot

NBU 1022-11K4BS			
Surface:	1980 FSL / 2131 FEL	NWSE	Lot
BHL:	1804 FSL / 1963 FWL	NESW	Lot

Pad: 1022-11J PAD
Section 11 T10S R22E
Mineral Lease: UO1197A-ST

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

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

Typically, roads, gathering lines and electrical distribution lines will occupy common disturbance corridors and roadways will be used as working space. All disturbances located in the same corridor will overlap each other to the maximum extent possible; in no case will the maximum disturbance width of the access road and utility corridors exceed 50', unless otherwise approved.

B. Planned Access Roads:

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 1022-11J. The NBU 1022-11J well location is a vertical producing well according to Utah Division of Oil, Gas and Mining (UDOGM) records as of August 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.

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 $\pm 2,020'$ and the individual segments are broken up as follows:

- $\pm 205'$ (0.04 miles) –New 6" buried gas pipeline from the meter to the tie-in at the proposed NBU 1022-11G4 Intersection. Please refer to Topo D2 - Pad and Pipeline Detail.
- $\pm 1,815'$ (0.34 miles) –New 8" buried gas pipeline from the tie-in at the proposed NBU 1022-11G4 Intersection SW to the tie-in at the existing 8" gas pipeline. Please refer to Topo D2 - Pad and Pipeline Detail.

The total liquid gathering pipeline distance from the separator to the tie in point is $\pm 2,020'$ and the individual segments are broken up as follows:

- $\pm 205'$ (0.04 miles) –New 6" (max) buried liquid pipeline from the separator to the tie-in at the proposed NBU 1022-11G4 Intersection. Please refer to Topo D2 - Pad and Pipeline Detail.
- $\pm 1,815'$ (0.34 miles) –New 6" (max) buried liquid pipeline from the tie-in at the proposed NBU 1022-11G4 Intersection SW to the tie-in at the existing 6" liquid pipeline. Please refer to Topo D2 - Pad and Pipeline Detail.

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 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 for Handling Waste Materials:

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

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

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

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

The reserve and/or fracture stimulation pit will be lined with a synthetic material 20 mil or thicker, The liner will be installed over smooth fill subgrade that is free of pockets, loose rocks, or other materials (i.e. sand, sifted dirt, bentonite, straw, etc.) that could damage the liner. Any additional pits necessary 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 is not limited to the re-contouring or re-configuration of topographic surfaces, restoration of drainage systems, segregation of spoils materials, minimizing surface disturbance, re-evaluating backfill requirements, pit closure, topsoil redistribution, soil treatments, seeding and weed control.

Interim Reclamation

Interim reclamation includes pit closure, re-contouring (where possible), soil bed preparation, topsoil placement, seeding, and/or weed control.

Interim re-contouring involves bringing all construction material from cuts and fills back onto the well pad and site and reestablishing the natural contours where desirable and practical. Fill and stockpiled spoils no longer necessary to the operation will be spread on the cut slopes and covered with stockpiled topsoil. All stockpiled top soils will be used for interim reclamation where practical to maintain soil viability. Where possible, the land surface will be left "rough" after re-contouring to ensure that the maximum surface area will be available to support the reestablishment of vegetative cover.

A reserve pit, upon being allowed to dry, will be backfilled and compacted with cover materials that are void of any topsoil, vegetation, large stones, rocks or foreign objects. Soils that are moisture laden, saturated, or partially/completely frozen will not be used for backfill or cover. The pit area will be mounded to allow for settling and to promote positive surface drainage away from the pit.

Final Reclamation

Final reclamation will be performed for newly drilled unproductive wells and/or at the end of the life of a productive well. As soon as practical after the conclusion of drilling and testing operations, unproductive drill holes will be plugged and abandoned (P&A). Site and road reclamation will commence following plugging. In no case will reclamation at non-producing locations be initiated later than six (6) months from the date a well is plugged. A joint inspection of the disturbed area to be reclaimed may be requested by KMG. The primary purpose of this inspection will be to review the existing conditions, or agree upon a revised final reclamation and abandonment plan. A Notice of Intent to Abandon will be filed for final recommendations regarding surface reclamation.

After plugging, all wellhead equipment that is no longer needed will be removed, and the well site will be reclaimed. Final contouring will blend with and follow as closely as practical the natural terrain and contours of the original site and surrounding areas. After re-contouring, final grading will be conducted over the entire surface of the well site and access road. Where practical, the area will be ripped to a depth of 18 to 24 inches on 18 to 24-inch centers and surface materials will be pitted with small depressions to form longitudinal depressions 12 to 18 inches deep perpendicular to the natural flow of water.

All unnecessary surface equipment and structures (e.g. cattle guards) and water control structures (e.g. culverts, drainage pipes) not needed to facilitate successful reclamation will be removed during final reclamation. Roads that will be reclaimed will be ripped to a depth of 18 inches where practical, re-contoured to approximate the original contour of the ground and seeded.

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

Seeding and Measures Common to Interim and Final Reclamation

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

On slopes where severe erosion can become a problem and the use of machinery is not practical, seed will be hand broadcast and raked with twice the specified amount of seed. The slope will be stabilized using materials specifically designed to prevent erosion on steep slopes and hold seed in place so vegetation can become permanently established. These materials will include, but are not limited to, erosion control blankets and bonded fiber matrix at a rate to achieve a minimum of 80 percent soil coverage.

Seeding will occur year-round as conditions allow. Seed mixes appropriate to the native plant community as determined and specified for each project location based on the site specific soils will be used for re-vegetation. The site specific seed mix will be provided by SITLA.

J. Surface/Mineral Ownership:

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

L. Other Information:

None

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

Andy Lytle
Regulatory Analyst I
Kerr-McGee Oil & Gas Onshore LP
PO Box 173779
Denver, CO 80217-3779
(720) 929-6100

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.



Andy Lytle

August 5, 2011

Date



JOSEPH D. JOHNSON
LANDMAN

Joseph D. Johnson
1099 18TH STREET STE. 1800 • DENVER, CO 80202
720-929-6708 • FAX 720-929-7708
E-MAIL: JOE.JOHNSON@ANADARKO.COM

August 5, 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 1022-11K4BS
T10S-R22E
Section 11: NWSE
Surface: 1980' FSL, 2131' FEL
T10S-R22E
Section 11: NESW
Bottom Hole: 1804' FSL, 1963' FWL
Uintah County, Utah

Dear Ms. Mason:

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

- Kerr-McGee's NBU 1022-11K4BS 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)

August 19, 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 1022-11F PAD

43-047-51797	NBU 1022-11C2CS	Sec 11 T10S R22E 1860 FNL 1499 FWL
	BHL	Sec 11 T10S R22E 0370 FNL 1365 FWL

43-047-51799	NBU 1022-11C3DS	Sec 11 T10S R22E 1852 FNL 1505 FWL
	BHL	Sec 11 T10S R22E 1268 FNL 1726 FWL

43-047-51800	NBU 1022-11D1CS	Sec 11 T10S R22E 1868 FNL 1493 FWL
	BHL	Sec 11 T10S R22E 0576 FNL 0818 FWL

43-047-51801	NBU 1022-11F2DS	Sec 11 T10S R22E 1844 FNL 1512 FWL
	BHL	Sec 11 T10S R22E 1622 FNL 1625 FWL

NBU 1022-11G2 PAD

43-047-51802	NBU 1022-11B4CS	Sec 11 T10S R22E 1627 FNL 2594 FEL
	BHL	Sec 11 T10S R22E 1238 FNL 1803 FEL

43-047-51813	NBU 1022-11B4BS	Sec 11 T10S R22E 1633 FNL 2601 FEL
	BHL	Sec 11 T10S R22E 0908 FNL 1804 FEL

43-047-51815	NBU 1022-11B1CS	Sec 11 T10S R22E 1639 FNL 2609 FEL
	BHL	Sec 11 T10S R22E 0577 FNL 1805 FEL

43-047-51817	NBU 1022-C4AS	Sec 11 T10S R22E 1645 FNL 2617 FEL
	BHL	Sec 11 T10S R22E 0825 FNL 2462 FWL

43-047-51818	NBU 1022-11C4CS	Sec 11 T10S R22E 1651 FNL 2625 FEL
	BHL	Sec 11 T10S R22E 1071 FNL 2131 FWL

RECEIVED: August 22, 2011

API #	WELL NAME	LOCATION						
(Proposed PZ WASATCH-MESA VERDE)								
43-047-51855	NBU 1022-11F4AS	Sec 11	T10S	R22E	1657	FNL	2633	FEL
	BHL	Sec 11	T10S	R22E	2138	FNL	2288	FWL
NBU 1022-2A PAD								
43-047-51803	NBU 1022-2G1CS	Sec 02	T10S	R22E	0165	FNL	0760	FEL
	BHL	Sec 02	T10S	R22E	1905	FNL	1814	FEL
43-047-51807	NBU 1022-2G1BS	Sec 02	T10S	R22E	0164	FNL	0770	FEL
	BHL	Sec 02	T10S	R22E	1573	FNL	1815	FEL
43-047-51808	NBU 1022-2H1BS	Sec 02	T10S	R22E	0167	FNL	0730	FEL
	BHL	Sec 02	T10S	R22E	1410	FNL	0494	FEL
43-047-51812	NBU 1022-2H1CS	Sec 02	T10S	R22E	0166	FNL	0740	FEL
	BHL	Sec 02	T10S	R22E	1743	FNL	0494	FEL
43-047-51825	NBU 1022-2H4BS	Sec 02	T10S	R22E	0165	FNL	0750	FEL
	BHL	Sec 02	T10S	R22E	2074	FNL	0493	FEL
NBU 1022-11G4 PAD								
43-047-51805	NBU 1022-11A4CS	Sec 11	T10S	R22E	2411	FNL	1535	FEL
	BHL	Sec 11	T10S	R22E	1075	FNL	0490	FEL
43-047-51814	NBU 1022-11H1BS	Sec 11	T10S	R22E	2405	FNL	1526	FEL
	BHL	Sec 11	T10S	R22E	1406	FNL	0490	FEL
43-047-51822	NBU 1022-11G4CS	Sec 11	T10S	R22E	2435	FNL	1566	FEL
	BHL	Sec 11	T10S	R22E	2559	FNL	1799	FEL
43-047-51823	NBU 1022-11G1BS	Sec 11	T10S	R22E	2423	FNL	1550	FEL
	BHL	Sec 11	T10S	R22E	1568	FNL	1802	FEL
43-047-51837	NBU 1022-11G1CS	Sec 11	T10S	R22E	2417	FNL	1542	FEL
	BHL	Sec 11	T10S	R22E	1954	FNL	1646	FEL
43-047-51853	NBU 1022-11G4BS	Sec 11	T10S	R22E	2429	FNL	1558	FEL
	BHL	Sec 11	T10S	R22E	2229	FNL	1800	FEL
NBU 1022-2I PAD								
43-047-51809	NBU 1022-2I4CS	Sec 02	T10S	R22E	1886	FSL	0949	FEL
	BHL	Sec 02	T10S	R22E	1576	FSL	0492	FEL
43-047-51810	NBU 1022-2P1BS	Sec 02	T10S	R22E	1881	FSL	0957	FEL
	BHL	Sec 02	T10S	R22E	1245	FSL	0492	FEL
43-047-51824	NBU 1022-2I1CS	Sec 02	T10S	R22E	1895	FSL	0931	FEL
	BHL	Sec 02	T10S	R22E	2240	FSL	0493	FEL
43-047-51829	NBU 1022-2I4BS	Sec 02	T10S	R22E	1890	FSL	0940	FEL
	BHL	Sec 02	T10S	R22E	1909	FSL	0492	FEL
43-047-51838	NBU 1022-2P4BS	Sec 02	T10S	R22E	1872	FSL	0975	FEL
	BHL	Sec 02	T10S	R22E	0581	FSL	0492	FEL
43-047-51852	NBU 1022-2P1CS	Sec 02	T10S	R22E	1877	FSL	0966	FEL
	BHL	Sec 02	T10S	R22E	0913	FSL	0492	FEL
NBU 1022-2B PAD								
43-047-51811	NBU 1022-2B1CS	Sec 02	T10S	R22E	0544	FNL	1813	FEL
	BHL	Sec 02	T10S	R22E	0579	FNL	1818	FEL

API #	WELL NAME	LOCATION						
(Proposed PZ WASATCH-MESA VERDE)								
43-047-51827	NBU 1022-2B4CS	Sec 02	T10S	R22E	0543	FNL	1793	FEL
		BHL Sec 02	T10S	R22E	1242	FNL	1816	FEL
43-047-51828	NBU 1022-2B4BS	Sec 02	T10S	R22E	0543	FNL	1803	FEL
		BHL Sec 02	T10S	R22E	0910	FNL	1817	FEL
43-047-51830	NBU 1022-2C1BS	Sec 02	T10S	R22E	0544	FNL	1823	FEL
		BHL Sec 02	T10S	R22E	0090	FNL	2158	FWL
NBU 1022-11J PAD								
43-047-51816	NBU 1022-11K4BS	Sec 11	T10S	R22E	1980	FSL	2131	FEL
		BHL Sec 11	T10S	R22E	1804	FSL	1963	FWL
43-047-51843	NBU 1022-11J1CS	Sec 11	T10S	R22E	1990	FSL	2130	FEL
		BHL Sec 11	T10S	R22E	2065	FSL	1797	FEL
43-047-51851	NBU 1022-11J1BS	Sec 11	T10S	R22E	2000	FSL	2129	FEL
		BHL Sec 11	T10S	R22E	2395	FSL	1798	FEL
NBU 1022-2J PAD								
43-047-51819	NBU 1022-2G4CS	Sec 02	T10S	R22E	2375	FSL	1639	FEL
		BHL Sec 02	T10S	R22E	2568	FNL	1813	FEL
43-047-51820	NBU 1022-2H4CS	Sec 02	T10S	R22E	2351	FSL	1584	FEL
		BHL Sec 02	T10S	R22E	2406	FNL	0493	FEL
43-047-51844	NBU 1022-2J4BS	Sec 02	T10S	R22E	2367	FSL	1621	FEL
		BHL Sec 02	T10S	R22E	1741	FSL	1811	FEL
43-047-51845	NBU 1022-2O1CS	Sec 02	T10S	R22E	2343	FSL	1566	FEL
		BHL Sec 02	T10S	R22E	0747	FSL	1808	FEL
43-047-51847	NBU 1022-2I1BS	Sec 02	T10S	R22E	2347	FSL	1575	FEL
		BHL Sec 02	T10S	R22E	2572	FSL	0493	FEL
43-047-51854	NBU 1022-2G4BS	Sec 02	T10S	R22E	2359	FSL	1602	FEL
		BHL Sec 02	T10S	R22E	2237	FNL	1814	FEL
NBU 1022-O1 PAD								
43-047-51821	NBU 1022-11O1CS	Sec 11	T10S	R22E	0944	FSL	1360	FEL
		BHL Sec 11	T10S	R22E	0744	FSL	1793	FEL
43-047-51831	NBU 1022-11O4CS	Sec 11	T10S	R22E	0925	FSL	1366	FEL
		BHL Sec 11	T10S	R22E	0079	FSL	1824	FEL
43-047-51832	NBU 1022-11P1BS	Sec 11	T10S	R22E	0973	FSL	1351	FEL
		BHL Sec 11	T10S	R22E	1068	FSL	0474	FEL
43-047-51833	NBU 1022-11P4BS	Sec 11	T10S	R22E	0954	FSL	1357	FEL
		BHL Sec 11	T10S	R22E	0456	FSL	0504	FEL
43-047-51836	NBU 1022-12M1BS	Sec 11	T10S	R22E	0963	FSL	1354	FEL
		BHL Sec 12	T10S	R22E	1077	FSL	0824	FWL
43-047-51856	NBU 1022-11O4BS	Sec 11	T10S	R22E	0935	FSL	1363	FEL
		BHL Sec 11	T10S	R22E	0413	FSL	1792	FEL

API #	WELL NAME	LOCATION						
(Proposed PZ WASATCH-MESA VERDE)								
NBU 1022-11I1 PAD								
43-047-51834	NBU 1022-11I1CS	Sec 11	T10S	R22E	2545	FSL	0532	FEL
	BHL	Sec 11	T10S	R22E	2112	FSL	0481	FEL
43-047-51835	NBU 1022-12L1CS	Sec 11	T10S	R22E	2554	FSL	0528	FEL
	BHL	Sec 12	T10S	R22E	2070	0FSL	823	FWL
43-047-51857	NBU 1022-11H4BS	Sec 11	T10S	R22E	2582	FSL	0518	FEL
	BHL	Sec 11	T10S	R22E	2067	FNL	0489	FEL
43-047-51858	NBU 1022-11H4CS	Sec 11	T10S	R22E	2592	FSL	0514	FEL
	BHL	Sec 11	T10S	R22E	2398	FNL	0489	FEL
43-047-51861	NBU 1022-12L1BS	Sec 11	T10S	R22E	2564	FSL	0525	FEL
	BHL	Sec 12	T10S	R22E	2401	FSL	0822	FWL
43-047-51863	NBU 1022-11H1CS	Sec 11	T10S	R22E	2573	FSL	0521	FEL
	BHL	Sec 11	T10S	R22E	1737	FNL	0490	FEL
NBU 1022-2P PAD								
43-047-51839	NBU 1022-2P4CS	Sec 02	T10S	R22E	0221	FSL	1342	FEL
	BHL	Sec 02	T10S	R22E	0255	FSL	0496	FEL
43-047-51841	NBU 1022-11B1BS	Sec 02	T10S	R22E	0221	FSL	1382	FEL
	BHL	Sec 11	T10S	R22E	0280	FNL	1755	FEL
43-047-51842	NBU 1022-11A1BS	Sec 02	T10S	R22E	0221	FSL	1352	FEL
	BHL	Sec 11	T10S	R22E	0080	FNL	0473	FEL
43-047-51846	NBU 1022-2O4CS	Sec 02	T10S	R22E	0220	FSL	1402	FEL
	BHL	Sec 02	T10S	R22E	0095	FSL	1804	FEL
43-047-51848	NBU 1022-11A4BS	Sec 02	T10S	R22E	0221	FSL	1372	FEL
	BHL	Sec 11	T10S	R22E	0744	FNL	0490	FEL
43-047-51849	NBU 1022-2O4BS	Sec 02	T10S	R22E	0221	FSL	1392	FEL
	BHL	Sec 02	T10S	R22E	0415	FSL	1807	FEL
43-047-51850	NBU 1022-11A1CS	Sec 02	T10S	R22E	0221	FSL	1362	FEL
	BHL	Sec 11	T10S	R22E	0413	FNL	0491	FEL
NBU 1022-14A PAD								
43-047-51840	NBU 1022-11P4CS	Sec 14	T10S	R22E	0379	FNL	1228	FEL
	BHL	Sec 11	T10S	R22E	0088	FSL	0466	FEL
43-047-51860	NBU 1022-12M1CS	Sec 14	T10S	R22E	0385	FNL	1236	FEL
	BHL	Sec 12	T10S	R22E	0746	FSL	0825	FWL
43-047-51868	NBU 1022-12M4BS	Sec 14	T10S	R22E	0391	FNL	1244	FEL
	BHL	Sec 12	T10S	R22E	0415	FSL	0825	FWL
43-047-51870	NBU 1022-12M4CS	Sec 14	T10S	R22E	0397	FNL	1252	FEL
	BHL	Sec 12	T10S	R22E	0086	FSL	0819	FWL
NBU 1022-11O2 PAD								
43-047-51859	NBU 1022-11K4CS	Sec 11	T10S	R22E	1103	FSL	2372	FEL
	BHL	Sec 11	T10S	R22E	1442	FSL	2113	FWL

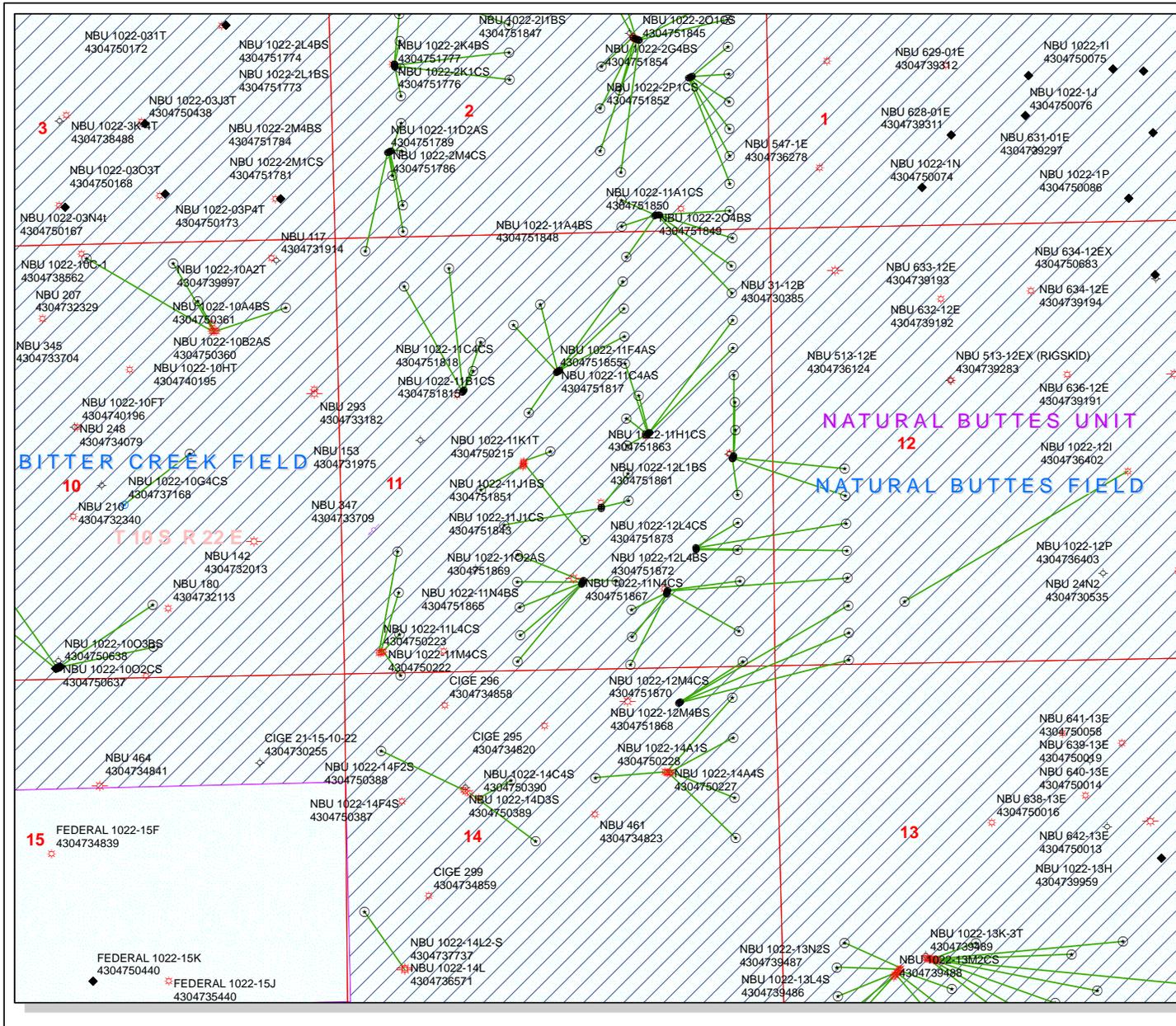
API #	WELL NAME	LOCATION						
(Proposed PZ WASATCH-MESA VERDE)								
43-047-51862	NBU 1022-11N1BS	Sec 11	T10S	R22E	1094	FSL	2377	FEL
		BHL	Sec 11	T10S	R22E	1111	FSL	2105
43-047-51864	NBU 1022-11N1CS	Sec 11	T10S	R22E	1085	FSL	2382	FEL
		BHL	Sec 11	T10S	R22E	0801	FSL	2127
43-047-51865	NBU 1022-11N4BS	Sec 11	T10S	R22E	1077	FSL	2387	FEL
		BHL	Sec 11	T10S	R22E	0462	FSL	2127
43-047-51867	NBU 1022-11N4CS	Sec 11	T10S	R22E	1068	FSL	2392	FEL
		BHL	Sec 11	T10S	R22E	0146	FSL	2084
43-047-51869	NBU 1022-11O2AS	Sec 11	T10S	R22E	1111	FSL	2367	FEL
		BHL	Sec 11	T10S	R22E	1102	FSL	1964
NBU 1022-11I3 PAD								
43-047-51866	NBU 1022-11I4BS	Sec 11	T10S	R22E	1489	FSL	0996	FEL
		BHL	Sec 11	T10S	R22E	1774	FSL	0485
43-047-51871	NBU 1022-11I4CS	Sec 11	T10S	R22E	1459	FSL	0997	FEL
		BHL	Sec 11	T10S	R22E	1443	FSL	0497
43-047-51872	NBU 1022-12L4BS	Sec 11	T10S	R22E	1479	FSL	0996	FEL
		BHL	Sec 12	T10S	R22E	1739	FSL	0823
43-047-51873	NBU 1022-12L4CS	Sec 11	T10S	R22E	1469	FSL	0996	FEL
		BHL	Sec 12	T10S	R22E	1408	FSL	0824

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: 2011.08.19 08:43:17 -06'00'

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

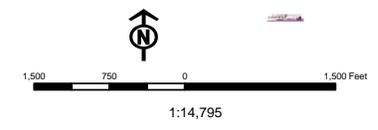
MCoulthard:mc:8-19-11



API Number: 4304751816
Well Name: NBU 1022-11K4BS
 Township T1.0 Range R2.2 Section 11
 Meridian: SLBM
 Operator: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Map Prepared:
 Map Produced by Diana Mason

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



From: Jim Davis
To: Hill, Brad; Mason, Diana
CC: Bonner, Ed; Garrison, LaVonne; Lytle, Andy
Date: 9/26/2011 5:08 PM
Subject: Anadarko APD approvals 10S 22E Sec 2, 11 and 14
Attachments: Anadarko Approvals from SITLA 9.26.11.xls

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

4304751840 NBU 1022-11P4CS
4304751860 NBU 1022-12M1CS
4304751868 NBU 1022-12M4BS
4304751870 NBU 1022-12M4CS
4304751803 NBU 1022-2G1CS
4304751807 NBU 1022-2G1BS
4304751808 NBU 1022-2H1BS
4304751812 NBU 1022-2H1CS
4304751825 NBU 1022-2H4BS
4304751811 NBU 1022-2B1CS
4304751827 NBU 1022-2B4CS
4304751828 NBU 1022-2B4BS
4304751830 NBU 1022-2C1BS
4304751809 NBU 1022-2I4CS
4304751810 NBU 1022-2P1BS
4304751824 NBU 1022-2I1CS
4304751829 NBU 1022-2I4BS
4304751838 NBU 1022-2P4BS
4304751852 NBU 1022-2P1CS
4304751839 NBU 1022-2P4CS
4304751841 NBU 1022-11B1BS
4304751842 NBU 1022-11A1BS
4304751846 NBU 1022-2O4CS
4304751848 NBU 1022-11A4BS
4304751849 NBU 1022-2O4BS
4304751850 NBU 1022-11A1CS

These APDS are approved including arch clearance but will require **spot paleo monitoring** as recommended in the applicable paleo reports:

4304751758 NBU 1022-2C1CS
4304751767 NBU 1022-2C4BS
4304751768 NBU 1022-2C4CS
4304751779 NBU 1022-2D1BS
4304751780 NBU 1022-2D4BS
4304751782 NBU 1022-2E1BS
4304751783 NBU 1022-2F1BS
4304751760 NBU 1022-2E4BS
4304751761 NBU 1022-2F1CS
4304751764 NBU 1022-2F4BS
4304751765 NBU 1022-2F4CS
4304751766 NBU 1022-2K1BS
4304751785 NBU 1022-2E1CS
4304751775 NBU 1022-2L4CS
4304751778 NBU 1022-2M1BS
4304751781 NBU 1022-2M1CS
4304751784 NBU 1022-2M4BS
4304751786 NBU 1022-2M4CS
4304751789 NBU 1022-11D2AS

4304751802 NBU 1022-11B4CS
4304751813 NBU 1022-11B4BS
4304751815 NBU 1022-11B1CS
4304751817 NBU 1022-11C4AS
4304751818 NBU 1022-11C4CS
4304751855 NBU 1022-11F4AS
4304751805 NBU 1022-11A4CS
4304751814 NBU 1022-11H1BS
4304751822 NBU 1022-11G4CS
4304751823 NBU 1022-11G1BS
4304751837 NBU 1022-11G1CS
4304751853 NBU 1022-11G4BS
4304751834 NBU 1022-11I1CS
4304751835 NBU 1022-12L1CS
4304751857 NBU 1022-11H4BS
4304751858 NBU 1022-11H4CS
4304751861 NBU 1022-12L1BS
4304751863 NBU 1022-11H1CS
4304751866 NBU 1022-11I4BS
4304751871 NBU 1022-11I4CS
4304751872 NBU 1022-12L4BS
4304751873 NBU 1022-12L4CS
4304751816 NBU 1022-11K4BS
4304751843 NBU 1022-11J1CS
4304751851 NBU 1022-11J1BS
4304751859 NBU 1022-11K4CS
4304751862 NBU 1022-11N1BS
4304751864 NBU 1022-11N1CS
4304751865 NBU 1022-11N4BS
4304751867 NBU 1022-11N4CS
4304751869 NBU 1022-11O2AS

These APDS are approved including arch clearance but will require **full paleo monitoring** as recommended in the applicable paleo reports:

4304751771 NBU 1022-2E4CS
4304751772 NBU 1022-2L1CS
4304751773 NBU 1022-2L1BS
4304751774 NBU 1022-2L4BS
4304751776 NBU 1022-2K1CS
4304751777 NBU 1022-2K4BS
4304751819 NBU 1022-2G4CS
4304751820 NBU 1022-2H4CS
4304751844 NBU 1022-2J4BS
4304751845 NBU 1022-2O1CS
4304751847 NBU 1022-2I1BS
4304751854 NBU 1022-2G4BS
4304751797 NBU 1022-11C2CS
4304751799 NBU 1022-11C3DS
4304751800 NBU 1022-11D1CS
4304751801 NBU 1022-11F2DS
4304751821 NBU 1022-11O1CS
4304751831 NBU 1022-11O4CS
4304751832 NBU 1022-11P1BS
4304751833 NBU 1022-11P4BS
4304751836 NBU 1022-12M1BS
4304751856 NBU 1022-11O4BS

That's a big enough list that I'm including a simple spreadsheet that has this same information, but organized in such a way as may be more useful to some of you.

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 1022-11K4B			
String	Surf	Prod		
Casing Size(")	8.625	4.500		
Setting Depth (TVD)	1985	8430		
Previous Shoe Setting Depth (TVD)	40	1985		
Max Mud Weight (ppg)	8.3	12.5		
BOPE Proposed (psi)	500	5000		
Casing Internal Yield (psi)	3390	7780		
Operators Max Anticipated Pressure (psi)	5395	12.3		

Calculations	Surf String	8.625	"
Max BHP (psi)	.052*Setting Depth*MW=	857	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	619	NO <input type="text" value="air drill"/>
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	420	YES <input type="text" value="OK"/>
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	429	NO <input type="text" value="Reasonable depth in area"/>
Required Casing/BOPE Test Pressure=		1985	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=	5479	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	4467	YES <input type="text"/>
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	3624	YES <input type="text" value="OK"/>
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	4061	NO <input type="text" value="Reasonable"/>
Required Casing/BOPE Test Pressure=		5000	psi
*Max Pressure Allowed @ Previous Casing Shoe=		1985	psi *Assumes 1psi/ft frac gradient

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

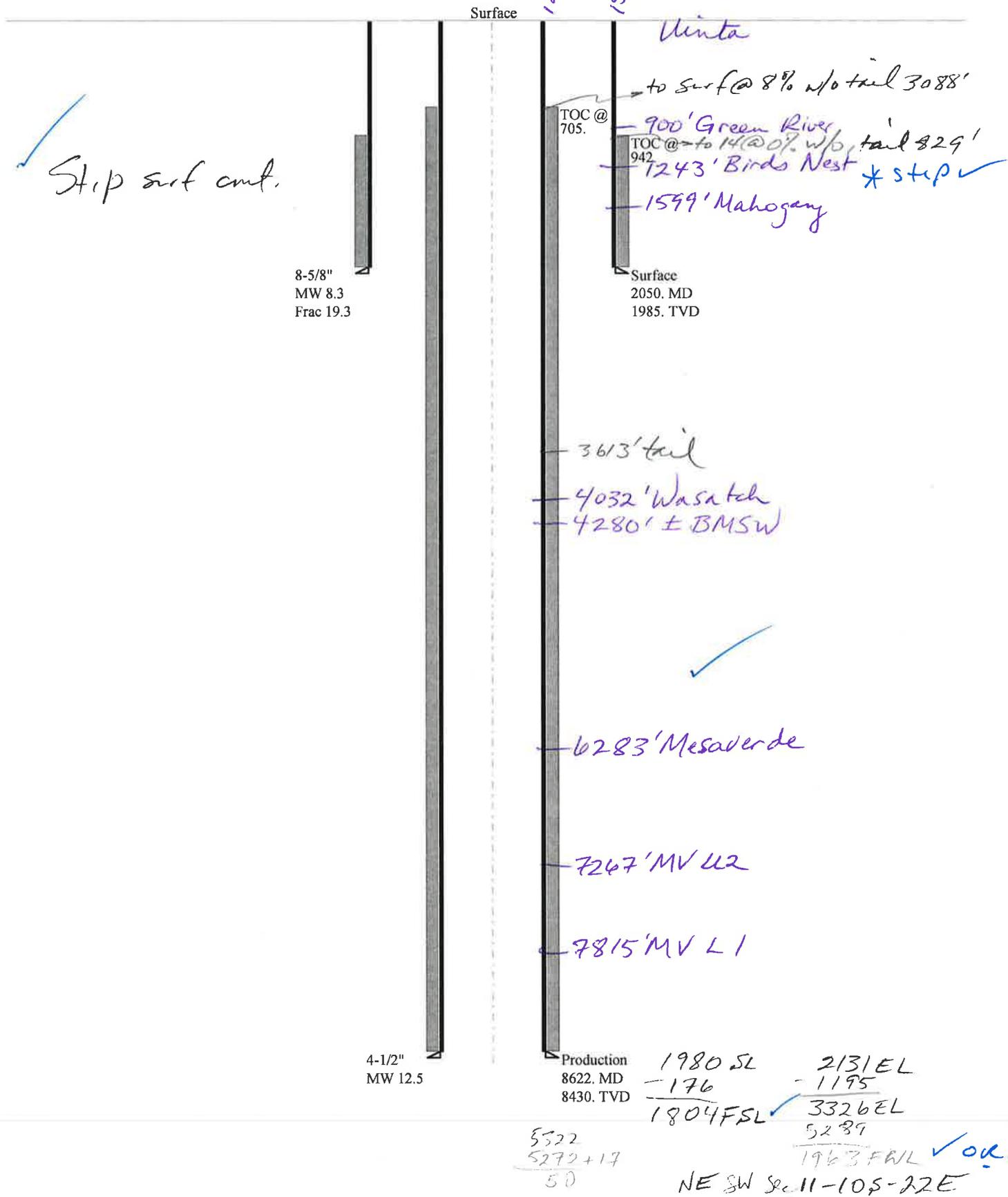
Calculations	String		"
Max BHP (psi)	.052*Setting Depth*MW=		
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=		NO <input type="text"/>
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=		NO <input type="text"/>
			*Can Full Expected Pressure Be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

API Well Number: 43047518160000

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

43047518160000 NBU 1022-11K4BS

Casing Schematic



Well name:	43047518160000 NBU 1022-11K4BS		
Operator:	KERR-MCGEE OIL & GAS ONSHORE, L.P.		
String type:	Surface	Project ID:	43-047-51816
Location:	UINTAH COUNTY		

Design parameters:

Collapse

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

Burst

Max anticipated surface pressure: 1,804 psi
 Internal gradient: 0.120 psi/ft
 Calculated BHP: 2,042 psi

 No backup mud specified.

Minimum design factors:

Collapse:

Design factor 1.125

Burst:

Design factor 1.00

Tension:

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

Tension is based on air weight.
 Neutral point: 1,791 ft

Environment:

H2S considered? No
 Surface temperature: 74 °F
 Bottom hole temperature: 102 °F
 Temperature gradient: 1.40 °F/100ft
 Minimum section length: 100 ft

 Cement top: 942 ft

Directional Info - Build & Drop

Kick-off point: 300 ft
 Departure at shoe: 429 ft
 Maximum dogleg: 2 °/100ft
 Inclination at shoe: 20 °

Re subsequent strings:

Next setting depth: 8,430 ft
 Next mud weight: 12.500 ppg
 Next setting BHP: 5,474 psi
 Fracture mud wt: 19.250 ppg
 Fracture depth: 2,050 ft
 Injection pressure: 2,050 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	2050	8.625	28.00	I-55	LT&C	1985	2050	7.892	81180
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	859	1880	2.189	2042	3390	1.66	55.6	348	6.26 J

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

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

Date: August 29, 2011
 Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 1985 ft, a mud weight of 8.33 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

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

Well name:	43047518160000 NBU 1022-11K4BS	
Operator:	KERR-MCGEE OIL & GAS ONSHORE, L.P.	
String type:	Production	Project ID: 43-047-51816
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: 192 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 100 ft
Cement top: 705 ft

Burst

Max anticipated surface pressure: 3,619 psi
Internal gradient: 0.220 psi/ft
Calculated BHP 5,474 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: 7,047 ft

Directional Info - Build & Drop

Kick-off point 300 ft
Departure at shoe: 1208 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	8622	4.5	11.60	I-80	LT&C	8430	8622	3.875	113810
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	5474	6360	1.162	5474	7780	1.42	97.8	212	2.17 J

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

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

Date: August 29, 2011
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 8430 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

ON-SITE PREDRILL EVALUATION

Utah Division of Oil, Gas and Mining

Operator KERR-MCGEE OIL & GAS ONSHORE, L.P.
Well Name NBU 1022-11K4BS
API Number 43047518160000 **APD No** 4387 **Field/Unit** NATURAL BUTTES
Location: 1/4,1/4 NWSE **Sec** 11 **Tw** 10.0S **Rng** 22.0E 1980 **FSL** 2131 **FEL**
GPS Coord (UTM) **Surface Owner**

Participants

Andy Lytle, Sheila Wopsock, Charles Chase, Grizz Oleen, Mark Kuehn, Doyle Holmes, (Kerr McGee). John Slaugh, Mitch Batty, (Timberline). Jim Davis (SITLA). David Hackford, (DOGM).

Regional/Local Setting & Topography

The general area is in the southeast portion of the Natural Buttes Unit on the northeast end of a major drainage divide called Archy Bench.. Within this area is the White River and rugged drainages that drain into it. 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 ¼ 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 41 air miles to the northwest. Access from Vernal is approximately 60.5 road miles following Utah State, Uintah County and oilfield development roads. Two wells, in addition to this one will be directionally drilled from this pad. (For a total of three new wells). There is one existing well on this pad. (The NBU 1022-11J). At this time, the decision rather to PA or TA this well has not been made. This proposed location takes in an existing location, and very little new construction will be necessary except for digging the reserve pit. The existing access road will be adequate and will be used. The location runs in a northeast-southwest direction along the top of a flat topped ridge. This ridge breaks off sharply into rugged secondary canyons on the north, west and east sides. New construction will consist of approx. 50 feet on all sides of the existing pad, and an additional 50 feet on the east side for reserve pit and excess cut stockpile. No drainage concerns exist, and no diversions will be needed. The pad as modified should be stable and should be a suitable location for four wells, and is on the best site available in the immediate area.

Surface Use Plan

Current Surface Use

Grazing
Existing Well Pad

New Road Miles	Well Pad	Src Const Material	Surface Formation
0	Width 307 Length 410	Onsite	UNTA

Ancillary Facilities N

Waste Management Plan Adequate? Y

Environmental Parameters

Affected Floodplains and/or Wetlands N

Flora / Fauna

Prickly pear, wild onion, shadscale, mat saltbrush, Indian ricegrass, halogeton, pepper grass, annuals and curly Vegetation is a salt desert shrub type. Principal species present are cheatgrass, black sagebrush, stipa, mesquite grass.

Sheep, antelope, raptors and small mammals and birds.

Soil Type and Characteristics

Shallow rocky sandy loam.

Erosion Issues N

Sedimentation Issues N

Site Stability Issues N

Drainage Diverson Required? N

Berm Required? N

Erosion Sedimentation Control Required? N

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

Reserve Pit

Site-Specific Factors

Site Ranking

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

Characteristics / Requirements

The reserve pit is planned in an area of cut on the east side of the location. Dimensions are 90' x 245' x 12' deep with 2' of freeboard. Kerr McGee agreed to line the pit with a 30-mil liner and 2 layers of felt.

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

Other Observations / Comments

David Hackford
Evaluator

8/18/2011
Date / Time

Application for Permit to Drill Statement of Basis

10/19/2011

Utah Division of Oil, Gas and Mining

Page 1

APD No	API WellNo	Status	Well Type	Surf Owner	CBM
4387	43047518160000	SITLA	GW	S	No
Operator	KERR-MCGEE OIL & GAS ONSHORE, L.P.		Surface Owner-APD		
Well Name	NBU 1022-11K4BS	Unit		NATURAL BUTTES	
Field	NATURAL BUTTES	Type of Work		DRILL	
Location	NWSE 11 10S 22E S 1980 FSL 2131 FEL GPS Coord (UTM) 636194E 4424710N				

Geologic Statement of Basis

Kerr McGee proposes to set 2,050' 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 4,280'. A search of Division of Water Rights records shows no water wells within a 10,000 foot radius of the center of Section 11. The surface formation at this site is the Uinta Formation. The Uinta Formation is made up of interbedded shales and sandstones. The sandstones are mostly lenticular and discontinuous and should not be a significant source of useable ground water. Production casing cement should be brought up above the base of the moderately saline ground water to isolate it from fresher waters uphole.

Brad Hill
APD Evaluator

9/21/2011
Date / Time

Surface Statement of Basis

The general area is in the southeast portion of the Natural Buttes Unit on the northeast end of a major drainage divide called Archy Bench. Within this area is the White River and rugged drainages that drain into it. 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 ¼ 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 41 air miles to the northwest. Access from Vernal is approximately 60.5 road miles following Utah State, Uintah County and oilfield development roads. The existing access road will be adequate and will be used.

Three wells will be directionally drilled from this location. They are the NBU 1022-11J1BS, NBU 1022-11J1CS, NBU and the NBU 1022-11K4BS. The existing location has one existing well. This well is the NBU 1022-11J, and at this time the decision rather to PA or TA this well has not been made. The location is on a flat topped ridge that runs in a northeast-southwest direction. This ridge breaks off sharply into rugged secondary canyons on the north, west and east sides. No drainage concerns exist, and no diversions will be needed. The pad as modified should be stable and sufficient for four wells, and is the best site for a location in the immediate area.

Excess material will be stockpiled on the east and south sides of the location. Approx. 50' of additional construction will be necessary on all sides of the original location.

Both the surface and minerals are owned by SITLA. Jim Davis of SITLA and Ben Williams with DWR were invited by email to the pre-site evaluation. Jim Davis was present. Kerr McGee was told to consult with SITLA for reclamation standards including seeding mixes to be used.

David Hackford
Onsite Evaluator

8/18/2011
Date / Time

Conditions of Approval / Application for Permit to Drill

RECEIVED: October 19, 2011

Application for Permit to Drill Statement of Basis

10/19/2011

Utah Division of Oil, Gas and Mining

Page 2

Category	Condition
Pits	A synthetic liner with a minimum thickness of 30 mils with a felt subliner shall be properly installed and maintained in the reserve pit.
Pits	The reserve pit should be located on the east side of the location.

WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 8/10/2011**API NO. ASSIGNED:** 43047518160000**WELL NAME:** NBU 1022-11K4BS**OPERATOR:** KERR-MCGEE OIL & GAS ONSHORE, L.P. (N2995)**PHONE NUMBER:** 720 929-6100**CONTACT:** Andy Lytle**PROPOSED LOCATION:** NWSE 11 100S 220E**Permit Tech Review:** **SURFACE:** 1980 FSL 2131 FEL**Engineering Review:** **BOTTOM:** 1804 FSL 1963 FWL**Geology Review:** **COUNTY:** UINTAH**LATITUDE:** 39.96161**LONGITUDE:** -109.40471**UTM SURF EASTINGS:** 636194.00**NORTHINGS:** 4424710.00**FIELD NAME:** NATURAL BUTTES**LEASE TYPE:** 3 - State**LEASE NUMBER:** UO1197A-ST**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: 43-8496
- RDCC Review:
- Fee Surface Agreement
- Intent to Commingle

Commingle Approved**LOCATION AND SITING:**

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

Comments: Presite Completed

Stipulations:

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



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 1022-11K4BS
API Well Number: 43047518160000
Lease Number: UO1197A-ST
Surface Owner: STATE
Approval Date: 10/19/2011

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.

Surface casing shall be cemented to the surface.

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

Additional Approvals:

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

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

Notification Requirements:

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

- Within 24 hours following the spudding of the well – contact Carol Daniels
OR
submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website at <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

BLM - Vernal Field Office - Notification Form

Operator KERR-McGEE OIL & GAS Rig Name/# BUCKET RIG
Submitted By J. Scharnowske Phone Number 720.929.6304
Well Name/Number NBU 1022-11K4BS
Qtr/Qtr NWSE Section 11 Township 10S Range 22E
Lease Serial Number UO1197A-ST
API Number 4304751816

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

Date/Time 05/09/2012 11:00 HRS AM PM

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

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

RECEIVED
MAY 08 2012
DIV. OF OIL, GAS & MINING

Date/Time 05/28/2012 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 LOVELL YOUNG AT 435.781.7051

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UO1197A-ST
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: NBU 1022-11K4BS
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1980 FSL 2131 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSE Section: 11 Township: 10.0S Range: 22.0E Meridian: S		9. API NUMBER: 43047518160000
PHONE NUMBER: 720 929-6511		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"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> ALTER CASING	
<input checked="" type="checkbox"/> SPUD REPORT Date of Spud: 5/10/2012	<input type="checkbox"/> CASING REPAIR	
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
	<input type="checkbox"/> CHANGE TUBING	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input type="checkbox"/> CONVERT WELL TYPE	
	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> FRACTURE TREAT	
	<input type="checkbox"/> OPERATOR CHANGE	
	<input type="checkbox"/> NEW CONSTRUCTION	
	<input type="checkbox"/> PLUG AND ABANDON	
	<input type="checkbox"/> PLUG BACK	
	<input type="checkbox"/> PRODUCTION START OR RESUME	
	<input type="checkbox"/> RECLAMATION OF WELL SITE	
	<input type="checkbox"/> 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 style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. MIRU TRIPLE A BUCKET RIG. DRILLED 20" CONDUCTOR HOLE TO 40'. RAN 14" 36.7# SCHEDULE 10 CONDUCTOR PIPE. CEMENT WITH 28 SACKS READY MIX. SPUD WELL LOCATION ON MAY 10, 2012 AT 14:30 HRS.		
		Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY May 11, 2012
NAME (PLEASE PRINT) Jaime Scharnowske	PHONE NUMBER 720 929-6304	TITLE Regularatory Analyst
SIGNATURE N/A	DATE 5/11/2012	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
5. LEASE DESIGNATION AND SERIAL NUMBER: UO1197A-ST	
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 1022-11K4BS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047518160000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6511
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1980 FSL 2131 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSE Section: 11 Township: 10.0S Range: 22.0E Meridian: S	9. FIELD and POOL or WILDCAT: NATURAL BUTTES
	COUNTY: UINTAH
	STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 6/9/2012	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

MIRU AIR RIG ON 6/6/2012. DRILLED SURFACE HOLE TO 2250'. 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
 June 15, 2012**

NAME (PLEASE PRINT) Cara Mahler	PHONE NUMBER 720 929-6029	TITLE Regulatory Analyst I
SIGNATURE N/A	DATE 6/11/2012	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS	
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	
1. TYPE OF WELL Gas Well	5. LEASE DESIGNATION AND SERIAL NUMBER: UO1197A-ST
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
PHONE NUMBER: 720 929-6514	8. WELL NAME and NUMBER: NBU 1022-11K4BS
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1980 FSL 2131 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSE Section: 11 Township: 10.0S Range: 22.0E Meridian: S	9. API NUMBER: 43047518160000
	9. FIELD and POOL or WILDCAT: NATURAL BUTTES
	COUNTY: UINTAH
	STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 6/26/2012	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input checked="" type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
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	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

THE OPERATOR REQUESTS APPROVAL FOR A FIT WAIVER, A CLOSED LOOP DRILLING OPTION, AND A PRODUCTION CASING CHANGE. ALL OTHER ASPECTS OF THE PREVIOUSLY APPROVED DRILLING PLAN WILL NOT CHANGE. PLEASE SEE THE ATTACHMENT. THANK YOU.

Approved by the Utah Division of Oil, Gas and Mining
Date: July 12, 2012
By: *Derek Duff*

NAME (PLEASE PRINT) Cara Mahler	PHONE NUMBER 720 929-6029	TITLE Regulatory Analyst I
SIGNATURE N/A	DATE 6/28/2012	

Kerr-McGee Oil & Gas Onshore. L.P.**NBU 1022-11K4BS**

Surface: 1980 FSL / 2131 FEL NWSE
 BHL: 1804 FSL / 1963 FWL NESW

Section 11 T10S R22E

Uintah County, Utah
 Mineral Lease: UO1197A-ST

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	0,900'	
Birds Nest	1,243'	Water
Mahogany	1,599'	Water
Wasatch	4,032'	Gas
Mesaverde	6,283'	Gas
Sego	8,430'	Gas
TVD	8,430'	
TD	8,622'	

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 8430' TVD, approximately equals
5,142 psi 0.61 psi/ft = actual bottomhole gradient

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

Maximum anticipated surface pressure equals approximately 3,310 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.

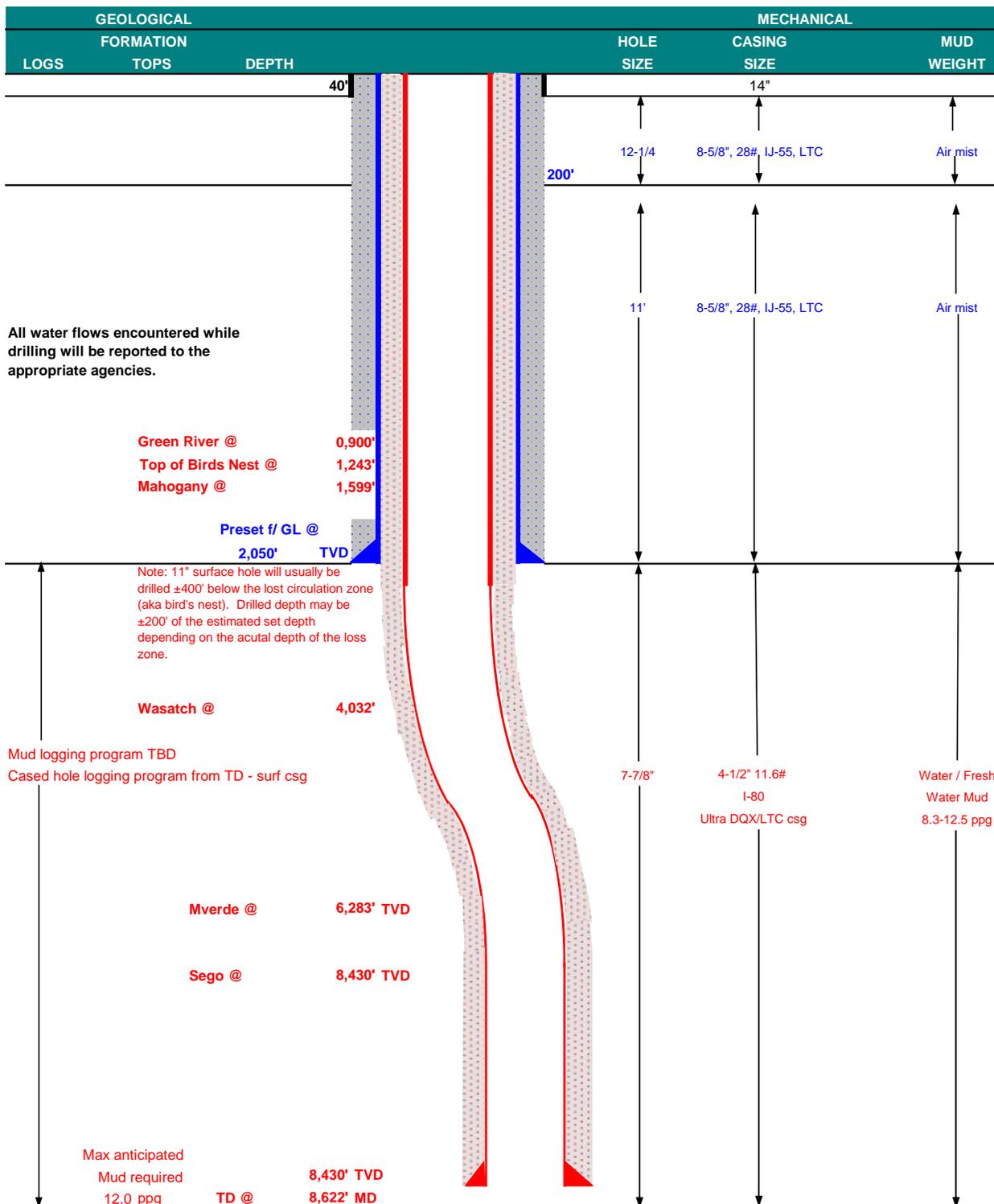
10. Other Information:

Please refer to the attached Drilling Program.



KERR-McGEE OIL & GAS ONSHORE LP DRILLING PROGRAM

COMPANY NAME	KERR-McGEE OIL & GAS ONSHORE LP			DATE	June 28, 2012		
WELL NAME	NBU 1022-11K4BS			TD	8,430' TVD	8,622' MD	
FIELD	Natural Buttes	COUNTY	Uintah	STATE	Utah	FINISHED ELEVATION	5077.8
SURFACE LOCATION	NWSE	1980 FSL	2131 FEL	Sec 11	T 10S	R 22E	
	Latitude:	39.961683	Longitude:	-109.40469		NAD 27	
BTM HOLE LOCATION	NESW	1804 FSL	1963 FWL	Sec 11	T 10S	R 22E	
	Latitude:	39.961201	Longitude:	-109.408954		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 2,050	28.00	I-J-55	LTC	2.64	1.96	6.92	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	1.21		3.27
						7,780	6,350	223,000	267,035
	4-1/2"	5,000 to 8,622'	11.60	I-80	LTC	1.11	1.21	6.50	

Surface casing:

(Burst Assumptions: TD = 12.0 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) 0.61 psi/ft = bottomhole gradient

(Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE Option 1	LEAD	500'	Premium cmt + 2% CaCl + 0.25 pps flocele	180	60%	15.80	1.15
	TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt + 2% CaCl + 0.25 pps flocele	270	0%	15.80	1.15
NOTE: If well will circulate water to surface, option 2 will be utilized							
SURFACE Option 2	LEAD	1,550'	65/35 Poz + 6% Gel + 10 pps gilsonite + 0.25 pps Flocele + 3% salt BWOW	140	35%	11.00	3.82
	TAIL	500'	Premium cmt + 2% CaCl + 0.25 pps flocele	150	35%	15.80	1.15
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.80	1.15
PRODUCTION	LEAD	3,532'	Premium Lite II +0.25 pps celloflake + 5 pps gilsonite + 10% gel + 0.5% extender	280	35%	12.00	3.38
	TAIL	5,090'	50/50 Poz/G + 10% salt + 2% gel + 0.1% R-3	1,200	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. 15 centralizers for a Mesaverde and 20 for a Blackhawk well. 1 centralizer on the first 3 joints and one every third joint thereafter.

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 / Travis Hansell

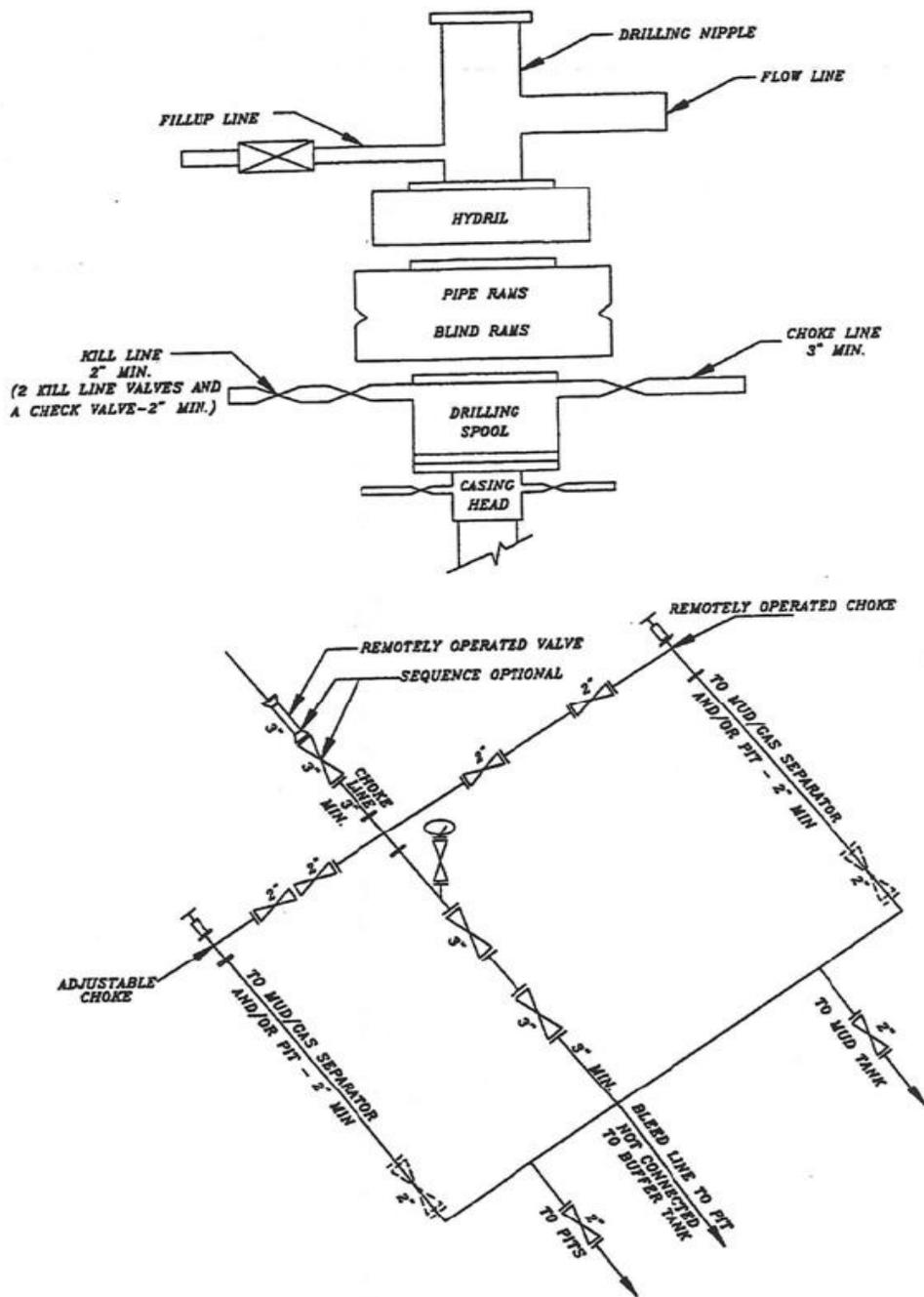
DATE:

DRILLING SUPERINTENDENT:

Kenny Gathings / Lovel Young

DATE:

EXHIBIT A NBU 1022-11K4BS



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.

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: UO1197A-ST
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 1022-11K4BS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047518160000
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
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1980 FSL 2131 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSE Section: 11 Township: 10.0S 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"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 8/3/2012	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
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12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.
 No activity for the month of July 2012. Surface casing set at 2,250'.

**Accepted by the
 Utah Division of
 Oil, Gas and Mining**
FOR RECORD ONLY
 August 06, 2012

NAME (PLEASE PRINT) Jaime Scharnowske	PHONE NUMBER 720 929-6304	TITLE Regularatory Analyst
SIGNATURE N/A	DATE 8/3/2012	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: UO1197A-ST
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
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2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047518160000
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<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 9/5/2012	<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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12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

No Activity for the month of August 2012. Well TD at 2,265

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

FOR RECORD ONLY

September 05, 2012

NAME (PLEASE PRINT) Lindsey Frazier	PHONE NUMBER 720 929-6857	TITLE Regulatory Analyst II
SIGNATURE N/A	DATE 9/5/2012	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: UO1197A-ST
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 1022-11K4BS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047518160000
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
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1980 FSL 2131 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSE Section: 11 Township: 10.0S 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"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 9/19/2012	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

FINISHED DRILLING TO 8,688' ON 09/18/2012. CEMENTED PRODUCTION CASING. RELEASED PIONEER 54 RIG ON 09/19/2012. DETAILS OF CASING AND CEMENT 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
 September 20, 2012**

NAME (PLEASE PRINT) Lindsey Frazier	PHONE NUMBER 720 929-6857	TITLE Regulatory Analyst II
SIGNATURE N/A	DATE 9/20/2012	

State of Utah - Notification Form

Operator Anadarko Petroleum Rig Name/# PIONEER 54
Submitted By STUART NEILSON Phone Number 435-790-2921
Well Name/Number NBU 1022-11K4BS
Qtr/Qtr NW/SE Section 11 Township 10S Range 22E
Lease Serial Number UO1197A-ST
API Number 4304751816

Casing – Time casing run starts, not cementing times.

- Production Casing
 Other

Date/Time _ _ AM PM

BOPE

- Initial BOPE test at surface casing point
 Other

Date/Time 9/14/12 6:00 AM PM

Rig Move

Location To:

Date/Time _ _ AM PM

Remarks _____

RECEIVED
SEP 18 2012
DIV. OF OIL, GAS & MINING

State of Utah - Notification Form

Operator Anadarko Petroleum Rig Name/# PIONEER 54
Submitted By STUART NEILSON Phone Number 435-790-2921
Well Name/Number NBU 1022-11K4BS
Qtr/Qtr NW/SE Section 11 Township 10S Range 22E
Lease Serial Number UO1197A-ST
API Number 4304751816

Casing – Time casing run starts, not cementing times.

- Production Casing
- Other

Date/Time 9/18/12 6 AM PM

BOPE

- Initial BOPE test at surface casing point
- Other

Date/Time _ _ AM PM

RECEIVED

SEP 18 2012

DIV. OF OIL, GAS & MINING

Rig Move

Location To: NBU 1022-11G4 PAD

Date/Time _ _ AM PM

Remarks _____

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5.LEASE DESIGNATION AND SERIAL NUMBER: UO1197A-ST
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 1022-11K4BS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047518160000
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
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1980 FSL 2131 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSE Section: 11 Township: 10.0S 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"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 11/5/2012	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

No Activity for the month of October 2012. Well TD at 8,688.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
 November 05, 2012

NAME (PLEASE PRINT) Jaime Scharnowske	PHONE NUMBER 720 929-6304	TITLE Regularatory Analyst
SIGNATURE N/A	DATE 11/5/2012	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
5. LEASE DESIGNATION AND SERIAL NUMBER: UO1197A-ST	
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:	
7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES	
8. WELL NAME and NUMBER: NBU 1022-11K4BS	
9. API NUMBER: 43047518160000	
9. FIELD and POOL or WILDCAT: NATURAL BUTTES	
COUNTY: UINTAH	
STATE: UTAH	

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.

1. TYPE OF WELL Gas Well	11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6511
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1980 FSL 2131 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSE Section: 11 Township: 10.0S Range: 22.0E Meridian: S	

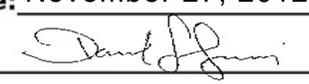
TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 11/8/2012	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
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	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input checked="" type="checkbox"/> OTHER	OTHER: ACTS PIT

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

THE PIT ON THIS LOCATION WILL BE REFURBISHED AND UTILIZED AS PART OF THE ACTS SYSTEM.

Accepted by the Utah Division of Oil, Gas and Mining

Date: November 27, 2012

By: 

NAME (PLEASE PRINT) Lindsey Frazier	PHONE NUMBER 720 929-6857	TITLE Regulatory Analyst II
SIGNATURE N/A	DATE 11/8/2012	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5.LEASE DESIGNATION AND SERIAL NUMBER: UO1197A-ST
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<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 12/3/2012	<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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12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

No Activity for the month of November 2012. Well TD at 8,688.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
 December 04, 2012

NAME (PLEASE PRINT) Jaime Scharnowske	PHONE NUMBER 720 929-6304	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 12/3/2012	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5.LEASE DESIGNATION AND SERIAL NUMBER: UO1197A-ST
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<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 1/3/2013	<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.

Started completing the well. Well TD at 8,688

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
 January 04, 2013

NAME (PLEASE PRINT) Laura Abrams	PHONE NUMBER 720 929-6356	TITLE Regulatory Analyst II
SIGNATURE N/A	DATE 1/3/2013	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UO1197A-ST
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2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: NBU 1022-11K4BS
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1980 FSL 2131 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSE Section: 11 Township: 10.0S Range: 22.0E Meridian: S		9. API NUMBER: 43047518160000
PHONE NUMBER: 720 929-6511		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
COUNTY: UINTAH		STATE: UTAH
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<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> ALTER CASING	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR	
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 1/9/2013	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
	<input type="checkbox"/> CHANGE TUBING	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input type="checkbox"/> CONVERT WELL TYPE	
	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> FRACTURE TREAT	
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	<input type="checkbox"/> RECLAMATION OF WELL SITE	
	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
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	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input type="checkbox"/> OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. The subject well was placed on production on 01/09/2013. 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 January 10, 2013		
NAME (PLEASE PRINT) Lindsey Frazier	PHONE NUMBER 720 929-6857	TITLE Regulatory Analyst II
SIGNATURE N/A	DATE 1/10/2013	

RECEIVED

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

FEB 05 2013

AMENDED REPORT FORM 8
(highlight changes)

DIV. OF OIL, GAS & MINING

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

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

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

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

3. ADDRESS OF OPERATOR: P.O. BOX 173779 CITY DENVER STATE CO ZIP 80217 PHONE NUMBER: (720) 929-6000

4. LOCATION OF WELL (FOOTAGES)
AT SURFACE: NWSE 1980 FSL 2131 FEL S11,T10S,R22E
AT TOP PRODUCING INTERVAL REPORTED BELOW: NESW 1812 FSL 1935 FWL S11,T10S,R22E
AT TOTAL DEPTH: NESW 1793 FSL 1956 FWL S11,T10S,R22E

5. LEASE DESIGNATION AND SERIAL NUMBER: UO1197A-ST

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT or CA AGREEMENT NAME: UTU63047A

8. WELL NAME and NUMBER: NBU 1022-11K4BS

9. API NUMBER: 4304751816

10. FIELD AND POOL, OR WILDCAT: NATURAL BUTTES

11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NWSE 11 10S 22E S

12. COUNTY: UINTAH 13. STATE: UTAH

14. DATE SPUDDED: 5/10/2012 15. DATE T.D. REACHED: 9/18/2012 16. DATE COMPLETED: 1/9/2013 ABANDONED READY TO PRODUCE

17. ELEVATIONS (DF, RKB, RT, GL): 5097 RKB

18. TOTAL DEPTH: MD 8,688 TVD 8,491 19. PLUG BACK T.D.: MD 8,630 TVD 8,433 20. IF MULTIPLE COMPLETIONS, HOW MANY? * 21. DEPTH BRIDGE MD PLUG SET: TVD

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each): CBL/GR/CCL/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	2,236		700		0	
7 7/8"	4 1/2" I-80	11.6#	0	8,678		1,540		1280	

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"	7,903							

26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)	INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
(A) MESAVERDE	6,474	8,276			6,474 8,276	0.36	186	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
(B)								Open <input 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
6474-8276	PUMP 9224 BBLs SLICK H2O & 194,635 LBS 30/50 OTTAWA SAND
	8 STAGES

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

30. WELL STATUS: PROD

31. INITIAL PRODUCTION

INTERVAL A (As shown in item #26)

DATE FIRST PRODUCED: 1/9/2013		TEST DATE: 1/13/2013		HOURS TESTED: 24		TEST PRODUCTION RATES: →		OIL - BBL: 0	GAS - MCF: 1,075	WATER - BBL: 0	PROD. METHOD: FLOWING
CHOKE SIZE: 20/64	TBG. PRESS. 1,200	CSG. PRESS. 875	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL - BBL: 0	GAS - MCF: 1,075	WATER - BBL: 0	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.)

SOLD

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	877
				BIRD'S NEST	1,180
				MAHOGANY	1,742
				WASATCH	4,227
				MESAVERDE	6,472

35. ADDITIONAL REMARKS (Include plugging procedure)

The first 210' of the surface hole was drilled with a 1 1/4" bit. The remainder of surface hole was drilled with an 11" bit. DQX csg was run from surface to 5055'; LTC csg was run from 5055' to 8678'. 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) LAURA ABRAMS TITLE REGULATORY ANALYST
 SIGNATURE *Laura Abrams* DATE 1-31-13

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 1022-11K4BS YELLOW Spud Date: 6/6/2012
 Project: UTAH-UINTAH Site: NBU 1022-11J PAD Rig Name No: PROPETRO 12/12, PIONEER 54/54
 Event: DRILLING Start Date: 5/10/2012 End Date: 9/19/2012
 Active Datum: RKB @5,097.00usft (above Mean Sea Level) UWM: NW/SE/0/10/S/22/E/11/0/0/26/PM/S/1980/E/0/2131/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
6/6/2012	19:00 - 20:30	1.50	DRLSUR	01	B	P		RIG UP / INSTALL DIVERTER HEAD, SPOT IN RIG, CATWALK AND PIPE RACKS. RIG UP PIT PUMP. RIG UP HOLE PUMP AND ASSOCIATED CONTROLS. INSPECT RIG. PERFORM SAFETY INSPECTION. HELD PRE JOB SAFETY MEETING. PICK UP 8" 1.83 BEND .17 RPG MUD MOTOR (SN 8003017). M/U QD507 12.25" BIT ((SN7137066). TRIP IN CONDUCTOR TO SPUD.
	20:30 - 22:00	1.50	DRLSUR	02	D	P		SPUD 06/06/2012 20:30 hrs. DRILL 12.25" HOLE 44 ft TO 210 ft (166 FT, 111 FPH). WOB 5-15 Kips. GPM 491. PSI ON/OFF 600/400. SURFACE RPM 55, MOTOR 83, TOTAL RPM 138. UP/DOWN/ ROT 20/20/20 K. DRAG 0 Kips . W/8.5 ppg WATER. DRILL DOWN TO 210 ft W/6 in COLLARS.
	22:00 - 22:30	0.50	DRLSUR	05	C	P		CIRC 15 min. AND TRIP OUT TO CHANGE ASSEMBLY.
	22:30 - 0:00	1.50	DRLSUR	06	A	P		PRE JOB SAFETY MEETING, LAY DOWN 6 in DRILL COLLARS, 12 1/4 in BIT. MAKE UP Q506F 11in BIT (6 th RUN) (SN 7031553) PICK UP 8 in DIRECTIONAL ASSEMBLY. INSTALL EM TOOL. TRIP IN HOLE.
6/7/2012	0:00 - 1:30	1.50	DRLSUR	06	A	P		FINISHED LAYING DOWN 6 in DRILL COLLARS, 12 1/4 in BIT. MAKE UP Q506F 11in BIT (6 th RUN) (SN 7031553) PICK UP 8 in DIRECTIONAL ASSEMBLY. INSTALL EM TOOL. TRIP IN HOLE.
	1:30 - 8:00	6.50	DRLSUR	02	C	P		DRILL 11" SURFACE HOLE F/ 210' TO 1040 (830' @127 FT HR) WEIGHT ON BIT 15-25 K. STROKES PER MINUTE 120 GALLONS PER MINUTE 491. PRESSURE ON/OFF(BOTTOM) 1270/1040. ROTARY RPM 50, MOTOR RPM 83, TOTAL RPM 138. UP/DOWN/ ROTATE 70/51/60 K. DRAG 10 K.
	8:00 - 9:30	1.50	DRLSUR	22	L	Z		TROUBLE WITH MWD TOOL NOT RESPONDING WORKED WITH CABLES GOT IT WORKING.
	9:30 - 23:30	14.00	DRLSUR	02	C	P		DRILL 11" SURFACE HOLE F / 1040' TO 2250' (1210' @86.4 FT HR) WEIGHT ON BIT 15-25 K. STROKES PER MINUTE 120 GALLONS PER MINUTE 491. PRESSURE ON/OFF(BOTTOM) 1440/1230. ROTARY RPM 50. MOTOR RPM 83, TOTAL RPM 138. UP/DOWN/ ROTATE 70/51/60 K. DRAG 10 K.
								LAST SURVEY @ 2185' INC 20.84 AMI 265.53
								10 foot high
								1.5 foot right/ slid 246 foot 12 percent
	23:30 - 0:00	0.50	DRLSUR	05	C	P		CIRCULATE AND CONDITION MUD PRIOR TO LDDS
6/8/2012	0:00 - 1:30	1.50	DRLSUR	05	C	P		CIRCULATE AND CONDITION MUD PRIOR TO LDDS

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 1022-11K4BS YELLOW

Spud Date: 6/6/2012

Project: UTAH-UINTAH

Site: NBU 1022-11J PAD

Rig Name No: PROPETRO 12/12, PIONEER 54/54

Event: DRILLING

Start Date: 5/10/2012

End Date: 9/19/2012

Active Datum: RKB @5,097.00usft (above Mean Sea Level)

UWI: NWW/SE/0/10/S/22/E/11/0/0/26/PM/S/1980/E/0/2131/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	1:30 - 4:00	2.50	DRLSUR	06	A	P		LAY DOWN DRILL STRING TO 810' TOOK ON SURFACE GAS STOP TRIPPING ATTEMPT TO KEEP HOLE FULL & WAIT ON DRILLING MUD.
	4:00 - 8:30	4.50	DRLSUR	21	E	X		WAIT ON JD TRUCKING WITH DRILLING MUD TO KILL SURFACE GAS.
	8:30 - 9:00	0.50	DRLSUR	05	B	P		PUMP KILL WT. MUD DOWN DRILL STRING TO KILL SURFACE GAS.
	9:00 - 11:30	2.50	DRLSUR	06	A	P		LAY DOWN DRILL STRING AND, BOTTOM HOLE ASSEMBLY, BREAK BIT, LAY DOWN MOTOR.
	11:30 - 15:30	4.00	DRLSUR	12	C	P		RIG UP AND RUN 50 JOINTS 8.625 28# J55 SURFACE CASING SHOE AT 2216.60' BAFFLE @2170.70' RUN 200' OF 1" PIPE DOWN BACK SIDE AND RIG DOWN.
	15:30 - 18:00	2.50	DRLSUR	12	E	P		PRESSURE TEST LINES TO 1000 PSI. PUMP 120 BBLs OF WATER AHEAD. CATCH PSI. PUMP 20 BBLs OF 8.3# GEL WATER AHEAD. MIX AND PUMP (300 SX) 61.4 BBLs OF 15.8# 1.15 YD 5 GAL/SK PREMIUM CEMENT W/ 2% CALC. DROP PLUG ON FLY. DISPLACE W/ 132 BBLs OF H2O. NO CIRC THROUGH OUT. FINAL LIFT OF 350 PSI AT 4 BBL/MIN. BUMP PLUG WITH 650 PSI FOR 5 MIN. FLOAT HELD. MIX AND PUMP (150 SX) 30.7 BBLs OF SAME TAIL CEMENT W/ 4% CALC. DOWN BACKSIDE, NO CEMENT TO SURFACE. SHUT DOWN AND CLEAN TRUCK. WAIT 1.5 HOURS MIX AND PUMP (125 SX) 22.4 BBLs OF SAME TAIL CEMENT W/ 4% CALC. DOWN BACKSIDE NO CEMENT TO SURFACE. SHUT DOWN AND CLEAN TRUCK. WAIT 1.5 HOURS MIX AND PUMP (125 SX) 22.4 BBLs OF SAME TAIL CEMENT W/ 4% CALC. DOWN BACKSIDE NO CEMENT TO SURFACE. RIG DOWN CEMENTERS. RELEASE RIG AT 18:00 6-8-12. (CMENTERS OFF LOC. @ 21:00 AFTER TOP OUTS)
9/15/2012	18:00 - 18:30	0.50	MIRU3	01	C	P		SKID RIG 10' TO THE NBU 1022-11K4BS,
	18:30 - 19:00	0.50	PRPSPD	14	A	P		N/U BOPE & R/U FLOW LINE, CHOKE
	19:00 - 19:30	0.50	PRPSPD	09	A	P		CUT & SLIP DRLG LINE, 105'
	19:30 - 23:00	3.50	PRPSPD	15	A	P		HELD SAFETY MEETING, TEST BLIND & PIPE RAMS, DART VALVE, INSIDE CHOKE, HCR, MANIFOLD VALVES, KILL & CHECK VALVES, SUPER CHOKE, 250 LOW - 5000 HIGH, ANN 2500, SURFACE CASING TO 1500 FOR 30 MIN'S
	23:00 - 23:30	0.50	PRPSPD	14	B	P		INSTALL WEAR BUSHING
	23:30 - 0:00	0.50	PRPSPD	06	A	P		P/U BIT #1, MM & DIR TOOLS & SCRIBE
9/16/2012	0:00 - 2:00	2.00	PRPSPD	02	F	P		DRILL CEMENT, F/E & OPEN HOLE TO 2265, SHOE @ 2216, FLOAT @ 2169

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 1022-11K4BS YELLOW Spud Date: 6/6/2012
 Project: UTAH-UINTAH Site: NBU 1022-11J PAD Rig Name No: PROPETRO 12/12, PIONEER 54/54
 Event: DRILLING Start Date: 5/10/2012 End Date: 9/19/2012
 Active Datum: RKB @5,097.00usft (above Mean Sea Level) UWI: NW/SE/010/S/22/E/11/0/0/26/PM/S/1980/E/0/2131/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	2:00 - 5:30	3.50	DRLPRC	02	B	P		CLOSED LOOP SYSTEM DRILL F/ 2265 TO 2523', 258' @ 73.7' PH WOB / 22-24 RPM TOP DRIVE 50-60 (2- PUMPS) SPM 200 GPM 586 MW 8.5 PPG 29 VIS TRQ ON/OFF = 4-5 K PSI ON /OFF 1500-1200, DIFF 200-500 PU/SO/RT = 80-80-80 K SLIDE = 42' IN .58 HRS - 72.4' PH ROT = 216' IN 2.92 HRS = 77' PH NOV / 2- DEWATERING 2' L & 5' BELOW TARGET PLAN 0 DRILL FLARE, 0 CONN FLARE
	5:30 - 6:00	0.50	DRLPRC	07	A	P		SERVICE RIG
	6:00 - 7:00	1.00	DRLPRC	08	B	P		PREVENTIVE MAINTANCE ON FUEL SYSTEM ON #2 PUMP,
	7:00 - 14:30	7.50	DRLPRC	02	D	P		CLOSED LOOP SYSTEM DRILL F/ 2523 TO 3475', 952' @ 126.9' PH WOB / 22-24 RPM TOP DRIVE 50-60 (1 PUMP) - SPM 122 GPM 358 MW 8.5 PPG 29 VIS TRQ ON/OFF = 5-6 K PSI ON /OFF 1100-900 , DIFF 200-500 PU/SO/RT = 110-90-100 K SLIDE = 171' IN 2.34 HRS = 73' PH ROT = 781' IN 5.16 HRS = 151.3' PH NOV / 2- DEWATERING 9' L & 15' BELOW PLAN 0 DRILL FLARE, 0 CONN FLARE
	14:30 - 0:00	9.50	DRLINC	02	B	P		CLOSED LOOP SYSTEM DRILL F/ 3475' TO 4661', 1186' @ 124.8' PH WOB / 22-24 RPM TOP DRIVE 50-60 (2 PUMPS) - SPM 200 GPM 586 MW 8.5 PPG 29 VIS TRQ ON/OFF = 8-6 K PSI ON /OFF 2000-1600 , DIFF 200-500 PU/SO/RT = 120-90-105 K SLIDE = 240' IN 4.03 HRS = 59.5' PH ROT = 946' IN 5.47 HRS = 172.9' PH NOV / 2- DEWATERING 15' N & 3.5' W OF TARGET CENTER 0 DRILL FLARE, 0 CONN FLARE

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 1022-11K4BS YELLOW

Spud Date: 6/6/2012

Project: UTAH-UINTAH

Site: NBU 1022-11J PAD

Rig Name No: PROPETRO 12/12, PIONEER 54/54

Event: DRILLING

Start Date: 5/10/2012

End Date: 9/19/2012

Active Datum: RKB @5,097.00usft (above Mean Sea Level)

UWI: NW/SE/0/10/S/22/E/11/0/0/26/PM/S/1980/E/0/2131/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
9/17/2012	0:00 - 16:00	16.00	DRLPRV	02	B	P		CLOSED LOOP SYSTEM DRILL F/4661' TO 7022', 2361' @ 147.5' PH WOB / 22-24 RPM TOP DRIVE 50-60 (2 PUMPS) - SPM 200 GPM 586 MW 8.5 PPG 29 VIS TRQ ON/OFF = 8-6 K PSI ON /OFF 2500-2000, DIFF 200-500 PU/SO/RT = 185-125-150 K SLIDE = 100' IN 1.97 HRS = 50.7' PH ROT = 2261' IN 14.03 HRS = 161.1' PH NOV / 2- DEWATERING 7' N & 11' W OF TARGET CENTER 0 DRILL FLARE, 0 CONN FLARE
	16:00 - 16:30	0.50	DRLPRV	07	A	P		SERVICE RIG
	16:30 - 0:00	7.50	DRLPRV	02	B	P		CLOSED LOOP SYSTEM DRILL F/7022' TO 8035', 1013' @ 135' PH WOB / 22-24 RPM TOP DRIVE 50-60 (2 PUMPS) - SPM 180 GPM 528 MW 8.5 PPG 29 VIS TRQ ON/OFF = 11-9 K PSI ON /OFF 2500-2000, DIFF 200-500 PU/SO/RT = 200-150-175K SLIDE = 0 ROT = 100% NOV / 2- DEWATERING 4.4 N & 3.0 E OF TARGET CENTER 10 DRILL FLARE, 10 CONN FLARE (1PUMP) SPM 122, GPM 358, WHILE LOSSING LOST 300 BBLs TO SEEPAGE 20 GAL PER MIN STARTING @ 7100', PUMPING 20% SWEEPS
9/18/2012	0:00 - 8:00	8.00	DRLPRV	02	B	P		CLOSED LOOP SYSTEM DRILL F/8035' TO 8688' TD @ 08:00 9/18/12, 653' @ 81.6' PH WOB / 22-24 RPM TOP DRIVE 50-60 SPM 122 GPM 358 MW 8.5 PPG 29 VIS TRQ ON/OFF = 11-9 K PSI ON /OFF 2500-2000, DIFF 200-500 PU/SO/RT = 212-160-185K SLIDE = 16' IN .83 HRS = 19.3' PH ROT = 637' IN 7.17 HRS = 88.8' PH NOV / 2- DEWATERING 11.48' S & 10.44 E OF TARGET CENTER 10 DRILL FLARE, 10 CONN FLARE
	8:00 - 9:00	1.00	DRLPRV	05	G	P		DISPLACE HOLE WITH KILL MUD, MW 11.8, VIS 38
	9:00 - 10:30	1.50	DRLPRV	05	C	P		CIRC HOLE CLEAN & GAS OUT
	10:30 - 12:00	1.50	DRLPRV	22	A	X		WORK STUCK PIPE FREE @ 8550', WASH & REAM CLEAN
	12:00 - 18:00	6.00	DRLPRV	06	E	P		SHORT TRIP TO SHOE
	18:00 - 18:30	0.50	DRLPRV	03	D	P		WASH & REAM LAST 80' TO BOTTOM, 10' FILL, NO TRIP FLARE
	18:30 - 20:30	2.00	DRLPRV	05	C	P		CIRC & COND HOLE TO LAYDOWN DRILL STRING

US ROCKIES REGION
Operation Summary Report

Well: NBU 1022-11K4BS YELLOW

Spud Date: 6/6/2012

Project: UTAH-UINTAH

Site: NBU 1022-11J PAD

Rig Name No: PROPETRO 12/12, PIONEER 54/54

Event: DRILLING

Start Date: 5/10/2012

End Date: 9/19/2012

Active Datum: RKB @5,097.00usft (above Mean Sea Level)

UWI: NW/SE/0/10/S/22/E/11/0/0/26/PM/S/1980/E/0/2131/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	20:30 - 0:00	3.50	DRLPRV	06	A	P		HELD SAFETY MEETING WITH RIG & KIMZEY LAYDOWN CREWS, RIG UP & LAYDOWN DRILL STRING
9/19/2012	0:00 - 2:00	2.00	DRLPRV	06	A	P		LAYDOWN DRILL STRING, DIR TOOLS, MM & BIT
	2:00 - 2:30	0.50	DRLPRV	14	B	P		PULL WEAR BUSHING
	2:30 - 10:00	7.50	CSGPRO	12	C	P		HELD SAFETY MEETING, WITH RIG & KIMZEY CASING HANDS, RIG UP & RUN 84 JTS 4.5" LTC I-80, 1 MARKER, 112 JTS 4.5" DQX & 1 X/O, LAND CASING
	10:00 - 12:00	2.00	CSGPRO					CIRC OUT GAS
	12:00 - 15:00	3.00	CSGPRO					HELD SAFETY MEETING, TEST LINES TO 5000 PSI, PUMP 25 BBL SPACER, LEAD 440 SACK 12.5 PPG 1.98 YLD, TAIL 1100 SACKS 14.3 PPG 1.32 YLD, CLEAN LINES, DROP PLUG & DISPLACE WITH 134 BBLS CLAYCARE WATER, FLOATS HELD, HAD FULL RETURNS THROUGHOUT JOB WITH 15 BBLS SPACER TO PIT & 1.5 BBLS BACK TO TRUCK, FLOAT BACK TO 8631 MD, EST TOP OF TAIL 3500'
	15:00 - 15:30	0.50	CSGPRO					SET PACKOFF
	15:30 - 18:00	2.50	CSGPRO					N/D, CLEAN PIT, PREPARE TO MOVE, RELEASE RIG TO THE NBU 1022-11H1BS @ 18:00 9/19/12

1 General

1.1 Customer Information

Company	US ROCKIES REGION
Representative	
Address	

1.2 Well/Wellbore Information

Well	NBU 1022-11K4BS YELLOW	Wellbore No.	OH
Well Name	NBU 1022-11K4BS	Wellbore Name	NBU 1022-11K4BS
Report No.	1	Report Date	12/11/2012
Project	UTAH-UINTAH	Site	NBU 1022-11J PAD
Rig Name/No.		Event	COMPLETION
Start Date	12/11/2012	End Date	1/9/2013
Spud Date	6/6/2012	Active Datum	RKB @5,097.00usft (above Mean Sea Level)
UWI	NW/SE/0/10/S/22/E/11/0/0/26/PM/S/1980/E/0/2131/0/0		

1.3 General

Contractor	Cased Hole Solutions	Job Method	PERFORATE	Supervisor	CLAUD SIMS
Perforated Assembly	PRODUCTION CASING	Conveyed Method	WIRELINE		

1.4 Initial Conditions

Fluid Type	KCL WATER	Fluid Density	8.40 (ppg)
Surface Press		Estimate Res Press	
TVD Fluid Top	0.0 (usft)	Fluid Head	5,097.0 (usft)
Hydrostatic Press	2,224.15 (psi)	Press Difference	2,224.15 (psi)
Balance Cond	OVER BALANCED		

1.5 Summary

Gross Interval	6,474.0 (usft)-8,276.0 (usft)	Start Date/Time	12/31/2012 12:00AM
No. of Intervals	51	End Date/Time	12/31/2012 12:00AM
Total Shots	186	Net Perforation Interval	58.00 (usft)
Avg Shot Density	3.21 (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 /Stage No	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
12/31/2012 12:00AM	MESAVERDE/2			6,474.0	6,476.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	

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	Diameter (in)	Carr Type /Stage No	Carr. Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
12/31/2012 12:00AM	MESAVERDE/			6,500.0	6,502.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12/31/2012 12:00AM	MESAVERDE/			6,515.0	6,517.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12/31/2012 12:00AM	MESAVERDE/			6,845.0	6,846.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12/31/2012 12:00AM	MESAVERDE/			6,855.0	6,857.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12/31/2012 12:00AM	MESAVERDE/			6,862.0	6,864.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12/31/2012 12:00AM	MESAVERDE/			6,924.0	6,926.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12/31/2012 12:00AM	MESAVERDE/			7,030.0	7,031.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12/31/2012 12:00AM	MESAVERDE/			7,063.0	7,064.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12/31/2012 12:00AM	MESAVERDE/			7,112.0	7,113.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12/31/2012 12:00AM	MESAVERDE/			7,124.0	7,125.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12/31/2012 12:00AM	MESAVERDE/			7,137.0	7,138.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12/31/2012 12:00AM	MESAVERDE/			7,155.0	7,156.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12/31/2012 12:00AM	MESAVERDE/			7,222.0	7,223.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12/31/2012 12:00AM	MESAVERDE/			7,242.0	7,243.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diamete r (in)	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
12/31/2012 12:00AM	MESAVERDE/			7,265.0	7,266.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12/31/2012 12:00AM	MESAVERDE/			7,280.0	7,281.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12/31/2012 12:00AM	MESAVERDE/			7,354.0	7,355.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12/31/2012 12:00AM	MESAVERDE/			7,396.0	7,397.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12/31/2012 12:00AM	MESAVERDE/			7,424.0	7,425.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12/31/2012 12:00AM	MESAVERDE/			7,457.0	7,458.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12/31/2012 12:00AM	MESAVERDE/			7,486.0	7,487.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12/31/2012 12:00AM	MESAVERDE/			7,532.0	7,533.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12/31/2012 12:00AM	MESAVERDE/			7,580.0	7,582.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12/31/2012 12:00AM	MESAVERDE/			7,630.0	7,631.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12/31/2012 12:00AM	MESAVERDE/			7,649.0	7,650.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12/31/2012 12:00AM	MESAVERDE/			7,675.0	7,676.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12/31/2012 12:00AM	MESAVERDE/			7,698.0	7,699.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12/31/2012 12:00AM	MESAVERDE/			7,754.0	7,755.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	

2.1 Perforated Interval (Continued)

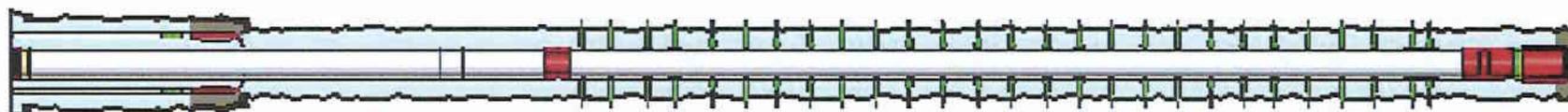
Date	Formation/ Reservoir	CCL@ (usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diameter r (in)	Carr Type /Stage No	Carr. Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
12/31/2012 12:00AM	MESAVERDE/			7,761.0	7,762.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12/31/2012 12:00AM	MESAVERDE/			7,796.0	7,797.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12/31/2012 12:00AM	MESAVERDE/			7,803.0	7,804.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12/31/2012 12:00AM	MESAVERDE/			7,812.0	7,813.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12/31/2012 12:00AM	MESAVERDE/			7,858.0	7,859.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12/31/2012 12:00AM	MESAVERDE/			7,876.0	7,877.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12/31/2012 12:00AM	MESAVERDE/			7,898.0	7,899.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12/31/2012 12:00AM	MESAVERDE/			7,934.0	7,935.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12/31/2012 12:00AM	MESAVERDE/			7,976.0	7,977.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12/31/2012 12:00AM	MESAVERDE/			7,984.0	7,985.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12/31/2012 12:00AM	MESAVERDE/			8,010.0	8,011.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12/31/2012 12:00AM	MESAVERDE/			8,023.0	8,024.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12/31/2012 12:00AM	MESAVERDE/			8,033.0	8,034.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12/31/2012 12:00AM	MESAVERDE/			8,062.0	8,063.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diamete r (in)	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
12/31/2012 12:00AM	MESAVERDE/			8,094.0	8,095.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12/31/2012 12:00AM	MESAVERDE/			8,123.0	8,124.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12/31/2012 12:00AM	MESAVERDE/			8,164.0	8,165.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12/31/2012 12:00AM	MESAVERDE/			8,187.0	8,188.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12/31/2012 12:00AM	MESAVERDE/			8,203.0	8,204.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12/31/2012 12:00AM	MESAVERDE/			8,223.0	8,224.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12/31/2012 12:00AM	MESAVERDE/			8,252.0	8,253.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12/31/2012 12:00AM	MESAVERDE/			8,275.0	8,276.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	

3 Plots

3.1 Wellbore Schematic



US ROCKIES REGION
Operation Summary Report

Well: NBU 1022-11K4BS YELLOW

Spud Date: 6/6/2012

Project: UTAH-UINTAH

Site: NBU 1022-11J PAD

Rig Name No: ROCKY MOUNTAIN WELL SERVICE
3/3

Event: COMPLETION

Start Date: 12/11/2012

End Date: 1/9/2013

Active Datum: RKB @5,097.00usft (above Mean Sea Level)

UWI: NW/SE/0/10/S/22/E/11/0/0/26/PM/S/1980/E/0/2131/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
6/6/2012	-							
12/11/2012	9:30 - 10:30	1.00	FRAC	33	C	P		FILL SURFACE CSG. MIRU B&C QUICK TEST. 1ST PSI TEST T/ 7000 PSI. HELD FOR 15 MIN LOST 56 PSI. NO COMMUNICATION OR MIGRATION WITH SURFACE CSG
12/13/2012	8:00 - 9:00	1.00	FRAC	33	C	P		BLEED OFF PSI. MOVE T/ NEXT WELL.SWFN
	9:00 - 11:00	2.00	FRAC	37		P		FILL SURFACE CAMERON QUICK TEST, TEST CSG & FRAC VALVE, GOOD SWFN
								PERF STG 1)PU 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH PERF AS PER PERF DESIGN. POOH. SWFW
12/18/2012	6:30 - 7:30	1.00	FRAC	48		P		JSA-SAFETY MEETING, PRESSURE TEST SURFACE LINE TO 8600#, LOST 460# IN 15 MIN.

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 1022-11K4BS YELLOW

Spud Date: 6/6/2012

Project: UTAH-UINTAH

Site: NBU 1022-11J PAD

Rig Name No: ROCKY MOUNTAIN WELL SERVICE
3/3

Event: COMPLETION

Start Date: 12/11/2012

End Date: 1/9/2013

Active Datum: RKB @5,097.00usft (above Mean Sea Level)

UWI: NW/SE/0/10/S/22/E/11/0/0/26/PM/S/1980/E/0/2131/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	7:30 - 17:00	9.50	FRAC	36	E	P		<p>PERF & FRAC FOLLOWING WELL AS PER DESIGN W/ 30/50 MESH SAND & SLK WTR. ALL CBP'S ARE HALIBURTON 8K CBP'S. REFER TO STIM PJR FOR FLUID, SAND AND CHEMICAL VOLUME PUM'D</p> <p>(FRAC STG #1) WHP = 1260 #, BRK DN PERFS = 3915 #, @ 4.7 BPM, ISIP = 2347 #, FG = 0.73 , CALC PERF OPEN @ 50.1 BPM, @ 4198 # = 100 % , (24/24 HOLES OPEN,) FINAL ISIP = 2570 #, FINAL FG = 0.75 , NET PRESSURE INCREASE = 223 #, MAX PSI = 5956 #, MAX RATE = 50.2 BPM, AVERAGE PSI = 4115 #, AVERAGE RATE = 49.4 BPM, X OVER TO WIRE LINE</p> <p>(PERF STG #2) P/U 4 1/2" HALLIBURTON 8K CBP & 3 1/8" PERF GUN, 23 GM, 0.36 HOLE SIZE, 90 - 120° PHASING, RIH SET CBP @ = 8084 ', PERF AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW</p> <p>(FRAC STG #2) WHP = 2216 #, BRK DN PERFS = 3560 #, @ = 4 BPM, ISIP = 2455 #, FG = 0.75, CALC PERF OPEN @ 49.7 BPM, @ 5360 PSI = 95 % , (20/21 HOLES OPEN) FINAL ISIP = 2746 #, FINAL FG = 0.78, NET PRESSURE INCREASE = 291 #, MAX PSI = 5432 #, MAX RATE = 50.1 BPM, AVERAGE PSI = 4470 #, AVERAGE RATE = 48.4 BPM, X OVER TO WIRE LINE</p> <p>(PERF STG #3) P/U 4 1/2" HALLIBURTON 8K CBP & 3 1/8" PERF GUN, 23 GM, 0.36 HOLE SIZE, 90 - 120° PHASING, RIH SET CBP @ 7924 ', PERF AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW</p> <p>(FRAC STG #3) WHP = 2310 #, BRK DN PERFS = 3915 #, @ 4.9 BPM, ISIP = 2666 #, F.G = 0.78 , CALC PER OPEN @ 49.9 BPM @ 5307 PSI = 100 % , (24/24 HOLES OPEN) FINAL ISIP = 2406 #, FINAL F.G. = 0.75 , NET PRESSURE INCREASE = -260 #, MAX PSI = 6638 #, MAX RATE = 51.1 BPM, AVERAGE PSI = 4953 #, AVERAGE RATE = 48.7 BPM X OVER TO WIRE LINE</p> <p>(PERF STG #4) P/U 4 1/2" HALIBURTON 8K CBP & 3 1/8" PERF GUN, 23 GM, 0.36 HOLE SIZE, 90 - 120° PHASING, RIH SET CBP @ = 7729 ', PERF AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW</p> <p>(FRAC STG #4) WHP = 1870 #, BRK DN PERFS = 3573 #, @ 4.4 BPM, ISIP = 2132 #, FG = 0.72 , CALC PERF OPEN @ 52.7 BPM @ 5247 PSI = 92 % , (22/24/ HOLES OPEN,</p>

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 1022-11K4BS YELLOW Spud Date: 6/6/2012

Project: UTAH-UINTAH Site: NBU 1022-11J PAD Rig Name No: ROCKY MOUNTAIN WELL SERVICE
3/3

Event: COMPLETION Start Date: 12/11/2012 End Date: 1/9/2013

Active Datum: RKB @5,097.00usft (above Mean Sea Level) UVM: NW/SE/0/10/S/22/E/11/0/0/26/PM/S/1980/E/0/2131/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
								<p>FINAL ISIP = 2433 #, FINAL FG = 0.76 , NET PRESSURE INCREASE = 301 #, MAX PSI = 6337 #, MAX RATE = 52.9 BPM, AVERAGE PSI = 4422 #, AVERAGE RATE = 51.7 BPM, X OVER TO WIRE LINE</p> <p>(PERF STG #5) P/U 4 1/2" HALIBURTON 8K CBP & 3 1/8" PERF GUN, 23 GM, 0.36 HOLE SIZE, 90 – 120" PHASING, RIH SET CBP @ = 7476 ', PERF AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW</p> <p>(FRAC STG #5) WHP = 1538 #, BRK DN PERFS = 6618 #, @ = 6.8 BPM, ISIP = 1764 #, F G = 0.68 , CALC PERF OPEN @ 49.8 BPM @ 4599 PSI = 83 % , (24/24 HOLES OPEN) FINAL ISIP = 2474 #, FINAL F G = 0.78 , NET PRESSURE INCREASE = 710 #, MAX PSI = 6618 #, MAX RATE = 50.6 BPM, AVERAGE PSI = 4219 #, AVERAGE RATE = 49.5 BPM, X OVER TO WIRE LINE</p> <p>(PERF STG #6) P/U 4 1/2" HALIBURTON 8K CBP & 3 1/8" PERF GUN, 23 GM, 0.36 HOLE SIZE, 90 – 120" PHASING, RIH SET CBP @ = 7186 ', PERF AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW</p>
	17:00 - 17:00	0.00	FRAC					
12/19/2012	7:30 - 8:00	0.50	FRAC	48		P		JSA-SAFETY MEETING

US ROCKIES REGION
Operation Summary Report

Well: NBU 1022-11K4BS YELLOW Spud Date: 6/6/2012

Project: UTAH-UINTAH Site: NBU 1022-11J PAD Rig Name No: ROCKY MOUNTAIN WELL SERVICE
3/3

Event: COMPLETION Start Date: 12/11/2012 End Date: 1/9/2013

Active Datum: RKB @5,097.00usft (above Mean Sea Level) UWI: NW/SE/0/10/S/22/E/11/0/0/26/PM/S/1980/E/0/2131/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
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8:00 - 13:00 5.00 FRAC 36 E P

(FRAC STG #6) WHP = 858 #, BRK DN PERFS = 3552 #, @ 4.2 BPM, ISIP = 1691 #, F G = 0.68, CALC PERF OPEN @ 50 BPM @ 3888 PSI = 100 %, (24/24 HOLES OPEN,)
FINAL ISIP = 2533 #, FINAL F G = 0.80, NET PRESSURE INCREASE = 842 PSI.
MAX PSI = 5096 #, MAX RATE = 50.8 BPM, AVERAGE PSI = 3781 #. AVERAGE RATE = 47.8 BPM,
X OVER TO WIRE LINE

(PERF STG #7) P/U 4 1/2" HALLIBURTON 8K CBP & 3 1/8" PERF GUN, 23 gm, 0.36 HOLE SIZE, 90 - 120* PHASING, RIH SET CBP @ = 6956', PERF AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW

(FRAC STG #7) WHP = 796 #, BRK DN PERFS = 2026#, @ = 3.7 BPM, ISIP = 1520 #, F G = 0.66, CALC PERF OPEN @ 50.1 BPM @ 4662 PSI = 86 %, (18/21 HOLES OPEN)
FINAL ISIP = 2625 #, FINAL F G = 0.82, NET PRESSURE INCREASE = 1105 PSI,
MAX PSI = 4990 #, MAX RATE = 51 BPM, AVERAGE PSI = 4064 #, AVERAGE RATE = 50.5 BPM,
X OVER TO WIRE LINE

(PERF STG #8) P/U 4 1/2" HALIBURTON 8K CBP & 3 1/8" PERF GUN, 23 GM, 0.36 HOLE SIZE, 90-120* PHASING, RIH SET CBP @ 6547', PERF AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW

(FRAC STG #8) WHP = 235 #, BRK DN PERFS = 2047 #, @ 4.5 BPM, ISIP = 1406 #, F G = 0.65, CALC PERF OPEN @ 50.3 BPM @ 4303 PSI = 79 %, (19/24 HOLES OPEN)
FINAL ISIP = 2676 #, FINAL F G = 0.85, NET PRESSURE INCREASE = 1270 PSI,
MAX PSI = 4754 #, MAX RATE = 50.6 BPM, AVERAGE PSI = 4064 #, AVERAGE RATE = 50.3 BPM,
X OVER TO WIRE LINE

(KILL PLUG) P/U RIH W/ HALIBURTON 8K CBP, SET FOR TOP KILL @ = 6424', R/D WIRELINE AND FRAC CREW, SHUT WELL IN,

TOTAL FLUID PUMP'D = 9224 BBLS
TOTAL SAND PUMP'D = 194635 #

12/20/2012 -

1/8/2013 7:00 - 7:15 0.25 DRLOUT 48 P

HSM-JSA

US ROCKIES REGION
Operation Summary Report

Well: NBU 1022-11K4BS YELLOW Spud Date: 6/6/2012

Project: UTAH-UINTAH	Site: NBU 1022-11J PAD	Rig Name No: ROCKY MOUNTAIN WELL SERVICE 3/3
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Event: COMPLETION	Start Date: 12/11/2012	End Date: 1/9/2013
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Active Datum: RKB @5,097.00usft (above Mean Sea Level)	UVM: NW/SE/0/10/S/22/E/11/0/0/26/PM/S/1980/E/0/2131/0/0
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Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	7:15 - 15:00	7.75	DRLOUT	44	C	P		<p>MIRU, NDWH, NUBOP, PU 3 7/8" BIT & POBS W/ XN SN, RIH W/ 203 JTS 2 3/8" L-80 TAG FILL @ 6,409', RU PWR SWL, BRK CIRC, PRESS TEST BOP TO 3,000 PSI LOST 0 PSI IN 15 MIN.</p> <p>C/O 15' SAND TAG PLUG #1 @ 6,424', DRL HAL 8K CBP IN 7 MIN, 0 PSI INC, FCP 0 PSI, RIH TAG FILL @ 6,537'.</p> <p>C/O 10' SAND TAG PLUG #2 @ 6,547', DRL HAL 8K CBP IN 5 MIN, 300 PSI INC, FCP 50 PSI, RIH TAG FILL @ 6,946'.</p> <p>C/O 10' SAND TAG PLUG #3 @ 6,956', DRL HAL 8K CBP IN 5 MIN, 400 PSI INC, FCP 300 PSI, CIRC CLEAN, SWI, WINTERIZE EQUIP, SDFN.</p>
1/9/2013	7:00 - 7:15	0.25	DRLOUT	48		P		HSM-JSA

US ROCKIES REGION
Operation Summary Report

Well: NBU 1022-11K4BS YELLOW

Spud Date: 6/6/2012

Project: UTAH-UINTAH

Site: NBU 1022-11J PAD

Rig Name No: ROCKY MOUNTAIN WELL SERVICE
3/3

Event: COMPLETION

Start Date: 12/11/2012

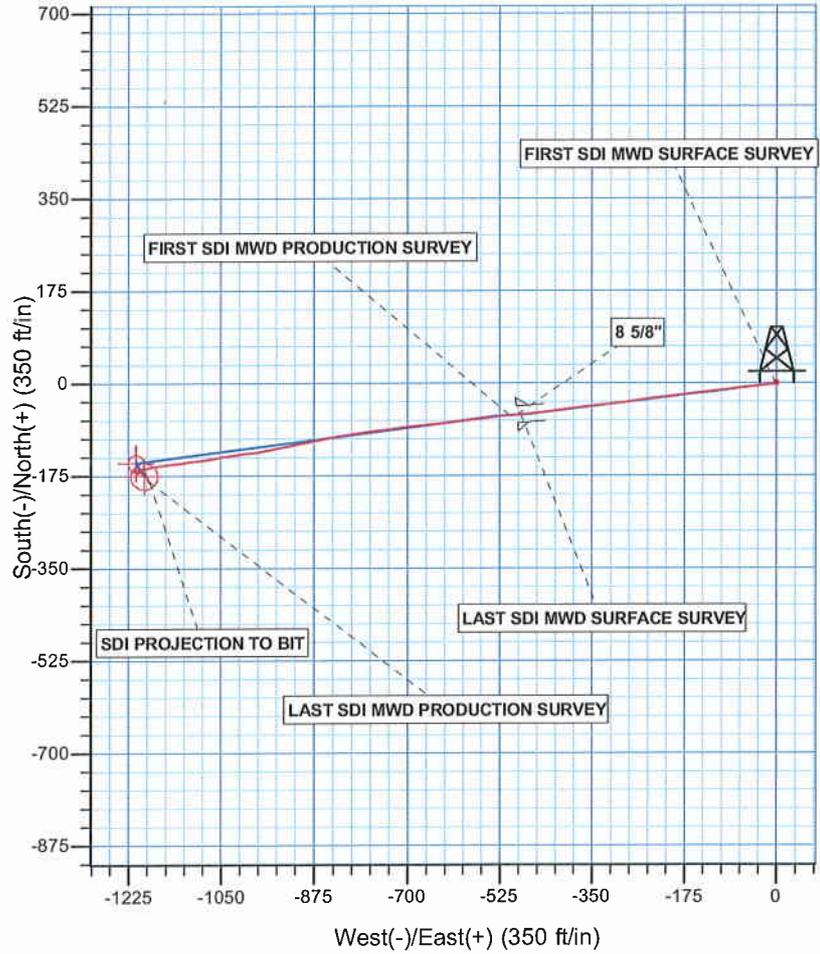
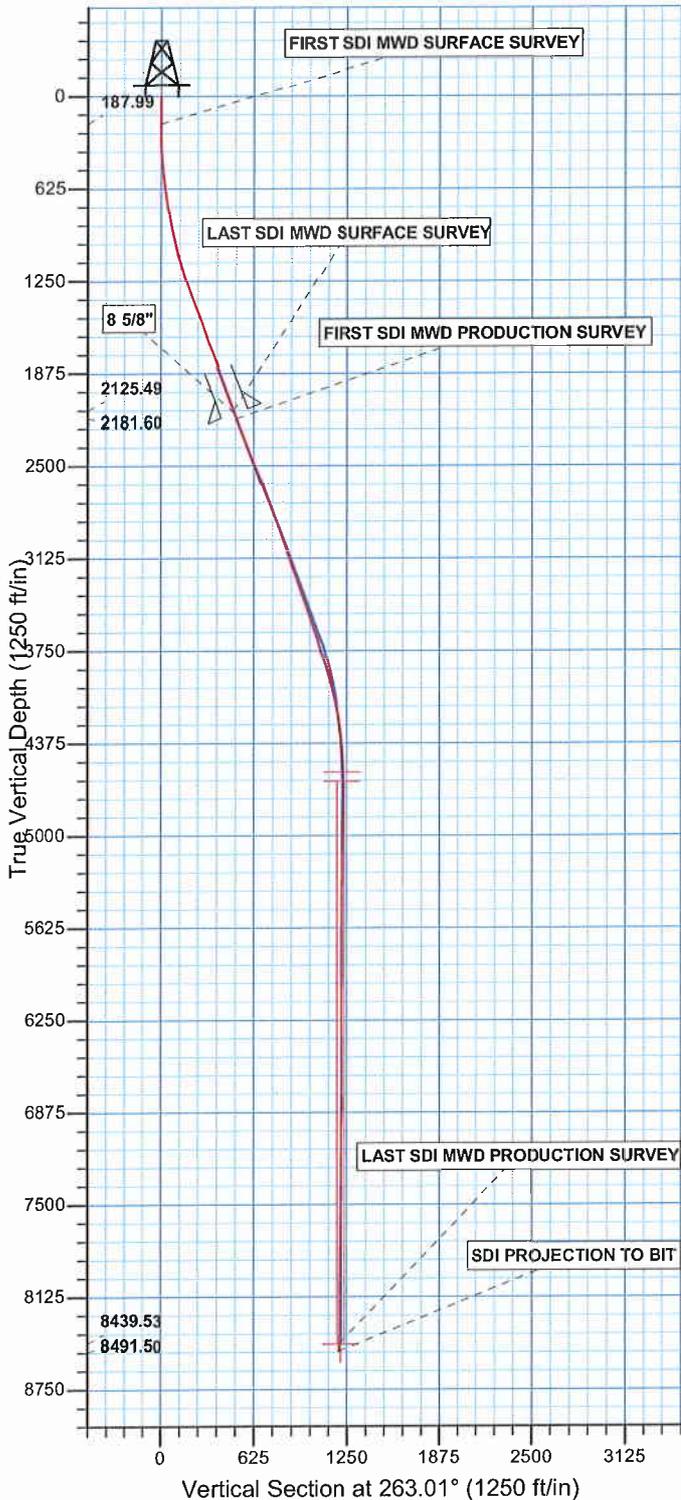
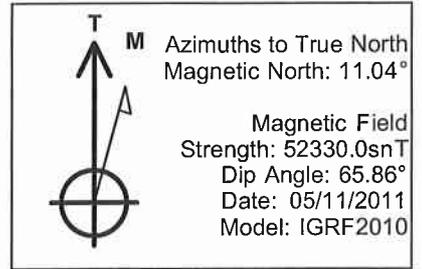
End Date: 1/9/2013

Active Datum: RKB @5,097.00usft (above Mean Sea Level)

UWI: NW/SE/0/10/S/22/E/11/0/0/26/PM/S/1980/E/0/2131/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	7:15 - 15:00	7.75	DRLOUT	44	C	P		<p>SICP 700 PSI, OPEN WELL RIH TAG FILL @ 7,156'.</p> <p>C/O 30' SAND TAG PLUG #4 @ 7,186', DRL HAL 8K CBP IN 6 MIN, 100 PSI INC, FCP 300 PSI, RIH TAG FILL @ 7,426'.</p> <p>C/O 50' SAND TAG PLUG #5 @ 7,476', DRL HAL 8K CBP IN 5 MIN, 700 PSI INC, FCP 400 PSI, RIH TAG FILL @ 7,699'.</p> <p>C/O 30' SAND TAG PLUG #6 @ 7,729', DRL HAL 8K CBP IN 7 MIN, 300 PSI INC, FCP 400 PSI, RIH TAG FILL @ 7,894'.</p> <p>C/O 30' SAND TAG PLUG #7 @ 7,924', DRL HAL 8K CBP IN 5 MIN, 600 PSI INC, FCP 500 PSI, RIH TAG FILL @ 8,064'.</p> <p>C/O 20' SAND TAG PLUG #8 @ 8,084', DRL HAL 8K CBP IN 6 MIN, 500 PSI INC, FCP 600 PSI, RIH TO 8,537' (261' BLW BTM PERF) NO TAG, CIRC CLEAN, RD PWR SWWL, POOH LD 20 JTS TBG, LAND TBG W/ 249 JTS 2 3/8" L-80 EOT @ 7,903.30', RD FLOOR & TBG EQUIP, NDBOP, NUWH, DROP BALL POBS @ 1,900 PSI, PRESS TEST FLOWLINE BETWEEN HAL 9,000 & WELLHEAD TO 3,000 PSI, LET BIT FAL 20 MIN TURN OVER TO FBC, RDMO, SDFN.</p> <p>KB-19' HANGER-.83' 249 JTS 2 3/8" L-80-7,881.27' POBS W/ XN SN-2.20' EOT @ 7,903.30'</p> <p>283 JTS DEL 249 JTS USED 34 JTS RET</p> <p>TWTR=9,554 BBLS TWR=2,036 BBLS TWLTR=7,518 BBLS</p>
	15:00 - 15:00	0.00	DRLOUT	50				<p>WELL TURNED TO SALES@ 1400 HR ON 1/9/2013, 2000 MCFD, 1560 BWPD, FCP 1800#, FTP 1800#, 20/64" CK.</p>
1/13/2013	7:00 -			50				<p>WELL IP'D ON 1/13/13 - 1075 MCFD, 0 BWPD, 0 BOPD, CP 875#, FTP 1200#, LP 528#, 24 HRS, CK 20/64</p>

WELL DETAILS: NBU 1022-11K4BS					
GL 5078 & KB 19 @ 5097.00ft (PIONEER 54)					
+N-S 0.00	+E-W 0.00	Northing 14516089.70	Easting 2087456.33	Latitude 39.961683	Longitude -109.404690



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 11 T10S R22E System Datum: Mean Sea Level

Design: OH (NBU 1022-11K4BS/OH)
Created By: Gabe Kendall Date: 11:57, September 19 2012



Kerr McGee Oil and Gas Onshore LP

**Uintah County, UT UTM12
NBU 1022-11J PAD
NBU 1022-11K4BS**

OH

Design: OH

Standard Survey Report

19 September, 2012

Company:	Kerr McGee Oil and Gas Onshore LP	Local Co-ordinate Reference:	Well NBU 1022-11K4BS
Project:	Uintah County, UT UTM12	TVD Reference:	GL 5078 & KB 19 @ 5097.00ft (PIONEER 54)
Site:	NBU 1022-11J PAD	MD Reference:	GL 5078 & KB 19 @ 5097.00ft (PIONEER 54)
Well:	NBU 1022-11K4BS	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 Feet)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 - Western US		
Map Zone:	Zone 12N (114 W to 108 W)		

Site	NBU 1022-11J PAD, SECTION 11 T10S R22E				
Site Position:		Northing:	14,516,109.41 usft	Latitude:	39.961737
From:	Lat/Long	Easting:	2,087,458.22 usft	Longitude:	-109.404682
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence:	1.02 °

Well	NBU 1022-11K4BS, 1980 FSL 2131 FEL					
Well Position	+N-S	0.00 ft	Northing:	14,516,089.71 usft	Latitude:	39.961683
	+E-W	0.00 ft	Easting:	2,087,456.33 usft	Longitude:	-109.404690
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	5,078.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	05/11/11	11.04	65.86	52,330

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	263.01	

Survey Program	Date	09/19/12			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
15.00	2,200.00	Survey #1 SDI MWD SURFACE (OH)	MWD SDI	MWD - Standard ver 1.0.1	
2,260.00	8,688.00	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)	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
15.00	0.00	0.00	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
188.00	0.88	213.85	187.99	-1.10	-0.74	0.87	0.51	0.51	0.00	
FIRST SDI MWD SURFACE SURVEY										
273.00	0.97	246.37	272.98	-1.93	-1.76	1.98	0.62	0.11	38.26	
356.00	2.46	271.42	355.94	-2.17	-4.19	4.42	1.97	1.80	30.18	
446.00	4.31	271.33	445.78	-2.04	-9.50	9.68	2.06	2.06	-0.10	
536.00	6.16	259.91	535.41	-2.81	-17.64	17.85	2.35	2.06	-12.69	
626.00	7.39	262.28	624.78	-4.44	-28.13	28.46	1.40	1.37	2.63	
716.00	8.15	262.70	713.95	-6.02	-40.19	40.62	0.85	0.84	0.47	

Company:	Kerr McGee Oil and Gas Onshore LP	Local Co-ordinate Reference:	Well NBU 1022-11K4BS
Project:	Uintah County, UT UTM12	TVD Reference:	GL 5078 & KB 19 @ 5097.00ft (PIONEER 54)
Site:	NBU 1022-11J PAD	MD Reference:	GL 5078 & KB 19 @ 5097.00ft (PIONEER 54)
Well:	NBU 1022-11K4BS	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)
806.00	9.85	263.25	802.84	-7.74	-54.16	54.70	1.89	1.89	0.61
896.00	11.49	262.83	891.28	-9.76	-70.70	71.36	1.82	1.82	-0.47
986.00	13.10	262.28	979.21	-12.25	-89.70	90.53	1.79	1.79	-0.61
1,076.00	14.86	263.60	1,066.54	-14.91	-111.28	112.27	1.99	1.96	1.47
1,166.00	17.50	263.86	1,152.97	-17.64	-136.21	137.34	2.93	2.93	0.29
1,256.00	18.91	263.16	1,238.46	-20.83	-164.14	165.46	1.59	1.57	-0.78
1,346.00	19.87	263.16	1,323.36	-24.39	-193.81	195.34	1.07	1.07	0.00
1,436.00	20.14	263.77	1,407.93	-27.89	-224.40	226.13	0.38	0.30	0.68
1,526.00	21.19	262.36	1,492.14	-31.73	-255.92	257.88	1.29	1.17	-1.57
1,616.00	19.61	261.93	1,576.49	-36.02	-287.00	289.25	1.76	-1.76	-0.48
1,706.00	19.64	263.76	1,661.26	-39.78	-316.99	319.48	0.68	0.03	2.03
1,796.00	19.96	263.86	1,745.94	-43.07	-347.30	349.96	0.36	0.36	0.11
1,886.00	20.37	262.16	1,830.42	-46.85	-378.09	380.98	0.79	0.46	-1.89
1,976.00	20.02	261.83	1,914.89	-51.17	-408.86	412.04	0.41	-0.39	-0.37
2,066.00	19.35	263.86	1,999.63	-54.96	-438.93	442.36	1.06	-0.74	2.26
2,156.00	20.31	264.48	2,084.29	-58.05	-469.30	472.88	1.09	1.07	0.69
2,200.00	20.84	265.53	2,125.49	-59.40	-484.71	488.33	1.47	1.20	2.39
LAST SDI MWD SURFACE SURVEY									
2,260.00	20.66	264.87	2,181.60	-61.18	-505.89	509.57	0.49	-0.30	-1.10
FIRST SDI MWD PRODUCTION SURVEY									
2,323.00	20.58	263.20	2,240.56	-63.48	-527.95	531.76	0.94	-0.13	-2.65
2,418.00	20.49	263.20	2,329.52	-67.43	-561.04	565.08	0.09	-0.09	0.00
2,513.00	21.28	263.03	2,418.28	-71.49	-594.67	598.95	0.83	0.83	-0.18
2,607.00	21.72	262.15	2,505.74	-75.93	-628.83	633.40	0.58	0.47	-0.94
2,702.00	23.13	264.70	2,593.56	-80.06	-664.82	669.63	1.80	1.48	2.68
2,797.00	21.72	264.35	2,681.37	-83.51	-700.90	705.85	1.49	-1.48	-0.37
2,892.00	20.31	262.59	2,770.05	-87.37	-734.74	739.91	1.63	-1.48	-1.85
2,987.00	18.91	262.58	2,859.54	-91.49	-766.36	771.80	1.47	-1.47	-0.01
3,082.00	18.73	261.80	2,949.46	-95.65	-796.72	802.44	0.33	-0.19	-0.82
3,177.00	19.70	259.25	3,039.17	-100.81	-827.55	833.67	1.35	1.02	-2.68
3,272.00	19.17	259.60	3,128.75	-106.61	-858.62	865.21	0.57	-0.56	0.37
3,367.00	19.26	258.90	3,218.46	-112.45	-889.34	896.41	0.26	0.09	-0.74
3,461.00	18.47	257.40	3,307.41	-118.68	-919.08	926.69	0.99	-0.84	-1.60
3,556.00	19.79	259.51	3,397.17	-124.89	-949.58	957.72	1.57	1.39	2.22
3,651.00	19.68	260.86	3,486.59	-130.36	-981.19	989.76	0.49	-0.12	1.42
3,746.00	19.87	263.47	3,575.99	-134.74	-1,013.03	1,021.89	0.95	0.20	2.75
3,841.00	16.09	259.16	3,666.33	-139.05	-1,042.01	1,051.18	4.22	-3.98	-4.54
3,936.00	16.97	261.80	3,757.41	-143.50	-1,068.66	1,078.18	1.22	0.93	2.78
4,031.00	16.44	263.82	3,848.40	-146.93	-1,095.75	1,105.48	0.83	-0.56	2.13
4,126.00	15.56	260.92	3,939.72	-150.39	-1,121.69	1,131.66	1.25	-0.93	-3.05
4,221.00	14.42	263.82	4,031.49	-153.67	-1,146.04	1,156.22	1.44	-1.20	3.05
4,315.00	12.93	260.92	4,122.82	-156.59	-1,168.06	1,178.43	1.74	-1.59	-3.09
4,410.00	9.32	258.46	4,216.02	-159.81	-1,186.10	1,196.73	3.83	-3.80	-2.59

Company:	Kerr McGee Oil and Gas Onshore LP	Local Co-ordinate Reference:	Well NBU 1022-11K4BS
Project:	Uintah County, UT UTM12	TVD Reference:	GL 5078 & KB 19 @ 5097.00ft (PIONEER 54)
Site:	NBU 1022-11J PAD	MD Reference:	GL 5078 & KB 19 @ 5097.00ft (PIONEER 54)
Well:	NBU 1022-11K4BS	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)
4,505.00	6.86	255.38	4,310.07	-162.78	-1,199.13	1,210.02	2.63	-2.59	-3.24
4,600.00	5.28	257.14	4,404.53	-165.18	-1,208.88	1,220.00	1.67	-1.66	1.85
4,695.00	2.64	250.72	4,499.30	-166.88	-1,215.21	1,226.48	2.81	-2.78	-6.76
4,790.00	0.35	279.29	4,594.26	-167.55	-1,217.56	1,228.90	2.46	-2.41	30.07
4,884.00	1.06	43.65	4,688.25	-166.88	-1,217.24	1,228.50	1.37	0.76	132.30
4,979.00	1.14	51.04	4,783.24	-165.65	-1,215.90	1,227.02	0.17	0.08	7.78
5,074.00	1.14	69.14	4,878.22	-164.72	-1,214.28	1,225.30	0.38	0.00	19.05
5,168.00	1.06	58.68	4,972.20	-163.93	-1,212.67	1,223.60	0.23	-0.09	-11.13
5,263.00	0.97	81.89	5,067.19	-163.36	-1,211.12	1,222.00	0.44	-0.09	24.43
5,358.00	1.19	99.66	5,162.17	-163.42	-1,209.35	1,220.25	0.42	0.23	18.71
5,452.00	1.13	107.15	5,256.15	-163.85	-1,207.50	1,218.47	0.17	-0.06	7.97
5,547.00	0.97	117.66	5,351.14	-164.50	-1,205.90	1,216.95	0.26	-0.17	11.06
5,641.00	1.41	130.05	5,445.12	-165.62	-1,204.31	1,215.51	0.54	0.47	13.18
5,737.00	1.23	124.60	5,541.09	-166.96	-1,202.55	1,213.93	0.23	-0.19	-5.68
5,832.00	1.23	130.14	5,636.07	-168.20	-1,200.94	1,212.48	0.13	0.00	5.83
5,927.00	0.44	137.34	5,731.06	-169.12	-1,199.91	1,211.57	0.84	-0.83	7.58
6,021.00	0.35	137.87	5,825.05	-169.60	-1,199.47	1,211.19	0.10	-0.10	0.56
6,116.00	1.32	292.38	5,920.05	-169.40	-1,200.29	1,211.98	1.73	1.02	162.64
6,211.00	1.14	289.75	6,015.03	-168.66	-1,202.19	1,213.78	0.20	-0.19	-2.77
6,306.00	0.97	280.87	6,110.01	-168.19	-1,203.87	1,215.39	0.25	-0.18	-9.35
6,401.00	0.53	261.53	6,205.00	-168.11	-1,205.09	1,216.59	0.53	-0.46	-20.36
6,496.00	0.62	246.07	6,300.00	-168.38	-1,206.00	1,217.52	0.19	0.09	-16.27
6,591.00	0.70	209.94	6,394.99	-169.09	-1,206.76	1,218.36	0.44	0.08	-38.03
6,686.00	0.70	162.39	6,489.98	-170.15	-1,206.87	1,218.61	0.59	0.00	-50.05
6,780.00	0.26	330.70	6,583.98	-170.51	-1,206.80	1,218.58	1.02	-0.47	179.05
6,875.00	0.44	314.18	6,678.98	-170.07	-1,207.17	1,218.89	0.22	0.19	-17.39
6,970.00	1.58	32.75	6,773.97	-168.71	-1,206.72	1,218.28	1.64	1.20	82.71
7,064.00	1.23	44.27	6,867.94	-166.90	-1,205.32	1,216.67	0.48	-0.37	12.26
7,159.00	0.88	54.82	6,962.92	-165.75	-1,204.01	1,215.23	0.42	-0.37	11.11
7,254.00	1.06	65.63	7,057.91	-164.96	-1,202.61	1,213.75	0.27	0.19	11.38
7,349.00	0.88	72.66	7,152.90	-164.38	-1,201.12	1,212.19	0.23	-0.19	7.40
7,444.00	0.79	92.17	7,247.89	-164.19	-1,199.76	1,210.83	0.31	-0.09	20.54
7,539.00	0.66	76.56	7,342.88	-164.09	-1,198.58	1,209.64	0.25	-0.14	-16.43
7,634.00	0.61	114.28	7,437.87	-164.17	-1,197.58	1,208.66	0.43	-0.05	39.71
7,729.00	0.77	128.58	7,532.87	-164.78	-1,196.62	1,207.78	0.25	0.17	15.05
7,824.00	0.78	141.31	7,627.86	-165.68	-1,195.72	1,207.00	0.18	0.01	13.40
7,918.00	1.23	141.83	7,721.84	-166.97	-1,194.70	1,206.14	0.48	0.48	0.55
8,013.00	1.58	152.73	7,816.81	-168.94	-1,193.47	1,205.16	0.46	0.37	11.47
8,108.00	2.09	152.47	7,911.77	-171.64	-1,192.07	1,204.09	0.54	0.54	-0.27
8,203.00	2.35	152.59	8,006.69	-174.90	-1,190.37	1,202.81	0.27	0.27	0.13
8,297.00	1.06	166.96	8,100.65	-177.46	-1,189.29	1,202.04	1.44	-1.37	15.29
8,392.00	1.29	160.58	8,195.63	-179.32	-1,188.73	1,201.72	0.28	0.24	-6.72
8,487.00	1.32	163.98	8,290.61	-181.38	-1,188.08	1,201.32	0.09	0.03	3.58
8,582.00	1.99	156.81	8,385.57	-183.95	-1,187.12	1,200.68	0.74	0.71	-7.55

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Site:	NBU 1022-11J PAD	MD Reference:	GL 5078 & KB 19 @ 5097.00ft (PIONEER 54)
Well:	NBU 1022-11K4BS	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)
8,636.00	2.02	133.57	8,439.53	-185.47	-1,186.06	1,199.82	1.50	0.06	-43.04
LAST SDI MWD PRODUCTION SURVEY									
8,688.00	2.02	133.57	8,491.50	-186.73	-1,184.74	1,198.65	0.00	0.00	0.00
SDI PROJECTION TO BIT									

Casing Points				
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)
2,221.00	2,145.12	8 5/8"	8.625	11.000

Design Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
188.00	187.99	-1.10	-0.74	FIRST SDI MWD SURFACE SURVEY
2,200.00	2,125.49	-59.40	-484.71	LAST SDI MWD SURFACE SURVEY
2,260.00	2,181.60	-61.18	-505.89	FIRST SDI MWD PRODUCTION SURVEY
8,636.00	8,439.53	-185.47	-1,186.06	LAST SDI MWD PRODUCTION SURVEY
8,688.00	8,491.50	-186.73	-1,184.74	SDI PROJECTION TO BIT

Checked By: _____ Approved By: _____ Date: _____