

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 1022-1A1BS
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) UTU-011336	11. MINERAL OWNERSHIP FEDERAL <input checked="" type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>	
12. SURFACE OWNERSHIP FEDERAL <input checked="" type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input 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	1030 FNL 663 FEL	NENE	1	10.0 S	22.0 E	S
Top of Uppermost Producing Zone	99 FNL 498 FEL	NENE	1	10.0 S	22.0 E	S
At Total Depth	99 FNL 498 FEL	NENE	1	10.0 S	22.0 E	S

21. COUNTY UINTAH	22. DISTANCE TO NEAREST LEASE LINE (Feet) 99	23. NUMBER OF ACRES IN DRILLING UNIT 523
24. ELEVATION - GROUND LEVEL 5080	25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 1055	26. PROPOSED DEPTH MD: 8748 TVD: 8602
27. BOND NUMBER WYB000291	29. 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	12.25	8.625	0 - 2280	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 - 8748	11.6	I-80 LT&C	12.5	Premium Lite High Strength	280	3.38	11.0
							50/50 Poz	1190	1.31	14.3

ATTACHMENTS

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

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

NAME Gina Becker	TITLE Regulatory Analyst II	PHONE 720 929-6086
SIGNATURE	DATE 02/03/2012	EMAIL gina.becker@anadarko.com
API NUMBER ASSIGNED 43047523350000	APPROVAL  Permit Manager	

Kerr-McGee Oil & Gas Onshore. L.P.**NBU 1022-1A1BS**

Surface: 1030 FNL / 663 FEL NENE
 BHL: 99 FNL / 498 FEL NENE

Section 1 T10S R22E

Uintah County, Utah
 Mineral Lease: UTU-011336

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	1188	
Birds Nest	1458	Water
Mahogany	1825	Water
Wasatch	4237	Gas
Mesaverde	6432	Gas
MVU2	7387	Gas
MVL1	7987	Gas
TVD	8602	
TD	8748	

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

9/28/2011

RECEIVED: January 31, 2012

7. Abnormal Conditions:

Maximum anticipated bottom hole pressure calculated at 8602' TVD, approximately equals

$$\frac{5,505 \text{ psi}}{\text{Maximum Anticipated Bottom Hole Pressure (MABHP) = Pore Pressure at TD}} \quad (0.64 \text{ psi/ft} = \text{actual bottomhole gradient})$$

Maximum anticipated surface pressure equals approximately 3,601 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

9/28/2011

RECEIVED: January 31, 2012

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

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

Variance for FIT Requirements

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

Conclusion

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

10. **Other Information:**

Please refer to the attached Drilling Program.



KERR-McGEE OIL & GAS ONSHORE LP
DRILLING PROGRAM

CASING PROGRAM

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS			
						BURST	LTC		DQX
							COLLAPSE	TENSION	
CONDUCTOR	14"	0-40'							
SURFACE	8-5/8"	0 to 2,280	28.00	IJ-55	LTC	3,390	1,880	348,000	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	1.14		3.25
						1.11	1.14	6.34	

Surface casing:

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

Production casing:

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

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE Option 1	LEAD	500'	Premium cmt + 2% CaCl + 0.25 pps flocele	180	60%	15.80	1.15
	TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt + 2% CaCl + 0.25 pps flocele	270	0%	15.80	1.15
NOTE: If well will circulate water to surface, option 2 will be utilized							
SURFACE Option 2	LEAD	1,780'	65/35 Poz + 6% Gel + 10 pps gilsonite + 0.25 pps Flocele + 3% salt BWOW	160	35%	11.00	3.82
	TAIL	500'	Premium cmt + 2% CaCl + 0.25 pps flocele	150	35%	15.80	1.15
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.80	1.15
PRODUCTION	LEAD	3,728'	Premium Lite II +0.25 pps celloflake + 5 pps gilsonite + 10% gel + 0.5% extender	280	20%	11.00	3.38
	TAIL	5,020'	50/50 Poz/G + 10% salt + 2% gel + 0.1% R-3	1,190	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

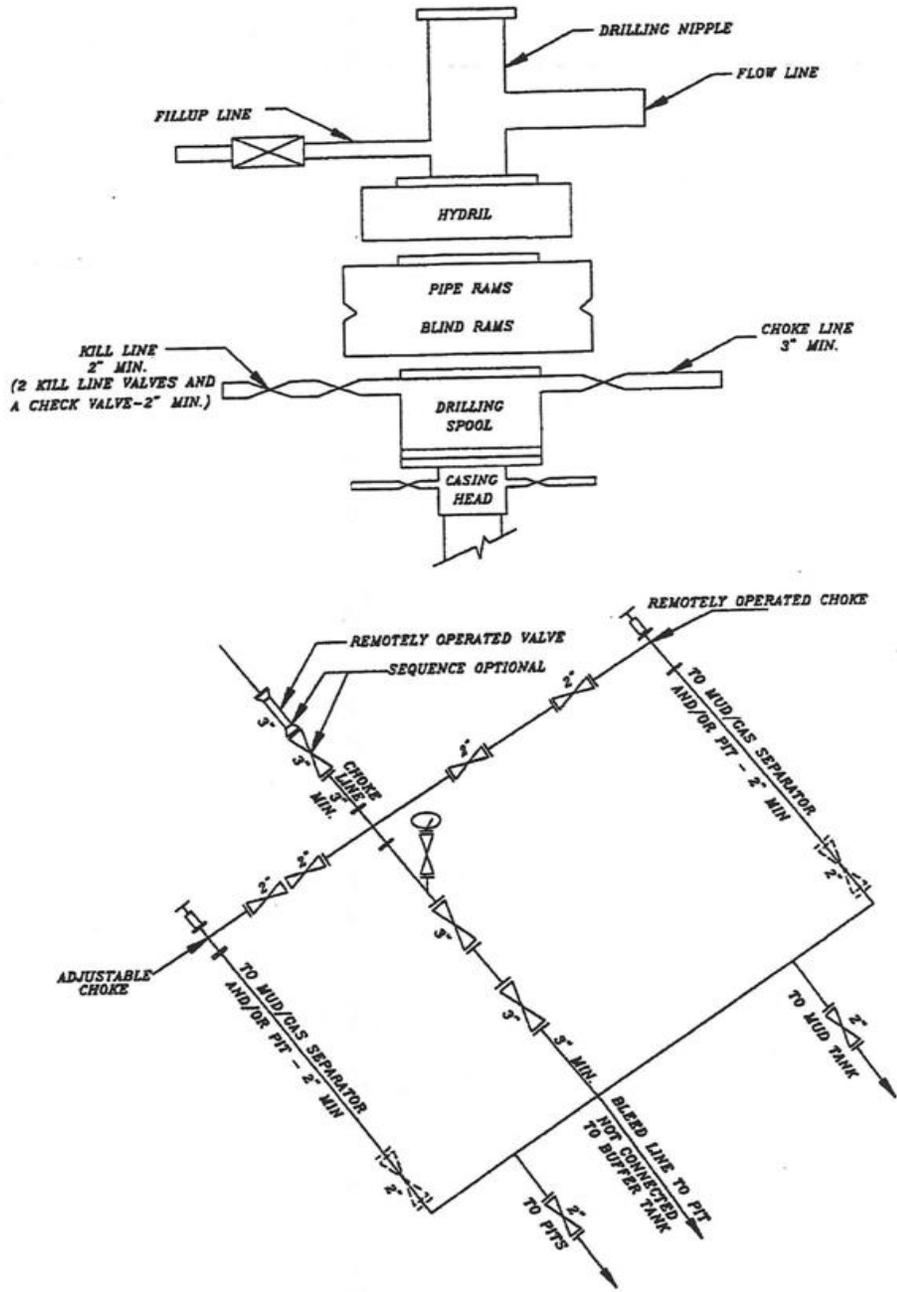
SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe
PRODUCTION	Float shoe, 1 jt, float collar. No centralizers will be used.

ADDITIONAL INFORMATION

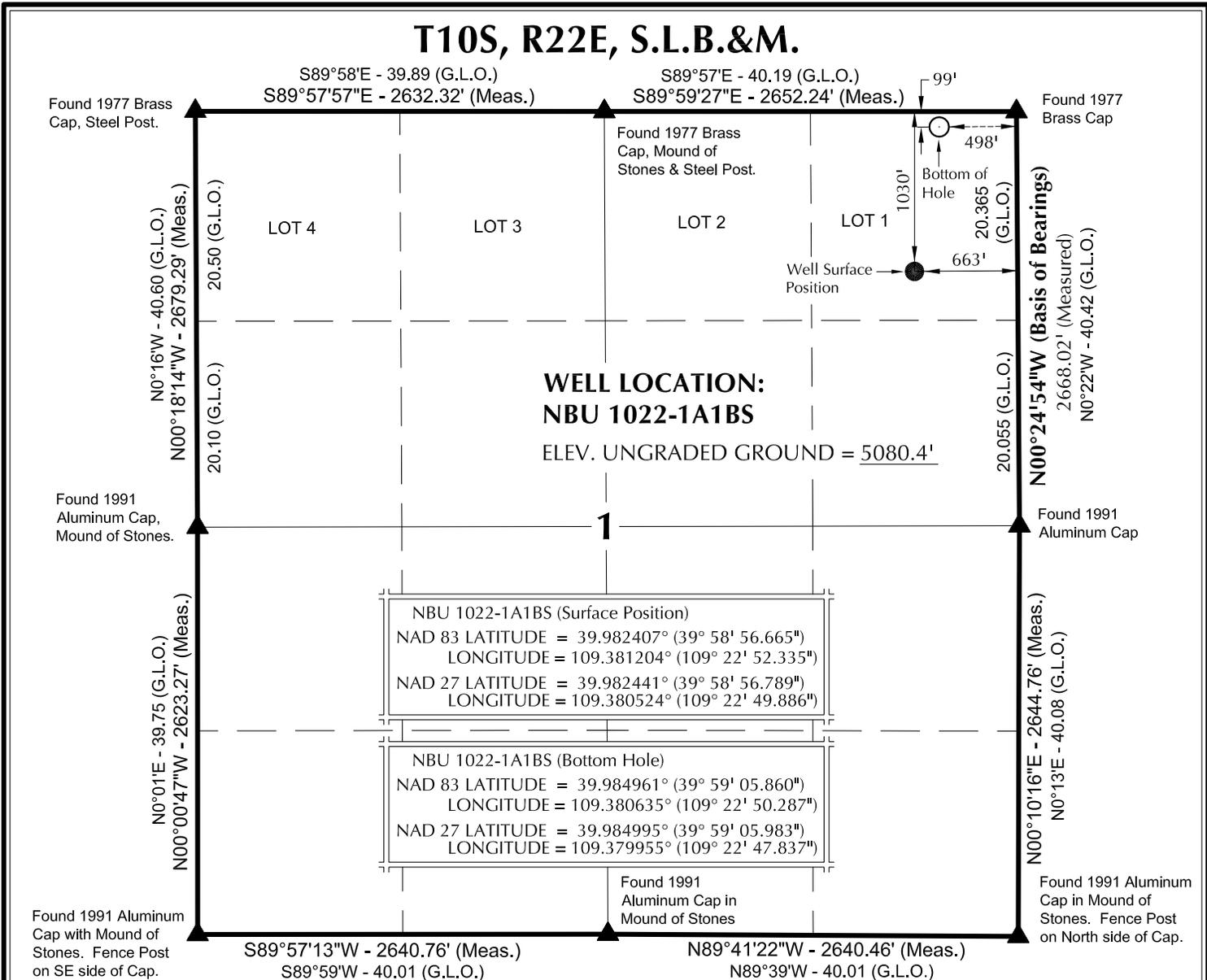
Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.
 BOPE: 11" 5M with one annular and 2 rams. The BOPE will be installed before the production hole is drilled and tested to 5,000 psi (annular to 2,500 psi) prior to drilling out the surface casing shoe. 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: _____ **DATE:** _____
 Nick Spence / Danny Showers / Chad Loesel
DRILLING SUPERINTENDENT: _____ **DATE:** _____
 Kenny Gathings / Lovel Young

EXHIBIT A NBU 1022-1A1BS

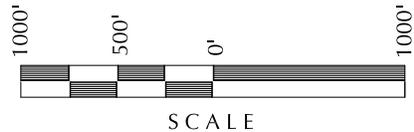


T10S, R22E, S.L.B.&M.



NOTES:

- ▲ = Section Corners Located
- 1. Well footages are measured at right angles to the Section Lines.
- 2. G.L.O. distances are shown in feet or chains.
1 chain = 66 feet.
- 3. The Bottom of hole bears N09°40'22"E 944.18' from the Surface Position.
- 4. Bearings are based on Global Positioning Satellite observations.
- 5. Basis of elevation is Tri-Sta "Two Water" located in the NW ¼ of Section 1, T10S, R21E, S.L.B.&M. The elevation of this Tri-Sta is shown on the Big Pack Mtn NE 7.5 Min. Quadrangle as being 5238'.



SURVEYOR'S CERTIFICATE

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

John R. Laugh
 PROFESSIONAL LAND SURVEYOR
 REGISTRATION No. 6028691
 STATE OF UTAH 3-2-11

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

WELL PAD: NBU 1022-1A

**NBU 1022-1A1BS
WELL PLAT**

99' FNL, 498' FEL (Bottom Hole)

**LOT 1 OF SECTION 1, T10S, R22E,
S.L.B.&M., UTAH COUNTY, UTAH.**

609

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

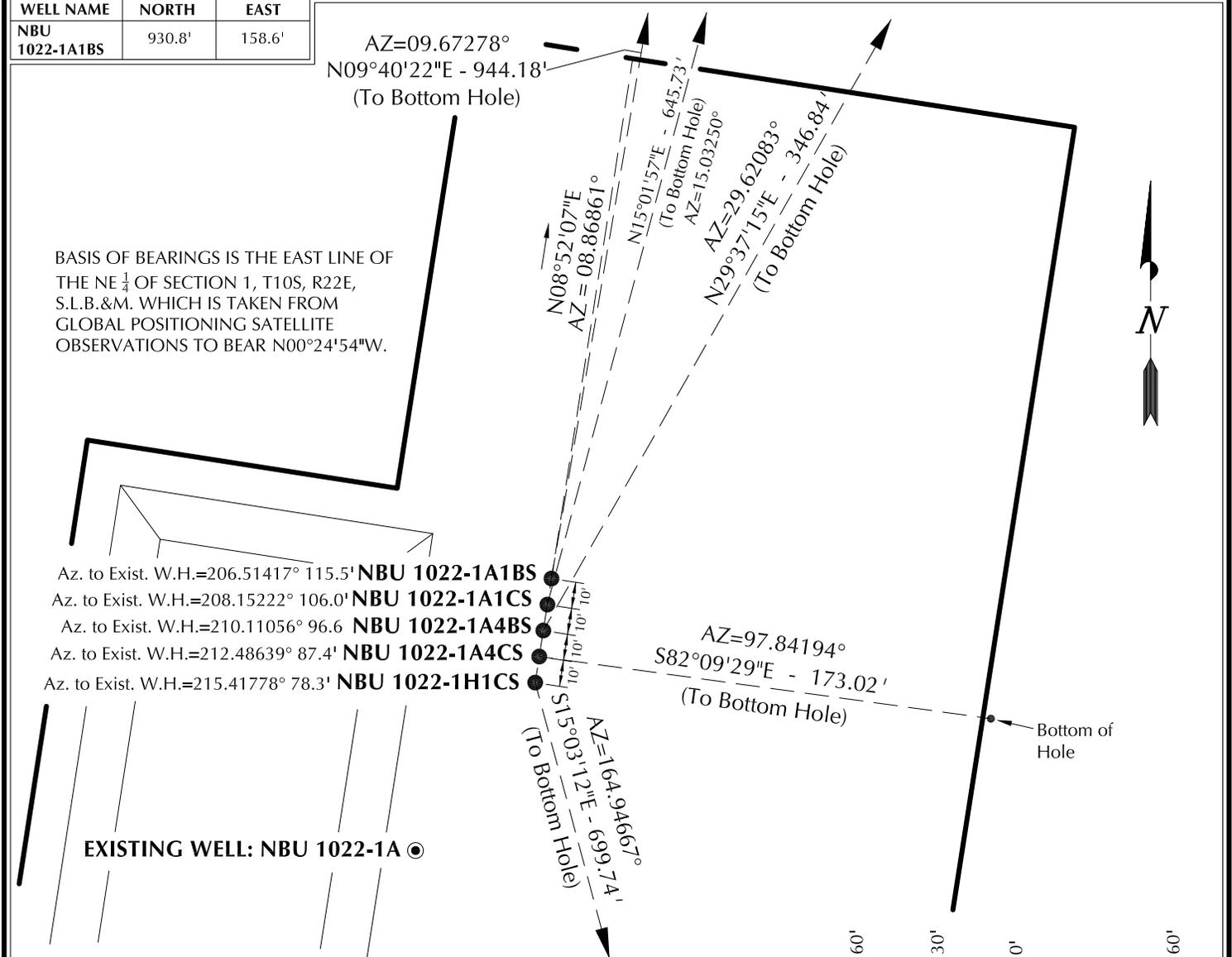
TIMBERLINE (435) 789-1365
ENGINEERING & LAND SURVEYING, INC.
 209 NORTH 300 WEST - VERNAL, UTAH 84078

DATE SURVEYED: 02-25-11	SURVEYED BY: M.S.B.	SHEET NO: 5
DATE DRAWN: 02-25-11	DRAWN BY: M.W.W.	
SCALE: 1" = 1000'		5 OF 17

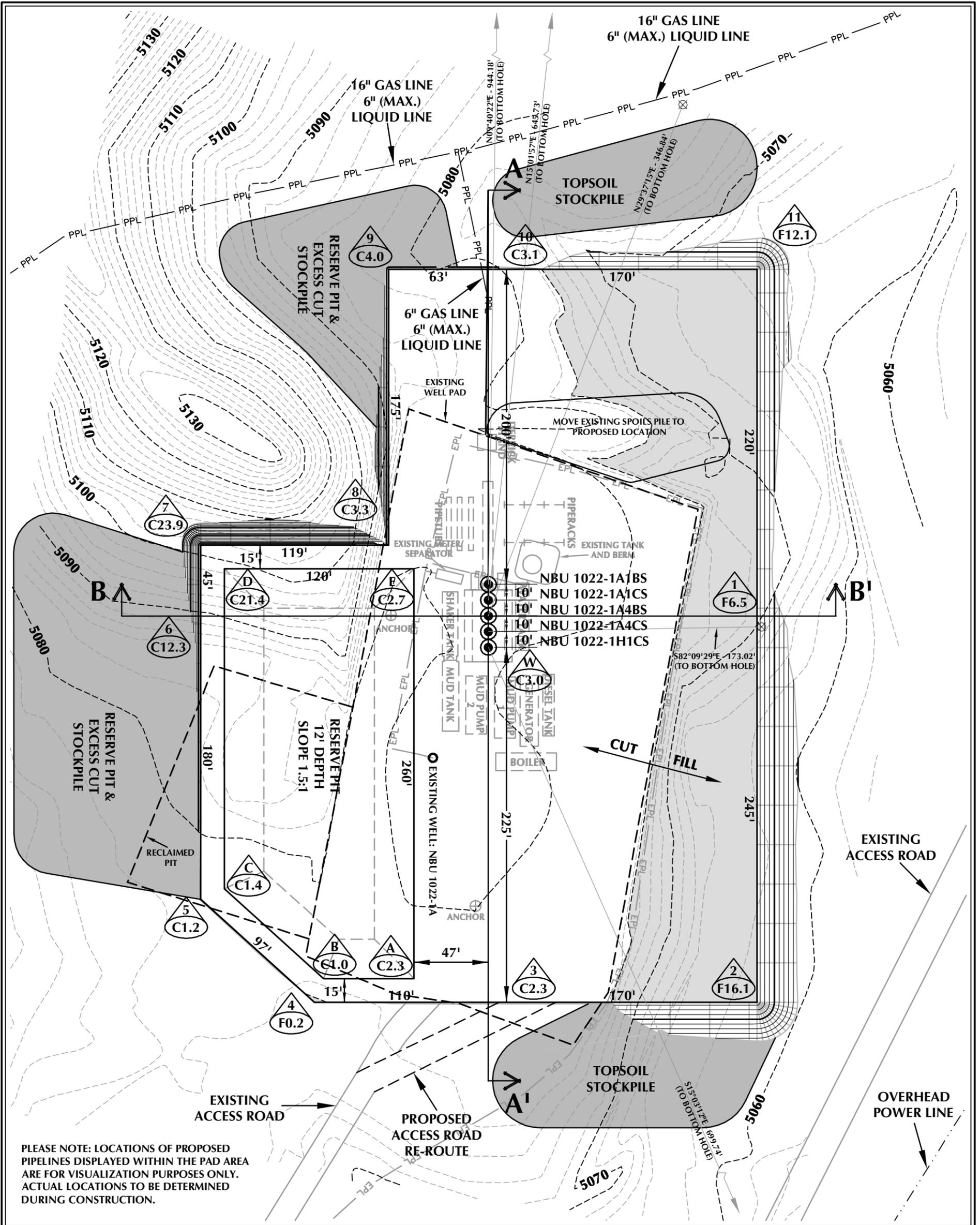
WELL NAME	SURFACE POSITION					BOTTOM HOLE				
	NAD83		NAD27		FOOTAGES	NAD83		NAD27		FOOTAGES
	LATITUDE	LONGITUDE	LATITUDE	LONGITUDE		LATITUDE	LONGITUDE	LATITUDE	LONGITUDE	
NBU 1022-1H1CS	39°58'56.275"	109°22'52.415"	39°58'56.398"	109°22'49.966"	1069' FNL 670' FEL	39°58'49.597"	109°22'50.089"	39°58'49.721"	109°22'47.640"	1745' FNL 493' FEL
NBU 1022-1A4CS	39°58'56.373"	109°22'52.395"	39°58'56.496"	109°22'49.946"	1059' FNL 668' FEL	39°58'56.138"	109°22'50.194"	39°58'56.261"	109°22'47.745"	1083' FNL 497' FEL
NBU 1022-1A4BS	39°58'56.470"	109°22'52.375"	39°58'56.594"	109°22'49.926"	1050' FNL 667' FEL	39°58'59.447"	109°22'50.170"	39°58'59.571"	109°22'47.721"	748' FNL 493' FEL
NBU 1022-1A1CS	39°58'56.568"	109°22'52.355"	39°58'56.691"	109°22'49.906"	1040' FNL 665' FEL	39°59'02.728"	109°22'50.197"	39°59'02.851"	109°22'47.747"	416' FNL 493' FEL
NBU 1022-1A1BS	39°58'56.665"	109°22'52.335"	39°58'56.789"	109°22'49.886"	1030' FNL 663' FEL	39°59'05.860"	109°22'50.287"	39°59'05.983"	109°22'47.837"	99' FNL 498' FEL
NBU 1022-1A	39°58'55.645"	109°22'52.999"	39°58'55.768"	109°22'50.549"	1133' FNL 716' FEL	39.984961°	109.380635°	39.984995°	109.379955°	

RELATIVE COORDINATES - From Surface Position to Bottom Hole

WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST
NBU 1022-1H1CS	-675.7'	181.7'	NBU 1022-1A4CS	-23.6'	171.4'	NBU 1022-1A4BS	301.5'	171.4'	NBU 1022-1A1CS	623.6'	167.5'



Kerr-McGee Oil & Gas Onshore, LP 1099 18th Street - Denver, Colorado 80202 WELL PAD - NBU 1022-1A WELL PAD INTERFERENCE PLAT WELLS - NBU 1022-1H1CS, NBU 1022-1A4CS, NBU 1022-1A4BS, NBU 1022-1A1CS & NBU 1022-1A1BS LOCATED IN SECTION 1, 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	TIMBERLINE (435) 789-1365 ENGINEERING & LAND SURVEYING, INC. 209 NORTH 300 WEST - VERNAL, UTAH 84078		
		DATE SURVEYED: 02-25-11	SURVEYED BY: M.S.B.	SHEET NO: 6 6 OF 17
SCALE: 1" = 60'		DATE DRAWN: 02-25-11	DRAWN BY: M.W.W.	Date Last Revised:



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

WELL PAD - NBU 1022-1A DESIGN SUMMARY

EXISTING GRADE @ CENTER OF WELL PAD = 5080.3'
 FINISHED GRADE ELEVATION = 5077.3'
 CUT SLOPES = 0.5:1
 FILL SLOPES = 1.5:1
 TOTAL WELL PAD AREA = 3.62 ACRES
 TOTAL DISTURBANCE AREA = 4.96 ACRES
 SHRINKAGE FACTOR = 1.10
 SWELL FACTOR = 1.00

WELL PAD QUANTITIES

TOTAL CUT FOR WELL PAD = 16,220 C.Y.
 TOTAL FILL FOR WELL PAD = 15,693 C.Y.
 TOPSOIL @ 6" DEPTH = 1,694 C.Y.
 EXCESS MATERIAL = 527 C.Y.

RESERVE PIT QUANTITIES

TOTAL CUT FOR RESERVE PIT +/- 10,360 C.Y.
 RESERVE PIT CAPACITY (2' OF FREEBOARD) +/- 39,720 BARRELS

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



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

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

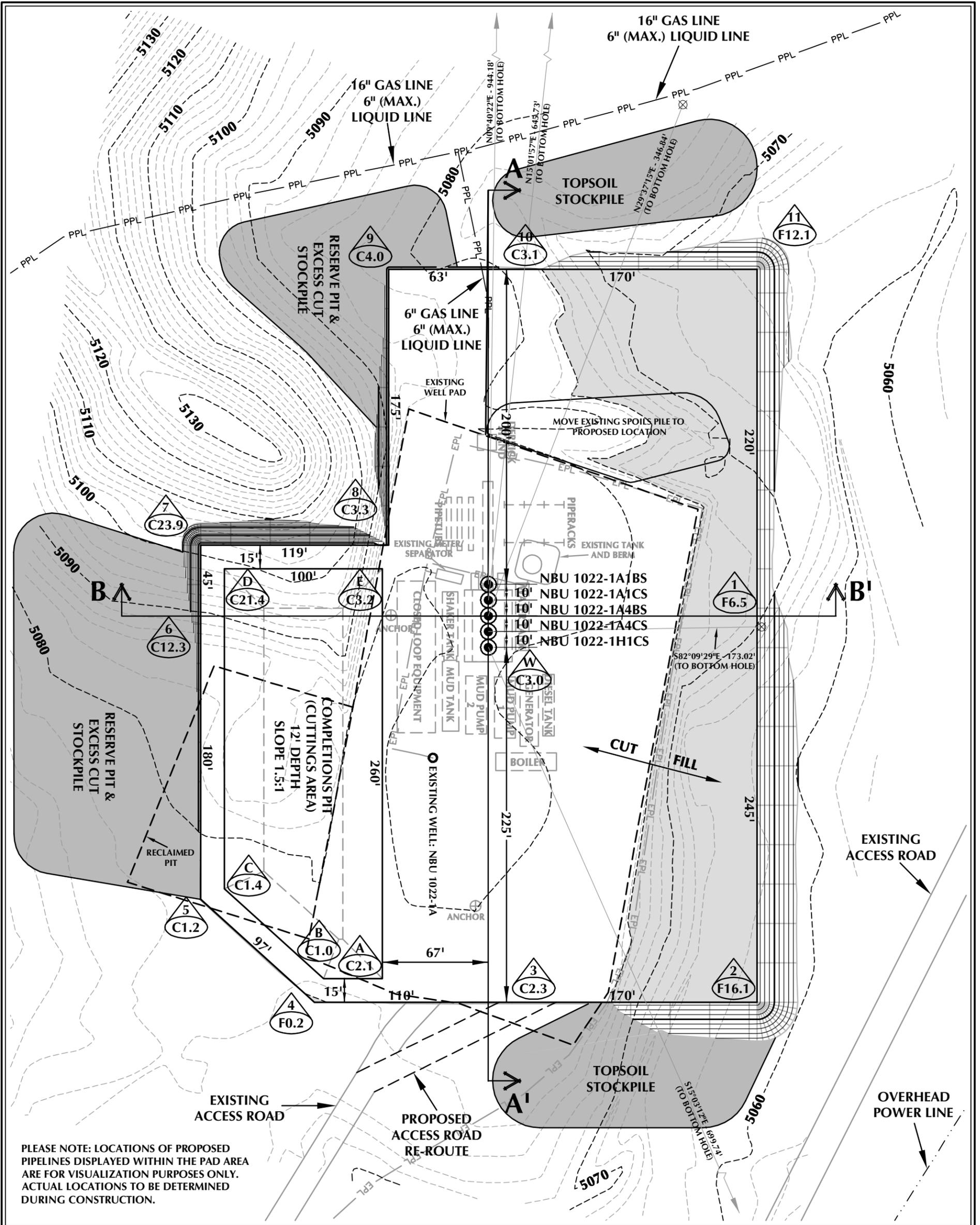
WELL PAD LEGEND

- 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: 5/13/11 SHEET NO: 7 OF 17
 REVISED: JFE 12/7/11



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

WELL PAD - NBU 1022-1A (CLOSED LOOP) DESIGN SUMMARY

EXISTING GRADE @ CENTER OF WELL PAD = 5080.3'
 FINISHED GRADE ELEVATION = 5077.3'
 CUT SLOPES = 0.5:1
 FILL SLOPES = 1.5:1
 TOTAL WELL PAD AREA = 3.62 ACRES
 TOTAL DISTURBANCE AREA = 4.96 ACRES
 SHRINKAGE FACTOR = 1.10
 SWELL FACTOR = 1.00

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

WELL PAD - NBU 1022-1A
WELL PAD - LOCATION LAYOUT
 NBU 1022-1H1CS,
 NBU 1022-1A4CS, NBU 1022-1A4BS,
 NBU 1022-1A1CS & NBU 1022-1A1BS
 LOCATED IN SECTION 1, 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 QUANTITIES

TOTAL CUT FOR WELL PAD = 16,220 C.Y.
 TOTAL FILL FOR WELL PAD = 15,693 C.Y.
 TOPSOIL @ 6" DEPTH = 1,694 C.Y.
 EXCESS MATERIAL = 527 C.Y.

COMPLETIONS PIT QUANTITIES

TOTAL CUT FOR COMPLETIONS PIT
 +/- 8,210 C.Y.
 COMPLETIONS PIT CAPACITY
 (2' OF FREEBOARD)
 +/- 31,200 BARRELS

WELL PAD LEGEND

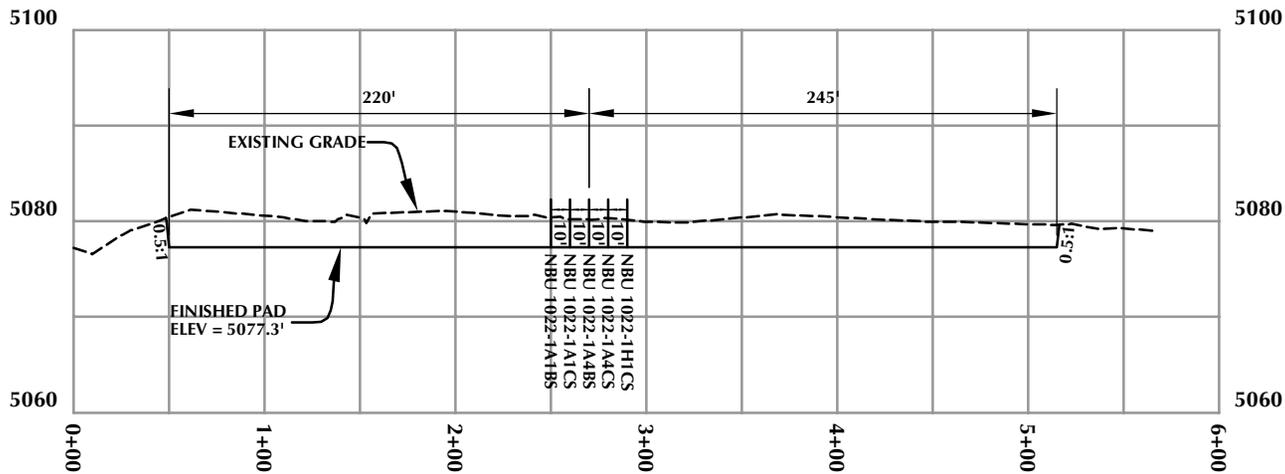
- EXISTING WELL LOCATION
- PROPOSED WELL LOCATION
- PROPOSED BOTTOM HOLE LOCATION
- EXISTING CONTOURS (2' INTERVAL)
- PROPOSED CONTOURS (2' INTERVAL)
- PPL - PROPOSED PIPELINE
- EPL - EXISTING PIPELINE



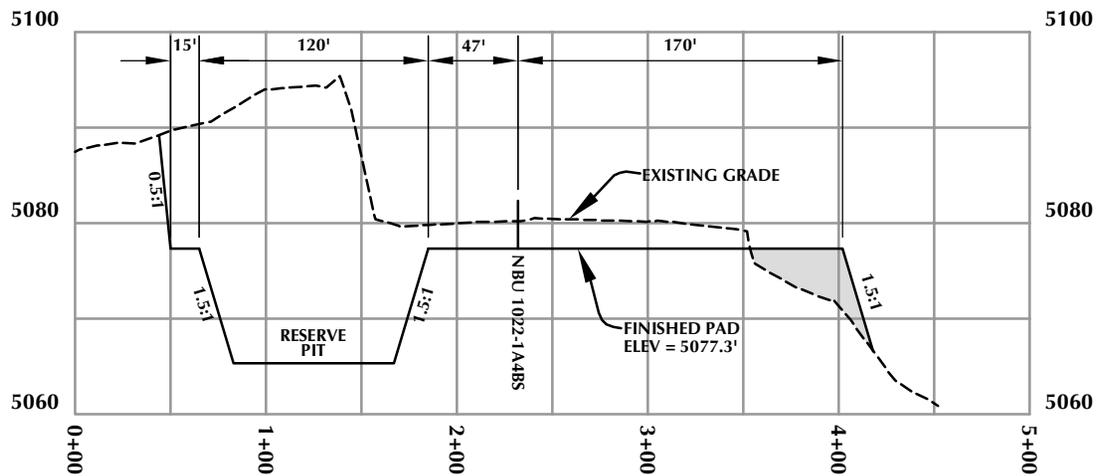
HORIZONTAL 0 30' 60' 1" = 60'
 2' CONTOURS

SCALE: 1"=60' DATE: 10/5/11 SHEET NO:
 REVISED: JFE 12/7/11 **7B** 7B OF 17

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



CROSS SECTION A-A'



CROSS SECTION B-B'

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

WELL PAD - NBU 1022-1A

WELL PAD - CROSS SECTIONS

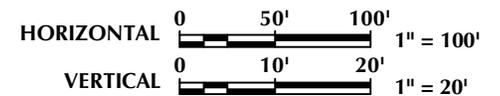
NBU 1022-1H1CS,
NBU 1022-1A4CS, NBU 1022-1A4BS,
NBU 1022-1A1CS & NBU 1022-1A1BS
LOCATED IN SECTION 1, T10S, R22E,
S.L.B.&M., UTAH COUNTY, UTAH



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

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

(435) 789-1365



Scale: 1"=100'

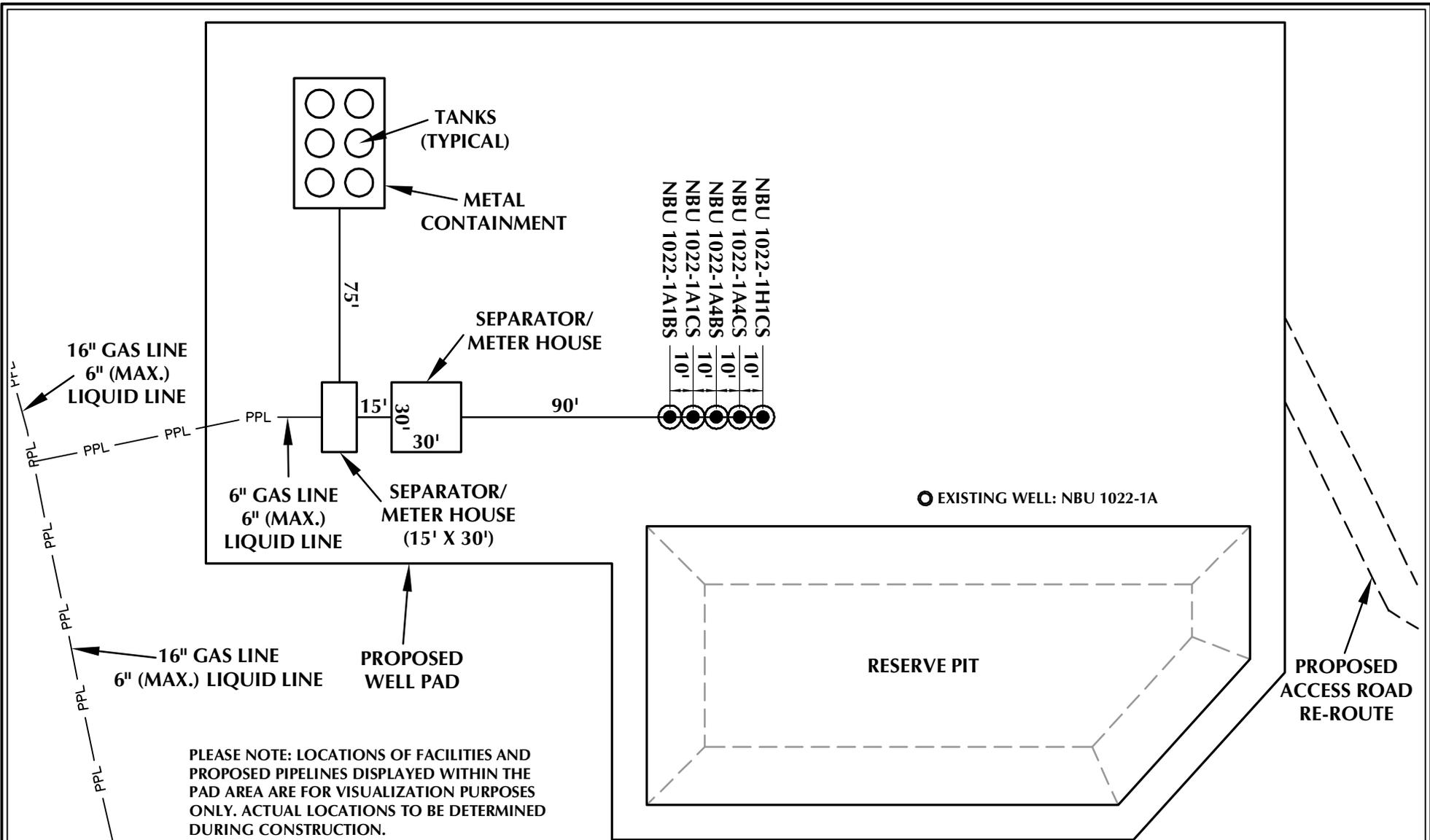
Date: 5/13/11

SHEET NO:

REVISED:

8

8 OF 17



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

WELL PAD - NBU 1022-1A

WELL PAD - FACILITIES DIAGRAM
NBU 1022-1H1CS,
NBU 1022-1A4CS, NBU 1022-1A4BS,
NBU 1022-1A1CS & NBU 1022-1A1BS
LOCATED IN SECTION 1, T10S, R22E,
S.L.B.&M., UTAH COUNTY, UTAH



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

WELL PAD LEGEND

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



HORIZONTAL 1" = 60'

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

Scale: 1"=60'	Date: 5/13/11	SHEET NO:
REVISED:	JID 8/24/11	9 9 OF 17

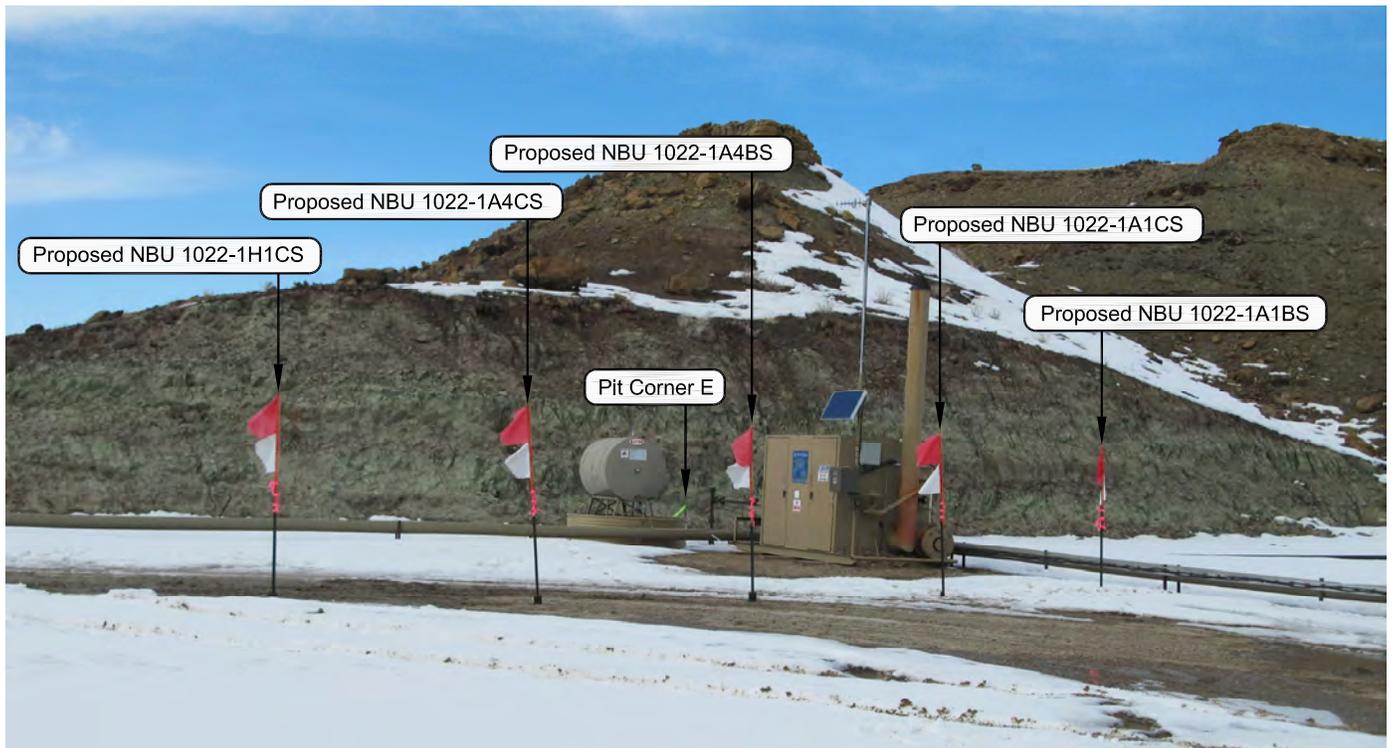


PHOTO VIEW: FROM LOCATION STAKE TO PIT CORNER E

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 1022-1A

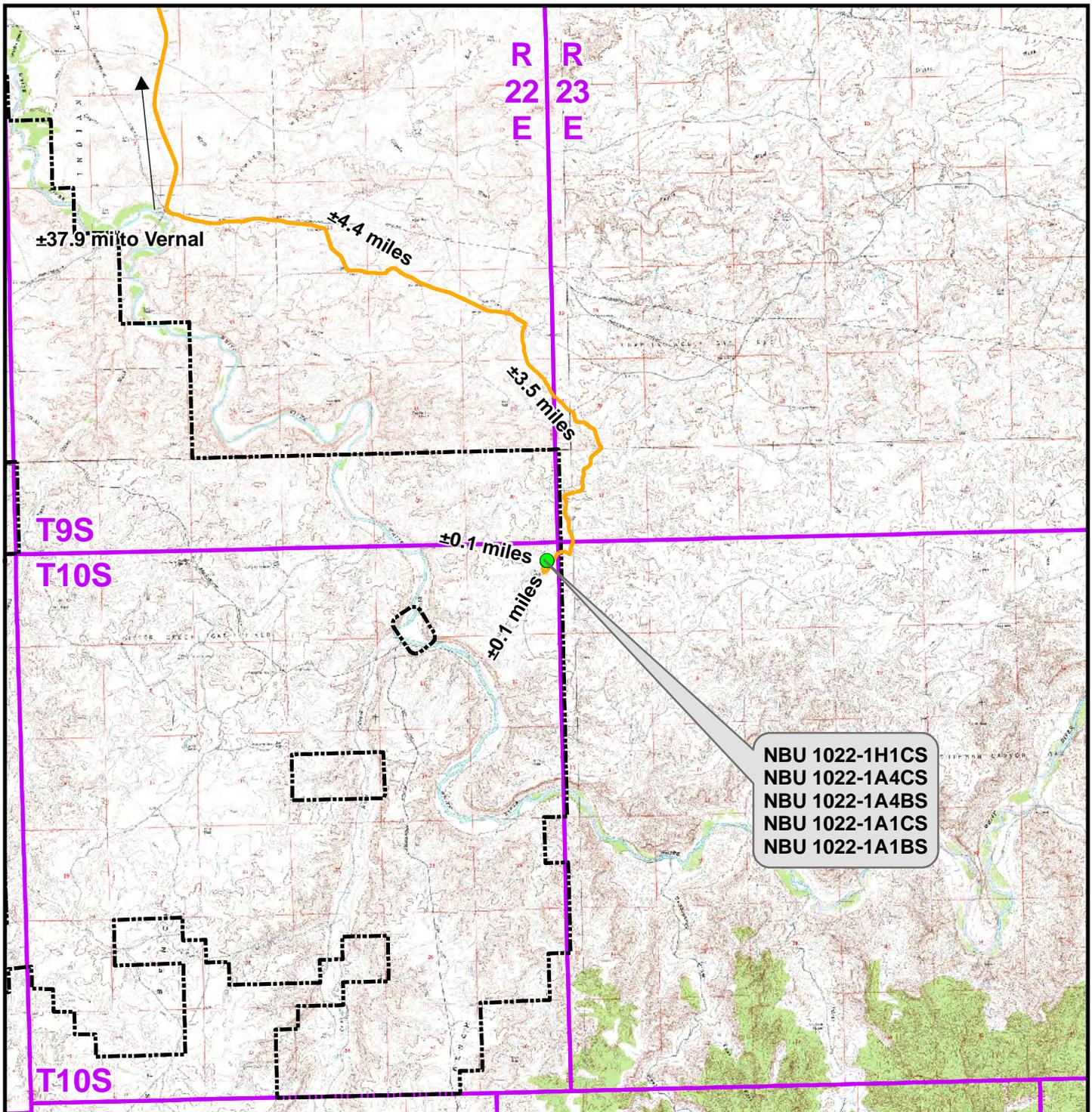
LOCATION PHOTOS
NBU 1022-1H1CS,
NBU 1022-1A4CS, NBU 1022-1A4BS,
NBU 1022-1A1CS & NBU 1022-1A1BS
LOCATED IN SECTION 1, T10S, R22E,
S.L.B.&M., Uintah County, Utah.



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 PHOTOS TAKEN: 02-25-11	PHOTOS TAKEN BY: M.S.B.	SHEET NO: 10
DATE DRAWN: 02-25-11	DRAWN BY: M.W.W.	
Date Last Revised:		10 OF 17



NBU 1022-1H1CS
 NBU 1022-1A4CS
 NBU 1022-1A4BS
 NBU 1022-1A1CS
 NBU 1022-1A1BS

Legend

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

Distance From Well Pad - NBU 1022-1A To Unit Boundary: ±663ft

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

WELL PAD - NBU 1022-1A

TOPO A
 NBU 1022-1H1CS,
 NBU 1022-1A4CS, NBU 1022-1A4BS,
 NBU 1022-1A1CS & NBU 1022-1A1BS
 LOCATED IN SECTION 1, T10S, R22E,
 S.L.B.&M., UINTAH COUNTY, UTAH

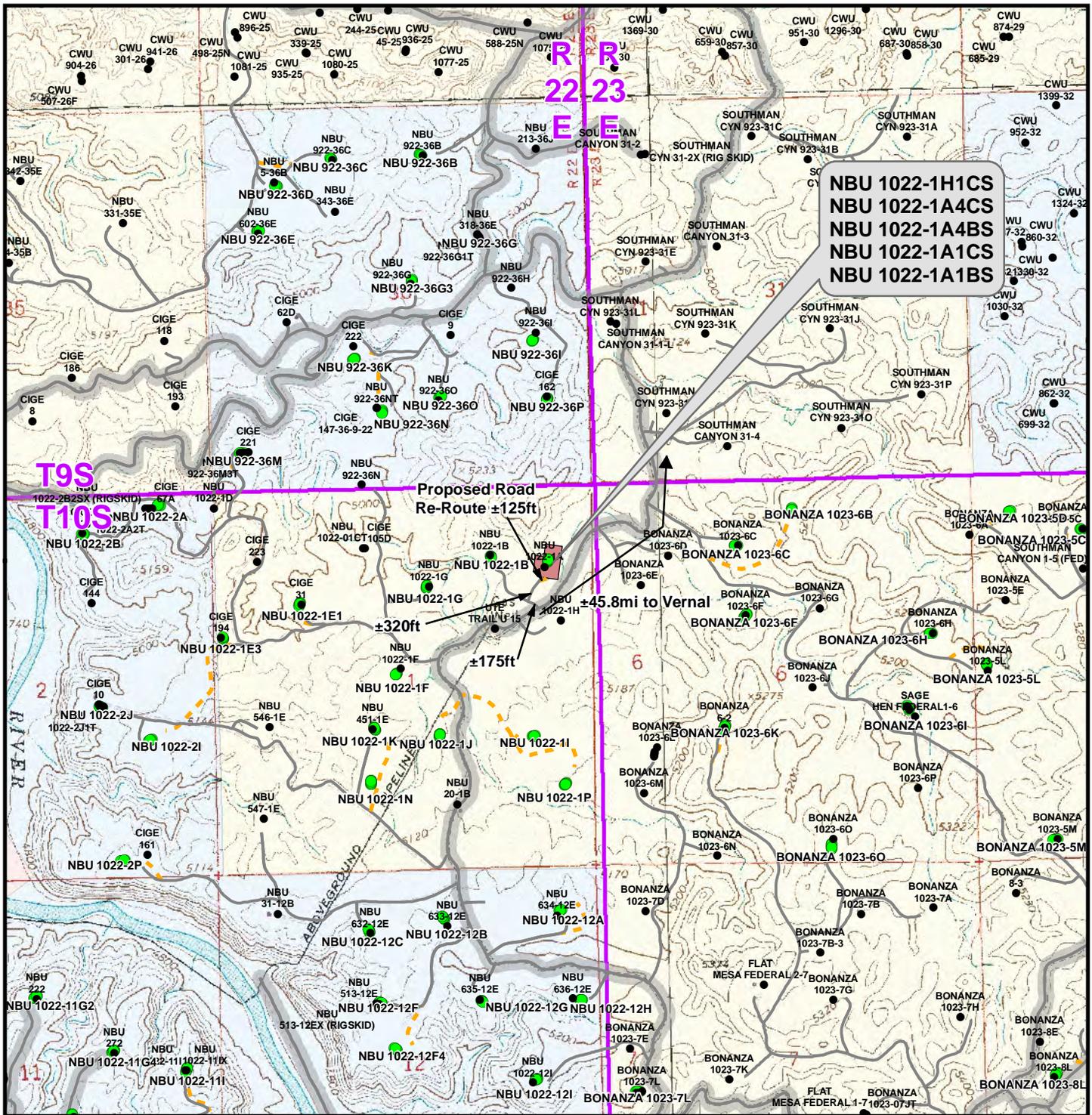


CONSULTING, LLC
 2155 North Main Street
 Sheridan, WY 82801
 Phone (307) 674-0609
 Fax (307) 674-0182



Scale: 1:100,000	NAD83 USP Central
Drawn: TL	Date: 13 May 2011
Revised:	Date:

Sheet No:
11
 11 of 17



**NBU 1022-1H1CS
 NBU 1022-1A4CS
 NBU 1022-1A4BS
 NBU 1022-1A1CS
 NBU 1022-1A1BS**

Proposed Road Re-Route ±125ft

±45.8mi to Vernal

±320ft

±175ft

Legend

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

Total Proposed Road Re-Route Length: ±125ft

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

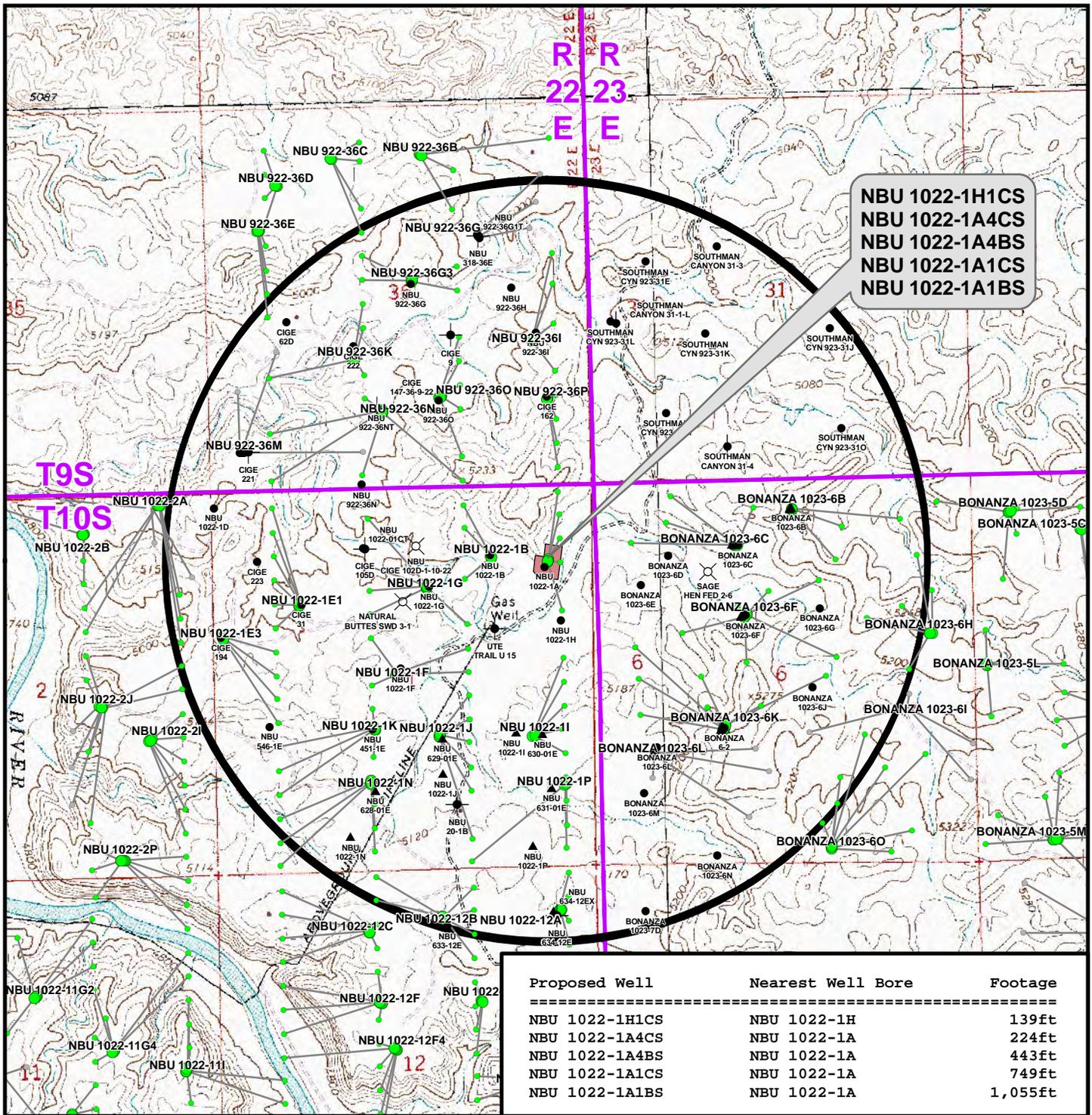
WELL PAD - NBU 1022-1A

TOPO B
NBU 1022-1H1CS,
NBU 1022-1A4CS, NBU 1022-1A4BS,
NBU 1022-1A1CS & NBU 1022-1A1BS
LOCATED IN SECTION 1, T10S, R22E,
S.L.B.&M., UTAH COUNTY, UTAH

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



Scale: 1" = 2,000ft	NAD83 USP Central	Sheet No:	12
Drawn: TL	Date: 13 May 2011	12 of 17	
Revised: TL	Date: 24 Aug 2011		



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

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

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

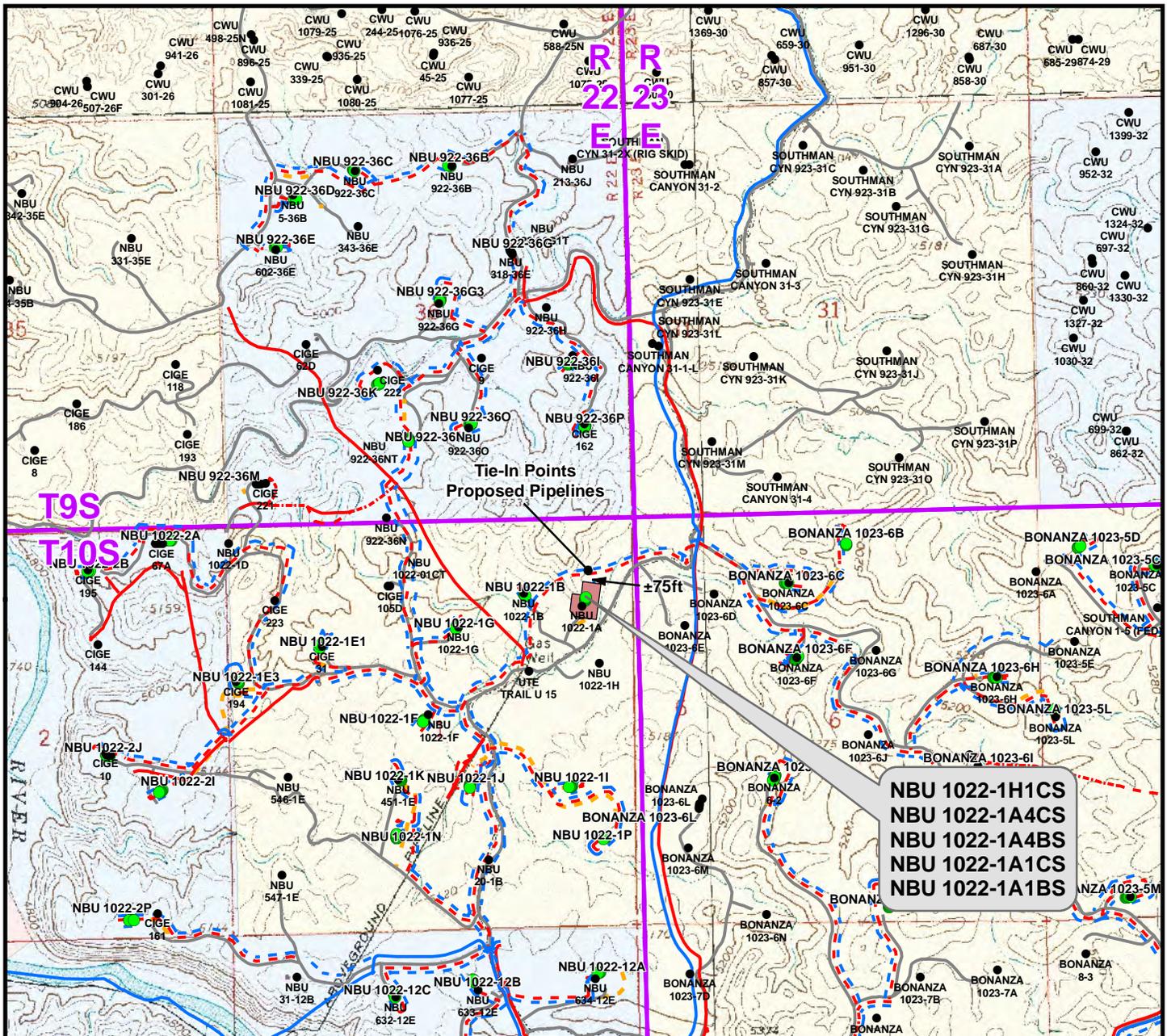
WELL PAD - NBU 1022-1A

TOPO C
 NBU 1022-1H1CS,
 NBU 1022-1A4CS, NBU 1022-1A4BS,
 NBU 1022-1A1CS & NBU 1022-1A1BS
 LOCATED IN SECTION 1, T10S, R22E,
 S.L.B.&M., UTAH COUNTY, UTAH

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



Scale: 1" = 2,000ft	NAD83 USP Central	Sheet No:
Drawn: TL	Date: 13 May 2011	13
Revised:	Date:	



**NBU 1022-1H1CS
 NBU 1022-1A4CS
 NBU 1022-1A4BS
 NBU 1022-1A1CS
 NBU 1022-1A1BS**

Proposed Liquid Pipeline	Length	Proposed Gas Pipeline	Length
-----		-----	
Buried 6" (Max.) (Meter House to Edge of Pad)	±60ft	Buried 6" (Meter House to Edge of Pad)	±60ft
Buried 6" (Max.) (Edge of Pad to Proposed Pipeline ROW In Progress)	±75ft	Buried 6" (Edge of Pad to Proposed 16" Pipeline ROW In Progress)	±75ft
TOTAL PROPOSED BURIED LIQUID PIPELINE =	±135ft	TOTAL PROPOSED BURIED GAS PIPELINE =	±135ft

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

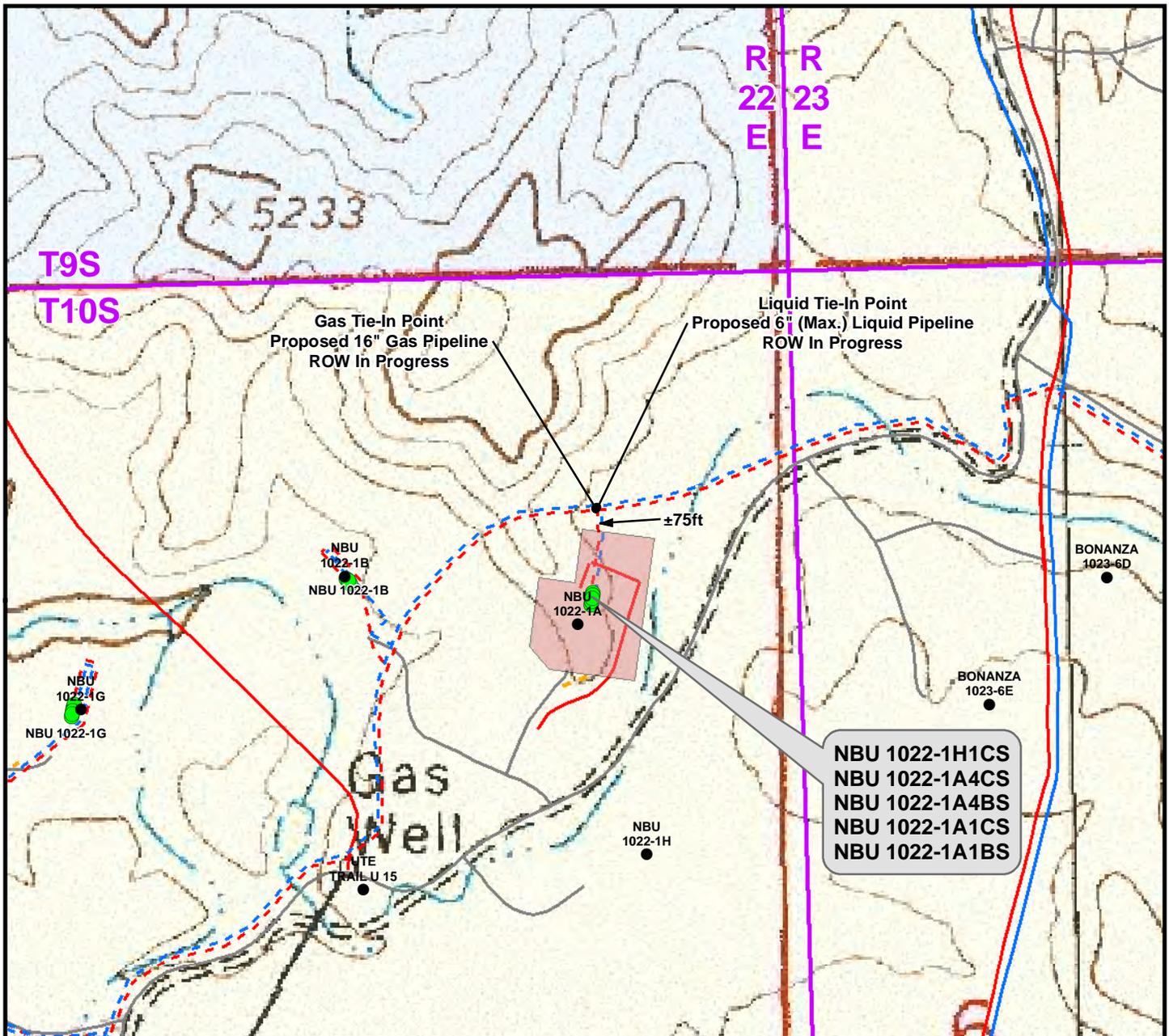
WELL PAD - NBU 1022-1A

TOPO D
 NBU 1022-1H1CS,
 NBU 1022-1A4CS, NBU 1022-1A4BS,
 NBU 1022-1A1CS & NBU 1022-1A1BS
 LOCATED IN SECTION 1, T10S, R22E,
 S.L.B.&M., UTAH COUNTY, UTAH

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

Scale: 1" = 2,000ft | NAD83 USP Central | Sheet No: **14** of 14

Drawn: TL | Date: 13 May 2011
 Revised: | Date:



NBU 1022-1H1CS
 NBU 1022-1A4CS
 NBU 1022-1A4BS
 NBU 1022-1A1CS
 NBU 1022-1A1BS

Proposed Liquid Pipeline	Length
Buried 6" (Max.) (Meter House to Edge of Pad)	±60ft
Buried 6" (Max.) (Edge of Pad to Proposed Pipeline ROW In Progress)	±75ft
TOTAL PROPOSED BURIED LIQUID PIPELINE =	±135ft

Proposed Gas Pipeline	Length
Buried 6" (Meter House to Edge of Pad)	±60ft
Buried 6" (Edge of Pad to Proposed 16" Pipeline ROW In Progress)	±75ft
TOTAL PROPOSED BURIED GAS PIPELINE =	±135ft

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

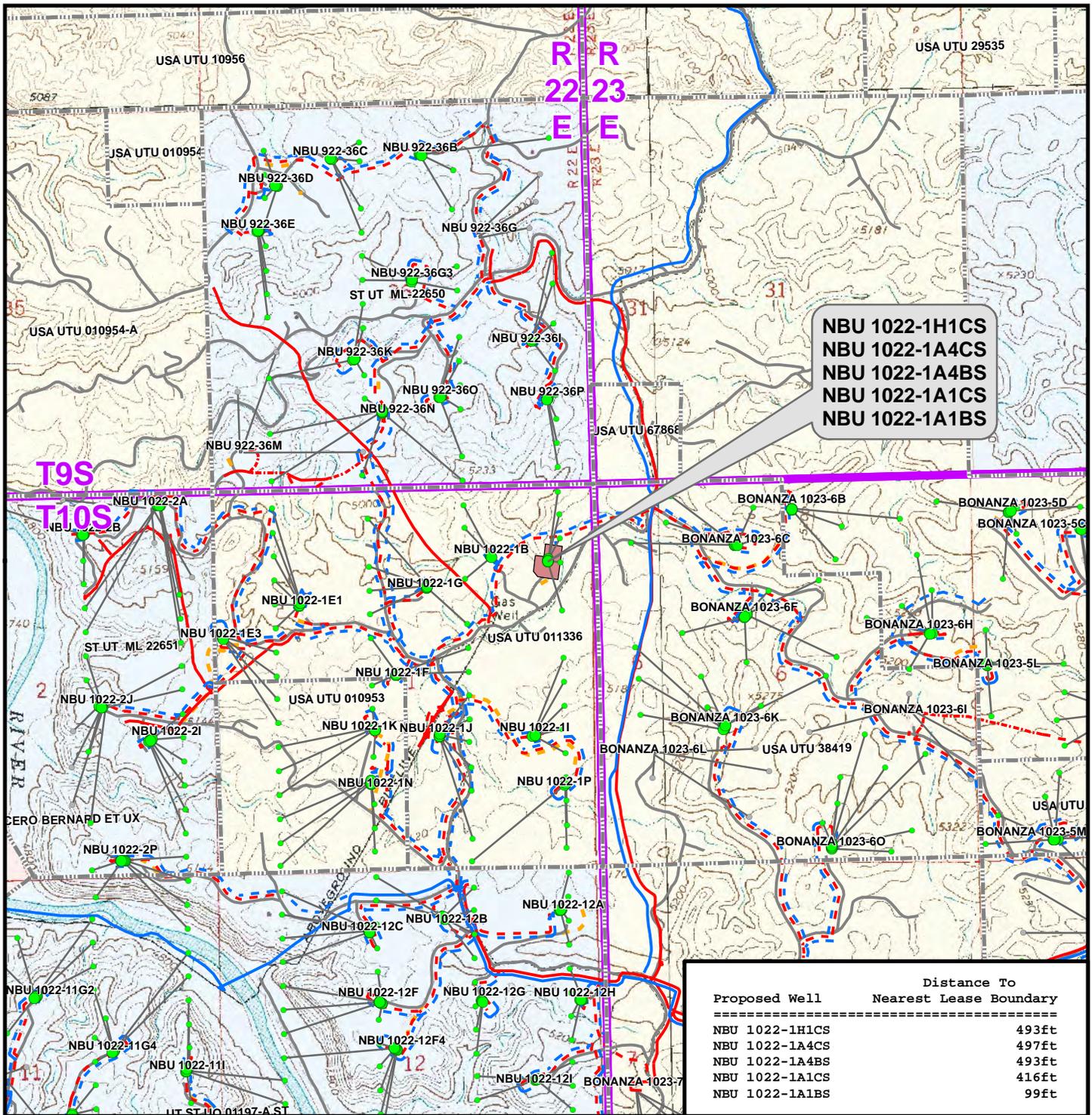
WELL PAD - NBU 1022-1A

TOPO D2 (PAD & PIPELINE DETAIL)
 NBU 1022-1H1CS,
 NBU 1022-1A4CS, NBU 1022-1A4BS,
 NBU 1022-1A1CS & NBU 1022-1A1BS
 LOCATED IN SECTION 1, 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" = 500ft	NAD83 USP Central	Sheet No:
Drawn: TL	Date: 13 May 2011	15
Revised: TL	Date: 25 Aug 2011	



Legend

- Well - Proposed
- Bottom Hole - Proposed
- Bottom Hole - Existing
- Well Path
- Well Pad
- ▭ Lease Boundary
- Gas Pipeline - Proposed
- Gas Pipeline - To Be Upgraded
- Gas Pipeline - Existing
- Liquid Pipeline - Proposed
- Liquid Pipeline - 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 1022-1A

TOPO E
NBU 1022-1H1CS,
NBU 1022-1A4CS, NBU 1022-1A4BS,
NBU 1022-1A1CS & NBU 1022-1A1BS
LOCATED IN SECTION 1, 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



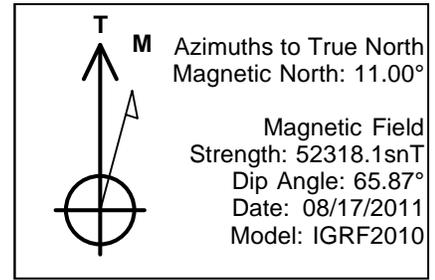
Scale: 1" = 2,000ft | NAD83 USP Central
 Drawn: TL | Date: 13 May 2011
 Revised: | Date:

Sheet No:
16 16 of 17

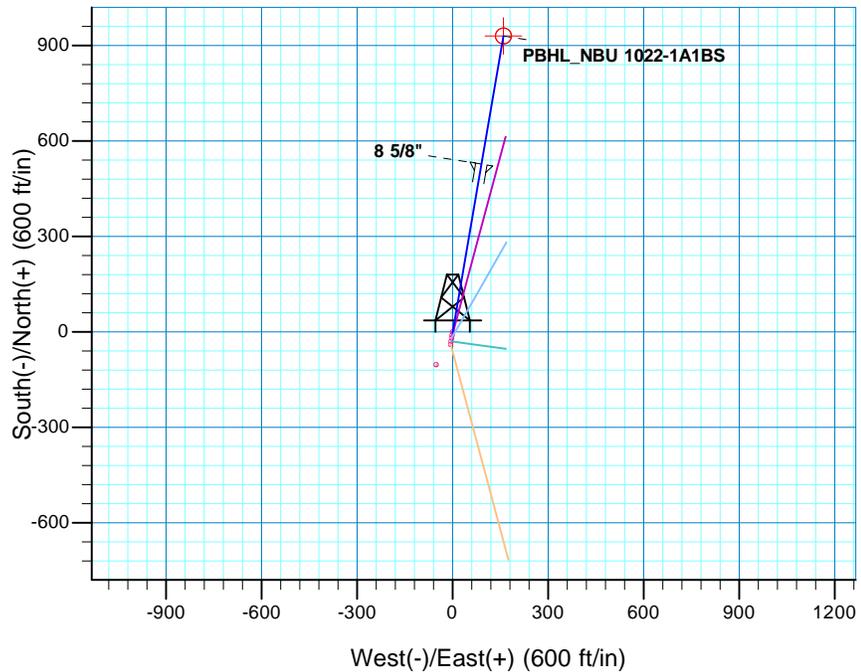
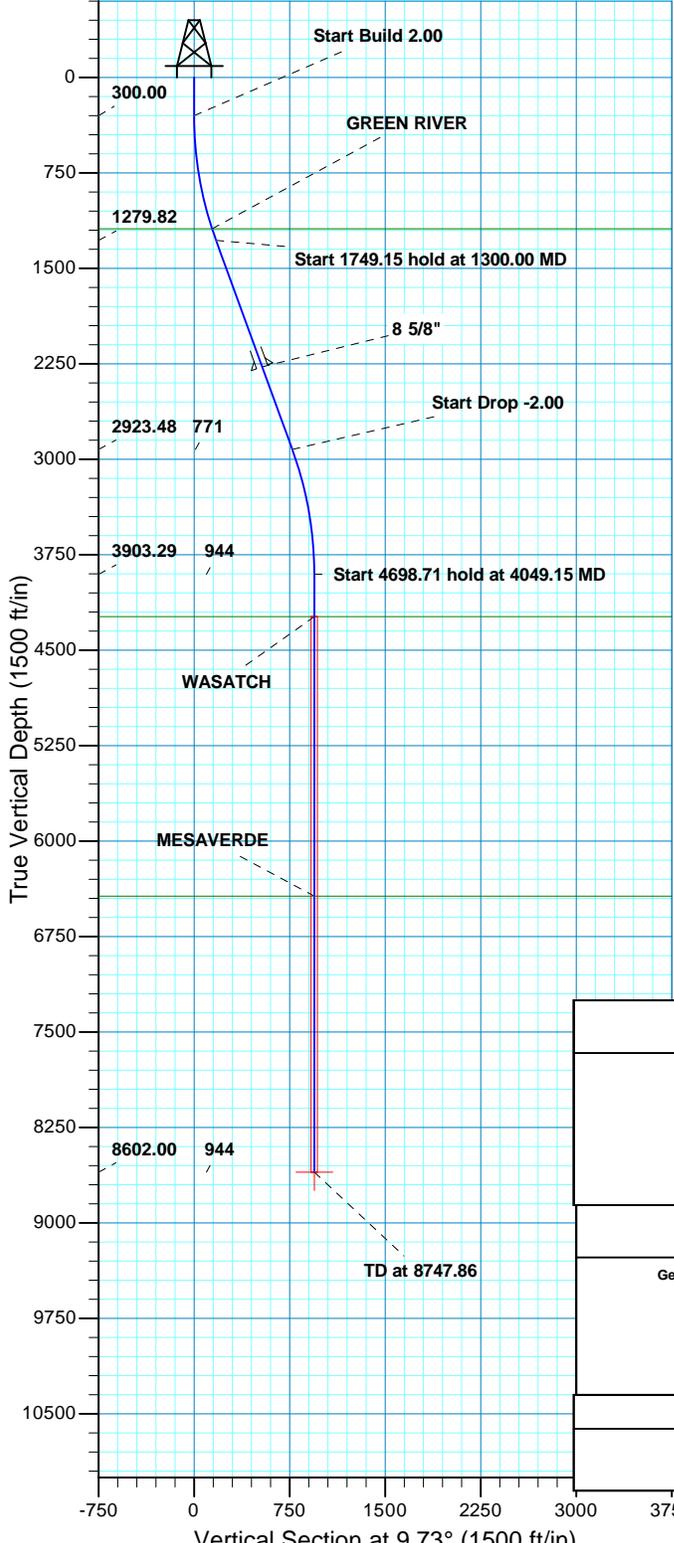
Kerr-McGee Oil & Gas Onshore, LP
WELL PAD – NBU 1022-1A
WELLS – NBU 1022-1H1CS, NBU 1022-1A4CS,
NBU 1022-1A4BS, NBU 1022-1A1CS & NBU 1022-1A1BS
Section 1, T10S, R22E, S.L.B.&M.

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 14.4 miles to the intersection of the Fidler Road (County B Road 3410) which road intersection is approximately 400 feet northeast of the Mountain Fuel Bridge at the White River. Exit left and proceed in a southeasterly direction along the Fidler Road approximately 4.4 miles to the intersection of the Seven Sisters Road (County B Road 3420). Exit right and proceed in a southeasterly, then southerly direction along the Seven Sisters Road approximately 3.5 miles to an existing service road to the northwest. Exit right and proceed in a northwesterly direction along the service road approximately 175 feet to a second service road to the northeast. Exit right and proceed in a northeasterly direction along the second service road approximately 320 feet to the proposed access road. Follow road flags in a northeasterly direction approximately 125 feet to the proposed well location.

Total distance from Vernal, Utah to the proposed well location is approximately 46.0 miles in a southerly direction.



WELL DETAILS: NBU 1022-1A1BS									
GL 5077 & KB 4 @ 5081.00ft (ASSUMED)									
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude				
0.00	0.00	14523770.95	2094091.18	39° 58' 56.788 N	109° 22' 49.886 W				
DESIGN TARGET DETAILS									
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape	
PBHL	8602.00	930.22	159.43	14524703.90	2094233.68	39° 59' 5.982 N	109° 22' 47.838 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	9.73	1279.82	170.29	29.18	2.00	9.73	172.77	
3049.15	20.00	9.73	2923.48	759.93	130.24	0.00	0.00	771.01	
4049.15	0.00	0.00	3903.29	930.22	159.43	2.00	180.00	943.78	
8747.86	0.00	0.00	8602.00	930.22	159.43	0.00	0.00	943.78	PBHL_NBU 1022-1A1BS

PROJECT DETAILS: UTAH - UTM (feet), NAD27, Zone 12N			FORMATION TOP DETAILS		
Geodetic System: Universal Transverse Mercator (US Survey Feet)			TVDPath	MDPath	Formation
Datum: NAD 1927 (NADCON CONUS)			1188.00	1202.87	GREEN RIVER
Ellipsoid: Clarke 1866			4237.00	4382.86	WASATCH
Zone: Zone 12N (114 W to 108 W)			6432.00	6577.86	MESAVERDE
Location: SECTION 1 T10S R22E					
System Datum: Mean Sea Level					

CASING DETAILS					
TVD	MD	Name	Size		
2275.00	2359.05	8 5/8"	8.625		

RECEIVED:



Scientific Drilling
Rocky Mountain Operations

US ROCKIES REGION PLANNING

UTAH - UTM (feet), NAD27, Zone 12N

UINTAH_NBU 1022-1A PAD

NBU 1022-1A1BS

OH

Plan: PLAN #1 PRELIMINARY

Standard Planning Report

17 August, 2011





SDI
Planning Report



Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 1022-1A1BS
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL 5077 & KB 4 @ 5081.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	MD Reference:	GL 5077 & KB 4 @ 5081.00ft (ASSUMED)
Site:	UINTAH_NBU 1022-1A PAD	North Reference:	True
Well:	NBU 1022-1A1BS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1 PRELIMINARY		

Project	UTAH - UTM (feet), NAD27, Zone 12N		
Map System:	Universal Transverse Mercator (US Survey Feet)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Zone 12N (114 W to 108 W)		

Site	UINTAH_NBU 1022-1A PAD, SECTION 1 T10S R22E				
Site Position:		Northing:	14,523,761.09 usft	Latitude:	39° 58' 56.690 N
From:	Lat/Long	Easting:	2,094,089.95 usft	Longitude:	109° 22' 49.904 W
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence:	1.04 °

Well	NBU 1022-1A1BS, 1030 FNL 663 FEL					
Well Position	+N/-S	9.83 ft	Northing:	14,523,770.95 usft	Latitude:	39° 58' 56.788 N
	+E/-W	1.40 ft	Easting:	2,094,091.17 usft	Longitude:	109° 22' 49.886 W
Position Uncertainty		0.00 ft	Wellhead Elevation:		Ground Level:	5,077.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	08/17/11	11.00	65.87	52,318

Design	PLAN #1 PRELIMINARY			
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	9.73

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	9.73	1,279.82	170.29	29.18	2.00	2.00	0.00	9.73	
3,049.15	20.00	9.73	2,923.48	759.93	130.24	0.00	0.00	0.00	0.00	
4,049.15	0.00	0.00	3,903.29	930.22	159.43	2.00	-2.00	0.00	180.00	
8,747.86	0.00	0.00	8,602.00	930.22	159.43	0.00	0.00	0.00	0.00	PBHL_NBU 1022-1A'



SDI
Planning Report



Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 1022-1A1BS
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL 5077 & KB 4 @ 5081.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	MD Reference:	GL 5077 & KB 4 @ 5081.00ft (ASSUMED)
Site:	UINTAH_NBU 1022-1A PAD	North Reference:	True
Well:	NBU 1022-1A1BS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1 PRELIMINARY		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 2.00										
400.00	2.00	9.73	399.98	1.72	0.29	1.75	2.00	2.00	2.00	0.00
500.00	4.00	9.73	499.84	6.88	1.18	6.98	2.00	2.00	2.00	0.00
600.00	6.00	9.73	599.45	15.47	2.65	15.69	2.00	2.00	2.00	0.00
700.00	8.00	9.73	698.70	27.48	4.71	27.88	2.00	2.00	2.00	0.00
800.00	10.00	9.73	797.47	42.90	7.35	43.52	2.00	2.00	2.00	0.00
900.00	12.00	9.73	895.62	61.70	10.58	62.60	2.00	2.00	2.00	0.00
1,000.00	14.00	9.73	993.06	83.87	14.37	85.10	2.00	2.00	2.00	0.00
1,100.00	16.00	9.73	1,089.64	109.38	18.75	110.98	2.00	2.00	2.00	0.00
1,200.00	18.00	9.73	1,185.27	138.20	23.69	140.21	2.00	2.00	2.00	0.00
1,202.87	18.06	9.73	1,188.00	139.07	23.84	141.10	2.00	2.00	2.00	0.00
GREEN RIVER										
1,300.00	20.00	9.73	1,279.82	170.29	29.18	172.77	2.00	2.00	2.00	0.00
Start 1749.15 hold at 1300.00 MD										
1,400.00	20.00	9.73	1,373.78	204.00	34.96	206.97	0.00	0.00	0.00	0.00
1,500.00	20.00	9.73	1,467.75	237.71	40.74	241.17	0.00	0.00	0.00	0.00
1,600.00	20.00	9.73	1,561.72	271.42	46.52	275.37	0.00	0.00	0.00	0.00
1,700.00	20.00	9.73	1,655.69	305.13	52.29	309.58	0.00	0.00	0.00	0.00
1,800.00	20.00	9.73	1,749.66	338.84	58.07	343.78	0.00	0.00	0.00	0.00
1,900.00	20.00	9.73	1,843.63	372.55	63.85	377.98	0.00	0.00	0.00	0.00
2,000.00	20.00	9.73	1,937.60	406.26	69.63	412.18	0.00	0.00	0.00	0.00
2,100.00	20.00	9.73	2,031.57	439.97	75.40	446.38	0.00	0.00	0.00	0.00
2,200.00	20.00	9.73	2,125.54	473.68	81.18	480.59	0.00	0.00	0.00	0.00
2,300.00	20.00	9.73	2,219.51	507.39	86.96	514.79	0.00	0.00	0.00	0.00
2,359.05	20.00	9.73	2,275.00	527.30	90.37	534.99	0.00	0.00	0.00	0.00
8 5/8"										
2,400.00	20.00	9.73	2,313.48	541.10	92.74	548.99	0.00	0.00	0.00	0.00
2,500.00	20.00	9.73	2,407.45	574.81	98.51	583.19	0.00	0.00	0.00	0.00
2,600.00	20.00	9.73	2,501.42	608.52	104.29	617.39	0.00	0.00	0.00	0.00
2,700.00	20.00	9.73	2,595.39	642.23	110.07	651.60	0.00	0.00	0.00	0.00
2,800.00	20.00	9.73	2,689.35	675.94	115.85	685.80	0.00	0.00	0.00	0.00
2,900.00	20.00	9.73	2,783.32	709.65	121.62	720.00	0.00	0.00	0.00	0.00
3,000.00	20.00	9.73	2,877.29	743.36	127.40	754.20	0.00	0.00	0.00	0.00
3,049.15	20.00	9.73	2,923.48	759.93	130.24	771.01	0.00	0.00	0.00	0.00
Start Drop -2.00										
3,100.00	18.98	9.73	2,971.41	776.66	133.11	787.98	2.00	-2.00	2.00	0.00
3,200.00	16.98	9.73	3,066.52	807.08	138.32	818.85	2.00	-2.00	2.00	0.00
3,300.00	14.98	9.73	3,162.65	834.22	142.97	846.38	2.00	-2.00	2.00	0.00
3,400.00	12.98	9.73	3,259.69	858.04	147.06	870.55	2.00	-2.00	2.00	0.00
3,500.00	10.98	9.73	3,357.50	878.50	150.56	891.31	2.00	-2.00	2.00	0.00
3,600.00	8.98	9.73	3,455.98	895.58	153.49	908.64	2.00	-2.00	2.00	0.00
3,700.00	6.98	9.73	3,555.01	909.27	155.84	922.53	2.00	-2.00	2.00	0.00
3,800.00	4.98	9.73	3,654.46	919.55	157.60	932.95	2.00	-2.00	2.00	0.00
3,900.00	2.98	9.73	3,754.21	926.39	158.77	939.90	2.00	-2.00	2.00	0.00
4,000.00	0.98	9.73	3,854.15	929.80	159.36	943.36	2.00	-2.00	2.00	0.00
4,049.15	0.00	0.00	3,903.29	930.22	159.43	943.78	2.00	-2.00	2.00	0.00
Start 4698.71 hold at 4049.15 MD										



SDI
Planning Report



Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 1022-1A1BS
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL 5077 & KB 4 @ 5081.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	MD Reference:	GL 5077 & KB 4 @ 5081.00ft (ASSUMED)
Site:	UINTAH_NBU 1022-1A PAD	North Reference:	True
Well:	NBU 1022-1A1BS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1 PRELIMINARY		

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)	
4,100.00	0.00	0.00	3,954.14	930.22	159.43	943.78	0.00	0.00	0.00	
4,200.00	0.00	0.00	4,054.14	930.22	159.43	943.78	0.00	0.00	0.00	
4,300.00	0.00	0.00	4,154.14	930.22	159.43	943.78	0.00	0.00	0.00	
4,382.86	0.00	0.00	4,237.00	930.22	159.43	943.78	0.00	0.00	0.00	
WASATCH										
4,400.00	0.00	0.00	4,254.14	930.22	159.43	943.78	0.00	0.00	0.00	
4,500.00	0.00	0.00	4,354.14	930.22	159.43	943.78	0.00	0.00	0.00	
4,600.00	0.00	0.00	4,454.14	930.22	159.43	943.78	0.00	0.00	0.00	
4,700.00	0.00	0.00	4,554.14	930.22	159.43	943.78	0.00	0.00	0.00	
4,800.00	0.00	0.00	4,654.14	930.22	159.43	943.78	0.00	0.00	0.00	
4,900.00	0.00	0.00	4,754.14	930.22	159.43	943.78	0.00	0.00	0.00	
5,000.00	0.00	0.00	4,854.14	930.22	159.43	943.78	0.00	0.00	0.00	
5,100.00	0.00	0.00	4,954.14	930.22	159.43	943.78	0.00	0.00	0.00	
5,200.00	0.00	0.00	5,054.14	930.22	159.43	943.78	0.00	0.00	0.00	
5,300.00	0.00	0.00	5,154.14	930.22	159.43	943.78	0.00	0.00	0.00	
5,400.00	0.00	0.00	5,254.14	930.22	159.43	943.78	0.00	0.00	0.00	
5,500.00	0.00	0.00	5,354.14	930.22	159.43	943.78	0.00	0.00	0.00	
5,600.00	0.00	0.00	5,454.14	930.22	159.43	943.78	0.00	0.00	0.00	
5,700.00	0.00	0.00	5,554.14	930.22	159.43	943.78	0.00	0.00	0.00	
5,800.00	0.00	0.00	5,654.14	930.22	159.43	943.78	0.00	0.00	0.00	
5,900.00	0.00	0.00	5,754.14	930.22	159.43	943.78	0.00	0.00	0.00	
6,000.00	0.00	0.00	5,854.14	930.22	159.43	943.78	0.00	0.00	0.00	
6,100.00	0.00	0.00	5,954.14	930.22	159.43	943.78	0.00	0.00	0.00	
6,200.00	0.00	0.00	6,054.14	930.22	159.43	943.78	0.00	0.00	0.00	
6,300.00	0.00	0.00	6,154.14	930.22	159.43	943.78	0.00	0.00	0.00	
6,400.00	0.00	0.00	6,254.14	930.22	159.43	943.78	0.00	0.00	0.00	
6,500.00	0.00	0.00	6,354.14	930.22	159.43	943.78	0.00	0.00	0.00	
6,577.86	0.00	0.00	6,432.00	930.22	159.43	943.78	0.00	0.00	0.00	
MESAVERDE										
6,600.00	0.00	0.00	6,454.14	930.22	159.43	943.78	0.00	0.00	0.00	
6,700.00	0.00	0.00	6,554.14	930.22	159.43	943.78	0.00	0.00	0.00	
6,800.00	0.00	0.00	6,654.14	930.22	159.43	943.78	0.00	0.00	0.00	
6,900.00	0.00	0.00	6,754.14	930.22	159.43	943.78	0.00	0.00	0.00	
7,000.00	0.00	0.00	6,854.14	930.22	159.43	943.78	0.00	0.00	0.00	
7,100.00	0.00	0.00	6,954.14	930.22	159.43	943.78	0.00	0.00	0.00	
7,200.00	0.00	0.00	7,054.14	930.22	159.43	943.78	0.00	0.00	0.00	
7,300.00	0.00	0.00	7,154.14	930.22	159.43	943.78	0.00	0.00	0.00	
7,400.00	0.00	0.00	7,254.14	930.22	159.43	943.78	0.00	0.00	0.00	
7,500.00	0.00	0.00	7,354.14	930.22	159.43	943.78	0.00	0.00	0.00	
7,600.00	0.00	0.00	7,454.14	930.22	159.43	943.78	0.00	0.00	0.00	
7,700.00	0.00	0.00	7,554.14	930.22	159.43	943.78	0.00	0.00	0.00	
7,800.00	0.00	0.00	7,654.14	930.22	159.43	943.78	0.00	0.00	0.00	
7,900.00	0.00	0.00	7,754.14	930.22	159.43	943.78	0.00	0.00	0.00	
8,000.00	0.00	0.00	7,854.14	930.22	159.43	943.78	0.00	0.00	0.00	
8,100.00	0.00	0.00	7,954.14	930.22	159.43	943.78	0.00	0.00	0.00	
8,200.00	0.00	0.00	8,054.14	930.22	159.43	943.78	0.00	0.00	0.00	
8,300.00	0.00	0.00	8,154.14	930.22	159.43	943.78	0.00	0.00	0.00	
8,400.00	0.00	0.00	8,254.14	930.22	159.43	943.78	0.00	0.00	0.00	
8,500.00	0.00	0.00	8,354.14	930.22	159.43	943.78	0.00	0.00	0.00	
8,600.00	0.00	0.00	8,454.14	930.22	159.43	943.78	0.00	0.00	0.00	
8,700.00	0.00	0.00	8,554.14	930.22	159.43	943.78	0.00	0.00	0.00	
8,747.86	0.00	0.00	8,602.00	930.22	159.43	943.78	0.00	0.00	0.00	



SDI
Planning Report



Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 1022-1A1BS
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL 5077 & KB 4 @ 5081.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	MD Reference:	GL 5077 & KB 4 @ 5081.00ft (ASSUMED)
Site:	UINTAH_NBU 1022-1A PAD	North Reference:	True
Well:	NBU 1022-1A1BS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1 PRELIMINARY		

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)
TD at 8747.86 - PBHL_NBU 1022-1A1BS									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PBHL_NBU 1022-1A1BS - hit/miss target - Shape - Circle (radius 25.00)	0.00	0.00	8,602.00	930.22	159.43	14,524,703.91	2,094,233.67	39° 59' 5.982 N	109° 22' 47.838 W

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)	
2,359.05	2,275.00	8 5/8"	8.625	11.000	

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,202.87	1,188.00	GREEN RIVER			
4,382.86	4,237.00	WASATCH			
6,577.86	6,432.00	MESAVERDE			

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
300.00	300.00	0.00	0.00	Start Build 2.00
1,300.00	1,279.82	170.29	29.18	Start 1749.15 hold at 1300.00 MD
3,049.15	2,923.48	759.93	130.24	Start Drop -2.00
4,049.15	3,903.29	930.22	159.43	Start 4698.71 hold at 4049.15 MD
8,747.86	8,602.00	930.22	159.43	TD at 8747.86

Kerr-McGee Oil & Gas Onshore. L.P.**NBU 1022-1A Pad**

<u>API #</u>	<u>NBU 1022-1A1BS</u>		
	Surface: 1030 FNL / 663 FEL	NENE	Lot 1
	BHL: 99 FNL / 498 FEL	NENE	Lot 1
<u>API #</u>	<u>NBU 1022-1A1CS</u>		
	Surface: 1040 FNL / 665 FEL	NENE	Lot 1
	BHL: 416 FNL / 493 FEL	NENE	Lot 1
<u>API #</u>	<u>NBU 1022-1A4BS</u>		
	Surface: 1050 FNL / 667 FEL	NENE	Lot 1
	BHL: 748 FNL / 493 FEL	NENE	Lot 1
<u>API #</u>	<u>NBU 1022-1A4CS</u>		
	Surface: 1059 FNL / 668 FEL	NENE	Lot 1
	BHL: 1083 FNL / 497 FEL	NENE	Lot 1
<u>API #</u>	<u>NBU 1022-1H1CS</u>		
	Surface: 1069 FNL / 670 FEL	NENE	Lot 1
	BHL: 1745 FNL / 493 FEL	SENE	Lot

This Surface Use Plan of Operations (SUPO) or 13-point plan provides site-specific information for the above-referenced wells.

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 access roads (two-tracks). In accordance with Onshore Order #1, Kerr-McGee will, in accordance with BMPs, improve or maintain existing roads in a condition that is the same as or better than before operations began. New or reconstructed proposed access roads are discussed in Section B.

The existing roads will be maintained in a safe and usable condition. Maintenance for existing roads will continue until final abandonment and reclamation of well pads and/or other facilities, as applicable. Road maintenance will include, but is not limited to, blading, ditching, and/or culvert installation and cleanout. To ensure safe operating conditions, gravel surfacing will be performed where excessive rutting or erosion may occur. Dust control will be performed as necessary to ensure safe operating conditions.

Roads, gathering lines and electrical distribution lines will occupy common disturbance corridors where possible. Where available, roadways will be used as the staging area and working space for installation of gathering lines. All disturbances located in the same corridor will overlap each other to the maximum extent possible, while maintaining

safe and sound construction and installation practices. Unless otherwise approved or requested in site specific documents, in no case will the maximum disturbance widths of the access road and utility corridors exceed the widths specified in Part D of this document.

Please refer to Topo B, for existing roads.

B. New or Reconstructed Access Roads:

All new or reconstructed roads will be located, designed, and maintained to meet the standards of the BLM. BMPs. Described in the BLM's Surface Operating Standards for Oil and Gas Exploration and Development, 4th Edition (Gold Book) (USDI and USDA, 2007) and/or BLM Manual Section 9113 (1985) will be considered in consultation with the BLM in the design, construction, improvement and maintenance of all new or reconstructed roads. If a new road would cross a water of the United States, Kerr-McGee will adhere to the requirements of applicable Nationwide Permits of the Department of Army Corps of Engineers.

Each new well pad or pad expansion may require construction of a new access road and/or de-commissioning of an older road. Plans, routes, and distances for new roads and road improvements are provided in design packages, exhibits and maps for a project. Project-specific maps are submitted to depict the locations of existing, proposed, and/or decommissioned and include the locations for supporting structures, including, but not limited to, culverts, bridges, low water crossings, range infrastructure, and haul routes, as per OSO 1. Designs for cuts and fills, including spoils source and storage areas, are provided with the road designs, as necessary.

Where safety objectives can be met. As applicable, Kerr-McGee may use unimproved and/or two-track roads for lease operations, to lessen total disturbance.

Road designs will be based on the road safety requirements, traffic characteristics, environmental conditions, and the vehicles the road is intended to carry. Generally, newly constructed unpaved lease roads will be crowned and ditched with the running surfaces of the roads approximately 12-18 feet wide and a total road corridor width not to exceed 45 feet, except where noted in the road design for a specific project. Maximum grade will generally not exceed 8%. Borrow ditches will be back sloped 3:1 or less. Construction BMPs will be employed to control onsite and offsite erosion.

Where topography would direct storm water runoff to an access road or well pad, drainage ditches or other common drainage control facilities, such as V- or wing-ditches, will be constructed to divert surface water runoff. Drainage features, including culverts, will be constructed or installed prior to commencing other operations, including drilling or facilities placement. Riprap will be placed at the inlet and outlet at the culvert(s), as necessary.

Prior to construction, new access road(s) will be staked according to the requirements of OSO 1. Construction activity will not be conducted using frozen or saturated materials or during periods when significant watershed damage (e.g. rutting, extensive sheet soil erosion, formation of rills/gullies, etc.) is likely to occur. Vegetative debris will not be placed in or under fill embankments.

New road maintenance will include, but is not limited to, blading, ditching, culvert installation and cleanout, gravel surfacing where excessive rutting or erosion may occur and dust control, as necessary to ensure safe operating conditions. All vehicular traffic, personnel movement, construction/restoration operations will be confined to the approved area and to existing roadways and/or access routes.

Snow removal will be conducted on an as-needed basis to accommodate safe travel. Snow removal will occur as necessary throughout the year, as will necessary drainage ditch construction. Removed snow may be stored on permitted well pads to reduce hauling distances and/or at the aerial extent of approved disturbance boundaries to facilitate snow removal for the remainder of the season.

If a county road crossing or encroachment permit is needed, it will be obtained prior to construction.

The following segments are "on-lease"

±125' (0.02 miles) – Section 1 T10S R22E (NE/4 NE/4) – On-lease UTU011336, re-route from the edge of pad to the existing access road. Please refer to Topo B.

C. Location of Existing Wells:

A) Refer to Topo Map C.

D. Location of Existing and/or Proposed Facilities:

This pad will expand the existing pad for the NBU 1022-1A, which is a producing gas well according to Utah Division of Oil, Gas and Mining (UDOGM) records on October 5, 2011. Gathering (pipeline) infrastructure will be utilized to collect and transport gas and fluids from the wells which are owned and operated by Kerr McGee Oil and Gas Onshore LP (Kerr-McGee).

Should the well(s) prove productive, production facilities will be installed on the disturbed portion of each well pad. A berm will be constructed completely around production components (typically excluding dehy's and/or separators) that contain fluids (i.e. production tanks, produced liquids tanks). The berms will generally be constructed of compacted subsoil or corrugated metal, and will hold the capacity of the largest tank and have sufficient freeboard to accommodate a 25 year rainfall event. This includes pumping units. Aboveground structures constructed or installed onsite for 6 months or longer, will be painted a flat, non-reflective, earth-tone color chosen at the onsite in coordination with the BLM (typically Shadow Gray). A production facility layout is provided as part of a project-specific APD, ROW or NOS submission.

GAS GATHERING

Please refer to Exhibit A and Topo D- Pad and Pipeline Detail.

The gas gathering pipeline material: Steel line pipe. Surface = Bare pipe. Buried = Coated with fusion bonded epoxy coating (or equivalent).

Kerr-McGee proposes to install gas gathering lines to tie into a previously approved buried gas pipeline covered under ROW UTU-88692. The total of this proposed gas gathering from the meter to the approved 16" gas pipeline is ±135' and the individual segments are broken up as follows:

The following segments are "onlease", no ROW needed.

- ±60' (0.01 miles) – Section 1 T10S R22E (NE/4 NE/4) – On-lease UTU011336, BLM surface, New 6" buried gas gathering pipeline from the meter to the edge of the pad. Please refer to Topo D2 - Pad and Pipeline Detail.
- ±75' (0.01 miles) – Section 1 T10S R22E (NE/4 NE/4) – On-lease UTU011336, BLM surface, New 6" buried gas gathering pipeline from the edge of the pad to the tie-in at the approved 16" gas gathering pipeline (ROW UTU-88692). Please refer to Exhibit A, Line 1.

LIQUID GATHERING

Please refer to Exhibit B and Topo D- Pad and Pipeline Detail.

Kerr-McGee proposes to install liquid gathering lines to tie into a previously approved buried liquid pipeline covered under ROW UTU-88691. The total of this proposed liquid gathering from the separator to the approved liquid pipeline is ±135' and the individual segments are broken up as follows:

The following segments are "onlease", no ROW needed.

- ±60' (0.01 miles) – Section 1 T10S R22E (NE/4 NE/4) – On-lease UTU011336, BLM surface, New 6" buried liquid gathering pipeline from the separator to the edge of the pad. Please refer to Topo D2 - Pad and Pipeline Detail.
- ±75' (0.01 miles) – Section 1 T10S R22E (NE/4 NE/4) – On-lease UTU011336, BLM surface, New 6" buried liquid gathering pipeline from the edge of the pad to the tie-in at the approved 6" liquid gathering pipeline (ROW UTU-88691). Please refer to Exhibit B, Line 1.

Pipeline Gathering Construction

Gathering (pipeline) infrastructure will be utilized to collect and transport gas and fluids from the wells which are owned and operated by Kerr McGee. Gas gathering pipeline(s), gas lift, or liquids pipelines may be constructed to lie on the surface or be buried. 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. The area of disturbance during construction from the edge of road or well pad will typically be 30' in width. Where pipelines run cross country, the width of disturbance will typically be 45 ft for buried lines and 30 ft for surface lines. In addition, Kerr-McGee requests for a permanent 30' disturbance width that will be maintained for the portion adjacent to the road. The need for the 30' permanent disturbance width is for maintenance and repairs. Cross country permanent disturbance width also are required to be 30ft.

Above-ground installation will generally not require clearing of vegetation or blading of the surface, except where safety considerations necessitate earthwork. In some surface pipeline installation instances pipe cannot be constructed where it will lay. In these cases where an above-ground pipeline is constructed parallel and adjacent to a road, it will be welded/fused on the road and then lifted from the road to the pipeline route. In other cases where a pipeline route is not parallel and adjacent to a road (cross-country between sites), it will be welded/fused in place at a well pad, access road, or designated work area and pulled between connection locations with a suitable piece of equipment.

Buried pipelines will generally be installed parallel and adjacent to existing and/or newly constructed roads and within the permitted disturbance corridor. Buried pipelines may vary from 2 inches (typically fuel gas lines) to 24 inches (typically transportation lines) in diameter, but 6 to 16 inches is typical for a buried gas line. The diameter of liquids pipelines may vary from 2 inches to 12 inches, but 6 inches is the typical diameter. Gas lift lines may vary from 2 to 12 inches in diameter, but 6-inch diameter pipes are generally used for gas lift. If two or more pipelines are present (gas gathering, gas lift, and fluids), they will share a common trench where possible.

Typically, to install a buried pipeline, topsoil will be removed, windrowed and placed on the non-working side of the route for later reclamation. Because working room is limited, the spoil may be spread out across the working side and construction will take place on the spoil. The working side of the corridor will be used for pipe stringing, bending, welding and equipment travel. Small areas on the working side displaying ruts or uneven ground will be groomed to facilitate the safe passage of equipment. After the pipelines are installed, spoil will be placed back into the trench, and the topsoil will be redistributed over the disturbed corridor prior to final reclamation. Typical depth of the trench will be 6 feet, but depths may vary according to site-specific conditions (presence of bedrock, etc.). The proposed trench width for the pipeline would range from 18-48 inches.

The pipeline will be welded along the proposed route and lowered into place. Trenching equipment will cut through the soil or into the bedrock and create good backfill, eliminating the need to remove large rocks. The proposed buried pipeline will be visually and radiographically inspected and the entire pipeline will be pneumatically or hydrostatically tested before being placed into service. Routine vehicle traffic will be prevented from using pipeline routes as travel ways by posting signs at the route's intersection with an access road.

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.

If pipelines or roads encounter a drainage that could be subject to flooding or surface water during extreme precipitation events, Kerr-McGee will apply all applicable Army Corps mandates as well as the BLM's Hydraulic Considerations for Pipeline Crossings of Stream Channels (BLM Technical Note 423, April 2007). In addition, all stream and drainage

crossings will be evaluated to determine the need for stream alteration permits from the State of Utah Division of Water Rights and if necessary, required permits will be secured. Similarly, where a road or pipeline crossing exists the pipe will be butt welded and buried to a depth between 24 and 48 inches or more. Dirt roads will be cut and restored to a condition equivalent to the existing condition. All Uintah County road encroachment and crossing permits, where applicable, will be obtained prior to crossing construction. In no case will pressure testing of pipelines result in discharge of liquids to the surface. Pipeline signs will be installed along the route to indicate the pipeline proximity, ownership, and to provide emergency contact phone numbers. Above ground valves and lateral T's will be installed at various locations for production integrity and safety purposes.

Upon completion of the proposed buried pipeline, the entire area of disturbance will be reclaimed to the standards proposed in the Green River District Reclamation Guidelines. Please refer to section J for more details regarding final reclamation.

When no longer deemed necessary by the operator, Kerr-McGee or its successor will consult with the BLM, Vernal Field Office before terminating of the use of the pipeline(s).

The Anadarko Completions Transportation System (ACTS) information:

Please refer to Exhibit C for ACTs Lines

Kerr-McGee will use either a closed loop drilling system that will require one pit and one storage area to be constructed on the drilling pad or a traditional drilling operation with one pit. The storage area will be used to contain only the de-watered drill cuttings and will be lined and reclaimed according to traditional pit closure standards. The pit will be constructed to allow for completion operations. The completion operations pit is lined and will be used for the wells drilled on the pad or

used as part of our Anadarko Completions Transportation (ACTS) system which is discussed in more detail below. 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/completion pit.

If Kerr-McGee does not use a closed loop system, it will construct a drilling reserve pit to contain drill cuttings and for use in completion operations. Depending on the location of the pit, its relation to future drilling locations, the reserve/completion pit will be utilized for the completion of the wells on that pad and/or be used as part of our ACTS system.

Kerr-McGee will use ACTS to optimize the completion processes for multiple pads across the project area which may include up to a section of development. ACTS will facilitate management of frac fluids by utilizing existing reserve pits and temporary, surface-laid aluminum liquids transfer lines between frac locations. The pit will be refurbished as follows when a traditional drill pit is used: mix and pile up drill cuttings with dry dirt, bury the original liner in the pit, walk bottom of pit with cat. Kerr-McGee will reline the pit with a 30 mil liner and double felt padding. The refurbished pit will be the same size or smaller as specified in the originally approved ROW/APD. The pit refurb will be done in a normal procedure and there will be no modification to the pit.

All four sides of the completions pit will be fenced in according to standard pit fencing procedures. Netting will be installed over all pits.

The collected hydrocarbons will be treated and sold at approved sales facilities. A loading rack with drip containment will also be installed where water trucks would unload and load to prevent damage caused from pulling hoses in and out of the pit .

ACTS will require temporarily laying multiple 6" aluminum water transfer lines on the surface between either existing or refurbished reserve pits. Please see the attached ACTS exhibit C for placement of the proposed temporary lines. The temporary aluminum transfer lines will be utilized to transport frac fluid being injected and/or recovered during the completion process and will be laid adjacent to existing access roads or pipeline corridors. Upon completion of the frac operation, the liquids transfer lines will be flushed with fresh water and purged with compressed air. The contents of the transfer lines will be flushed into a water truck for delivery to another ACTS location or a reserve pit.

The volume of frac fluid transported through a water transfer line will vary, but volume is projected to be approximately 1.75 bbls per 50-foot joint. Although the maximum working pressure is 125 psig, the liquids transfer lines will be operated at a pressure of approximately 30 to 40 psig. Kerr-McGee requests to keep the netted pit open for one year from first production of the first produced well on the pad. During this time the surrounding well location completion fluids may be recycled in this pit and utilized for other frac jobs in the area. After one year Kerr-McGee will backfill the pit and reclaim. If the pit is not needed for an entire year it will be backfilled and reclaimed earlier. Kerr-McGee understands that due to the temporary nature of this system, BLM considers this a casual use situation; therefore, no permanent ROW or temporary use plan will need to be issued by the BLM.

E. Location and Types of Water Supply:

Water for drilling and completion operations will be obtained from the following sources:

Permit # 49-2307	JD Field Services	Green River- Section 15, T2N, R22E
Permit # 49-2321	R.N. Industries	White River- Section 2, T10S, R24E
Permit # 49-2319	R.N. Industries	White River- Various Sources
Permit # 49-2320	R.N. Industries	Green River- Section 33, T8S, R23E

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.

F. Construction Materials:

Construction operations will typically be completed with native materials found on location. 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 (described in site-specific documents). No construction materials will be removed from federal lands without prior approval from the BLM. A source location other than an on-location construction site will be designated either via a map or narrative within the project specific materials provided to the BLM.

G. Methods for Handling Waste:

All wastes subject to regulation will be handled in compliance with applicable laws to minimize the potential for leaks or spills to the environment. Kerr-McGee also maintains a Spill Control and Countermeasure Plan, which includes notification requirements, including the BLM, for all reportable spills of oil, produced liquids, and hazardous materials.

Any accidental release, such as a leak or spill in excess of the reportable quantity, as established by 40 CFR Part 117.3, will be reported as per the requirements of CERCLA, Section 102 B. If a release involves petroleum hydrocarbons or produced liquids, Kerr-McGee will comply with the notification requirements of NTL-3A. Drill cuttings and/or drilling fluids will be contained in the reserve/frac pit whether a closed loop system is used or not. Cuttings will be buried in pit(s) upon closure. Unless specifically approved by the BLM, 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 precipitation runoff into the pit (via appropriate placement of subsoil storage areas and/or construction of berms, ditches, etc). Should unexpected liquid petroleum hydrocarbons (crude oil or condensate) be encountered during drilling, completions or well testing, liquid petroleum hydrocarbons 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 the BLM. Should timely removal not be feasible, the pit will be netted as soon as practical. Similarly, hydrocarbon removal will take place prior to the closure of the pit, unless authorization is provided for disposal via alternate pit closure methods (e.g. solidification).

The reserve and/or fracture stimulation pit will be lined with an impermeable liner. The liner will be a synthetic material 30 mil or thicker. The bottom and side walls of the pit will be void of any sharp rocks that could puncture the liner. 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. After evaporation and when dry, the reserve pit liners will be cut off, ripped and/or folded back (as safety considerations allow) as near to the mud surface as possible and buried on location or hauled to a landfill prior to backfilling the pit with a minimum of five feet of soil material.

Where necessary and if conditions (freeboard, etc.) allow, produced liquids from newly completed wells may be temporarily disposed of into pits for a period not to exceed 90 days as per Onshore Order Number 7 (OSO 7). Subsequently, permanent approved produced water disposal methods will be employed in accordance with OSO 7 and/or as described in a Water Management Plan (WMP). Otherwise, fluids disposal locations and associated haul routes, for ROW consideration, are typically depicted on Topo A of individual projects. Revisions to the water source or method of transportation will be subject to written approval from the BLM.

10/4/2011

RECEIVED: January 31, 2012

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.

Pits containing drilling cuttings, mud, and/or completions fluids will be allowed to dry. Any free fluids remaining after one year 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. Installation and operation of any sprinklers, pumps, and equipment will ensure that water spray or mist does not drift.

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 (trash and other solid waste including cans, paper, cable, etc.) 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. Immediately after removal of the drilling rig, all debris and other waste materials not contained within trash receptacles will be collected and removed from the well location.

For the protection of livestock and wildlife, all open pits (excluding flare pits) will be fenced 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. Siphons, catchments, and absorbent pads will be installed to keep hydrocarbons produced by the drilling rig or other equipment on location from entering the reserve pit. Hydrocarbons, contaminated pads, and/or soils will be disposed of in accordance with state and federal requirements.

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.

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.

Hazardous materials may be contained in some grease or lubricants, solvents, acids, paint, and herbicides, among others as defined above. Kerr-McGee maintains a file, per 29 CFR 1910.1200 (g) containing current Material Safety Data Sheets (MSDS) for all chemicals, compounds, and/or substances that are used during the course of construction, drilling, completion, and production operations for this project. The transport, use, storage and handling of hazardous materials will follow procedures specified by federal and state regulations. Transportation of hazardous materials to the well location is regulated by the Department of Transportation (DOT) under 49 CFR, Parts 171-180. DOT regulations pertain to the packing, container handling, labeling, vehicle placarding, and other safety aspects.

Potentially hazardous materials used in the development or operation of wells will be kept in limited quantities on well sites and at the production facilities for short periods of time. Chemicals meeting the criteria for being an acutely hazardous material/substance or meet the quantities criteria per BLM Instruction Memorandum No. 93-344 will not be used.

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 (crude oil/condensate, produced water). They may also be kept in limited quantities on drilling sites (barite, diesel fuel, cement, cottonseed hulls etc.) for short periods of time during drilling or completion activities.

Fluids disposal and pipeline/haul routes are depicted on Topo Map A.

Any produced water separated from recoverable condensate from the proposed well will be contained in a water tank and will then be transported by pipeline and/or truck to one of the pre-approved disposal sites:

RNI in Sec. 5 T9S R22E
NBU #159 in Sec. 35 T9S R21E
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

Or to one of the following Kerr-McGee active Salt Water Disposal (SWD) wells:

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. 34 T9S R21E

H. Ancillary Facilities:

No additional ancillary facilities are planned for this location.

I. Well Site Layout:

The location, orientation and aerial extent of each drill pad, reserve/completion/flare pit (for closed loop or non-closed loop operations), 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 depending on whether a closed loop system is used. Surface distance may be less if using closed loop. But in either case, the area of disturbance will not exceed the maximum disturbance outlined in the attached exhibits.

For the protection of livestock and wildlife, all open pits and cellars will be fenced 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.

Each well will utilize either a centralized tank battery, centralized fluids management system, or have tanks installed on its pad. Production/ Produced Liquid tanks will be constructed, maintained, and operated to prevent unauthorized surface or subsurface discharges of liquids and to prevent livestock or wildlife entry. The tanks will be kept reasonably free from surface accumulations of liquid hydrocarbons. The tanks are not to be used for disposal of liquids from additional sources without prior approval of BLM.

J. Plans for Surface Reclamation:

The 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. Interim 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 may include pit evaporation, fluid removal, pit solidification, re-contouring, ripping, spreading top soil, seeding, and/or weed control. Interim reclamation will be performed in accordance with OSO 1, or written notification will be provided to the BLM for approval. Where feasible, drilling locations, reserve pits, or access routes not utilized for production operations will be re-contoured to a natural appearance.

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. Disposal of pit fluids and linings is discussed in Section G.

Final Reclamation

Final reclamation will be performed for unproductive wells and after 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 Kerr-McGee. The primary purpose of this inspection will be to review the existing

conditions, or agree upon a revised final reclamation and abandonment plan. The BLM will be notified prior to commencement of reclamation operations. 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 the site to the approximate contour that existed prior to pad construction, final grading will be conducted over the entire surface of the well site and access road. The area will be ripped to a depth of 18 to 24 inches on 18 to 24-inch centers, where practical. The surface soil material will be pitted with small depressions to form longitudinal depressions 12 to 18 inches deep, where practical. The entire area will be uniformly covered with the depressions constructed perpendicular to the natural flow of water.

Reclamation of roads will be performed at the discretion of the BLM. 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 in accordance with the seeding specifications of the BLM.

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

Measures Common to Interim and Final Reclamation

Soil preparation will be conducted using a disk for areas in need of more soil preparation following site preparation. This will provide primary soil tillage to a depth no greater than 6 inches. Prior to reseeding, compacted areas will be scarified by ripping or chiseling to loosen compacted soils, promote water infiltration, and improve soil aeration and root penetration.

Seeding will occur year-round as conditions allow and will typically be accomplished through the use of a no-till rangeland style seed drill with a "picker box" in order to seed "fluffy" seed. Where drill seeding is not the preferred method, seed will be broadcast and then raked into the ground at double the rate of drill seeding. 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 seed mixes will be selected from a list provided by or approved by the BLM, or a specific seed mix will be proposed by Kerr-McGee to the BLM and used after its approval. The selected specific seed mix for each well location and road segment will be utilized while performing interim and final reclamation for each project. All seed will be certified and tags will be maintained by Kerr-McGee. Every effort will be made to obtain "cheat grass free seed".

Seed Mix to be used for Well Site, Access Road, and Pipeline (as applicable):

Shadescale Mix	Pure Live Seed lbs/acre
Indian Ricegrass	3
Sandberg	0.75
Bottlebrush	1
Great Basin	0.5
Crested	1.5
Winterfat	0.25
Shadscale	1.5
Four-wing	0.75
Forage Kochia	0.25
Total	9.5

Additional soil amendments and/or stabilization may be required on sites with poor soils and/or excessive erosion potential. Where severe erosion can become a problem and/or the use of machinery is not practical, seed will be hand broadcast and raked with twice the specified amount of seed. Slopes 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, hydro-mulch, and/or bonded fiber matrix at a rate to achieve a minimum of 80 percent soil coverage. Soil amendments such as "Sustain" (an organic fertilizer that will be applied at the rate 1,800 – 2,100 lbs/acre with seed) may also be dry broadcast or applied with hydro-seeding equipment.

Weed Control

All weed management will be done in accordance with the Vernal BLM Surface Disturbance Weed Policy. Noxious weeds will be controlled, as applicable, on project areas. Monitoring and management of noxious and/or invasive weeds of concern will be completed annually until the project is deemed successfully reclaimed by the surface management agency and/or owner according to the Anadarko Integrated Weed Management Plan. Noxious weed infestations will be mapped using a GPS unit and submitted to the BLM with information required in the Vernal BLM Surface Disturbance Weed Policy. If herbicide is to be applied it will be done according to an approved Pesticide Use Permit (PUP), inclusive of applicable locations. All pesticide applications will be recorded using a Pesticide Application Record (PAR) and will be submitted along with a Pesticide Use Report (PUR) annually prior to Dec. 31.

Monitoring

Monitoring of reclaimed project areas will be completed annually during the growing season and actions to ensure reclamation success will be taken as needed. During the first two growing seasons an ocular methodology will be used to determine the success of the reclamation activities. During the 3rd growing season a 200 point line intercept (quantitative) methodology will be used to obtain basal cover. The goal is to have the reclaimed area reach 30% basal cover when compared to the reference site. If after three growing seasons the area has not reached 30% basal cover, additional reclamation activities may be necessary. Monitoring will continue until the reclaimed area reaches 75% basal cover of desirable vegetation when compared to the reference site. (Green River District Reclamation Guidelines)

All monitoring reports will be submitted electronically to the Vernal BLM in the form of a geo-database no later than March 1st of the calendar year following the data collection.

K. Surface/Mineral Ownership:

United States of America
Bureau of Land Management
170 South 500 East
Vernal, UT 84078
(435)781-4400

L. Other Information:**Cultural and Paleontological Resources**

All personnel are strictly prohibited from collecting artifacts, any paleontological specimens or fossils, and from disturbing any significant cultural resources in the area. If artifacts, fossils, or any culturally sensitive materials are exposed or identified in the area of construction, all construction operations that would affect the newly discovered resource will cease, and Kerr-McGee will provide immediate notification to the BLM.

Resource Reports:

A Class I literature survey was completed in May 2011 by Montgomery Archaeological Consultants, Inc (MOAC). For additional details please refer to report MOAC 11-145.

A paleontological reconnaissance survey was completed on June 9, 2010 by SWCA Environmental Consultants. For additional details please refer to reports UT11-14314-21, UT11-14314-32 and UT11-14314-33.

Biological field survey was completed on May 10 and June 10, 2011 by Grasslands Consulting, Inc (GCI). For additional details please refer to reports GCI-558 and GCI 559.

Proposed Action Annual Emissions Tables:

Table 1: Proposed Action Annual Emissions (tons/year)¹			
Pollutant	Development	Production	Total
NOx	3.8	0.12	3.92
CO	2.2	0.11	2.31
VOC	0.1	4.9	5
SO ₂	0.005	0.0043	0.0093
PM ₁₀	1.7	0.11	1.81
PM _{2.5}	0.4	0.025	0.425
Benzene	2.2E-03	0.044	0.046
Toluene	1.6E-03	0.103	0.105
Ethylbenzene	3.4E-04	0.005	0.005
Xylene	1.1E-03	0.076	0.077
n-Hexane	1.7E-04	0.145	0.145
Formaldehyde	1.3E-02	8.64E-05	1.31E-02

¹ Emissions include 1 producing well and associated operations traffic during the year in which the project is developed

Table 2: Proposed Action versus 2012 WRAP Phase III Emissions Inventory Comparison			
Species	Proposed Action Production Emissions (ton/yr)	WRAP Phase III 2012 Uintah Basin Emission Inventory^a (ton/yr)	Percentage of Proposed Action to WRAP Phase III
NOx	19.6	16,547	0.12%
VOC	25	127,495	0.02%

^a http://www.wrapair.org/forums/ogwg/PhaseIII_Inventory.html

Uintah Basin Data

NBU 1022-1A1BS / 1022-1A1CS /
1022-1A4BS / 1022-1A4CS /1022-1H1CS

NBU 1022-1A Pad
Surface Use Plan of Operations
15 of 15

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

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

Tommy Thompson
General Manager, Drilling
Kerr-McGee Oil & Gas Onshore LP
PO Box 173779
Denver, CO 80217-3779
(720) 929-6724

Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

The Operator will be fully responsible for the actions of its subcontractors. A complete copy of the approved "Application for Permit to Drill" will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

Kerr-McGee Oil & Gas Onshore LP is considered to be the operator of the subject well. Kerr-McGee Oil & Gas Onshore LP agrees to be responsible under terms and conditions of the lease for the operations conducted upon leased lands.

Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by Bureau of Land Management Nationwide Bond WYB000291.

I hereby certify that I, or persons under my supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions that currently exist; that I have full knowledge of the State and Federal laws applicable to this operation; that the statements made in this plan are, to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.



Gina T. Becker

October 5, 2011

Date



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

September 28, 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 1022-1A1BS
T10S-R22E
Section 1: NENE/NENE
Surface: 1030' FNL, 663' FEL
Bottom Hole: 99' FNL, 498' FEL
Uintah County, Utah

Dear Ms. Mason:

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

- Kerr-McGee's NBU 1022-1A1BS is located within the Natural Buttes Unit area.
- Kerr-McGee is permitting this well as a directional well in order to minimize surface disturbance. Locating the well at the surface location and directionally drilling from this location, Kerr-McGee will be able to utilize the existing road and pipelines in the area.
- Furthermore, Kerr-McGee certifies that it is the sole working interest owner within 460 feet of the entire directional well bore.

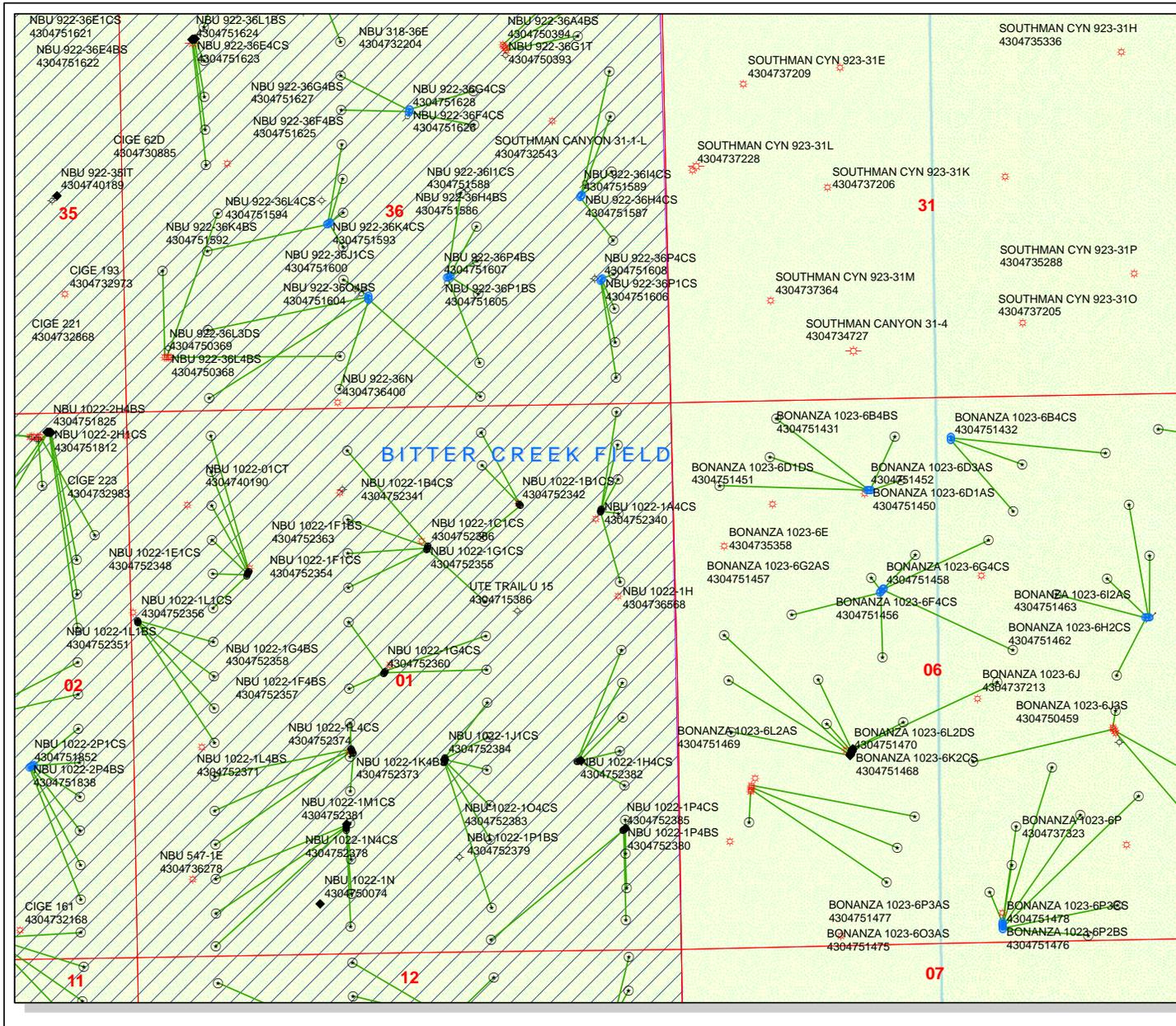
Therefore, based on the above stated information Kerr-McGee Oil & Gas Onshore LP requests the permit be granted pursuant to R649-3-11.

Sincerely,

KERR-MCGEE OIL & GAS ONSHORE LP

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

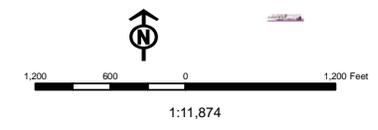
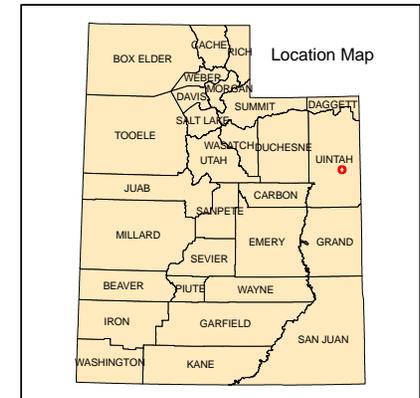
Joseph D. Johnson
Landman



API Number: 4304752335
Well Name: NBU 1022-1A1BS
Township T1.0 Range R2.2 Section 01
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 | DRIL - Spudded (Drilling Commenced) |
| GAS STORAGE | GIW - Gas Injection |
| NF PP OIL | GS - Gas Storage |
| NF SECONDARY | LA - Location Abandoned |
| PI OIL | LOC - New Location |
| PP GAS | OPS - Operation Suspended |
| PP GEOTHERM. | 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 | WWI - Water Injection Well |
| STORAGE | WSW - Water Supply Well |
| TERMINATED | |



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)

February 10, 2012

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
-------	-----------	----------

(Proposed PZ WASATCH-MESA VERDE)

WELL PAD - NBU 1022-25D

43-047-52295	NBU 1022-25C2DS	Sec 25 T10S R22E 0653 FNL 0339 FWL
	BHL	Sec 25 T10S R22E 0488 FNL 1933 FWL

43-047-52296	NBU 1022-25C3DS	Sec 25 T10S R22E 0730 FNL 0314 FWL
	BHL	Sec 25 T10S R22E 1147 FNL 1931 FWL

43-047-52297	NBU 1022-25C3AS	Sec 25 T10S R22E 0732 FNL 0324 FWL
	BHL	Sec 25 T10S R22E 0820 FNL 1938 FWL

43-047-52298	NBU 1022-25D2DS	Sec 25 T10S R22E 0650 FNL 0319 FWL (BH)
	BHL	Sec 25 T10S R22E 0485 FNL 0630 FWL

43-047-52299	NBU 1022-25F2AS	Sec 25 T10S R22E 0652 FNL 0329 FWL
	BHL	Sec 25 T10S R22E 1482 FNL 1955 FWL

43-047-52300	NBU 1022-25D3DS	Sec 25 T10S R22E 0727 FNL 0295 FWL
	BHL	Sec 25 T10S R22E 1152 FNL 0630 FWL

43-047-52301	NBU 1022-25D3AS	Sec 25 T10S R22E 0729 FNL 0305 FWL
	BHL	Sec 25 T10S R22E 0822 FNL 0631 FWL

43-047-52302	NBU 1022-25E2AS	Sec 25 T10S R22E 0648 FNL 0309 FWL
	BHL	Sec 25 T10S R22E 1479 FNL 0631 FWL

WELL PAD - NBU 1022-1A

43-047-52335	NBU 1022-1A1BS	Sec 01 T10S R22E 1030 FNL 0663 FEL
	BHL	Sec 01 T10S R22E 0099 FNL 0498 FEL

RECEIVED: February 10, 2012

API #	WELL NAME			LOCATION						
(Proposed PZ WASATCH-MESA VERDE)										
43-047-52336	NBU 1022-1A1CS	Sec	01	T10S	R22E	1040	FNL	0665	FEL	
	BHL	Sec	01	T10S	R22E	0416	FNL	0493	FEL	
43-047-52337	NBU 1022-1A4BS	Sec	01	T10S	R22E	1050	FNL	0667	FEL	
	BHL	Sec	01	T10S	R22E	0748	FNL	0493	FEL	
43-047-52338	NBU 1022-1H1CS	Sec	01	T10S	R22E	1069	FNL	0670	FEL	
	BHL	Sec	01	T10S	R22E	1745	FNL	0493	FEL	
43-047-52340	NBU 1022-1A4CS	Sec	01	T10S	R22E	1059	FNL	0668	FEL	
	BHL	Sec	01	T10S	R22E	1083	FNL	0497	FEL	
WELL PAD - NBU 1022-1B										
43-047-52339	NBU 1022-1B1BS	Sec	01	T10S	R22E	0976	FNL	1453	FEL	
	BHL	Sec	01	T10S	R22E	0262	FNL	1811	FEL	
43-047-52341	NBU 1022-1B4CS	Sec	01	T10S	R22E	0984	FNL	1447	FEL	
	BHL	Sec	01	T10S	R22E	1282	FNL	1825	FEL	
43-047-52342	NBU 1022-1B1CS	Sec	01	T10S	R22E	0968	FNL	1459	FEL	
	BHL	Sec	01	T10S	R22E	0580	FNL	1812	FEL	
WELL PAD - NBU 1022-1E1										
43-047-52343	NBU 1022-1D1BS	Sec	01	T10S	R22E	1559	FNL	1172	FWL	
	BHL	Sec	01	T10S	R22E	0238	FNL	0820	FWL	
43-047-52344	NBU 1022-1D1CS	Sec	01	T10S	R22E	1568	FNL	1168	FWL	
	BHL	Sec	01	T10S	R22E	0585	FNL	0820	FWL	
43-047-52345	NBU 1022-1D4BS	Sec	01	T10S	R22E	1577	FNL	1164	FWL	
	BHL	Sec	01	T10S	R22E	0912	FNL	0822	FWL	
43-047-52346	NBU 1022-1D4CS	Sec	01	T10S	R22E	1586	FNL	1160	FWL	
	BHL	Sec	01	T10S	R22E	1244	FNL	0822	FWL	
43-047-52347	NBU 1022-1E1BS	Sec	01	T10S	R22E	1596	FNL	1156	FWL	
	BHL	Sec	01	T10S	R22E	1576	FNL	0821	FWL	
43-047-52348	NBU 1022-1E1CS	Sec	01	T10S	R22E	1605	FNL	1152	FWL	
	BHL	Sec	01	T10S	R22E	1909	FNL	0821	FWL	
WELL PAD - NBU 1022-1E3										
43-047-52349	NBU 1022-1E4BS	Sec	01	T10S	R22E	2011	FNL	0086	FWL	
	BHL	Sec	01	T10S	R22E	2241	FNL	0821	FWL	
43-047-52350	NBU 1022-1E4CS	Sec	01	T10S	R22E	2020	FNL	0088	FWL	
	BHL	Sec	01	T10S	R22E	2573	FNL	0821	FWL	
43-047-52351	NBU 1022-1L1BS	Sec	01	T10S	R22E	2030	FNL	0091	FWL	
	BHL	Sec	01	T10S	R22E	2409	FSL	0820	FWL	
43-047-52356	NBU 1022-1L1CS	Sec	01	T10S	R22E	2040	FNL	0094	FWL	
	BHL	Sec	01	T10S	R22E	2077	FSL	0820	FWL	
WELL PAD - NBU 1022-1F										
43-047-52352	NBU 1022-1K1BS	Sec	01	T10S	R22E	2588	FNL	2468	FWL	
	BHL	Sec	01	T10S	R22E	2574	FSL	2136	FWL	

API #	WELL NAME			LOCATION						
(Proposed PZ WASATCH-MESA VERDE)										
43-047-52357	NBU 1022-1F4BS	Sec	01	T10S	R22E	2573	FNL	2480	FWL	
	BHL	Sec	01	T10S	R22E	2076	FNL	2138	FWL	
43-047-52358	NBU 1022-1G4BS	Sec	01	T10S	R22E	2565	FNL	2486	FWL	
	BHL	Sec	01	T10S	R22E	2242	FNL	1808	FEL	
43-047-52360	NBU 1022-1G4CS	Sec	01	T10S	R22E	2580	FNL	2474	FWL	
	BHL	Sec	01	T10S	R22E	2574	FNL	1808	FEL	
WELL PAD - NBU 1022-1G										
43-047-52353	NBU 1022-1C4CS	Sec	01	T10S	R22E	1366	FNL	2354	FEL	
	BHL	Sec	01	T10S	R22E	1080	FNL	2140	FWL	
43-047-52354	NBU 1022-1F1CS	Sec	01	T10S	R22E	1395	FNL	2362	FEL	
	BHL	Sec	01	T10S	R22E	1744	FNL	2138	FWL	
43-047-52355	NBU 1022-1G1CS	Sec	01	T10S	R22E	1385	FNL	2359	FEL	
	BHL	Sec	01	T10S	R22E	1909	FNL	1809	FEL	
43-047-52363	NBU 1022-1F1BS	Sec	01	T10S	R22E	1375	FNL	2357	FEL	
	BHL	Sec	01	T10S	R22E	1412	FNL	2139	FWL	
43-047-52386	NBU 1022-1C1CS	Sec	01	T10S	R22E	1356	FNL	2351	FEL	
	BHL	Sec	01	T10S	R22E	0415	FNL	2141	FWL	
WELL PAD - NBU 1022-1J										
43-047-52359	NBU 1022-1J1BS	Sec	01	T10S	R22E	1887	FSL	2226	FEL	
	BHL	Sec	01	T10S	R22E	2410	FSL	1807	FEL	
43-047-52362	NBU 1022-1O1BS	Sec	01	T10S	R22E	1847	FSL	2232	FEL	
	BHL	Sec	01	T10S	R22E	1081	FSL	1805	FEL	
43-047-52366	NBU 1022-1J4CS	Sec	01	T10S	R22E	1857	FSL	2231	FEL	
	BHL	Sec	01	T10S	R22E	1413	FSL	1805	FEL	
43-047-52367	NBU 1022-1O4BS	Sec	01	T10S	R22E	1838	FSL	2234	FEL	
	BHL	Sec	01	T10S	R22E	0417	FSL	1804	FEL	
43-047-52384	NBU 1022-1J1CS	Sec	01	T10S	R22E	1877	FSL	2227	FEL	
	BHL	Sec	01	T10S	R22E	2078	FSL	1807	FEL	
WELL PAD - NBU 1022-1K										
43-047-52361	NBU 1022-1M1BS	Sec	01	T10S	R22E	1966	FSL	2158	FWL	
	BHL	Sec	01	T10S	R22E	1081	FSL	0819	FWL	
43-047-52365	NBU 1022-1K1CS	Sec	01	T10S	R22E	1994	FSL	2146	FWL	
	BHL	Sec	01	T10S	R22E	2242	FSL	2136	FWL	
43-047-52370	NBU 1022-1K4CS	Sec	01	T10S	R22E	1948	FSL	2166	FWL	
	BHL	Sec	01	T10S	R22E	1578	FSL	2134	FWL	
43-047-52371	NBU 1022-1L4BS	Sec	01	T10S	R22E	1985	FSL	2150	FWL	
	BHL	Sec	01	T10S	R22E	1745	FSL	0820	FWL	

API #	WELL NAME			LOCATION						
(Proposed PZ WASATCH-MESA VERDE)										
43-047-52373	NBU 1022-1K4BS	Sec	01	T10S	R22E	1957	FSL	2162	FWL	
	BHL	Sec	01	T10S	R22E	1910	FSL	2135	FWL	
43-047-52374	NBU 1022-1L4CS	Sec	01	T10S	R22E	1975	FSL	2154	FWL	
	BHL	Sec	01	T10S	R22E	1413	FSL	0819	FWL	
WELL PAD - NBU 1022-1I										
43-047-52364	NBU 1022-1I4CS	Sec	01	T10S	R22E	1828	FSL	0928	FEL	
	BHL	Sec	01	T10S	R22E	1579	FSL	0492	FEL	
43-047-52368	NBU 1022-1I1BS	Sec	01	T10S	R22E	1826	FSL	0937	FEL	
	BHL	Sec	01	T10S	R22E	2576	FSL	0492	FEL	
43-047-52369	NBU 1022-1I1CS	Sec	01	T10S	R22E	1830	FSL	0918	FEL	
	BHL	Sec	01	T10S	R22E	2243	FSL	0492	FEL	
43-047-52382	NBU 1022-1H4CS	Sec	01	T10S	R22E	1824	FSL	0947	FEL	
	BHL	Sec	01	T10S	R22E	2410	FNL	0492	FEL	
WELL PAD - NBU 1022-1N										
43-047-52372	NBU 1022-1M4CS	Sec	01	T10S	R22E	1228	FSL	2092	FWL	
	BHL	Sec	01	T10S	R22E	0098	FSL	0810	FWL	
43-047-52375	NBU 1022-1M4BS	Sec	01	T10S	R22E	1238	FSL	2093	FWL	
	BHL	Sec	01	T10S	R22E	0416	FSL	0819	FWL	
43-047-52376	NBU 1022-1N1CS	Sec	01	T10S	R22E	1218	FSL	2092	FWL	
	BHL	Sec	01	T10S	R22E	0914	FSL	2133	FWL	
43-047-52377	NBU 1022-1N4BS	Sec	01	T10S	R22E	1208	FSL	2091	FWL	
	BHL	Sec	01	T10S	R22E	0581	FSL	2132	FWL	
43-047-52378	NBU 1022-1N4CS	Sec	01	T10S	R22E	1198	FSL	2090	FWL	
	BHL	Sec	01	T10S	R22E	0262	FSL	2124	FWL	
43-047-52381	NBU 1022-1M1CS	Sec	01	T10S	R22E	1248	FSL	2094	FWL	
	BHL	Sec	01	T10S	R22E	0748	FSL	0819	FWL	
WELL PAD - NBU 1022-1P										
43-047-52379	NBU 1022-1P1BS	Sec	01	T10S	R22E	1168	FSL	0485	FEL	
	BHL	Sec	01	T10S	R22E	1246	FSL	0491	FEL	
43-047-52380	NBU 1022-1P4BS	Sec	01	T10S	R22E	1154	FSL	0500	FEL	
	BHL	Sec	01	T10S	R22E	0582	FSL	0491	FEL	
43-047-52383	NBU 1022-1O4CS	Sec	01	T10S	R22E	1141	FSL	0515	FEL	
	BHL	Sec	01	T10S	R22E	0106	FSL	1816	FEL	
43-047-52385	NBU 1022-1P4CS	Sec	01	T10S	R22E	1148	FSL	0508	FEL	
	BHL	Sec	01	T10S	R22E	0270	FSL	0503	FEL	

The NBU 1022-25D2DS, 43-047-52298, is being permitted to target productive horizons below the unitized zone of the Natural Buttes Unit as defined in Section 3 of said agreement. We recommend not approving commingling of production with these zones and the unitized zones of the Natural Buttes Unit until this matter has been resolved by the BLM's Utah State Office.

This office has no other 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: 2012.02.10 08:36:59 -07'00'

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

MCoulthard:mc:2-10-12

WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 2/3/2012

API NO. ASSIGNED: 43047523350000

WELL NAME: NBU 1022-1A1BS

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

PHONE NUMBER: 720 929-6086

CONTACT: Gina Becker

PROPOSED LOCATION: NENE 01 100S 220E

Permit Tech Review:

SURFACE: 1030 FNL 0663 FEL

Engineering Review:

BOTTOM: 0099 FNL 0498 FEL

Geology Review:

COUNTY: UINTAH

LATITUDE: 39.98245

LONGITUDE: -109.38134

UTM SURF EASTINGS: 638207.00

NORTHINGS: 4427064.00

FIELD NAME: NATURAL BUTTES

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU-011336

PROPOSED PRODUCING FORMATION(S): WASATCH-MESA VERDE

SURFACE OWNER: 1 - Federal

COALBED METHANE: NO

RECEIVED AND/OR REVIEWED:

- PLAT
- Bond: FEDERAL - WYB000291
- 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

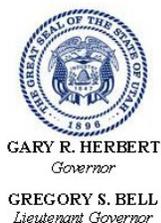
Commingle Approved

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: Suspends General Siting
- R649-3-11. Directional Drill

Comments: Presite Completed

Stipulations: 3 - Commingle - ddoucet
 4 - Federal Approval - dmason
 15 - Directional - dmason
 17 - Oil Shale 190-5(b) - dmason



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 1022-1A1BS
API Well Number: 43047523350000
Lease Number: UTU-011336
Surface Owner: FEDERAL
Approval Date: 2/15/2012

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:

State approval of this well does not supercede the required federal approval, which must be obtained prior to drilling.

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.

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 at 801-538-5284

(please leave a voicemail message if not available)

OR

submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website

at <http://oilgas.ogm.utah.gov>

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

RECEIVED

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCT 20 2011

APPLICATION FOR PERMIT TO DRILL OR REENTER **BLM VERNAL, UTAH**

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. UTU011336
1b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name
2. Name of Operator KERR-MCGEE OIL & GAS ONSHORE		7. If Unit or CA Agreement, Name and No. UTU63047A
Contact: GINA T BECKER Email: GINA.BECKER@ANADARKO.COM		8. Lease Name and Well No. NBU 1022-1A1BS
3a. Address P.O. BOX 173779 DENVER, CO 80202-3779	3b. Phone No. (include area code) Ph: 720-929-6086 Fx: 720-929-7086	9. API Well No. 43-047-52335
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface NENE Lot 01 1030FNL 663FWL 39.982407 N Lat, 109.381204 W Lon At proposed prod. zone SWNE Lot 01 99FNL 498FEL 39.949610 N Lat, 109.380635 W Lon		10. Field and Pool, or Exploratory NATURAL BUTTES
14. Distance in miles and direction from nearest town or post office* APPROXIMATELY 46 MILES SOUTH OF VERNAL, UTAH		11. Sec., T., R., M., or Blk. and Survey or Area Sec 1 T10S R22E Mer SLB
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 99	16. No. of Acres in Lease 522.84	12. County or Parish UINTAH
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. 1055	19. Proposed Depth 8748 MD 8602 TVD	13. State UT
21. Elevations (Show whether DF, KB, RT, GL, etc.) 5080 GL	22. Approximate date work will start 03/01/2012	17. Spacing Unit dedicated to this well
		20. BLM/BIA Bond No. on file WYB000291
		23. Estimated duration 60-90 DAYS

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

- | | |
|---|--|
| 1. Well plat certified by a registered surveyor. | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan. | 5. Operator certification |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be required by the authorized officer. |

25. Signature (Electronic Submission)	Name (Printed/Typed) GINA T BECKER Ph: 720-929-6086	Date 10/10/2011
Title REGULATORY ANALYST II		
Approved by (Signature) 	Name (Printed/Typed) Jerry Kenczka	Date JUN 19 2012
Title Assistant Field Manager Lands & Mineral Resources	Office VERNAL FIELD OFFICE	

Application approval does not warrant or certify the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Additional Operator Remarks (see next page)

Electronic Submission #119683 verified by the BLM Well Information System
For KERR-MCGEE OIL & GAS ONSHORE, sent to the Vernal

UDOGM

NOTICE OF APPROVAL

CONDITIONS OF APPROVAL ATTACHED

**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ****

RECEIVED
JUL 03 2012

DIV. OF OIL, GAS & MINING

171RR01010A9

APD Dated 10/24/11



UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
VERNAL FIELD OFFICE

170 South 500 East

VERNAL, UT 84078

(435) 781-4400



CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company: Kerr McGee Oil & Gas Onshore
Well No: NBU 1022-1A1BS
API No: 43-047-52335

Location:
Lease No:
Agreement:

Lot 1, Sec. 1, T10S, R22E
UTU-011336
Natural Buttes

OFFICE NUMBER: (435) 781-4400

OFFICE FAX NUMBER: (435) 781-3420

**A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR
FIELD REPRESENTATIVE TO INSURE COMPLIANCE**

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. **This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.**

NOTIFICATION REQUIREMENTS

Location Construction (Notify Environmental Scientist)	-	Forty-Eight (48) hours prior to construction of location and access roads.
Location Completion (Notify Environmental Scientist)	-	Prior to moving on the drilling rig.
Spud Notice (Notify Petroleum Engineer)	-	Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to running casing and cementing all casing strings to: blm_ut_vn_opreport@blm.gov
BOP & Related Equipment Tests (Notify Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify Petroleum Engineer)	-	Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

**SURFACE USE PROGRAM
CONDITIONS OF APPROVAL (COAs)**

- All new and replacement internal combustion gas field engines of less than or equal to 300 design-rated horsepower must not emit more than 2 gms of NO_x per horsepower-hour. This requirement does not apply to gas field engines of less than or equal to 40 design-rated horsepower.
- All and replacement internal combustion gas field engines of greater than 300 design rated horsepower must not emit more than 1.0 gms of NO_x per horsepower-hour.
- If there is an active Gilsonite mining operation within 2 miles of the well location, operator shall notify the Gilsonite operator at least 48 hours prior to any blasting during construction.
- If paleontological materials are uncovered during construction, the operator is to immediately stop work and contact the Authorized Officer (AO). A determination will be made by the AO as to what mitigation may be necessary for the discovered paleontologic material before construction can continue.

Site Specific COA's

- All new and replacement internal combustion gas field engines of less than or equal to 300 design-rated horse power must not emit more than 2 grams of NO_x per horsepower-hour. This requirement does not apply to gas field engines of less than or equal to 40 design-rated horsepower-hour.
- All new and replacement internal combustion gas field engines of greater than 300 design rated horsepower must not emit more than 1.0 grams of NO_x per horsepower-hour.
- The following would be used as standard operating procedures: Green completion or controlled VOC emissions methods with 90% efficiency for Oil or Gas Atmospheric Storage Tanks, VOC Venting controls or flaring, Glycol Dehydration and Amine Unites, Well Completion, Re-Completion, Venting, and Planned Blowdown Emissions.
- All reclamation will comply with the Green River Reclamation Guidelines.
- All vehicles and equipment shall be cleaned either through power-washing, or other approved method, if the vehicles or equipment were previously operated outside the Uinta Basin, to prevent weed seed introduction.
- All disturbance areas shall be monitored for noxious weeds annually, for a minimum of three growing seasons following completion of project or until desirable vegetation is established.
- Noxious and invasive weeds will be controlled throughout the area of project disturbance.
- Noxious weeds will be inventoried and reported to BLM in the annual reclamation report. Where an integrated pest management program is applicable, coordination has been undertaken with the state and local management program (if existing). A copy of the pest management plan will be submitted for each project.
- A pesticide use proposal (PUP) will be obtained for the project.

- A permitted paleontologist is to be present to monitor construction at well pads CIGE 31 (AKA NBU 1022-1E1) and NBU 1022-1I during all surface disturbing activities: examples include the following building of the well pad, access road, and pipelines.
- The best method to avoid entrainment is to pump from an off-channel location – one that does not connect to the river during high spring flows. An infiltration gallery constructed in a BLM and Service approved location is best.
- If the pump head is located in the river channel where larval fish are known to occur, the following measures apply:
 - a. do not situate the pump in a low-flow or no-flow area as these habitats tend to concentrate larval fishes;
 - b. limit the amount of pumping, to the greatest extent possible, during that period of the year when larval fish may be present (April 1 to August 31); and
 - c. limit the amount of pumping, to the greatest extent possible, during the pre-dawn hours as larval drift studies indicate that this is a period of greatest daily activity.
- Screen all pump intakes with 3/32 inch mesh material.
- Approach velocities for intake structures will follow the National Marine Fisheries Service's document "Fish Screening Criteria for Anadromous Salmonids". For projects with an in-stream intake that operate in stream reaches where larval fish may be present, the approach velocity will not exceed 0.33 feet per second (ft/s).
- Report any fish impinged on the intake screen to the Service (801.975.3330) and the Utah Division of Wildlife Resources:
 - Northeastern Region
 - 152 East 100 North, Vernal, UT 84078
 - Phone: (435) 781-9453
- Kerr McGee can only use the following water source:
Permit # 49-2307 JD Field Services Green River-Section 15, T2N, R22E

The following measures are required by and have been committed to by Anadarko for all areas where surface disturbing activities cannot be avoided by the required 300 foot buffer from identified Uinta Basin hookless cactus individuals.

- Silt fencing will be used to protect populations within 300 feet of surface disturbing activities that are downslope or downwind of the surface disturbance
- A qualified botanist will be on site to monitor the surface-disturbing activities.
- Dust abatement will occur and will be done using only water.
- All cacti within 300 feet will be flagged immediately prior to surface-disturbing activities are completed.
- Pipelines will be located to the far side of the ROW to maximize distance from cacti.

- Project personnel associated with construction activities would be instructed to drive a speed limit of 15 miles per hour on unpaved roads and to remain on the existing roads and approved ROW at all times.

To maintain compliance with current cactus survey protocols, the following measures will be required.

- If construction does not occur within 4 years of the original survey date, new 100% clearance surveys will be required.
- Prior to construction within 4 years of the original survey date, a spot check survey will be required during the year of construction. KMG and their respective 3rd party surveyor will refer to the current *Sclerocactus* Spot Check Survey Methods, to determine site specific survey distances and intensity levels.
- Spot check reports will be reported to the BLM and the US Fish and Wildlife Service.
- Construction will not commence until written approval is received from the BLM.

Discovery Stipulation: Reinitiation of section 7 consultation with the USFWS will be sought immediately if any loss of plants or occupied habitat for Pariette cactus or Uinta Basin hookless cactus is anticipated as a result of project activities.

**DOWNHOLE PROGRAM
CONDITIONS OF APPROVAL (COAs)**

SITE SPECIFIC DOWNHOLE COAs:

- A copy of Kerr McGee's Standard Operating Practices (SOP version: dated 7/17/08 and approved 7/28/08) shall be on location.
- Surface casing cement shall be brought to surface.
- Production casing cement shall be brought 200' up and into the surface casing.

All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to. The following items are emphasized:

DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- **Cement baskets shall not be run on surface casing.**
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each

encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.

- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- **Please submit an electronic copy of all other logs run on this well in LAS format to BLM_UT_VN_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.**
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- For information regarding production reporting, contact the Office of Natural Resources Revenue (ONRR) at www.ONRR.gov.
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
 - Operator name, address, and telephone number.
 - Well name and number.
 - Well location (¼¼, Sec., Twn, Rng, and P.M.).
 - Date well was placed in a producing status (date of first production for which royalty will be paid).
 - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
 - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
 - Unit agreement and/or participating area name and number, if applicable.
 - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs,

core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-011336
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 1022-1A1BS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047523350000
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: 1030 FNL 0663 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENE Section: 01 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 checked="" type="checkbox"/> SPUD REPORT Date of Spud: 2/4/2013	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input 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 February 4, 2013 AT
 16:00 HRS.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
 February 12, 2013

NAME (PLEASE PRINT) Lindsey Frazier	PHONE NUMBER 720 929-6857	TITLE Regulatory Analyst II
SIGNATURE N/A	DATE 2/11/2013	

BLM - Vernal Field Office - Notification Form

Operator KERR-McGEE OIL & GAS Rig Name/# BUCKET RIG
 Submitted By L. Urban Phone Number 720.929.6501
 Well Name/Number NBU 1022-1A1BS
 Qtr/Qtr NE/NE Section 01 Township 10S Range 22E
 Lease Serial Number UTU-011336
 API Number 4304752335

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

Date/Time 2/4/2013 07:00 HRS AM PM

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

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

Date/Time 2/8/2013 08:00 HRS AM PM

BOPE

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

Date/Time _____ AM PM

Remarks ESTIMATED DATE AND TIME. PLEASE CONTACT KENNY GATHINGS AT
435.828.0986 OR LOVEL YOUNG AT 435.781.7051

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

FORM 6

ENTITY ACTION FORM

Operator: KERR McGEE OIL & GAS ONSHORE LP Operator Account Number: N 2995
Address: P.O. Box 173779
city DENVER
state CO zip 80217 Phone Number: (720) 929-6857

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304752338	NBU 1022-1H1CS		NENE	1	10S	22E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
B	99999	2900	2/4/2013			2/19/2013	
Comments: MIRU TRIPLE A BUCKET RIG. SPUD WELL LOCATION ON February 4, 2013 AT 10:00 HRS. WSMVD -							

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304752337	NBU 1022-1A4BS		NENE	1	10S	22E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
B	99999	2900	2/4/2013			2/19/2013	
Comments: MIRU TRIPLE A BUCKET RIG. SPUD WELL LOCATION ON February 4, 2013 AT 13:00 HRS. WSMVD -							

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304752335	NBU 1022-1A1BS		NENE	1	10S	22E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
B	99999	2900	2/4/2013			2/19/2013	
Comments: MIRU TRIPLE A BUCKET RIG. SPUD WELL LOCATION ON February 4, 2013 AT 16:00 HRS. WSMVD							

ACTION CODES:

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

Lindsey Frazier

Name (Please Print)

Signature

REGULATORY ANALYST II 2/11/2013

Title

Date

RECEIVED
FEB 11 2013

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

FORM 6

ENTITY ACTION FORM

Operator: KERR MCGEE OIL & GAS ONSHORE LP Operator Account Number: N 2995
 Address: P.O. Box 173779
city DENVER
state CO zip 80217 Phone Number: (720) 929-6857

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304752338	NBU 1022-1H1CS		NENE	1	10S	22E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
B	99999	2900	2/4/2013			2/19/2013	
Comments: MIRU TRIPLE A BUCKET RIG. SPUD WELL LOCATION ON February 4, 2013 AT 10:00 HRS. WSMVD -							

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304752337	NBU 1022-1A4BS		NENE	1	10S	22E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
B	99999	2900	2/4/2013			2/19/2013	
Comments: MIRU TRIPLE A BUCKET RIG. SPUD WELL LOCATION ON February 4, 2013 AT 13:00 HRS. WSMVD -							

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304752335	NBU 1022-1A1BS		NENE	1	10S	22E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
B	99999	2900	2/4/2013			2/19/2013	
Comments: MIRU TRIPLE A BUCKET RIG. SPUD WELL LOCATION ON February 4, 2013 AT 16:00 HRS. WSMVD							

ACTION CODES:

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

RECEIVED
FEB 11 2013

Lindsey Frazier
 Name (Please Print) _____
 Signature _____
 REGULATORY ANALYST II 2/11/2013
 Title Date

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-011336	
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	
8. WELL NAME and NUMBER: NBU 1022-1A1BS	
9. API NUMBER: 43047523350000	
9. FIELD and POOL or WILDCAT: NATURAL BUTTES	
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: 1030 FNL 0663 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENE Section: 01 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: 4/3/2013	<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
	<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 March 2013. Well TD at 2,460

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

NAME (PLEASE PRINT) Teena Paulo	PHONE NUMBER 720 929-6236	TITLE Staff Regulatory Specialist
SIGNATURE N/A	DATE 4/3/2013	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-011336	
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:	
7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES	
8. WELL NAME and NUMBER: NBU 1022-1A1BS	
9. API NUMBER: 43047523350000	
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: 1030 FNL 0663 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENE Section: 01 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 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: 5/3/2013	<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
	<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 April 2013. Well TD at 2,460

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

FOR RECORD ONLY

May 09, 2013

NAME (PLEASE PRINT) Teena Paulo	PHONE NUMBER 720 929-6236	TITLE Staff Regulatory Specialist
SIGNATURE N/A	DATE 5/3/2013	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-011336	
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	
8. WELL NAME and NUMBER: NBU 1022-1A1BS	
9. API NUMBER: 43047523350000	
9. FIELD and POOL or WILDCAT: NATURAL BUTTES	
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA	
1. TYPE OF WELL Gas Well	3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	PHONE NUMBER: 720 929-6511
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1030 FNL 0663 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENE Section: 01 Township: 10.0S Range: 22.0E Meridian: S	
COUNTY: UINTAH	
STATE: UTAH	

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: 6/3/2013	<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
	<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 May 2013. Well TD at Drilled to 2,460 ft.

**Accepted by the
 Utah Division of
 Oil, Gas and Mining
 FOR RECORD ONLY
 June 03, 2013**

NAME (PLEASE PRINT) Matthew P Wold	PHONE NUMBER 720 929-6993	TITLE Regulatory Analyst I
SIGNATURE N/A	DATE 6/3/2013	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-011336	
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	
8. WELL NAME and NUMBER: NBU 1022-1A1BS	
9. API NUMBER: 43047523350000	
9. FIELD and POOL or WILDCAT: NATURAL BUTTES	
1. TYPE OF WELL Gas Well	
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: 1030 FNL 0663 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENE Section: 01 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: 7/5/2013	<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
	<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 June 2013. Well TD at Drilled to 2,480 ft.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
 July 08, 2013

NAME (PLEASE PRINT) Teena Paulo	PHONE NUMBER 720 929-6236	TITLE Staff Regulatory Specialist
SIGNATURE N/A	DATE 7/5/2013	

State of Utah - Notification Form

Operator Anadarko Petroleum Rig Name/# SST 8
Submitted By JOSH SHEPPARD Phone Number 435- 828-0987
Well Name/Number NBU 1022-01A1BS
Qtr/Qtr SE/NW Section 1 Township 10 S Range 22E
Lease Serial Number UTU -011336
API Number 43-047-52335

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 7/5/2015 23:00 AM PM

Rig Move
Location To:

Date/Time _____ AM PM

RECEIVED
JUL 15 2013
DIV. OF OIL, GAS & MINING

Remarks TIME IS ESTIMATED

State of Utah - Notification Form

Operator Anadarko Petroleum Rig Name/# SST 8
Submitted By JOSH SHEPPARD Phone Number 435- 828-0987
Well Name/Number NBU 1022-01A1BS
Qtr/Qtr SE/NW Section 1 Township 10 S Range 22E
Lease Serial Number UTU -011336
API Number 43-047-52335

Casing – Time casing run starts, not cementing times.

- Production Casing
- Other

Date/Time 7/9/2013 02:: AM PM

BOPE

- Initial BOPE test at surface casing point
- Other

Date/Time _____ AM PM

RECEIVED

JUL 07 2013

Rig Move

DIV. OF OIL, GAS & MINING

Location To: NBU 920 13H

Date/Time 7/11/2013 07:00 AM PM

Remarks TIME IS ESTIMATED

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-011336	
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	
8. WELL NAME and NUMBER: NBU 1022-1A1BS	
9. API NUMBER: 43047523350000	
9. FIELD and POOL or WILDCAT: NATURAL BUTTES	
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: 1030 FNL 0663 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENE Section: 01 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: 8/5/2013	<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
	<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.

Started completing the well. Well TD at 8,795 ft.

**Accepted by the
 Utah Division of
 Oil, Gas and Mining
 FOR RECORD ONLY
 August 05, 2013**

NAME (PLEASE PRINT) Teena Paulo	PHONE NUMBER 720 929-6236	TITLE Staff Regulatory Specialist
SIGNATURE N/A	DATE 8/5/2013	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-011336
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 1022-1A1BS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047523350000
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: 1030 FNL 0663 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENE Section: 01 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: 9/4/2013	<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
	<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.

Started completing the well. Well TD at 8,795 ft.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
 September 05, 2013

NAME (PLEASE PRINT) Matthew P Wold	PHONE NUMBER 720 929-6993	TITLE Regulatory Analyst I
SIGNATURE N/A	DATE 9/4/2013	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-011336	
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	
8. WELL NAME and NUMBER: NBU 1022-1A1BS	
9. API NUMBER: 43047523350000	
9. FIELD and POOL or WILDCAT: NATURAL BUTTES	
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: 1030 FNL 0663 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENE Section: 01 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: 9/23/2013	<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
	<input checked="" 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.

THE SUBJECT WELL WAS PLACED ON PRODUCTION ON 9/23/2013. 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
 September 26, 2013

NAME (PLEASE PRINT) Teena Paulo	PHONE NUMBER 720 929-6236	TITLE Staff Regulatory Specialist
SIGNATURE N/A	DATE 9/26/2013	

Form 3160-4
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.
UTU011336

1a. Type of Well Oil Well Gas Well Dry Other
 b. Type of Completion New Well Work Over Deepen Plug Back Diff. Resvr.
 Other _____

6. If Indian, Allottee or Tribe Name _____

7. Unit or CA Agreement Name and No.
UTU63047A

2. Name of Operator
KERR-MCGEE OIL AND GAS ONSHORE
Contact: TEENA PAULO
Email: Teena.Paulo@anadarko.com

8. Lease Name and Well No.
NBU 1022-1A1BS

3. Address P.O. BOX 173779
DENVER, CO 82017

3a. Phone No. (include area code)
Ph: 720-929-6000

9. API Well No.
43-047-52335

4. Location of Well (Report location clearly and in accordance with Federal requirements)*
 At surface NENE 1030FNL 663FEL 39.982407 N Lat, 109.381204 W Lon
 At top prod interval reported below NENE 84FNL 511FEL
 At total depth NENE 108FNL 504FEL

10. Field and Pool, or Exploratory
NATURAL BUTTES

11. Sec., T., R., M., or Block and Survey
or Area Sec 1 T10S R22E Mer SLB

12. County or Parish
UINTAH

13. State
UT

14. Date Spudded
02/04/2013

15. Date T.D. Reached
07/08/2013

16. Date Completed
 D & A Ready to Prod.
09/23/2013

17. Elevations (DF, KB, RT, GL)*
5101 KB

18. Total Depth: MD 8795
TVD 8654

19. Plug Back T.D.: MD 8726
TVD 8584

20. Depth Bridge Plug Set: MD
TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
CBL/GR/CCL/TEMP

22. Was well cored? No Yes (Submit analysis)
 Was DST run? No Yes (Submit analysis)
 Directional Survey? No Yes (Submit analysis)

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
20.000	14.000 STL	36.7	0	40		28			
11.000	8.625 J-55	28.0	24	2450		750		0	
7.875	4.500 P 110	11.6	29	4980		1448		1430	
7.875	4.500 I-80	11.6	4980	8773					

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.375	8219							

25. Producing Intervals

26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) WASATCH	5588	6485	5588 TO 6485	0.360	40	OPEN
B) MESAVERDE	6506	8623	6506 TO 8623	0.360	224	OPEN
C)						
D)						

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
5588 TO 8623	PUMP 11,554 BBL SLICKWATER AND 249,837 LBS 30/50 MESH SAND

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
09/23/2013	09/27/2013	24	→	25.0	2133.0	0.0			FLOWS FROM WELL
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
20/64	SI 1509	2029.0	→	25	2133	0		PGW	

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
	SI		→						

(See Instructions and spaces for additional data on reverse side)

ELECTRONIC SUBMISSION #223653 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED **

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	

29. Disposition of Gas(Sold, used for fuel, vented, etc.)
SOLD

30. 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.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
				GREEN RIVER	1164
				BIRD'S NEST	1462
				MAHOGANY	1969
				WASATCH	4395
				MESAVERDE	6501

32. Additional remarks (include plugging procedure):

The first 210 ft. of the surface hole was drilled with a 12 ? in. bit. The remainder of surface hole was drilled with an 11 in. bit. DQX csg was run from surface to 5002 ft.; LTC csg was run from 5002 ft. to 8773 ft. Attached is the chronological well history, perforation report & final survey.

33. Circle enclosed attachments:

- 1. Electrical/Mechanical Logs (1 full set req'd)
- 2. Geologic Report
- 3. DST Report
- 4. Directional Survey
- 5. Sundry Notice for plugging and cement verification
- 6. Core Analysis
- 7 Other:

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):

**Electronic Submission #223653 Verified by the BLM Well Information System.
For KERR-MCGEE OIL AND GAS ONSHORE, sent to the Vernal**

Name (please print) TEENA PAULO Title STAFF REGULATORY SPECIALIST

Signature (Electronic Submission) Date 10/21/2013

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ****

RECEIVED: Oct. 21, 2013

US ROCKIES REGION
Operation Summary Report

Well: NBU 1022-1A1BS ORANGE		Spud Date: 3/12/2013	
Project: UTAH-UINTAH		Site: NBU 1022-01A PAD	Rig Name No: PROPETRO 12/12, SST 8/8
Event: DRILLING		Start Date: 2/26/2013	End Date: 7/10/2013
Active Datum: RKB @5,101.00usft (above Mean Sea Level)		UWI: NE/NE/0/10/S/22/E/1/0/0/26/PM/N/1030/E/0/663/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
3/12/2013	19:30 - 21:00	1.50	MIRU	01	C	P		RIG UP DIVERTER & FLOWLINE /SPOT RIG PAD OVER WELL, SPOT RIG OVER WELL / SPOT IN DOG HOUSE / SET CATWALK & PIPE RACKS, HOOK UP & PRIME PUMP
	21:00 - 22:00	1.00	DRLSUR	06	A	P		PICK UP 12.25" BIT & 8" MUD MOTOR & TIH
	22:00 - 23:00	1.00	DRLSUR	02	B	P		DRILL 12.25" SURFACE HOLE F/44'-210' ROP= 166' @ 110.7 FPH WOB= 5-15K. RPM= TOP DRIVE~55 / MOTOR ~83 /TOTAL RPM~138 GPM= 491 @ 120 SPM SPP ON/OFF= 800/600 UP/DN/ROT = 22/20/20 NOV ON LINE
	23:00 - 23:30	0.50	DRLSUR	06	A	P		TOOH & LAY DOWN 12.25" BIT
	23:30 - 0:00	0.50	DRLSUR	06	A	P		PICK UP 11" BIT & DIR. TOOLS, SCRIBE & TIH
3/13/2013	0:00 - 1:00	1.00	DRLSUR	06	A	P		PICK UP 11" BIT & DIR. TOOLS, SCRIBE & TIH
	1:00 - 5:00	4.00	DRLSUR	02	B	P		DRILL 11" SURFACE F/210'-T/720' 4TH RUN ON 11" BIT (REED) ROP= 510' @ 102 FPH WOB= 18-22K. RPM= TOP DRIVE~50 / MOTOR ~83 / TOTAL RPM~133 GPM= 491 @ 120 SPM SPP ON/OFF= 1,000/800 UP/DOWN/ ROT= 32/29/29K.-DRAG= 3K TORQUE ON/OFF = 2,900/950 NOV ON LINE MW = 8.4 NO HOLE ISSUES SLID - 32' = 6.65% 5.4' ABOVE AND .54' LEFT OF LINE
	5:00 - 12:00	7.00	DRLSUR	02	B	P		DRILL 11". SURFACE HOLE 720'-1590', (870', 124'/PER HOUR). WEIGHT ON BIT 18-25 K. STROKES PER MINUTE 120 GALLONS PER MINUTE 491. PRESSURE ON/OFF(BOTTOM) 1200/1000. ROTARY RPM 55, MOTOR RPM 83, TOTAL RPM 138. UP/DOWN/ ROT 75/55/65 K. DRAG 10 K. SLIDING 15' PER 90' OF ROTATION GETTING 1.5 DEGREE BUILD RATES CURRENTLY 1.96' NORTH 1.73' LEFT OF THE LINE CIRCULATE CLOSED LOOP SYSTEM WITH 8.4# WATER. RUNNING VOLUME THROUGH 1 CENTRAFUGE DEWATERING AND, RUNNING VOLUME OVER BOTH SHAKERS. PUT AIR ON THE HOLE @ 1800CFM @ 1400'

Operation Summary Report

Well: NBU 1022-1A1BS ORANGE

Spud Date: 3/12/2013

Project: UTAH-UINTAH

Site: NBU 1022-01A PAD

Rig Name No: PROPETRO 12/12, SST 8/8

Event: DRILLING

Start Date: 2/26/2013

End Date: 7/10/2013

Active Datum: RKB @5,101.00usft (above Mean Sea Level)

UWI: NE/NE/0/10/S/22/E/1/0/0/26/PM/N/1030/E/0/663/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	12:00 - 20:30	8.50	DRLSUR	02	B	P		DRILL 11". SURFACE HOLE 1590'-2460', (870', 102'/PER HOUR). WEIGHT ON BIT 18-25 K. STROKES PER MINUTE 120 GALLONS PER MINUTE 491. PRESSURE ON/OFF(BOTTOM) 1400/1150. ROTARY RPM 55, MOTOR RPM 83, TOTAL RPM 138. UP/DOWN/ ROT 85/65/75 K. DRAG 10 K. SLIDING 15' PER 90'OF ROTATION GETTING 1.5 DEGREE BUILD RATES CURRENTLY 4.21' NORTH 1.8' LEFT OF THE LINE CIRCULATE CLOSED LOOP SYSTEM WITH 8.4# WATER. RUNNING VOLUME THROUGH 1 CENTRAFUGE DEWATERING AND, RUNNING VOLUME OVER BOTH SHAKERS. PUT AIR ON THE HOLE @ 1800CFM @ 1400'
	20:30 - 22:30	2.00	DRLSUR	05	A	P		CIRCULATE AND CONDITION HOLE, VOLUME IS CLEAN COMING OVER SHAKERS, 4-400 BBL UPRIGHT'S FULL AND 2-400 BBL UPRIGHTS EMPTY, MUD TANKS FULL, HOLE IS STILL LOSING VOLUME.
	22:30 - 0:00	1.50	CSGSUR	06	D	P		TRIP OUT OF HOLE, LAY DOWN BOTTOM HOLE ASSEMBLY, DIRECTIONAL TOOLS, MOTOR AND, BIT. CLEAR TOOL AREA.
3/14/2013	0:00 - 1:00	1.00	CSGSUR	06	D	P		TRIP OUT OF HOLE, LAY DOWN BOTTOM HOLE ASSEMBLY, DIRECTIONAL TOOLS, MOTOR AND, BIT. CLEAR TOOL AREA.
	1:00 - 2:00	1.00	CSGSUR	06	A	P		PRE JOB SAFETY MEETING, MOVE PIPE RACKS AND CATWALK. PULL DIVERTER HEAD. RIG UP TO RUN SURFACE CASING. CLEAR UNRELATED TOOLS.
	2:00 - 3:30	1.50	CSGSUR	12	C	P		RUN 55 JOINTS OF 8-5/8". 28# J-55 LTC CASING. RAN 1 CENTRALIZER ON FIRST THREE JOINTS, AND EVERY OTHER JOINT FOR 2 JOINTS FOR A TOTAL OF 5 CENTRALIZERS. RUN A TOTAL OF 55 JOINTS. RUN CASING TO BOTTOM WITH NO PROBLEMS. SET FLOAT SHOE @ 2429.99' KB. SET TOP OF BAFFLE PLATE @ 2383.97' KB.

Operation Summary Report

Well: NBU 1022-1A1BS ORANGE

Spud Date: 3/12/2013

Project: UTAH-UINTAH

Site: NBU 1022-01A PAD

Rig Name No: PROPETRO 12/12, SST 8/8

Event: DRILLING

Start Date: 2/26/2013

End Date: 7/10/2013

Active Datum: RKB @5,101.00usft (above Mean Sea Level)

UWI: NE/NE/0/10/S/22/E/1/0/0/26/PM/N/1030/E/0/663/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	3:30 - 6:00	2.50	CSGSUR	12	E	P		PRE JOB SAFETY MEETING, RELEASE RIG @ 03/14/2013 06:00 RAN 200' OF 1" PIPE DOWN BACK-SIDE OF CASING. PRESSURE TEST LINES TO 2000 PSI. PUMP 145 BBLS OF WATER AHEAD. MIX AND PUMP 20 BBLS OF 8.5# GEL WATER AHEAD. MIX AND PUMP (300 sx) 61.4 BBLS OF 15.8.8# 1.15 YIELD. DROP PLUG ON FLY, DISPLACE WITH 148 BBLS OF H2O, NO RETURNS THROUGH OUT JOB, FINAL LIFT OF 400 PSI AT 3 BBL/MINUTE. BUMP THE PLUG WITH 700 PSI, HELD 700 PSI FOR 5 MINUTES, TESTED FLOAT AND FLOAT HELD. SHUT DOWN AND WASH UP.
	6:00 - 6:00	0.00	CSGSUR	12	E	P		PUMP CEMENT DOWN ONE INCH PIPE WITH 150 sx (30.7 bbls.)SAME CEMENT NO RETURNS TO SURFACE. SHUT DOWN AND WASH UP. WAIT 1.5 HOURS ON CEMENT, CEMENT DOWN BACKSIDE W/ 150 sx (30.7 bbls.) SAME CEMENT, NO RETURNS TO SURFACE. SHUT DOWN AND WASH UP. WAIT 1.5 HOURS ON CEMENT, CEMENT DOWN BACKSIDE W/ 150 sx (30.7 bbls.) SAME CEMENT, 3 BBLS CEMENT RETURNS TO SURFACE. SHUT DOWN AND WASH UP RIG DOWN CEMENTERS. (CEMENT JOB FINISHED @ 03/14/2013 10:00)
7/5/2013	19:00 - 20:00	1.00	MIRU	01	C	P	2480	PREPARE TO SKID
	20:00 - 21:00	1.00	MIRU	01	C	P	2480	SKID RIG
	21:00 - 22:00	1.00	MIRU	01	B	P	2480	RIG UP
	22:00 - 23:00	1.00	PRPSPD	14	A	P	2480	NIPPLE UP BOP
	23:00 - 0:00	1.00	PRPSPD	15	A	P	2480	HELD A SAFETY MEETING WITH A-1 TESTER, FILL THE TRUCK WITH WATER, RIGGED UP TESTER \TESTING CASING AND CHOKE TO 1500 PSI FOR 30 MINUTES. TEST ANNULAR TO 2500 PSI FOR 10 MIN AND 250 PSI FOR 5 MINUTES. TEST I-BOP VALVE, FLOOR VALVE, DART VALVE, PIPE AND BLIND RAMS, INSIDE AND OUTSIDE KILL LINE VALVES INSIDE OUTSIDE CHOKE LINE VALVE, HCR VALVE, CHOKE LINE, CHOKE MANIFOLD VALVES TO 5000 PSI FOR 10 MINUTES AND 250 PSI FOR 5 MINUTES.
7/6/2013	0:00 - 3:30	3.50	PRPSPD	15	A	P	2480	HELD A SAFETY MEETING WITH A-1 TESTER, FILL THE TRUCK WITH WATER, RIGGED UP TESTER \TESTING CASING AND CHOKE TO 1500 PSI FOR 30 MINUTES. TEST ANNULAR TO 2500 PSI FOR 10 MIN AND 250 PSI FOR 5 MINUTES. TEST I-BOP VALVE, FLOOR VALVE, DART VALVE, PIPE AND BLIND RAMS, INSIDE AND OUTSIDE KILL LINE VALVES INSIDE OUTSIDE CHOKE LINE VALVE, HCR VALVE, CHOKE LINE, CHOKE MANIFOLD VALVES TO 5000 PSI FOR 10 MINUTES AND 250 PSI FOR 5 MINUTES.

Operation Summary Report

Well: NBU 1022-1A1BS ORANGE

Spud Date: 3/12/2013

Project: UTAH-UINTAH

Site: NBU 1022-01A PAD

Rig Name No: PROPETRO 12/12, SST 8/8

Event: DRILLING

Start Date: 2/26/2013

End Date: 7/10/2013

Active Datum: RKB @5,101.00usft (above Mean Sea Level)

UWI: NE/NE/0/10/S/22/E/1/0/0/26/PM/N/1030/E/0/663/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	3:30 - 4:00	0.50	PRSPD	06	A	P	2480	SET WEAR BUSHING
	4:00 - 7:30	3.50	DRLPRC	06	A	P	2480	PICK UP SECURITY BIT & PRODIRECTIONAL MOTOR / SCRIBE DIRECTIONAL TOOLS / TRIP IN HOLE / TAG CEMENT @ 2332
	7:30 - 9:00	1.50	DRLPRC	02	F	P	2480	DRILL OUT SHOE TRACK
	9:00 - 14:00	5.00	DRLPRC	02	D	P	2480	DRILL SLIDE F/ 2480' - 2997' (517' @ 94' / HR) WEIGHT ON BIT 18-22 K. AVERAGE WEIGHT ON BIT 20 K. ROTARY RPM 60, MUD MOTOR RPM 123. STROKES PER MINUTE 130 GALLONS PER MINUTE 544. OFF/ON PSI 1700/2000. DIFFERENTIAL 300. TORQUE HIGH/LOW 10500 / 4000 OFF BOTTOM TORQUE 2500 STRING WEIGHT UP/DOWN/ROT 85/70/75. DRAG 10 K. BOS DEWATER AS NEEDED FOR MUD WEIGHT. WT 8.7 VIS 32. ///// DRILLING WITH FLOWZAN MUD CHEM ///// PUMP LCM SWEEPS TO HELP WITH LOSSES. USED 31 BBL. FLUID FOR HOLE VOLUME 0 BARRELS LOSSES @ 0 BBL/HR NO FLARE
	14:00 - 15:00	1.00	DRLPRC	08	A	Z	2997	TROUBLE SHOOT MWD TOOL / DOWN LINK TOOL
	15:00 - 15:30	0.50	DRLPRC	07	A	P	2997	RIG SERVICE

Operation Summary Report

Well: NBU 1022-1A1BS ORANGE		Spud Date: 3/12/2013	
Project: UTAH-UINTAH		Site: NBU 1022-01A PAD	Rig Name No: PROPETRO 12/12, SST 8/8
Event: DRILLING		Start Date: 2/26/2013	End Date: 7/10/2013
Active Datum: RKB @5,101.00usft (above Mean Sea Level)		UWI: NE/NE/0/10/S/22/E/1/0/0/26/PM/N/1030/E/0/663/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	15:30 - 0:00	8.50	DRLPRC	02	D	P	2997	DRILL SLIDE F/ 2997' - 4452' (1455' @ 171' / HR) WEIGHT ON BIT 18-24 K. AVERAGE WEIGHT ON BIT 20 K. ROTARY RPM 65, MUD MOTOR RPM 123. STROKES PER MINUTE 130 GALLONS PER MINUTE 544. OFF/ON PSI 1700/2000. DIFFERENTIAL 300. TORQUE HIGH/LOW 10500 / 4000 OFF BOTTOM TORQUE 8000 STRING WEIGHT UP/DOWN/ROT 140/100115. DRAG 25 K. BOS DEWATER AS NEEDED FOR MUD WEIGHT. WT 8.7 VIS 32. ///// DRILLING WITH FLOWZAN MUD CHEM ///// PUMP LCM SWEEPS TO HELP WITH LOSSES. USED 150 BBL. FLUID FOR HOLE VOLUME 50 BARRELS LOSSES @ 6 BBL/HR NO FLARE Footage Feet% Total: 666' Slide: 25'= 3.8% Rotate: 641'= 96.2% TimeMinHrs% Total: 4.09 hrs Slide: .42 hrs= 10.3% Rotate: 3.67 hrs= 89.7% Projection to Bit from Last Survey MD: 5090' West 15.05 North 0.36 PBHL Last survey MD: 5045' Inc 2.7 Azm 20.0 TVD 4904'

Operation Summary Report

Well: NBU 1022-1A1BS ORANGE		Spud Date: 3/12/2013	
Project: UTAH-UINTAH		Site: NBU 1022-01A PAD	Rig Name No: PROPETRO 12/12, SST 8/8
Event: DRILLING		Start Date: 2/26/2013	End Date: 7/10/2013
Active Datum: RKB @5,101.00usft (above Mean Sea Level)		UWI: NE/NE/0/10/S/22/E/1/0/0/26/PM/N/1030/E/0/663/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
7/7/2013	0:00 - 6:00	6.00	DRLPRV	02	B	P	4452	DRILL SLIDE F/ 4452' - 5376' (924' @ 154' / HR) WEIGHT ON BIT 18-22 K. AVERAGE WEIGHT ON BIT 20 K. ROTARY RPM 60, MUD MOTOR RPM 123. STROKES PER MINUTE 130 GALLONS PER MINUTE 544. OFF/ON PSI 1700/2000. DIFFERENTIAL 300. TORQUE HIGH/LOW 15000 / 10000 OFF BOTTOM TORQUE 10000 STRING WEIGHT UP/DOWN/ROT 140/ 105 /120 DRAG 20 K. BOS DEWATER AS NEEDED FOR MUD WEIGHT. WT 8.9 VIS 31. ///// DRILLING WITH FLOWZAN MUD CHEM ///// PUMP LCM SWEEPS TO HELP WITH LOSSES. USED 62 BBL. FLUID FOR HOLE VOLUME 80 BARRELS LOSSES @ 14 BBL/HR NO FLARE Footage Feet% Total: 666' Slide: 25'= 3.8% Rotate: 641'= 96.2% TimeMinHrs% Total: 4.09 hrs Slide: .42 hrs= 10.3% Rotate: 3.67 hrs= 89.7% Projection to Bit from Last Survey MD: 5090' West 15.05 North 0.36 PBHL Last survey MD: 5045' Inc 2.7 Azm 20.0 TVD 4904'

Operation Summary Report

Well: NBU 1022-1A1BS ORANGE		Spud Date: 3/12/2013	
Project: UTAH-UINTAH		Site: NBU 1022-01A PAD	Rig Name No: PROPETRO 12/12, SST 8/8
Event: DRILLING		Start Date: 2/26/2013	End Date: 7/10/2013
Active Datum: RKB @5,101.00usft (above Mean Sea Level)		UWI: NE/NE/0/10/S/22/E/1/0/0/26/PM/N/1030/E/0/663/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	6:00 - 14:00	8.00	DRLPRV	02	B	P	5376	DRILL SLIDE F/ 5376' - 6327' (953' @ 119' / HR) WEIGHT ON BIT 18-22 K. AVERAGE WEIGHT ON BIT 20 K. ROTARY RPM 60, MUD MOTOR RPM 123. STROKES PER MINUTE 120 GALLONS PER MINUTE 500. OFF/ON PSI 1300 / 1700 DIFFERENTIAL 500. TORQUE HIGH/LOW 16000 / 10000 OFF BOTTOM TORQUE 10000 STRING WEIGHT UP/DOWN/ROT145/1110/125. DRAG 20 K. BOS DEWATER AS NEEDED FOR MUD WEIGHT. WT 8.9 VIS 32. ///// DRILLING WITH FLOWZAN MUD CHEM ///// PUMP LCM SWEEPS TO HELP WITH LOSSES. USED 62 BBL. FLUID FOR HOLE VOLUME 120 BARRELS LOSSES @ 15 BBL/HR NO FLARE Footage Feet% Total: 1236' Slide: 20'= 1.62% Rotate: 1216'= 98.38% TimeMinHrs% Total: 10 hrs Slide: .5 hrs= 5.00% Rotate: 9.5 hrs= 95.00% Projection to Bit from Last Survey MD: 6326' West 8.00 North 29.00 PBHL Last survey MD: 6281' Inc 0.9 Azm 201.3 TVD 6139.63'
	14:00 - 14:30	0.50	DRLPRV	07	A	P	6327	RIG SERVICE

Operation Summary Report

Well: NBU 1022-1A1BS ORANGE		Spud Date: 3/12/2013	
Project: UTAH-UINTAH	Site: NBU 1022-01A PAD	Rig Name No: PROPETRO 12/12, SST 8/8	
Event: DRILLING	Start Date: 2/26/2013	End Date: 7/10/2013	
Active Datum: RKB @5,101.00usft (above Mean Sea Level)		UWI: NE/NE/0/10/S/22/E/1/0/0/26/PM/N/1030/E/0/663/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	14:30 - 0:00	9.50	DRLPRV	02	B	P	6327	DRILL SLIDE F/ 6327 - 7105' (778' @ 82' / HR) WEIGHT ON BIT 18-22 K. AVERAGE WEIGHT ON BIT 20 K. ROTARY RPM 60, MUD MOTOR RPM 123. STROKES PER MINUTE 120 GALLONS PER MINUTE 500 OFF/ON PSI 1450 / 1900. DIFFERENTIAL 400. TORQUE HIGH/LOW 16500 / 14800 OFF BOTTOM TORQUE 12000 STRING WEIGHT UP/DOWN/ROT 200/ 120 / 146. DRAG 55 K. BOS DEWATER AS NEEDED FOR MUD WEIGHT. WT 8.9 VIS 32. ///// DRILLING WITH FLOWZAN MUD CHEM ///// PUMP LCM SWEEPS TO HELP WITH LOSSES. USED 48 BBL. FLUID FOR HOLE VOLUME 120 BARRELS LOSSES @ 13 BBL/HR NO FLARE Footage Feet% Total: 856' Slide: 38'= 4.4% Rotate: 818'= 95.6% TimeMinHrs% Total: 6.83 hrs Slide: 1.5 hrs= 22% Rotate: 5.33 hrs= 78% Projection to Bit from Last Survey MD: 7182' West 10.47 North 9.03 PBHL Last survey MD: 7041' Inc 0.6 Azm 183.8 TVD 4904'

Operation Summary Report

Well: NBU 1022-1A1BS ORANGE		Spud Date: 3/12/2013	
Project: UTAH-UINTAH		Site: NBU 1022-01A PAD	Rig Name No: PROPETRO 12/12, SST 8/8
Event: DRILLING		Start Date: 2/26/2013	End Date: 7/10/2013
Active Datum: RKB @5,101.00usft (above Mean Sea Level)		UWI: NE/NE/0/10/S/22/E/1/0/0/26/PM/N/1030/E/0/663/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
7/8/2013	0:00 - 5:00	5.00	DRLPRV	02	B	P	7105	DRILL SLIDE F/ 7105 - 7684' (579' @ 115.8' / HR) WEIGHT ON BIT 18-22 K. AVERAGE WEIGHT ON BIT 20 K. ROTARY RPM 60, MUD MOTOR RPM 123. STROKES PER MINUTE 120 GALLONS PER MINUTE 500 OFF/ON PSI 1450 / 1900. DIFFERENTIAL 400. TORQUE HIGH/LOW 17000 / 14800 OFF BOTTOM TORQUE 13500 STRING WEIGHT UP/DOWN/ROT 220 / 135 / 160 DRAG 60 K. BOS DEWATER AS NEEDED FOR MUD WEIGHT. WT 9.3 VIS 32. ///// DRILLING WITH FLOWZAN MUD CHEM ///// PUMP LCM SWEEPS TO HELP WITH LOSSES. USED 48 BBL. FLUID FOR HOLE VOLUME 40 BARRELS LOSSES @ 8 BBL/HR NO FLARE Bit Position: 7657 MD:7657' West 13.7 North 11.1 PBHL Footage Feet% Total: 475' Slide: 0'= 0% Rotate: 475'= 100% TimeMinHrs% Total: 4.42 hrs Slide: 0 hrs= 0% Rotate: 4.42 hrs= 100% Projection to Bit from Last Survey MD: 7657' West 13.7 North 11.1 PBHL Last survey MD: 7517' Inc 0.4 Azm 125 TVD 7375.53'
	5:00 - 11:30	6.50	DRLPRV	02	B	P	7684	DRILL SLIDE F/ 7684 - 8228' (544' @ 83.6' / HR) WEIGHT ON BIT 18-22 K. AVERAGE WEIGHT ON BIT 20 K. ROTARY RPM 60, MUD MOTOR RPM 123. STROKES PER MINUTE 120 GALLONS PER MINUTE 500 OFF/ON PSI 1450 / 1900. DIFFERENTIAL 400. TORQUE HIGH/LOW 16500 / 14800 OFF BOTTOM TORQUE 12000 STRING WEIGHT UP/DOWN/ROT 200/ 120 / 146. DRAG 55 K. BOS DEWATER AS NEEDED FOR MUD WEIGHT. WT 8.9 VIS 32. ///// DRILLING WITH FLOWZAN MUD CHEM ///// PUMP LCM SWEEPS TO HELP WITH LOSSES. USED 48 BBL. FLUID FOR HOLE VOLUME 55 BARRELS LOSSES @ 9 BBL/HR NO FLARE
	11:30 - 12:00	0.50	DRLPRV	05	B	P	8228	TRANSFER MUD / BUILD VOLUME

Operation Summary Report

Well: NBU 1022-1A1BS ORANGE			Spud Date: 3/12/2013		
Project: UTAH-UINTAH		Site: NBU 1022-01A PAD		Rig Name No: PROPETRO 12/12, SST 8/8	
Event: DRILLING		Start Date: 2/26/2013		End Date: 7/10/2013	
Active Datum: RKB @5,101.00usft (above Mean Sea Level)			UWI: NE/NE/0/10/S/22/E/1/0/0/26/PM/N/1030/E/0/663/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	12:00 - 22:30	10.50	DRLPRV	02	B	P	8228	DRILL SLIDE F/ 8228 - 8795' (567' @ 54' / HR) WEIGHT ON BIT 18-22 K. AVERAGE WEIGHT ON BIT 20 K. ROTARY RPM 60, MUD MOTOR RPM 123. STROKES PER MINUTE 120 GALLONS PER MINUTE 500 OFF/ON PSI 1450 / 1900. DIFFERENTIAL 400. TORQUE HIGH/LOW 16500 / 14800 OFF BOTTOM TORQUE 12000 STRING WEIGHT UP/DOWN/ROT 200/ 120 / 146. DRAG 55 K. BOS DEWATER AS NEEDED FOR MUD WEIGHT. WT 8.9 VIS 32. ///// DRILLING WITH FLOWZAN MUD CHEM ///// PUMP LCM SWEEPS TO HELP WITH LOSSES. USED 35 BBL. FLUID FOR HOLE VOLUME 80 BARRELS LOSSES @ 8 BBL/HR 10' FLARE Bit Position: 8795 MD:8795' West 0.84 South 8.75 PBHL Footage Feet% Total: 377' Slide: 0'= 0% Rotate: 377'= 100% TimeMinHrs% Total: 4.28 hrs Slide: 0 hrs= 0% Rotate: 4.28 hrs= 100% Projection to Bit from Last Survey MD: 8795' West 0.84 South 8.75 PBHL Last survey MD: 8750' Inc 2.5 Azm 145.5 TVD 8608.23'
	22:30 - 0:00	1.50	DRLPRV	05	A	P		CIRCULATE / CLEAN HOLE FOR LAYING DOWN DRILL PIPE & CASING RUN / WIEGHT UP MUD TO 11.7
7/9/2013	0:00 - 1:00	1.00	DRLPRV	06	E	P	8795	MAKE WIPER TRIP F/ 8795' T/ 7820'
	1:00 - 3:30	2.50	DRLPRV	05	C	P	8795	CIRCULATE BOTTOMS UP / RAISE MUD WEIGHT T/ 11.7 PPG / FLOW CHECK / NO FLOW
	3:30 - 13:30	10.00	DRLPRV	06	A	P	8795	TRIP OUT OF HOLE 10 STANDS / FLOW CHECK / RIG UP KIMZEY LAY DOWN TRUCK / LAY DOWN DRILL PIPE
	13:30 - 14:00	0.50	CSGPRO	12	A	P	8795	PULL WEAR BUSHING
	14:00 - 15:30	1.50	CSGPRO	12	A	P	8795	REVIEW JSA / RIG UP KIMZEY CASING TOOLS

Operation Summary Report

Well: NBU 1022-1A1BS ORANGE

Spud Date: 3/12/2013

Project: UTAH-UINTAH

Site: NBU 1022-01A PAD

Rig Name No: PROPETRO 12/12, SST 8/8

Event: DRILLING

Start Date: 2/26/2013

End Date: 7/10/2013

Active Datum: RKB @5,101.00usft (above Mean Sea Level)

UWI: NE/NE/0/10/S/22/E/1/0/0/26/PM/N/1030/E/0/663/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	15:30 - 21:30	6.00	CSGPRO	12	C	P	8795	RAN TOTAL198 JTS. OF CASING (85 JOINTS OF 4.5"/11.6# / I-80 / LTC + 1 MARKER) + (111 JTS. OF 4.5"/ 11.6#/ P110 / DQX) + (1-DQX CROSS OVER). LANDED @ 8772.86', FLOAT COLLAR @8725.69', MESA VERDE MARKER @ 6542.31', CROSS OVER JT. @ 4980.01.
	21:30 - 23:00	1.50	CSGPRO	05	D	P	8795	CIRCULATE BOTTOMS UP / RIG DOWN KIMZEY CASING CREW / RIG UP BJ'S CEMENT EQUIPMENT
	23:00 - 0:00	1.00	CSGPRO	12	B	P	8795	PRESSURE TEST TO 5700 PSI. PUMP 25 BBLS OF FRESH WATER. PUMP 169 BBLS (478 SX) OF PREMIUM LITE II LEAD CEMENT, 12.5 PPG 1.98 YLD, 10.44 GPS, .05 LB/SACK OF STATIC FREE + .4%BWOC R-3 +.25 LBS/SACK CELLO FLAKE + 5 LBS/SACK KOL-SEAL 50 LB BAG + .4% BWOC FL-52 + .2%BWOC SODIUM METASILICATE + 6% BWOC BENTONITE + 100.1%FRESH WATER . FOLLOWED BY 228 BBLS (970 SX) OF 14.3# 1.32 YD 5.92 GAL/SK. POZ 50/50 TAIL CEMENT + 2% BWOC BENTONITEII + .005 LB/SACK STATIC FREE + 10% BWOW SODIUM CHLORIDE + .55%BWOC R-3 + .002GPS FP-6L + 58.8% FRESH WATER . SHUT DOWN AND FLUSH LINES. DROP PLUG AND DISPLACE W/ 131 BBLS OF FRESH WATER TREATED WITH CLAYFIX AND MAGNACIDE. FULL RETURNS WITH 0 BBLS OF WATER AND NO CEMENT. LIFT PSI OF 2168 / BUMP PLUG 2800 PSI. . PRESSURE HELD 5 MINS. FLOAT HELD. FLOW BACK 1.5 BBLS. EST. TOC FOR LEAD 100FT ', EST TOC FOR TAIL 3726'. RIG DOWN CEMENTERS
7/10/2013	0:00 - 2:30	2.50	CSGPRO	12	E	P	8795	PRESSURE TEST TO 5700 PSI. PUMP 25 BBLS OF FRESH WATER. PUMP 169 BBLS (478 SX) OF PREMIUM LITE II LEAD CEMENT, 12.5 PPG 1.98 YLD, 10.44 GPS, .05 LB/SACK OF STATIC FREE + .4%BWOC R-3 +.25 LBS/SACK CELLO FLAKE + 5 LBS/SACK KOL-SEAL 50 LB BAG + .4% BWOC FL-52 + .2%BWOC SODIUM METASILICATE + 6% BWOC BENTONITE + 100.1%FRESH WATER . FOLLOWED BY 228 BBLS (970 SX) OF 14.3# 1.32 YD 5.92 GAL/SK. POZ 50/50 TAIL CEMENT + 2% BWOC BENTONITEII + .005 LB/SACK STATIC FREE + 10% BWOW SODIUM CHLORIDE + .55%BWOC R-3 + .002GPS FP-6L + 58.8% FRESH WATER . SHUT DOWN AND FLUSH LINES. DROP PLUG AND DISPLACE W/ 131 BBLS OF FRESH WATER TREATED WITH CLAYFIX AND MAGNACIDE. FULL RETURNS WITH 0 BBLS OF WATER AND NO CEMENT. LIFT PSI OF 2168 / BUMP PLUG 2800 PSI. . PRESSURE HELD 5 MINS. FLOAT HELD. FLOW BACK 1.5 BBLS. EST. TOC FOR LEAD 470FT ', EST TOC FOR TAIL 3710'. RIG DOWN CEMENTERS
	2:30 - 3:00	0.50	CSGPRO	12	E	P		SET PACK OFF TOOL
	3:00 - 8:00	5.00	CSGPRO	14	A	P		NIPPLE DOWN BOP / CLEAN OUT MUD TANKS RIG RELEASED 7/10/2013 @ 0800

US ROCKIES REGION

1 General

1.1 Customer Information

Company	US ROCKIES REGION
Representative	
Address	

1.2 Well/Wellbore Information

Well	NBU 1022-1A1BS ORANGE	Wellbore No.	OH
Well Name	NBU 1022-1A1BS	Wellbore Name	NBU 1022-1A1BS
Report No.	1	Report Date	9/3/2013
Project	UTAH-UJINTAH	Site	NBU 1022-01A PAD
Rig Name/No.		Event	COMPLETION
Start Date	8/29/2013	End Date	9/23/2013
Spud Date	3/12/2013	Active Datum	RKB @5,101.00usft (above Mean Sea Level)
UWI	NE/NE/010/S/22/E/110/026/PM/N/1030/E/0/663/0/0		

1.3 General

Contractor		Job Method		Supervisor	
Perforated Assembly		Conveyed Method			

1.4 Initial Conditions

Fluid Type	Fluid Density	Gross Interval	5.588.0 (usft)-8,623.0 (usft)	Start Date/Time	9/3/2013 12:00AM
Surface Press	Estimate Res Press	No. of Intervals	66	End Date/Time	9/3/2013 12:00AM
TVD Fluid Top	Fluid Head	Total Shots	264	Net Perforation Interval	78.00 (usft)
Hydrostatic Press	Press Difference	Avg Shot Density	3.38 (shot/ft)	Final Surface Pressure	
Balance Cond	NEUTRAL			Final Press Date	

1.5 Summary

Diameter	0.360 (in)	Carr Type /Stage No	
Misfires/ Add. Shot		Carr Size (in)	3.375
Shot Density (shot/ft)	4.00	Phasing (°)	90.00
MD Base (usft)	5.591.0		
MD Top (usft)	5.588.0		
CCL-T S (usft)			
CCL@ (usft)			
Formation/ Reservoir			
Date	9/3/2013 12:00AM		

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
9/3/2013 12:00AM	WASATCH/			5.588.0	5.591.0	4.00		0.360 (in)	EXP/	3.375	90.00		23.00	PRODUCTIO	N

US ROCKIES REGION

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
9/3/2013 12:00AM	WASATCH/			5,938.0	5,941.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
9/3/2013 12:00AM	WASATCH/			6,370.0	6,371.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
9/3/2013 12:00AM	WASATCH/			6,404.0	6,405.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
9/3/2013 12:00AM	WASATCH/			6,417.0	6,418.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
9/3/2013 12:00AM	WASATCH/			6,484.0	6,485.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
9/3/2013 12:00AM	MESAVERDE/			6,506.0	6,507.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
9/3/2013 12:00AM	MESAVERDE/			6,526.0	6,527.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
9/3/2013 12:00AM	MESAVERDE/			6,956.0	6,959.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
9/3/2013 12:00AM	MESAVERDE/			6,973.0	6,976.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
9/3/2013 12:00AM	MESAVERDE/			7,268.0	7,270.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/3/2013 12:00AM	MESAVERDE/			7,319.0	7,321.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/3/2013 12:00AM	MESAVERDE/			7,332.0	7,334.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/3/2013 12:00AM	MESAVERDE/			7,386.0	7,388.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/3/2013 12:00AM	MESAVERDE/			7,425.0	7,426.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/3/2013 12:00AM	MESAVERDE/			7,442.0	7,443.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/3/2013 12:00AM	MESAVERDE/			7,490.0	7,491.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/3/2013 12:00AM	MESAVERDE/			7,547.0	7,548.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/3/2013 12:00AM	MESAVERDE/			7,555.0	7,556.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/3/2013 12:00AM	MESAVERDE/			7,563.0	7,564.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/3/2013 12:00AM	MESAVERDE/			7,590.0	7,591.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/3/2013 12:00AM	MESAVERDE/			7,597.0	7,598.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	

RECEIVED: Oct. 21, 2013

US ROCKIES REGION

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
9/3/2013 12:00AM	MESAVERDE/			7,636.0	7,637.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
9/3/2013 12:00AM	MESAVERDE/			7,644.0	7,645.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
9/3/2013 12:00AM	MESAVERDE/			7,650.0	7,651.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
9/3/2013 12:00AM	MESAVERDE/			7,664.0	7,665.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
9/3/2013 12:00AM	MESAVERDE/			7,676.0	7,677.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
9/3/2013 12:00AM	MESAVERDE/			7,708.0	7,709.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
9/3/2013 12:00AM	MESAVERDE/			7,753.0	7,754.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
9/3/2013 12:00AM	MESAVERDE/			7,787.0	7,788.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
9/3/2013 12:00AM	MESAVERDE/			7,793.0	7,794.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
9/3/2013 12:00AM	MESAVERDE/			7,833.0	7,834.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
9/3/2013 12:00AM	MESAVERDE/			7,855.0	7,856.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
9/3/2013 12:00AM	MESAVERDE/			7,864.0	7,865.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
9/3/2013 12:00AM	MESAVERDE/			7,903.0	7,904.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/3/2013 12:00AM	MESAVERDE/			7,930.0	7,931.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/3/2013 12:00AM	MESAVERDE/			7,950.0	7,951.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/3/2013 12:00AM	MESAVERDE/			7,972.0	7,973.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/3/2013 12:00AM	MESAVERDE/			7,986.0	7,987.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/3/2013 12:00AM	MESAVERDE/			8,002.0	8,003.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/3/2013 12:00AM	MESAVERDE/			8,010.0	8,011.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/3/2013 12:00AM	MESAVERDE/			8,018.0	8,019.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/3/2013 12:00AM	MESAVERDE/			8,058.0	8,059.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	

RECEIVED: Oct. 21, 2013

US ROCKIES REGION

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
9/3/2013 12:00AM	MESAVERDE/			8,080.0	8,081.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/3/2013 12:00AM	MESAVERDE/			8,096.0	8,097.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/3/2013 12:00AM	MESAVERDE/			8,116.0	8,117.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/3/2013 12:00AM	MESAVERDE/			8,138.0	8,139.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/3/2013 12:00AM	MESAVERDE/			8,146.0	8,147.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/3/2013 12:00AM	MESAVERDE/			8,160.0	8,161.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/3/2013 12:00AM	MESAVERDE/			8,200.0	8,201.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/3/2013 12:00AM	MESAVERDE/			8,236.0	8,237.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/3/2013 12:00AM	MESAVERDE/			8,260.0	8,261.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/3/2013 12:00AM	MESAVERDE/			8,266.0	8,267.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/3/2013 12:00AM	MESAVERDE/			8,284.0	8,285.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/3/2013 12:00AM	MESAVERDE/			8,292.0	8,293.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/3/2013 12:00AM	MESAVERDE/			8,304.0	8,305.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/3/2013 12:00AM	MESAVERDE/			8,335.0	8,336.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/3/2013 12:00AM	MESAVERDE/			8,345.0	8,346.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/3/2013 12:00AM	MESAVERDE/			8,374.0	8,375.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/3/2013 12:00AM	MESAVERDE/			8,444.0	8,445.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/3/2013 12:00AM	MESAVERDE/			8,465.0	8,466.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/3/2013 12:00AM	MESAVERDE/			8,472.0	8,473.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/3/2013 12:00AM	MESAVERDE/			8,548.0	8,549.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/3/2013 12:00AM	MESAVERDE/			8,568.0	8,569.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	

RECEIVED: Oct. 21, 2013

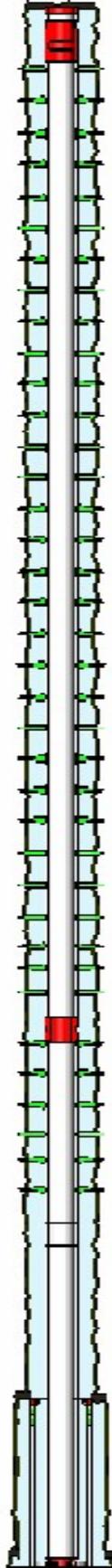
US ROCKIES REGION

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
9/3/2013 12:00AM	MESAVERDE/			8,598.0	8,599.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/3/2013 12:00AM	MESAVERDE/			8,622.0	8,623.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	

3 Plots

3.1 Wellbore Schematic



RECEIVED: Oct. 21, 2013

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 1022-1A1BS ORANGE		Spud Date: 3/12/2013	
Project: UTAH-UINTAH		Site: NBU 1022-01A PAD	Rig Name No:
Event: COMPLETION		Start Date: 8/29/2013	End Date: 9/23/2013
Active Datum: RKB @5,101.00usft (above Mean Sea Level)		UWI: NE/NE/0/10/S/22/E/1/0/0/26/PM/N/1030/E/0/663/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
7/19/2013	-							
8/29/2013	7:00 - 12:00	5.00	SUBSPR	52	B	P		FILL SURFACE CSG. MIRU CAMERON QUICK TEST. PRESSURE TEST CSG & FRAC VALVES 1ST PSI TEST T/ 7000 PSI. HELD FOR 15 MIN LOST 75 PSI. NO COMMUNICATION OR MIGRATION WITH SURFACE CSG BLEED OFF PSI. PRESSURE TEST 8 5/8 X 4 1/2 TO 525 PSI HELD FOR 5 MIN LOST -26 PSI,BLED PSI OFF, REINSTALLED POP OFF SWIFN NO PRESSURE ON SURFACE CASING FILLED SURFACE WITH 2 BBSL H2O
8/30/2013	6:30 - 6:45	0.25		48		P		HSM,
	7:00 - 10:00	3.00		37	C	P		MIRU CASED HOLE SOLUTION PERF 1ST STAGE MESAVERDE
9/3/2013	6:45 - 7:00	0.25	FRAC	48		P		HSM, HIFG PRESSURE AREA
	7:00 - 18:00	11.00	FRAC	36	B	P		REFER TO STIMULATION PJR FOR FLUID, SAND AND CHEMICAL VOLUMES, ALL STAGES WERE PERFORATED ACCORDING TO PERF RECORD IN OPEN WELLS, ALL STAGES WERE STIMULATED TO VENDOR POST JOB REPORT. ALL PLUGS ARE HALIBURTON 8K CBPS FRAC STG #1] WHP=1,871#, BRK DN PERFS=3,699#, @=4.7 BPM, INTIAL ISIP=2,723#, FG=.76, FINAL ISIP=2,682#, FG=.75, SET PLUG & PERFORATE STG #2 FRAC STG #2] WHP=2,400#, BRK DN PERFS=2,725#, @=3.4 BPM, INTIAL ISIP=2,407#, FG=.73, FINAL ISIP=2,767#, FG=.77, SET PLUG & PERFORATE STG #3 FRAC STG #3] WHP=2,305#, BRK DN PERFS=3,871#, @=4.9 BPM, INTIAL ISIP=2,612#, FG=.76, FINAL ISIP=2,740#, FG=.78, SET PLUG & PERFORATE STG #4 FRAC STG #4] WHP=2,323#, BRK DN PERFS=3,939#, @=3.8 BPM, INTIAL ISIP=2,731#, FG=.78, FINAL ISIP=2,665#, FG=.77, SET PLUG PERFORATE STG #5 SWIFN.
9/4/2013	6:45 - 7:00	0.25	FRAC	48		P		HSM, OPENING / CLOSING VALVES

Operation Summary Report

Well: NBU 1022-1A1BS ORANGE		Spud Date: 3/12/2013	
Project: UTAH-UINTAH		Site: NBU 1022-01A PAD	Rig Name No:
Event: COMPLETION		Start Date: 8/29/2013	End Date: 9/23/2013
Active Datum: RKB @5,101.00usft (above Mean Sea Level)		UWI: NE/NE/0/10/S/22/E/1/0/0/26/PM/N/1030/E/0/663/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	7:00 - 17:30	10.50	FRAC	36	B	P		FRAC STG #5] WHP=1,958#, BRK DN PERFS=4,386#, @=4.6 BPM, INTIAL ISIP=2,409#, FG=.75, FINAL ISIP=2,658#, FG=.78, SET PLUG AND PERFORATE STG #6 FRAC STG #6] WHP=1920#, BRK DN PERFS=2,095#, @=2.4 BPM, INTIAL ISIP=1,883#, FG=.68, FINAL ISIP=2,486#, FG=.76, SET PLUG AND PERFORATE STG #7 FRAC STG #7] WHP=1,941#, BRK DN PERFS=2,354#, @=3.9 BPM, INTIAL ISIP=1,989#, FG=.70, FINAL ISIP=2,353#, FG=.75, SET PLUUG AND PERFORATE STG #8 FRAC STG #8] WHP=1,851#, BRK DN PERFS=2,665#, @=3.7 BPM, INTIAL ISIP=2,216#, FG=.74, FINAL ISIP=2,371#, FG=.76, SWIFN.
9/5/2013	6:45 - 7:00	0.25	FRAC	48		P		HSM, PINCH POINTS
	7:00 - 15:00	8.00	FRAC	36	B	P		SET PLUG AND PERFORATE STG #9 FRAC STG #9] WHP=611#, BRK DN PERFS=2,865#, @=4.3 BPM, INTIAL ISIP=1,905#, FG=.71, FINAL ISIP=2,642#, FG=.82, SET PLUG AND PERFORATE STG #10 FRAC STG #10] WHP=1,282#, BRK DN PERFS=4,371#, @=4.7 BPM, INTIAL ISIP=2,745#, FG=.86, FINAL ISIP=2,544#, FG=.83, SET PLUG AND PERFORATE STG #11 FRAC STG #11] WHP=500#, BRK DN PERFS=1,793#, @=3.6 BPM, INTIAL ISIP=1,385#, FG=.68, FINAL ISIP=1,633#, FG=.72, SET TOP KILL TOTAL BBLS=11,554 TOTAL SAND=249,837#
9/20/2013	7:00 - 7:15	0.25	DRLOUT	48		P		HSM, SLIPS, TRIPS & FALLS, PU TBG, PT BOP
	7:15 - 15:00	7.75	DRLOUT	31	I	P		5 OF 5, MIRU, ND WH, NU BOP C/O PIPE RAMS, RU FLOOR & TBG EQUIP, PU 3 7/8" BIT, POBS, 1.875" XN S/N, TALLY & PU TBG TO KILL PLUG, RU P/S, FILL TBG & BREAK CIRC, P/T BOP TO 3,000 PSI, READY TO D/O CBPS ON MONDAY, SWI, SDFWE.
9/23/2013	7:00 - 7:15	0.25	DRLOUT	48		P		HSM, SLIPS TRIPS & FALLS, D/O CBPS, LANDING TBG, RIGGING DOWN

Operation Summary Report

Well: NBU 1022-1A1BS ORANGE		Spud Date: 3/12/2013	
Project: UTAH-UINTAH		Site: NBU 1022-01A PAD	Rig Name No:
Event: COMPLETION		Start Date: 8/29/2013	End Date: 9/23/2013
Active Datum: RKB @5,101.00usft (above Mean Sea Level)		UWI: NE/NE/0/10/S/22/E/1/0/0/26/PM/N/1030/E/0/663/0/0	

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>5 OF 5, BREAK CIRC, SURFACE CSG VALVE OPEN & LOCKED, D/O 11 PLUGS</p> <p>C/O 10' SAND, TAG 1ST PLUG @ 5,538', KICK 100 PSI, RIH</p> <p>C/O 30' SAND, TAG 2ND PLUG @ 5,971', KICK 100 PSI, RIH, (C/O MUFFLER WASHED OUT)</p> <p>C/O 30' SAND, TAG 3RD PLUG @ 6,557', KICK 300 PSI, RIH</p> <p>C/O 10' SAND, TAG 4TH PLUG @ 7,006', KICK 500 PSI, CSG PRESS 600 PSI, RIH</p> <p>C/O 30' SAND, TAG 5TH PLUG @ 7,415', KICK 500 PSI, RIH</p> <p>C/O 30' SAND, TAG 6TH PLUG @ 7,626', KICK 500 PSI, RIH</p> <p>C/O 30' SAND, TAG 7TH PLUG @ 7,739', KICK 500 PSI, RIH</p> <p>C/O 30' SAND, TAG 8TH PLUG @ 7,893', KICK 400 PSI, CSG PRESS 600 PSI, RIH</p> <p>C/O 30' SAND, TAG 9TH PLUG @ 8,048', KICK 400 PSI, RIH</p> <p>C/O 30' SAND, TAG 10TH PLUG @ 8,226', KICK 900 PSI, RIH</p> <p>C/O 30' SAND, TAG 11TH PLUG @ 8,384', KICK 200 PSI, CSG PRESS 800 PSI</p> <p>PBTD @ 8,726', BTM PERF @ 8,623', RIH TAGGED @ 8,681', C/O TO 8,726' PBTD, 103' PAST BTM PERF W/ 277 JTS 2 3/8" L-80 & J-55 TBG, LD 16 JTS, PU & STRIP IN TBG HANGER & LAND TBG W/ 261 JTS 2 3/8", EOT 8,219.22'.</p> <p>RD P/S, FLOOR & TBG EQUIP, ND BOPS, NU WH, DROP BALL & SHEAR OFF BIT, P/T LINE FROM WH TO HAL 9000 TO 3,000 PSI, NO VISIBLE LEAKS, LET BIT FALL FOR 20 MIN.</p> <p>TURN OVER TO FLOW BACK CREW & SALES, RD TO MOVE TO NBU 1022-1A, SDFN.</p> <p>KB= 24'</p> <p>4 1/16" CAMERON HANGER= .83' TBG DELIVERED 135 JTS L-80</p> <p>111 JTS 2 3/8" L-80= 3,525.59' TBG DELIVERED 150 JTS J-55</p> <p>1 - 6' PUP JT L-80= 6.14'</p>

API Well Number: 43047523350000

US ROCKIES REGION

Operation Summary Report

Well: NBU 1022-1A1BS ORANGE		Spud Date: 3/12/2013	
Project: UTAH-UINTAH		Site: NBU 1022-01A PAD	Rig Name No:
Event: COMPLETION		Start Date: 8/29/2013	End Date: 9/23/2013
Active Datum: RKB @5,101.00usft (above Mean Sea Level)		UWI: NE/NE/0/10/S/22/E/1/0/0/26/PM/N/1030/E/0/663/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
								TOTAL TBG= 285 JTS L-80 & J-55
								150 JTS 2 3/8" J-55 = 4,660.46'
								TBG USED 261 JTS
								POBS= 2.20'
								TBG RETURNED 24 JTS L-80
								EOT @ 8,219.22' 1
								W/ GAULDED THREADS 1
								W/ BAD COLLAR
								TWTR= 11,554 BBLS
								TWR= 4,000 BBLS
								TWLTR= 7,554 BBLS

Anadarko Petroleum Corporation



Project: Uintah Co., UT
Site: Sec 1-T10S-R22E
Well: NBU 1022-1A1BS
Wellbore: Original Hole
Final Surveys
Rig: SST 8

Surface Location:
 SHL 1030' FNL & 663' FEL Sec 1-T10S-R22E

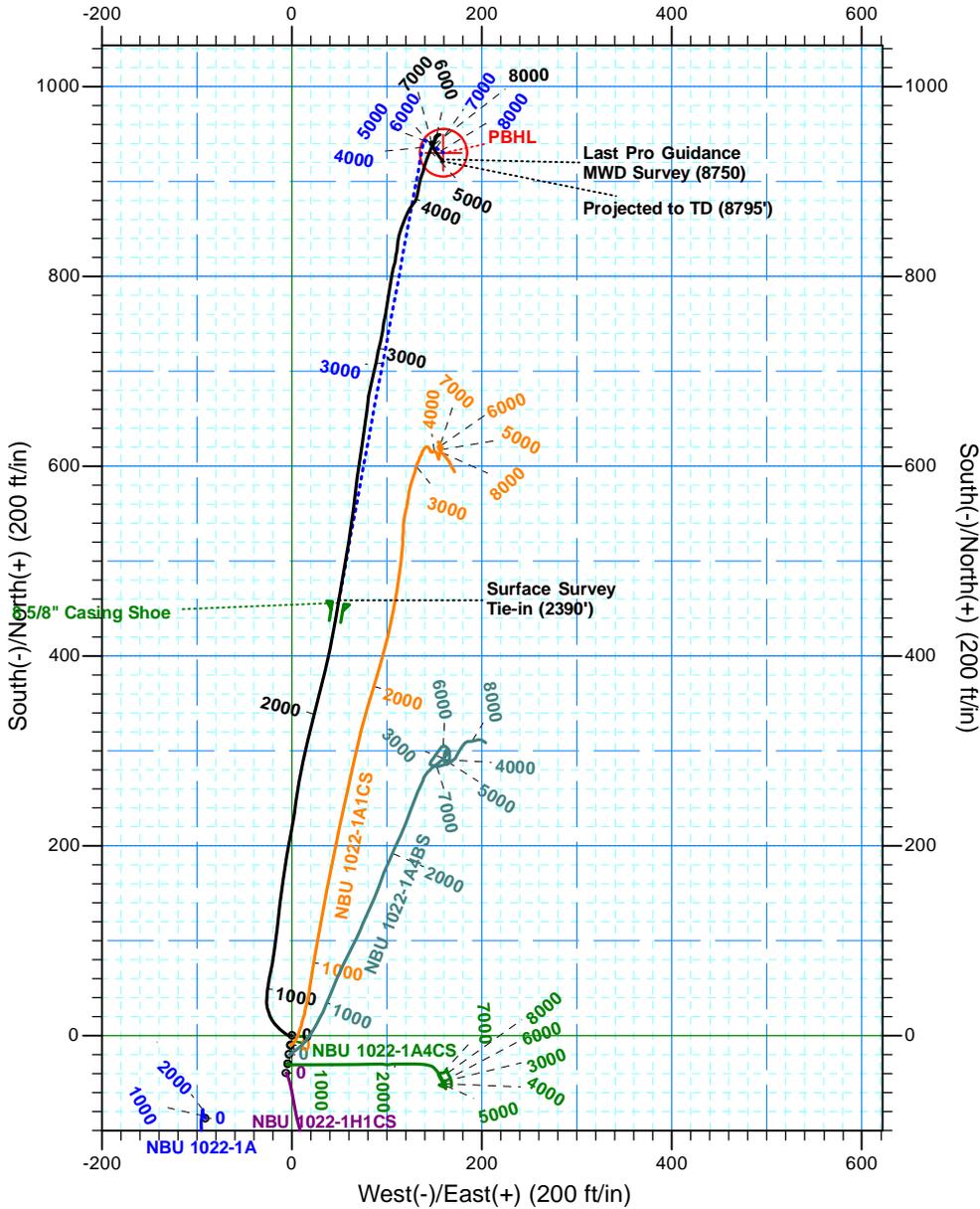
US State Plane 1927 (Exact solution)
 Utah Central 4302
Elevation: 5080' GL + 12' KB @ 5092.00ft (SST 8)
Northing 607687.05 **Easting** 2593857.92 **Latitude** 39.982441 **Longitude** -109.380524

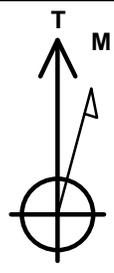
SECTION DETAILS
 Plan 2.1

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Annotation
2390.00	20.49	10.10	2319.53	458.94	49.29	0.00	0.00	460.68	Surface Survey Tie-in at 2390' MD, 2320' TVD
2400.00	20.49	10.10	2328.89	462.39	49.90	0.00	0.00	464.18	Begin Turn at 2400' MD, 2329' TVD
2407.00	20.49	10.50	2335.45	464.80	50.34	2.00	90.19	466.63	Begin Hold at 2407' MD, 2335' TVD
3207.00	20.49	10.50	3084.84	740.15	101.37	0.00	0.00	746.64	Begin Drop 3207' MD, 3085' MD
4377.86	0.00	0.00	4230.90	943.82	139.12	1.75	-180.00	953.75	Begin Hold at 4378' MD, 4231' TVD
4477.86	0.00	0.00	4330.90	943.82	139.12	0.00	0.00	953.75	Begin Build at 4478' MD, 4331' TVD
4587.86	0.33	123.64	4440.90	943.64	139.38	0.30	123.64	953.63	Begin Hold at 4588' MD, 44401' TVD
8756.03	0.33	123.64	8609.00	930.30	159.44	0.00	0.00	943.86	PBHL

WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude
PBHL	8609.00	930.30	159.44	39.984995	-109.379955





Azimuths to True North
 Magnetic North: 10.77°

Magnetic Field
 Strength: 52135.7snT
 Dip Angle: 65.82°
 Date: 06/16/2013
 Model: IGRF2010

Created By: Bob Hays Date: 9:40, July 09 2013

To convert a Magnetic Direction to a Grid Direction, Add 9.41°

Anadarko Petroleum Corporation



Project: Uintah Co., UT
Site: Sec 1-T10S-R22E
Well: NBU 1022-1A1BS
Wellbore: Original Hole
Final Surveys
Rig: SST 8

Surface Location:
 SHL 1030' FNL & 663' FEL Sec 1-T10S-R22E

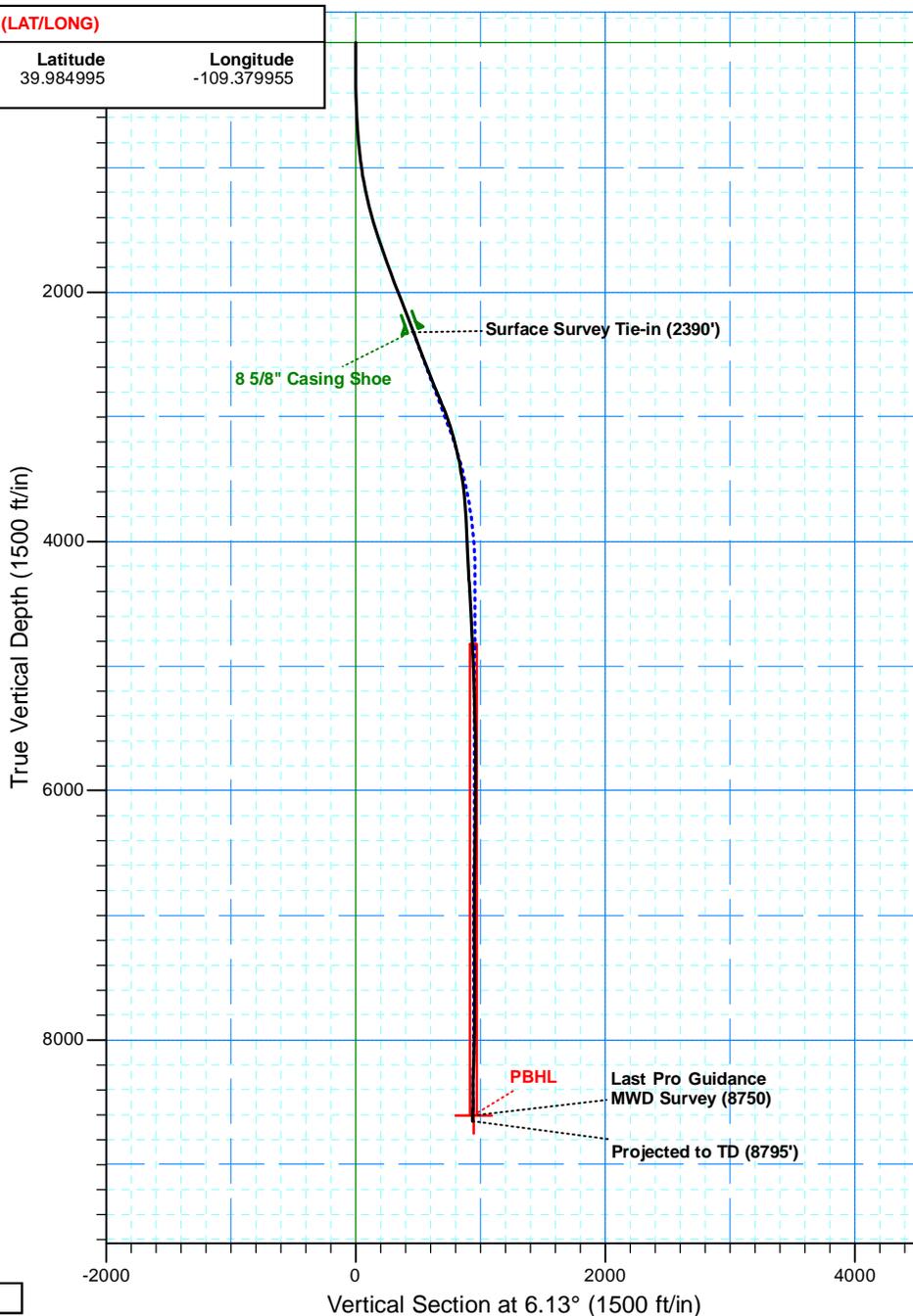
US State Plane 1927 (Exact solution)
 Utah Central 4302
Elevation: 5080' GL + 12' KB @ 5092.00ft (SST 8)
Northing 607687.05 **Easting** 2593857.92 **Latitude** 39.982441 **Longitude** -109.380524

SECTION DETAILS
 Plan 2.1

MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	VSect	Annotation
2390.00	20.49	10.10	2319.53	458.94	49.29	0.00	0.00	460.68	Surface Survey Tie-in at 2390' MD, 2320' TVD
2400.00	20.49	10.10	2328.89	462.39	49.90	0.00	0.00	464.18	Begin Turn at 2400' MD, 2329' TVD
2407.00	20.49	10.50	2335.45	464.80	50.34	2.00	90.19	466.63	Begin Hold at 2407' MD, 2335' TVD
3207.00	20.49	10.50	3084.84	740.15	101.37	0.00	0.00	746.64	Begin Drop 3207' MD, 3085' MD
4377.86	0.00	0.00	4230.90	943.82	139.12	1.75	-180.00	953.75	Begin Hold at 4378' MD, 4231' TVD
4477.86	0.00	0.00	4330.90	943.82	139.12	0.00	0.00	953.75	Begin Build at 4478' MD, 4331' TVD
4587.86	0.33	123.64	4440.90	943.64	139.38	0.30	123.64	953.63	Begin Hold at 4588' MD, 44401' TVD
8756.03	0.33	123.64	8609.00	930.30	159.44	0.00	0.00	943.86	PBHL

WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N-S	+E-W	Latitude	Longitude
PBHL	8609.00	930.30	159.44	39.984995	-109.379955





Anadarko Petroleum Corporation

**Uintah Co., UT
Sec 1-T10S-R22E
NBU 1022-1A1BS**

Original Hole

Design: Final Surveys

Standard Survey Report

09 July, 2013





Company:	Anadarko Petroleum Corporation	Local Co-ordinate Reference:	Well NBU 1022-1A1BS
Project:	Uintah Co., UT	TVD Reference:	5080' GL + 12' KB @ 5092.00ft (SST 8)
Site:	Sec 1-T10S-R22E	MD Reference:	5080' GL + 12' KB @ 5092.00ft (SST 8)
Well:	NBU 1022-1A1BS	North Reference:	True
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Final Surveys	Database:	EDM 5000.1 Single User Db

Project	Uintah Co., UT		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Utah Central 4302		

Site	Sec 1-T10S-R22E				
Site Position:		Northing:	606,096.98 ft	Latitude:	39.978213
From:	Lat/Long	Easting:	2,591,759.63 ft	Longitude:	-109.388144
Position Uncertainty:	0.00 ft	Slot Radius:	1.10000 ft	Grid Convergence:	1.35 °

Well	NBU 1022-1A1BS					
Well Position	+N/-S	0.00 ft	Northing:	607,687.06 ft	Latitude:	39.982441
	+E/-W	0.00 ft	Easting:	2,593,857.92 ft	Longitude:	-109.380524
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	5,077.00 ft

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	06/16/13	10.76	65.82	52,136

Survey Program	Date	07/09/13			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
153.00	2,390.00	Surface Surveys (Original Hole)	MWD	MWD	
2,572.00	8,750.00	Pro Guidance MWD Surveys (Original Hol	MWD	MWD	
8,795.00	8,795.00	Projected to TD (Original Hole)	Projection	Projection	

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	
153.00	0.97	273.86	152.99	0.09	-1.29	-0.05	0.63	0.63	0.00	
181.00	1.23	263.49	180.99	0.07	-1.83	-0.13	1.17	0.93	-37.04	
264.00	1.43	283.27	263.97	0.21	-3.72	-0.19	0.60	0.24	23.83	
351.00	2.29	303.74	350.92	1.42	-6.22	0.75	1.23	0.99	23.53	
441.00	2.85	310.24	440.83	3.86	-9.43	2.84	0.70	0.62	7.22	
531.00	3.52	311.56	530.69	7.14	-13.20	5.69	0.75	0.74	1.47	
621.00	4.31	317.80	620.48	11.48	-17.54	9.54	1.00	0.88	6.93	
711.00	5.01	332.74	710.18	17.48	-21.61	15.07	1.55	0.78	16.60	
801.00	5.72	342.94	799.79	25.26	-24.73	22.48	1.32	0.79	11.33	
891.00	6.77	354.10	889.26	34.83	-26.59	31.79	1.78	1.17	12.40	
981.00	7.90	7.73	978.53	46.23	-26.30	43.16	2.30	1.26	15.14	
1,071.00	9.41	12.21	1,067.50	59.55	-23.91	56.66	1.84	1.68	4.98	
1,161.00	10.99	10.36	1,156.08	75.18	-20.82	72.53	1.79	1.76	-2.06	
1,251.00	12.49	7.81	1,244.19	93.27	-17.95	90.82	1.76	1.67	-2.83	



Company:	Anadarko Petroleum Corporation	Local Co-ordinate Reference:	Well NBU 1022-1A1BS
Project:	Uintah Co., UT	TVD Reference:	5080' GL + 12' KB @ 5092.00ft (SST 8)
Site:	Sec 1-T10S-R22E	MD Reference:	5080' GL + 12' KB @ 5092.00ft (SST 8)
Well:	NBU 1022-1A1BS	North Reference:	True
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Final Surveys	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)	
1,341.00	14.74	5.99	1,331.66	114.30	-15.43	112.00	2.54	2.50	-2.02	
1,431.00	16.53	6.05	1,418.32	138.42	-12.89	136.25	1.99	1.99	0.07	
1,521.00	16.36	8.25	1,504.64	163.70	-9.72	161.72	0.72	-0.19	2.44	
1,611.00	18.11	10.54	1,590.60	189.99	-5.34	188.34	2.09	1.94	2.54	
1,701.00	19.70	9.57	1,675.74	218.71	-0.26	217.43	1.80	1.77	-1.08	
1,791.00	20.66	8.34	1,760.22	249.37	4.56	248.44	1.17	1.07	-1.37	
1,881.00	20.93	10.71	1,844.36	280.88	9.85	280.33	0.98	0.30	2.63	
1,971.00	20.77	13.71	1,928.46	312.18	16.62	312.17	1.20	-0.18	3.33	
2,061.00	20.93	14.84	2,012.57	343.22	24.52	343.88	0.48	0.18	1.26	
2,151.00	21.54	13.44	2,096.46	374.83	32.48	376.15	0.88	0.68	-1.56	
2,241.00	21.10	11.77	2,180.30	406.76	39.63	408.66	0.83	-0.49	-1.86	
2,331.00	20.88	9.86	2,264.33	438.42	45.68	440.79	0.80	-0.24	-2.12	
2,390.00	20.49	10.10	2,319.53	458.94	49.29	461.58	0.68	-0.66	0.41	
Surface Survey Tie-in (2390')										
2,572.00	20.30	9.10	2,490.12	521.48	59.87	524.89	0.22	-0.10	-0.55	
2,667.00	20.60	6.90	2,579.13	554.34	64.48	558.06	0.87	0.32	-2.32	
2,762.00	21.40	7.70	2,667.82	588.11	68.81	592.10	0.89	0.84	0.84	
2,857.00	23.20	8.50	2,755.71	623.80	73.90	628.12	1.92	1.89	0.84	
2,952.00	23.70	7.30	2,842.87	661.24	79.09	665.91	0.73	0.53	-1.26	
3,048.00	22.40	13.40	2,931.21	698.18	85.78	703.35	2.83	-1.35	6.35	
3,143.00	19.60	11.50	3,019.90	731.41	93.16	737.17	3.03	-2.95	-2.00	
3,238.00	16.70	9.40	3,110.16	760.49	98.56	766.67	3.13	-3.05	-2.21	
3,333.00	15.20	8.50	3,201.50	786.28	102.63	792.74	1.60	-1.58	-0.95	
3,429.00	12.40	13.00	3,294.72	808.77	106.81	815.56	3.12	-2.92	4.69	
3,524.00	10.30	7.40	3,387.86	827.14	110.20	834.18	2.49	-2.21	-5.89	
3,618.00	9.10	13.30	3,480.52	842.71	113.00	849.95	1.66	-1.28	6.28	
3,713.00	6.90	22.40	3,574.59	855.30	116.90	862.89	2.67	-2.32	9.58	
3,807.00	5.10	19.90	3,668.08	864.44	120.47	872.37	1.93	-1.91	-2.66	
3,903.00	4.20	35.50	3,763.76	871.32	123.97	879.58	1.61	-0.94	16.25	
3,998.00	2.80	39.20	3,858.58	875.95	127.45	884.55	1.49	-1.47	3.89	
4,093.00	2.40	30.70	3,953.49	879.46	129.94	888.31	0.58	-0.42	-8.95	
4,189.00	3.50	13.30	4,049.36	884.04	131.64	893.04	1.47	1.15	-18.13	
4,284.00	2.70	10.20	4,144.22	889.06	132.70	898.15	0.86	-0.84	-3.26	
4,379.00	2.10	8.80	4,239.13	892.99	133.36	902.12	0.63	-0.63	-1.47	
4,474.00	4.20	14.50	4,333.99	898.07	134.50	907.30	2.23	2.21	6.00	
4,569.00	3.90	14.70	4,428.75	904.57	136.19	913.94	0.32	-0.32	0.21	
4,665.00	3.30	15.90	4,524.56	910.38	137.78	919.89	0.63	-0.63	1.25	
4,759.00	3.00	15.00	4,618.42	915.36	139.15	924.99	0.32	-0.32	-0.96	
4,855.00	2.90	18.60	4,714.29	920.09	140.58	929.84	0.22	-0.10	3.75	
4,950.00	2.70	20.40	4,809.18	924.46	142.13	934.35	0.23	-0.21	1.89	
5,045.00	2.70	20.00	4,904.07	928.66	143.67	938.70	0.02	0.00	-0.42	
5,140.00	2.50	22.70	4,998.97	932.68	145.24	942.85	0.25	-0.21	2.84	
5,236.00	2.00	23.40	5,094.90	936.15	146.71	946.46	0.52	-0.52	0.73	
5,331.00	2.20	25.30	5,189.83	939.32	148.15	949.76	0.22	0.21	2.00	



Company:	Anadarko Petroleum Corporation	Local Co-ordinate Reference:	Well NBU 1022-1A1BS
Project:	Uintah Co., UT	TVD Reference:	5080' GL + 12' KB @ 5092.00ft (SST 8)
Site:	Sec 1-T10S-R22E	MD Reference:	5080' GL + 12' KB @ 5092.00ft (SST 8)
Well:	NBU 1022-1A1BS	North Reference:	True
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Final Surveys	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)	
5,425.00	1.70	28.30	5,283.78	942.18	149.58	952.76	0.54	-0.53	3.19	
5,520.00	1.30	29.80	5,378.75	944.35	150.78	955.05	0.42	-0.42	1.58	
5,615.00	1.20	23.00	5,473.72	946.20	151.71	956.99	0.19	-0.11	-7.16	
5,710.00	1.20	46.70	5,568.70	947.80	152.82	958.70	0.52	0.00	24.95	
5,805.00	1.10	55.70	5,663.69	949.00	154.30	960.05	0.22	-0.11	9.47	
5,900.00	0.90	69.00	5,758.67	949.78	155.75	960.98	0.32	-0.21	14.00	
5,996.00	1.10	252.40	5,854.67	949.77	155.57	960.95	2.08	0.21	-183.96	
6,091.00	1.10	262.90	5,949.65	949.38	153.80	960.37	0.21	0.00	11.05	
6,186.00	0.70	233.80	6,044.64	948.92	152.42	959.78	0.63	-0.42	-30.63	
6,281.00	0.90	201.30	6,139.63	947.89	151.69	958.66	0.51	0.21	-34.21	
6,375.00	1.10	213.70	6,233.61	946.45	150.92	957.15	0.31	0.21	13.19	
6,470.00	0.80	178.00	6,328.60	945.03	150.43	955.69	0.68	-0.32	-37.58	
6,565.00	0.80	199.00	6,423.59	943.74	150.24	954.38	0.31	0.00	22.11	
6,660.00	1.40	176.40	6,518.58	941.95	150.10	952.59	0.77	0.63	-23.79	
6,756.00	0.40	250.90	6,614.56	940.67	149.86	951.29	1.41	-1.04	77.60	
6,851.00	0.40	220.70	6,709.56	940.31	149.33	950.88	0.22	0.00	-31.79	
6,946.00	0.50	269.90	6,804.56	940.06	148.69	950.56	0.41	0.11	51.79	
7,041.00	0.60	183.80	6,899.56	939.56	148.25	950.02	0.79	0.11	-90.63	
7,137.00	1.30	311.40	6,995.55	939.78	147.40	950.15	1.80	0.73	132.92	
7,232.00	0.80	316.50	7,090.53	940.97	146.13	951.20	0.53	-0.53	5.37	
7,326.00	0.10	251.90	7,184.53	941.43	145.60	951.59	0.81	-0.74	-68.72	
7,421.00	0.30	24.50	7,279.53	941.63	145.63	951.79	0.39	0.21	139.58	
7,517.00	0.40	125.00	7,375.53	941.66	146.01	951.87	0.56	0.10	104.69	
7,612.00	0.00	14.20	7,470.53	941.47	146.28	951.71	0.42	-0.42	0.00	
7,707.00	0.50	75.50	7,565.53	941.58	146.68	951.86	0.53	0.53	0.00	
7,802.00	0.40	100.80	7,660.52	941.62	147.41	951.97	0.23	-0.11	26.63	
7,898.00	0.40	178.40	7,756.52	941.22	147.74	951.61	0.52	0.00	80.83	
7,993.00	0.70	134.40	7,851.52	940.48	148.17	950.93	0.52	0.32	-46.32	
8,088.00	1.10	182.70	7,946.51	939.17	148.54	949.66	0.87	0.42	50.84	
8,183.00	1.10	173.80	8,041.49	937.35	148.60	947.86	0.18	0.00	-9.37	
8,278.00	1.20	149.70	8,136.47	935.58	149.20	946.16	0.52	0.11	-25.37	
8,373.00	1.50	161.50	8,231.44	933.54	150.09	944.23	0.43	0.32	12.42	
8,469.00	1.90	143.70	8,327.40	931.07	151.43	941.92	0.69	0.42	-18.54	
8,563.00	2.10	138.00	8,421.35	928.53	153.51	939.62	0.30	0.21	-6.06	
8,658.00	1.80	145.20	8,516.29	926.02	155.52	937.33	0.41	-0.32	7.58	
8,750.00	2.50	145.50	8,608.22	923.18	157.48	934.71	0.76	0.76	0.33	
Last Pro Guidance MWD Survey (8750)										
8,795.00	2.50	145.60	8,653.18	921.56	158.60	933.22	0.01	0.00	0.22	
Projected to TD (8795')										



Company:	Anadarko Petroleum Corporation	Local Co-ordinate Reference:	Well NBU 1022-1A1BS
Project:	Uintah Co., UT	TVD Reference:	5080' GL + 12' KB @ 5092.00ft (SST 8)
Site:	Sec 1-T10S-R22E	MD Reference:	5080' GL + 12' KB @ 5092.00ft (SST 8)
Well:	NBU 1022-1A1BS	North Reference:	True
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Final Surveys	Database:	EDM 5000.1 Single User Db

Design Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
2,390.00	2,319.53	458.94	49.29	Surface Survey Tie-in (2390')
8,750.00	8,608.22	923.18	157.48	Last Pro Guidance MWD Survey (8750)
8,795.00	8,653.18	921.56	158.60	Projected to TD (8795')