

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 1022-1P1BS
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	1168 FSL 485 FEL	SESE	1	10.0 S	22.0 E	S
Top of Uppermost Producing Zone	1246 FSL 491 FEL	SESE	1	10.0 S	22.0 E	S
At Total Depth	1246 FSL 491 FEL	SESE	1	10.0 S	22.0 E	S

21. COUNTY UINTAH	22. DISTANCE TO NEAREST LEASE LINE (Feet) 491	23. NUMBER OF ACRES IN DRILLING UNIT 523
25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 1104	26. PROPOSED DEPTH MD: 8486 TVD: 8484	
27. ELEVATION - GROUND LEVEL 5132	28. 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 - 2200	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 - 8486	11.6	I-80 LT&C	12.5	Premium Lite High Strength	270	3.38	11.0
							50/50 Poz	1150	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 43047523790000	APPROVAL  Permit Manager	

Kerr-McGee Oil & Gas Onshore. L.P.**NBU 1022-1P1BS**

Surface: 1168 FSL / 485 FEL SESE
 BHL: 1246 FSL / 491 FEL SESE

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	1122	
Birds Nest	1389	Water
Mahogany	1750	Water
Wasatch	4144	Gas
Mesaverde	6315	Gas
MVU2	7278	Gas
MVL1	7842	Gas
TVD	8484	
TD	8486	

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

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

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

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

Variance for BOPE Requirements

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

Variance for Mud Material Requirements

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

Variance for Special Drilling Operation (surface equipment placement) Requirements

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

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

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

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

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

Variance for FIT Requirements

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

Conclusion

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

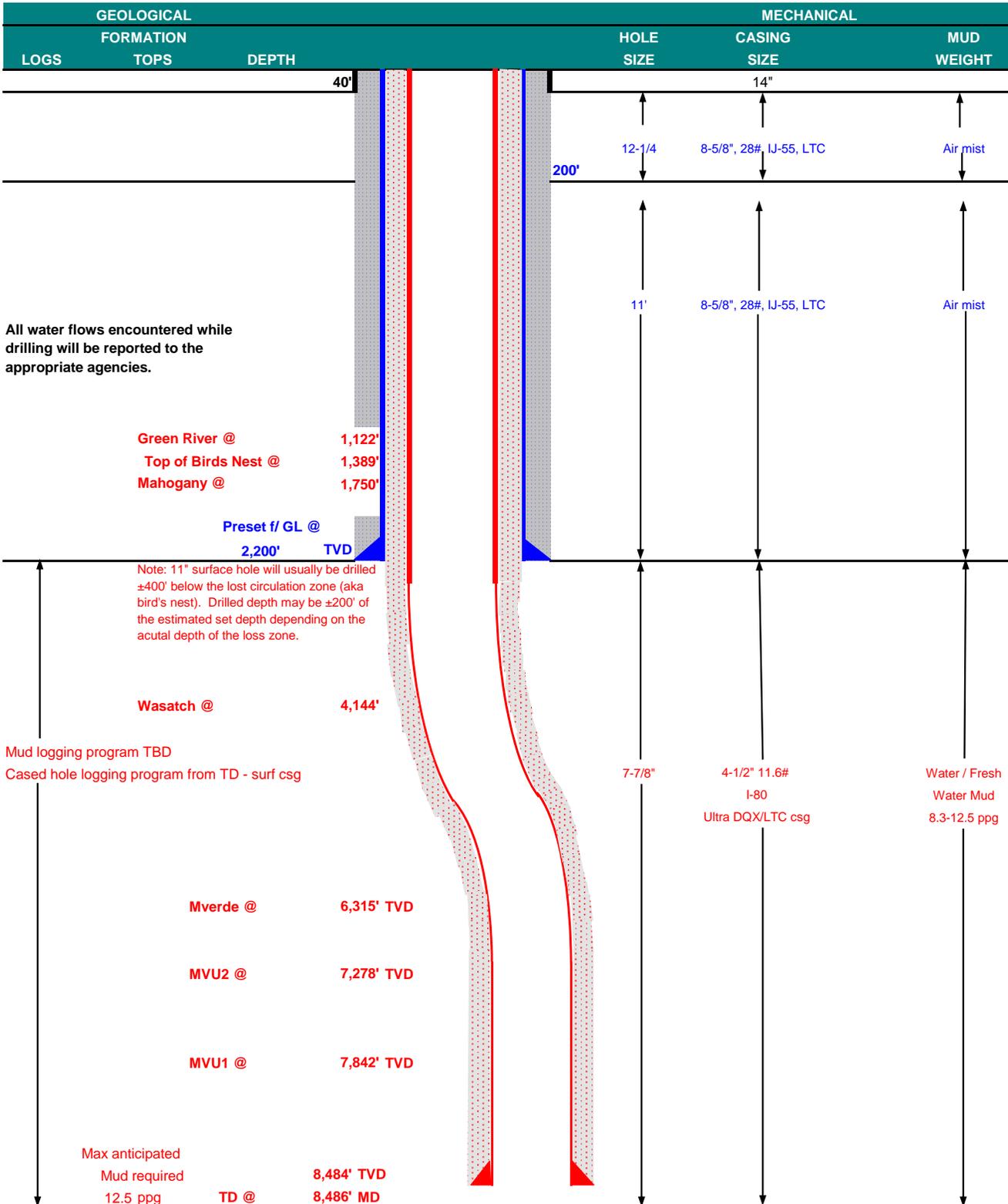
10. **Other Information:**

Please refer to the attached Drilling Program.



KERR-McGEE OIL & GAS ONSHORE LP DRILLING PROGRAM

COMPANY NAME	KERR-McGEE OIL & GAS ONSHORE LP		DATE	October 6, 2011	
WELL NAME	NBU 1022-1P1BS		TD	8,484' TVD	8,486' MD
FIELD	Natural Buttes	COUNTY	Uintah	STATE	Utah
SURFACE LOCATION	SESE	1168 FSL	485 FEL	Sec 1	T 10S R 22E
	Latitude: 39.973864	Longitude: -109.380553		NAD 83	
BTM HOLE LOCATION	SESE	1246 FSL	491 FEL	Sec 1	T 10S R 22E
	Latitude: 39.974079	Longitude: -109.380572		NAD 83	
OBJECTIVE ZONE(S)	Wasatch/Mesaverde				
ADDITIONAL INFO	Regulatory Agencies: BLM (Minerals), BLM (Surface), UDOGM Tri-County Health Dept.				





KERR-McGEE OIL & GAS ONSHORE LP
DRILLING PROGRAM

CASING PROGRAM

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS			
						BURST	LTC		DQX
							COLLAPSE	TENSION	
CONDUCTOR	14"	0-40'							
SURFACE	8-5/8"	0 to 2,200	28.00	IJ-55	LTC	3,390	1,880	348,000	N/A
						2.46	1.83	6.45	N/A
PRODUCTION	4-1/2"	0 to 5,000	11.60	I-80	DQX	7,780	6,350	223,000	267,035
						1.11	1.15	3.35	
	4-1/2"	5,000 to 8,486'	11.60	I-80	LTC	1.11	1.15	6.82	

Surface Casing:

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

Production casing:

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

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE	LEAD	500'	Premium cmt + 2% CaCl + 0.25 pps flocele	180	60%	15.80	1.15
	Option 1						
	TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt + 2% CaCl + 0.25 pps flocele	270	0%	15.80	1.15
NOTE: If well will circulate water to surface, option 2 will be utilized							
SURFACE	Option 2	LEAD	65/35 Poz + 6% Gel + 10 pps gilsonite + 0.25 pps Flocele + 3% salt BWOW	160	35%	11.00	3.82
		TAIL	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
PRODUCTION	LEAD	3,636'	Premium Lite II +0.25 pps celloflake + 5 pps gilsonite + 10% gel + 0.5% extender	270	20%	11.00	3.38
	TAIL	4,850'	50/50 Poz/G + 10% salt + 2% gel + 0.1% R-3	1,150	35%	14.30	1.31

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

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

FLOAT EQUIPMENT & CENTRALIZERS

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

ADDITIONAL INFORMATION

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

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

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

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

DRILLING ENGINEER:

Nick Spence / Danny Showers / Chad Loesel

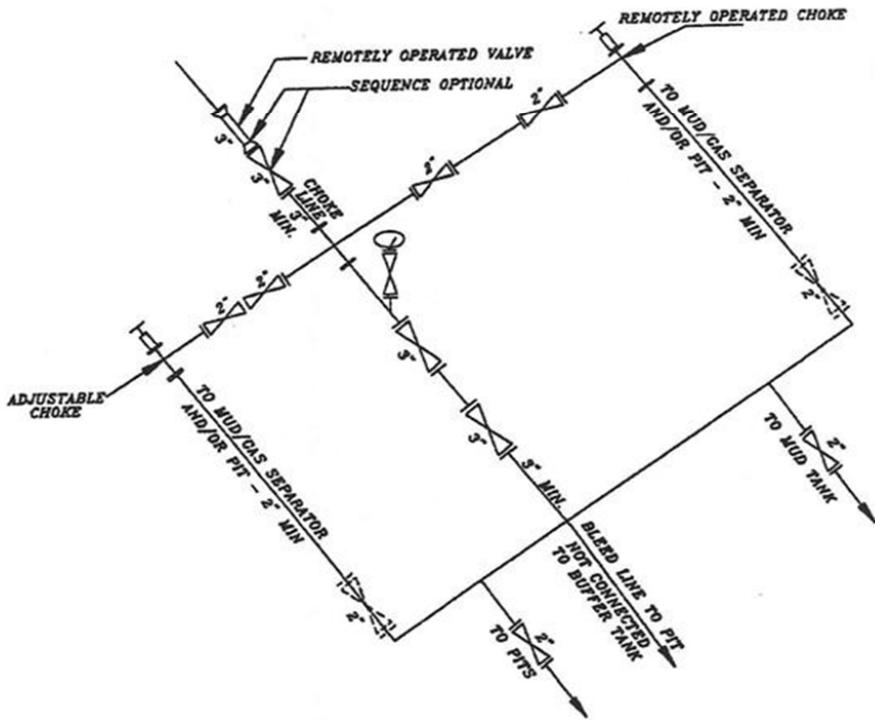
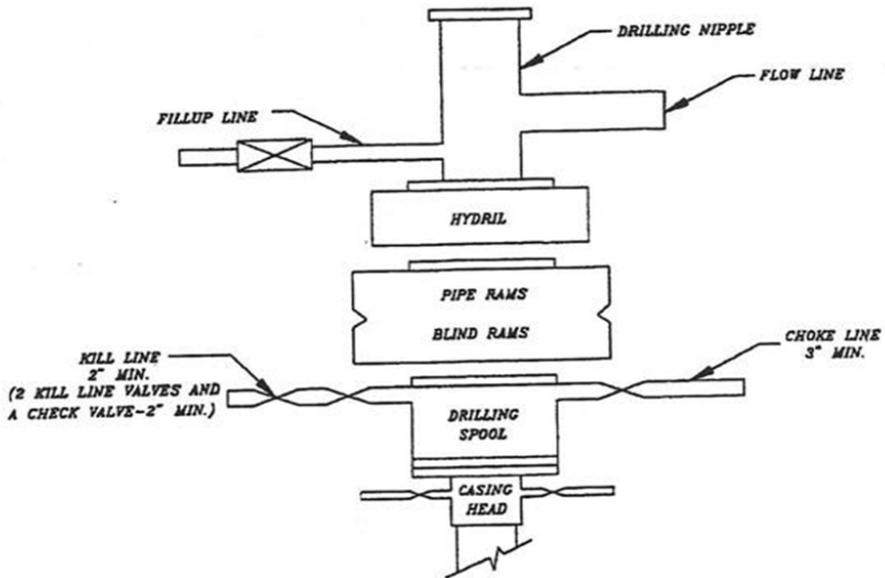
DATE:

DRILLING SUPERINTENDENT:

Kenny Gathings / Lovel Young

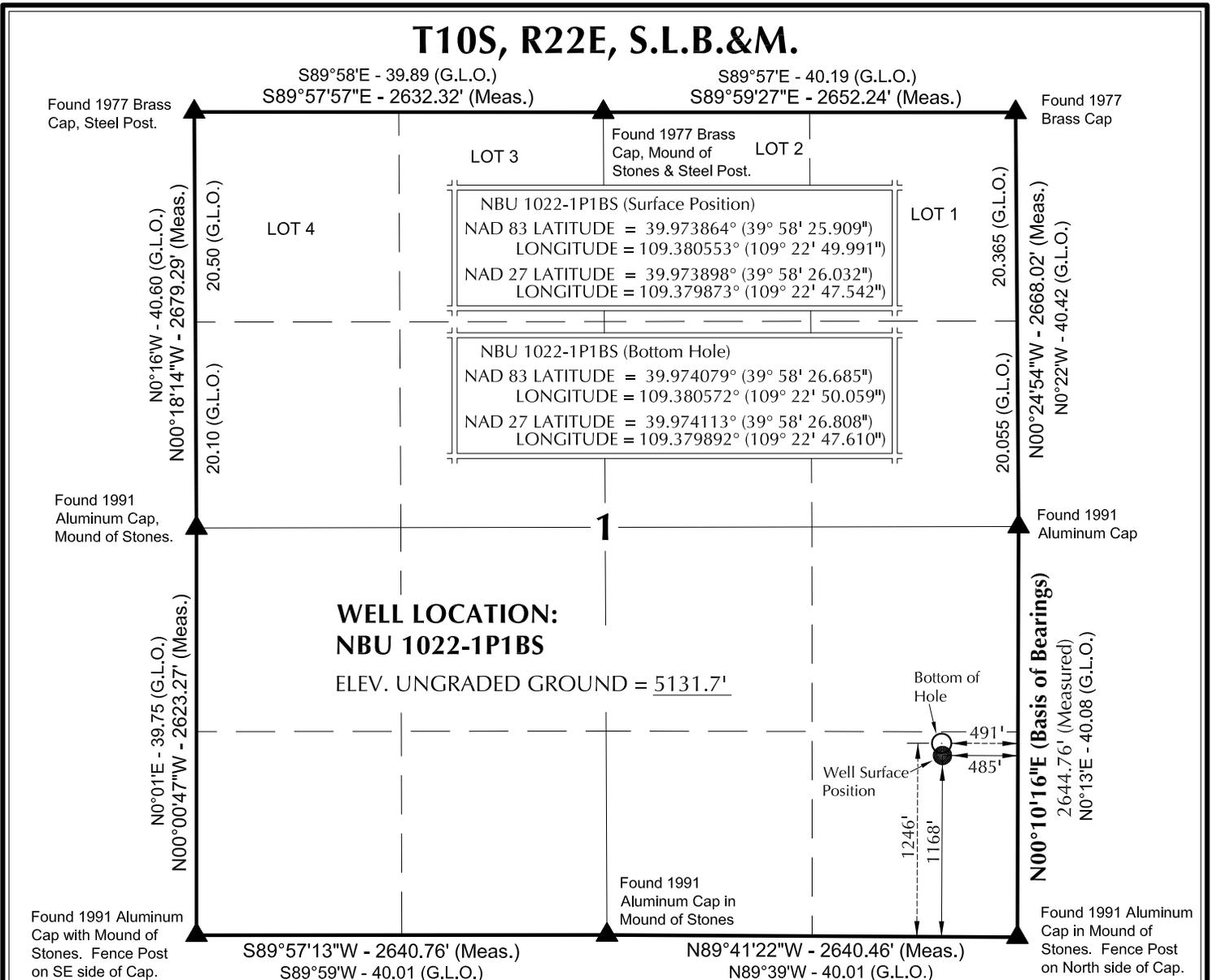
DATE:

EXHIBIT A NBU 1022-1P1BS



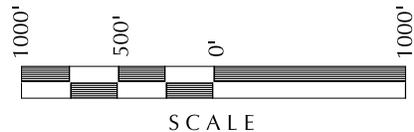
SCHEMATIC DIAGRAM OF 5,000 PSI BOP STACK

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 N03°53'00"W 78.67' 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.

PROF. JOHN R. LAUGH
 No. 6028691
 JOHN R. LAUGH
 PROFESSIONAL LAND SURVEYOR
 REGISTRATION No. 6028691
 STATE OF UTAH 3-9-11

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

WELL PAD: NBU 1022-1P

NBU 1022-1P1BS
WELL PLAT
1246' FSL, 491' FEL (Bottom Hole)
SE ¼ SE ¼ OF SECTION 1, T10S, R22E,
S.L.B.&M., UTAH COUNTY, UTAH.

609

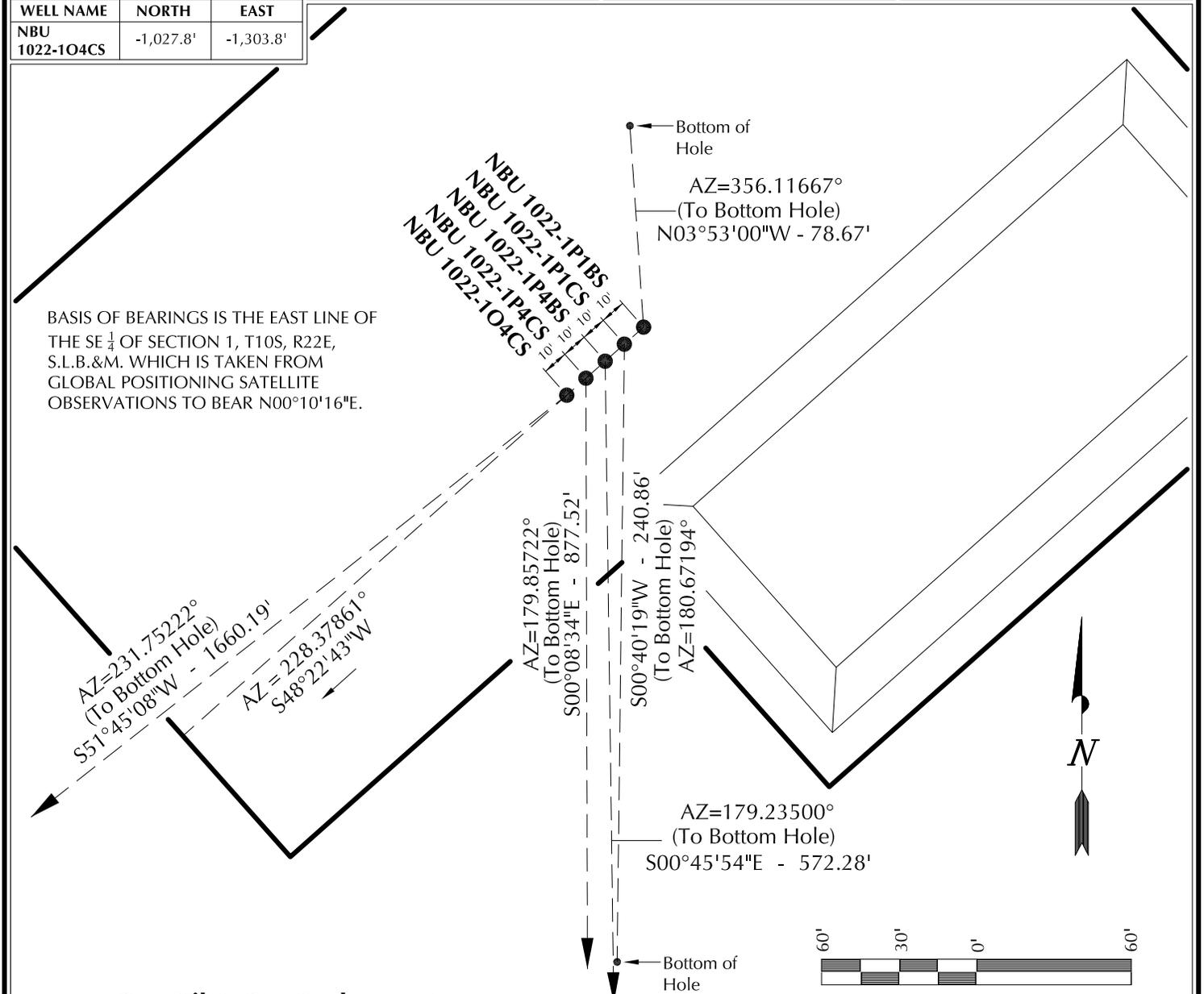
CONSULTING, LLC
 2155 North Main Street
 Sheridan WY 82801
 Phone 307-674-0609
 Fax 307-674-0182

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

DATE SURVEYED: 02-10-11	SURVEYED BY: R.Y.	SHEET NO: 1 1 OF 17
DATE DRAWN: 02-25-11	DRAWN BY: E.M.S.	
SCALE: 1" = 1000'		

WELL NAME	SURFACE POSITION					BOTTOM HOLE				
	NAD83		NAD27		FOOTAGES	NAD83		NAD27		FOOTAGES
	LATITUDE	LONGITUDE	LATITUDE	LONGITUDE		LATITUDE	LONGITUDE	LATITUDE	LONGITUDE	
NBU 1022-1P1BS	39°58'25.909"	109°22'49.991"	39°58'26.032"	109°22'47.542"	1168' FSL 485' FEL	39°58'26.685"	109°22'50.059"	39°58'26.808"	109°22'47.610"	1246' FSL 491' FEL
NBU 1022-1P1CS	39°58'25.844"	109°22'50.087"	39°58'25.967"	109°22'47.638"	1161' FSL 493' FEL	39°58'23.464"	109°22'50.126"	39°58'23.587"	109°22'47.678"	920' FSL 495' FEL
NBU 1022-1P4BS	39°58'25.778"	109°22'50.183"	39°58'25.901"	109°22'47.735"	1154' FSL 500' FEL	39°58'20.124"	109°22'50.092"	39°58'20.248"	109°22'47.643"	582' FSL 491' FEL
NBU 1022-1P4CS	39°58'25.712"	109°22'50.279"	39°58'25.836"	109°22'47.831"	1148' FSL 508' FEL	39°58'17.043"	109°22'50.262"	39°58'17.166"	109°22'47.813"	270' FSL 503' FEL
NBU 1022-1O4CS	39°58'25.647"	109°22'50.376"	39°58'25.770"	109°22'47.927"	1141' FSL 515' FEL	39°58'15.504"	109°23'07.130"	39°58'15.628"	109°23'04.681"	106' FSL 1816' FEL

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 1022-1P1BS	78.5'	-5.3'	NBU 1022-1P1CS	-240.8'	-2.8'	NBU 1022-1P4BS	-572.2'	7.6'	NBU 1022-1P4CS	-877.5'	2.2'



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

WELL PAD - NBU 1022-1P

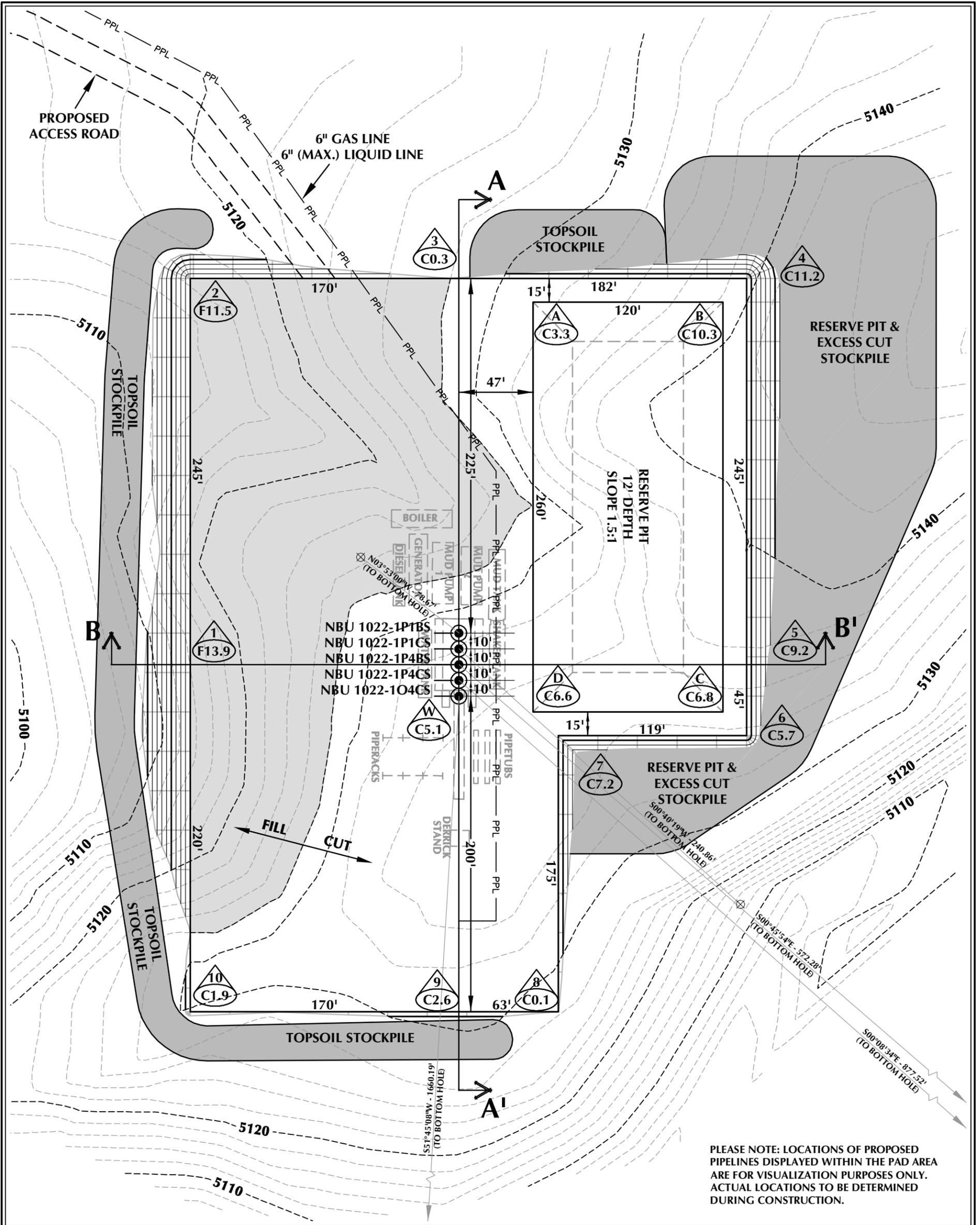
WELL PAD INTERFERENCE PLAT
WELLS - NBU 1022-1P1BS,
NBU 1022-1P1CS, NBU 1022-1P4BS,
NBU 1022-1P4CS & NBU 1022-1O4CS
LOCATED IN SECTION 1, T10S, R22E,
S.L.B.&M., UTAH COUNTY, UTAH.

609

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

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

DATE SURVEYED: 02-10-11	SURVEYED BY: R.Y.	SHEET NO:
DATE DRAWN: 02-25-11	DRAWN BY: E.M.S.	6
SCALE: 1" = 60'	Date Last Revised:	



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

WELL PAD - NBU 1022-1P DESIGN SUMMARY

EXISTING GRADE @ CENTER OF WELL PAD = 5133.1'
 FINISHED GRADE ELEVATION = 5128.0'
 CUT SLOPES = 1.5:1
 FILL SLOPES = 1.5:1
 TOTAL WELL PAD AREA = 3.75 ACRES
 TOTAL DISTURBANCE AREA = 5.37 ACRES
 SHRINKAGE FACTOR = 1.10
 SWELL FACTOR = 1.00

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

WELL PAD - NBU 1022-1P
 WELL PAD - LOCATION LAYOUT
 NBU 1022-1P1BS,
 NBU 1022-1P1CS, NBU 1022-1P4BS,
 NBU 1022-1P4CS & NBU 1022-1O4CS
 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

WELL PAD QUANTITIES

TOTAL CUT FOR WELL PAD = 18,793 C.Y.
 TOTAL FILL FOR WELL PAD = 16,476 C.Y.
 TOPSOIL @ 6" DEPTH = 3,021 C.Y.
 EXCESS MATERIAL = 2,317 C.Y.

RESERVE PIT QUANTITIES

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

WELL PAD LEGEND

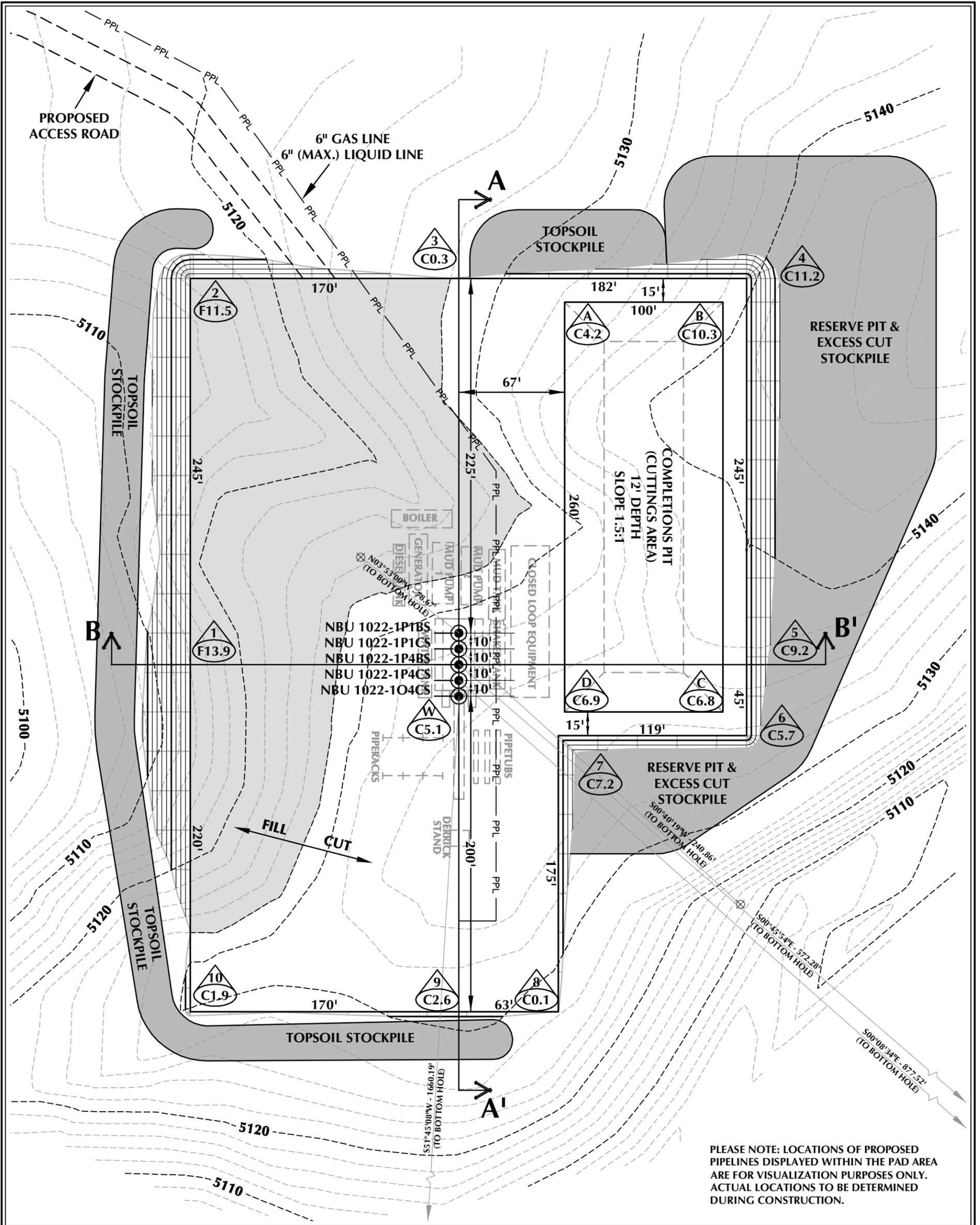
- EXISTING WELL LOCATION
- PROPOSED WELL LOCATION
- PROPOSED BOTTOM HOLE LOCATION
- EXISTING CONTOURS (2' INTERVAL)
- PROPOSED CONTOURS (2' INTERVAL)
- PPL - PROPOSED PIPELINE
- EPL - EXISTING PIPELINE



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

SCALE: 1"=60' DATE: 5/13/11 SHEET NO:
 REVISED: APF 7 7 OF 17
 12/8/11

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



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 1022-1P (CLOSED LOOP) DESIGN SUMMARY

EXISTING GRADE @ CENTER OF WELL PAD = 5133.1'
 FINISHED GRADE ELEVATION = 5128.0'
 CUT SLOPES = 1.5:1
 FILL SLOPES = 1.5:1
 TOTAL WELL PAD AREA = 3.75 ACRES
 TOTAL DISTURBANCE AREA = 5.37 ACRES
 SHRINKAGE FACTOR = 1.10
 SWELL FACTOR = 1.00

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

WELL PAD - NBU 1022-1P
WELL PAD - LOCATION LAYOUT
 NBU 1022-1P1BS,
 NBU 1022-1P1CS, NBU 1022-1P4BS,
 NBU 1022-1P4CS & NBU 1022-1O4CS
 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 = 18,793 C.Y.
 TOTAL FILL FOR WELL PAD = 16,476 C.Y.
 TOPSOIL @ 6" DEPTH = 3,021 C.Y.
 EXCESS MATERIAL = 2,317 C.Y.

COMPLETIONS PIT QUANTITIES

TOTAL CUT FOR COMPLETIONS PIT
 +/- 8,870 C.Y.
 COMPLETIONS PIT CAPACITY
 (2' OF FREEBOARD)
 +/- 33,770 BARRELS

WELL PAD LEGEND

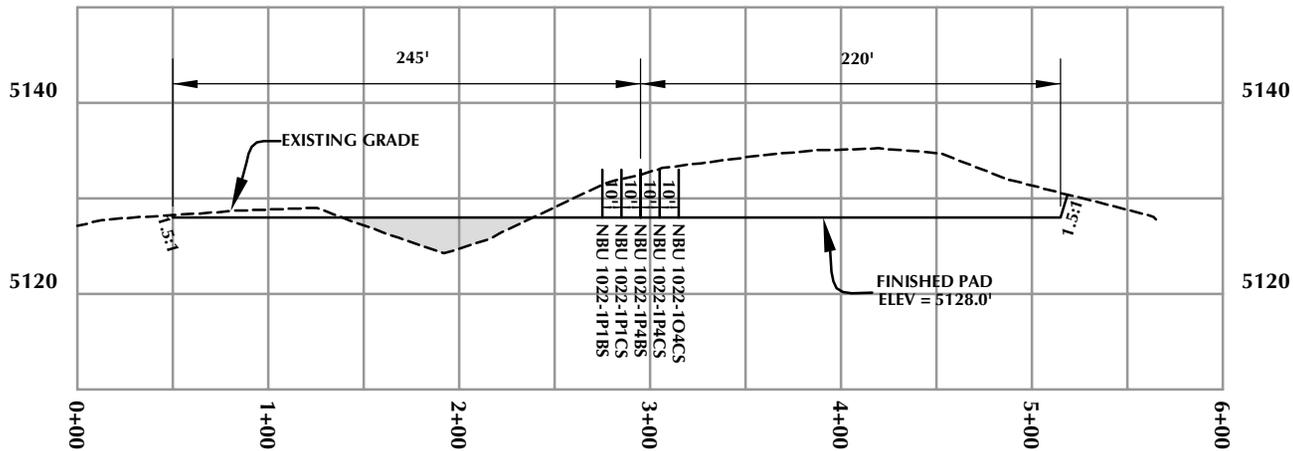
- EXISTING WELL LOCATION
- PROPOSED WELL LOCATION
- PROPOSED BOTTOM HOLE LOCATION
- EXISTING CONTOURS (2' INTERVAL)
- PROPOSED CONTOURS (2' INTERVAL)
- PROPOSED PIPELINE
- EXISTING PIPELINE



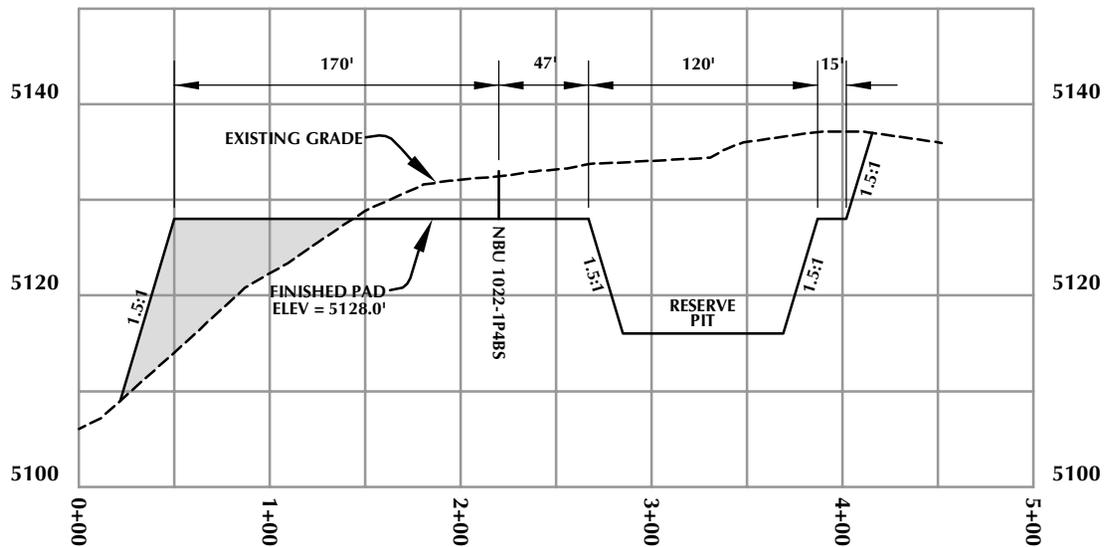
HORIZONTAL 0 30' 60' 1" = 60'
 2' CONTOURS

SCALE: 1"=60' DATE: 10/5/11 SHEET NO:
 REVISED: APF 12/8/11 **7B** 7B OF 17

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 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 1022-1P

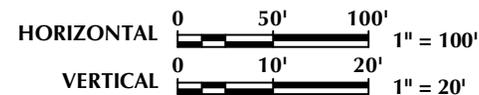
WELL PAD - CROSS SECTIONS
NBU 1022-1P1BS,
NBU 1022-1P1CS, NBU 1022-1P4BS,
NBU 1022-1P4CS & NBU 1022-1O4CS
LOCATED IN SECTION 1, T10S, R22E,
S.L.B.&M., UTAH COUNTY, UTAH



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

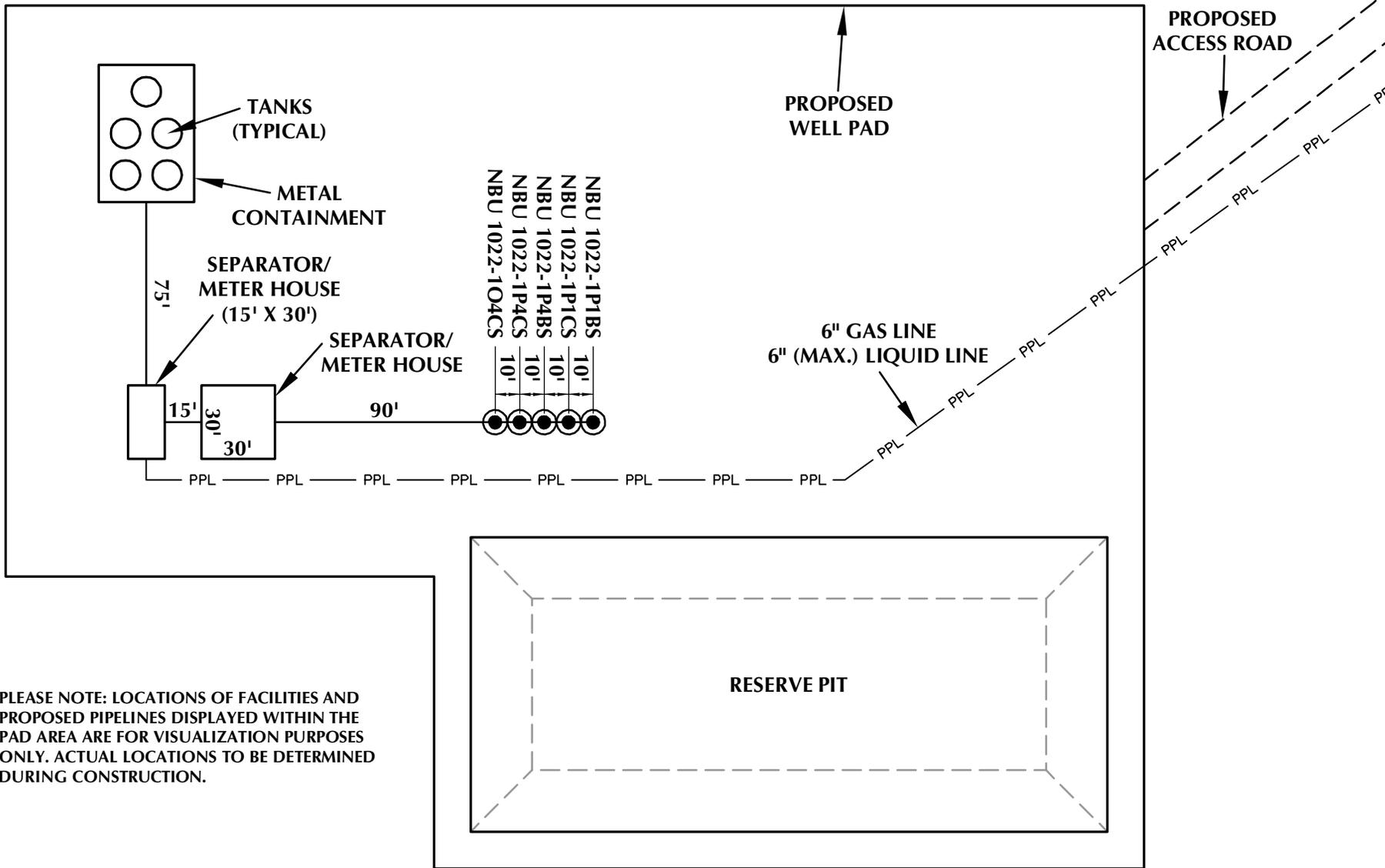


Scale: 1"=100' Date: 5/13/11 SHEET NO:

REVISED:

8

8 OF 17



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

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

WELL PAD - NBU 1022-1P

WELL PAD - FACILITIES DIAGRAM
NBU 1022-1P1BS,
NBU 1022-1P1CS, NBU 1022-1P4BS,
NBU 1022-1P4CS & NBU 1022-1O4CS
LOCATED IN SECTION 1, T10S, R22E,
S.L.B.&M., UTAH COUNTY, UTAH

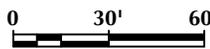


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WELL PAD LEGEND

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



HORIZONTAL  1" = 60'

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

Scale: 1"=60'
REVISED:

Date: 5/13/11

SHEET NO:

9

9 OF 17

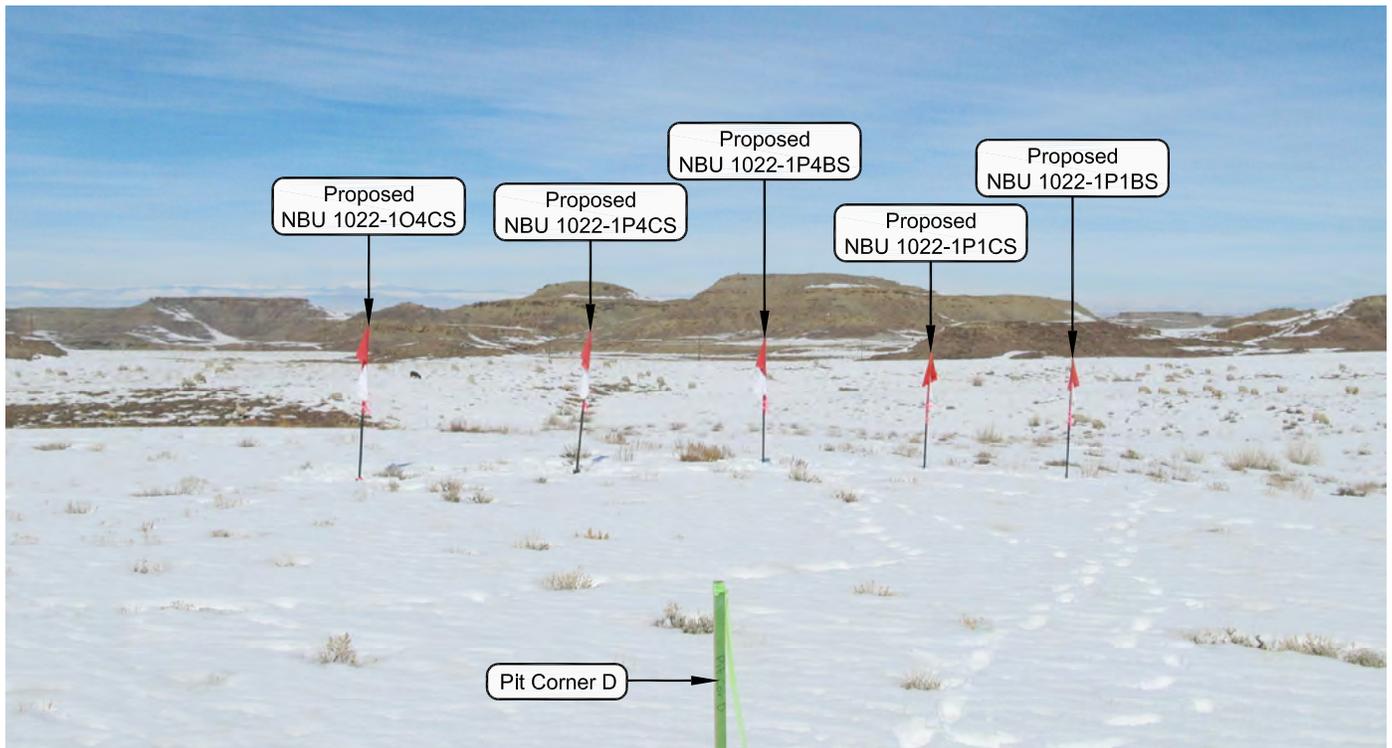


PHOTO VIEW: FROM PIT CORNER D TO LOCATION STAKE

CAMERA ANGLE: NORTHERLY



PHOTO VIEW: FROM BEGINNING OF PROPOSED ROAD

CAMERA ANGLE: SOUTHEASTERLY

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

WELL PAD - NBU 1022-1P

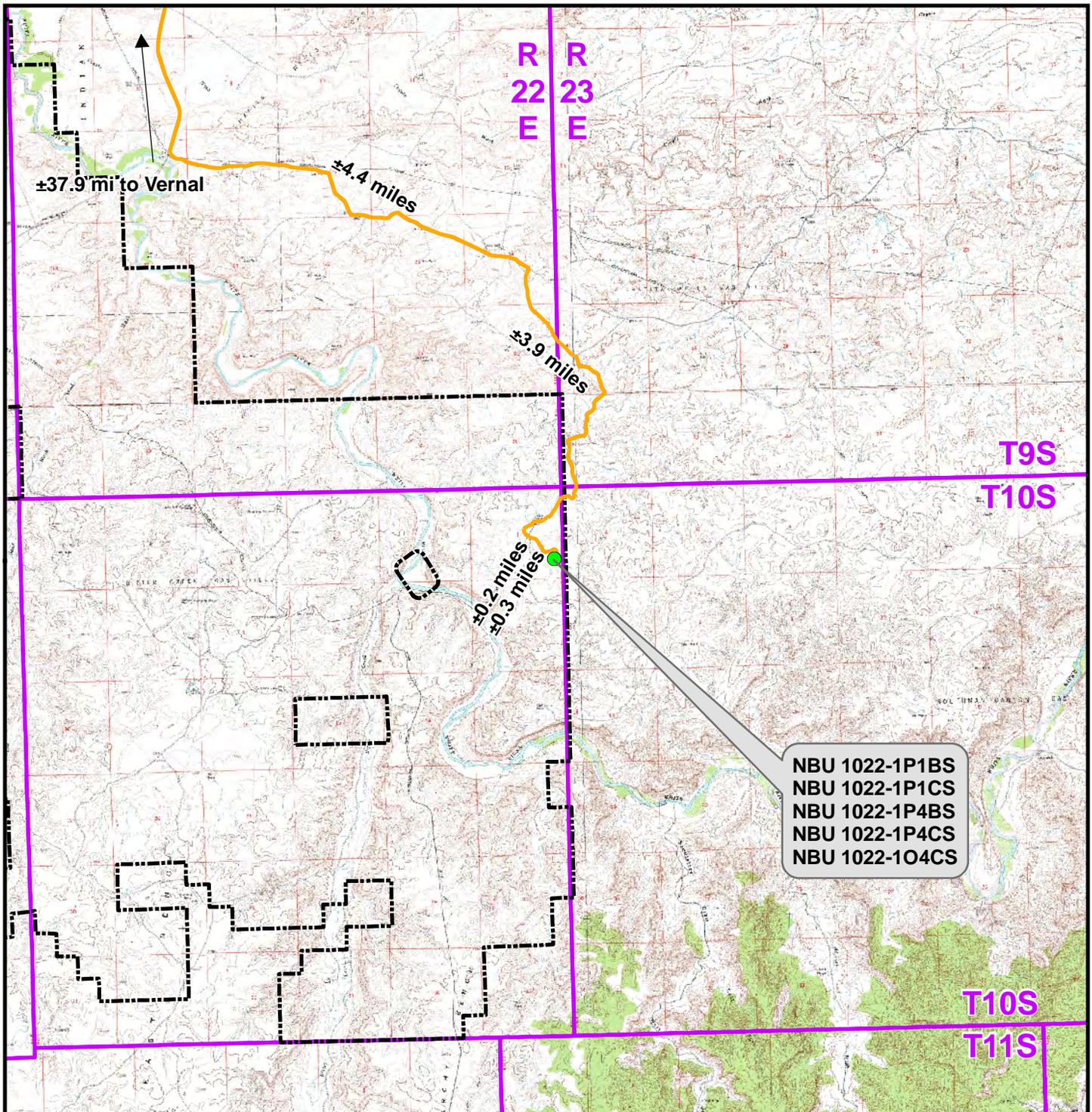
LOCATION PHOTOS
 NBU 1022-1P1BS,
 NBU 1022-1P1CS, NBU 1022-1P4BS,
 NBU 1022-1P4CS & NBU 1022-1O4CS
 LOCATED IN SECTION 1, T10S, R22E,
 S.L.B.&M., UINTAH COUNTY, UTAH.



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

DATE PHOTOS TAKEN: 02-28-11	PHOTOS TAKEN BY: M.S.B.	SHEET NO: 10
DATE DRAWN: 03-01-11	DRAWN BY: E.M.S.	
Date Last Revised:		10 OF 17



Legend

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

Distance From Well Pad - NBU 1022-1P To Unit Boundary: ±485ft

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

WELL PAD - NBU 1022-1P

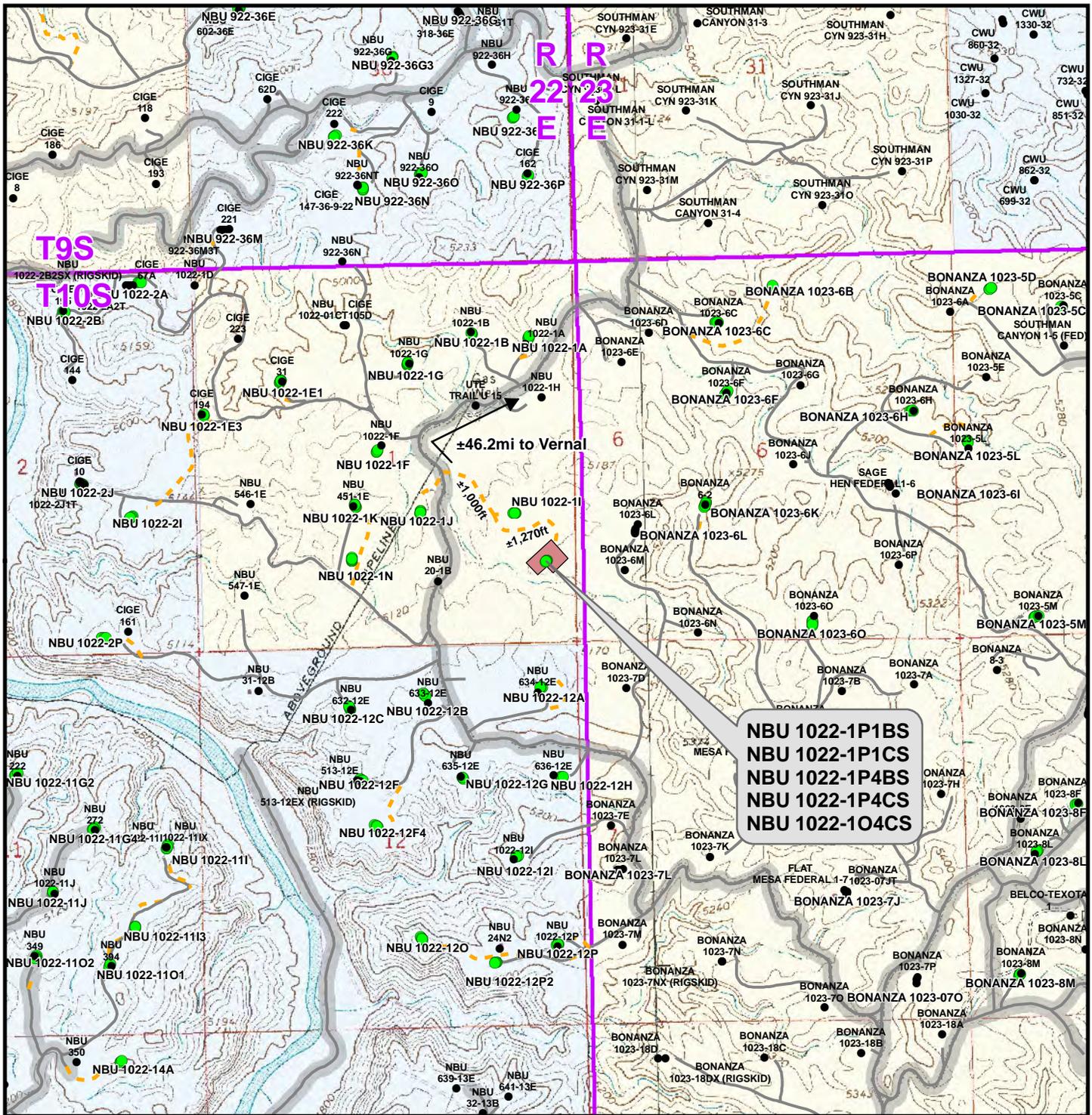
TOPO A
 NBU 1022-1P1BS,
 NBU 1022-1P1CS, NBU 1022-1P4BS,
 NBU 1022-1P4CS & NBU 1022-1O4CS
 LOCATED IN SECTION 1, T10S, R22E,
 S.L.B.&M., UINTAH COUNTY, UTAH



CONSULTING, LLC
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 Sheridan, WY 82801
 Phone (307) 674-0609
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Scale: 1:100,000	NAD83 USP Central	Sheet No:
Drawn: JFE	Date: 13 May 2011	11
Revised:	Date:	



**NBU 1022-1P1BS
NBU 1022-1P1CS
NBU 1022-1P4BS
NBU 1022-1P4CS
NBU 1022-1O4CS**

Legend

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

Total Proposed Road Length: ±1,270ft

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

WELL PAD - NBU 1022-1P

TOPO B
NBU 1022-1P1BS,
NBU 1022-1P1CS, NBU 1022-1P4BS,
NBU 1022-1P4CS & NBU 1022-1O4CS
LOCATED IN SECTION 1, T10S, R22E,
S.L.B.&M., UTAH COUNTY, UTAH

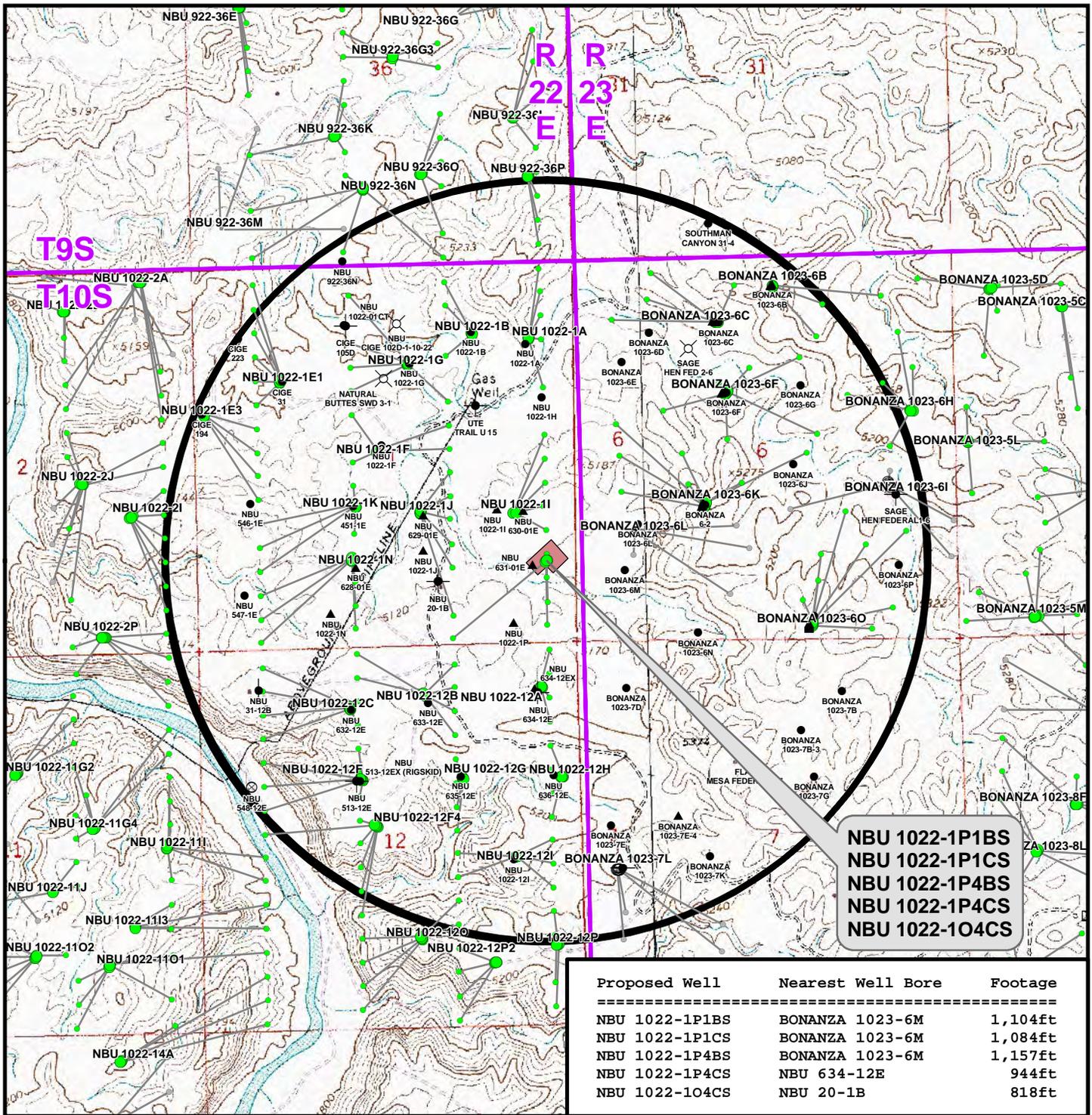


CONSULTING, LLC
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Scale: 1" = 2,000ft | NAD83 USP Central
Drawn: JFE | Date: 13 May 2011
Revised: TL | Date: 8 Dec 2011

Sheet No:
12 12 of 17



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

Legend

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

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1099 18th Street, Denver, Colorado 80202

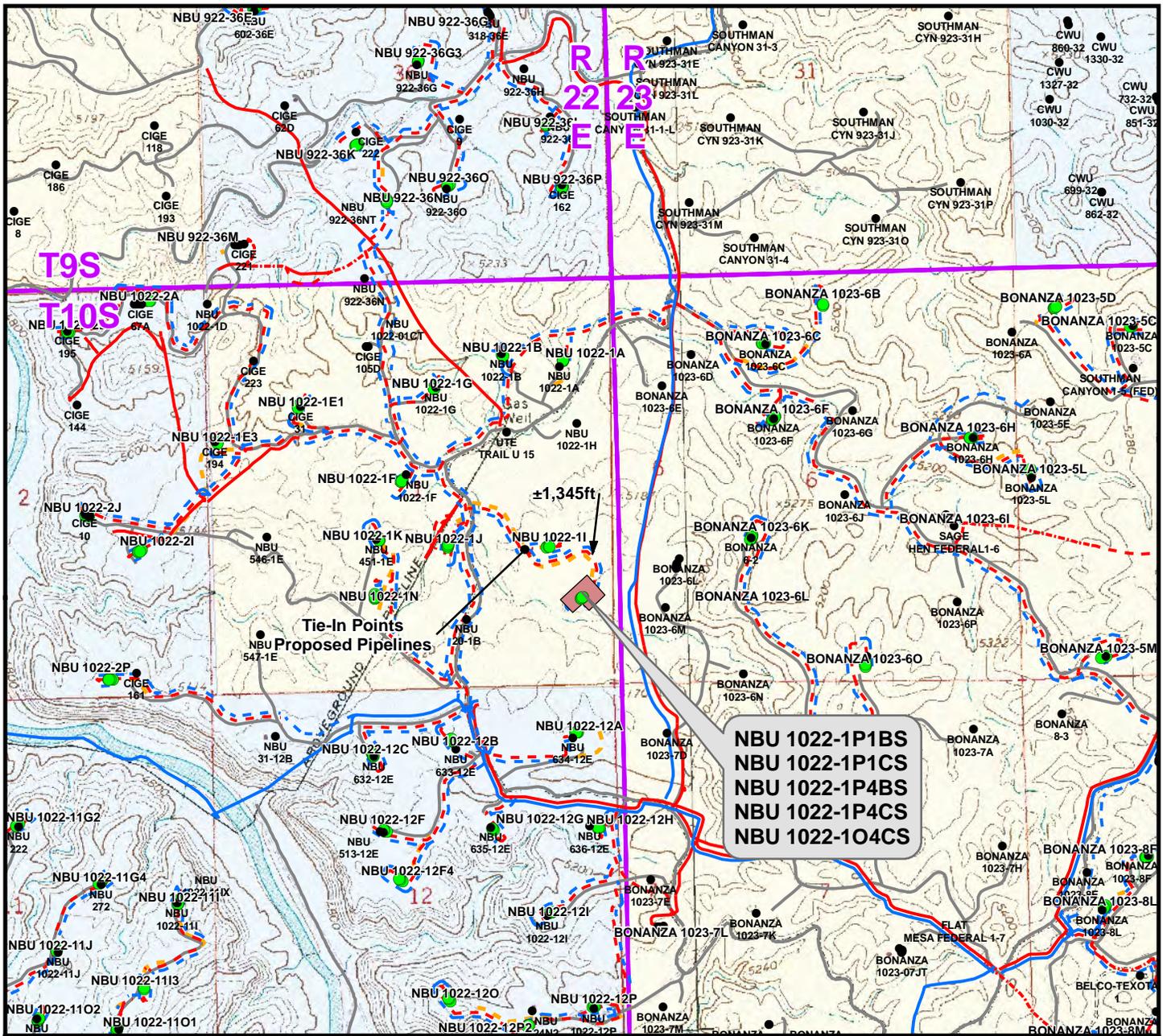
WELL PAD - NBU 1022-1P

TOPO C
NBU 1022-1P1BS,
NBU 1022-1P1CS, NBU 1022-1P4BS,
NBU 1022-1P4CS & NBU 1022-1O4CS
LOCATED IN SECTION 1, T10S, R22E,
S.L.B.&M., UINTAH COUNTY, UTAH

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Sheridan, WY 82801
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Scale: 1" = 2,000ft	NAD83 USP Central	Sheet No: 13
Drawn: JFE	Date: 13 May 2011	13 of 17
Revised:	Date:	



Proposed Liquid Pipeline	Length	Proposed Gas Pipeline	Length
Buried 6" (Max.) (Meter House to Edge of Pad)	±460ft	Buried 6" (Meter House to Edge of Pad)	±460ft
Buried 6" (Max.) (Edge of Pad to LI Intersection)	±1,345ft	Buried 6" (Edge of Pad to LI Intersection)	±1,345ft
TOTAL PROPOSED BURIED LIQUID PIPELINE =	±1,805ft	TOTAL PROPOSED BURIED GAS PIPELINE =	±1,805ft

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

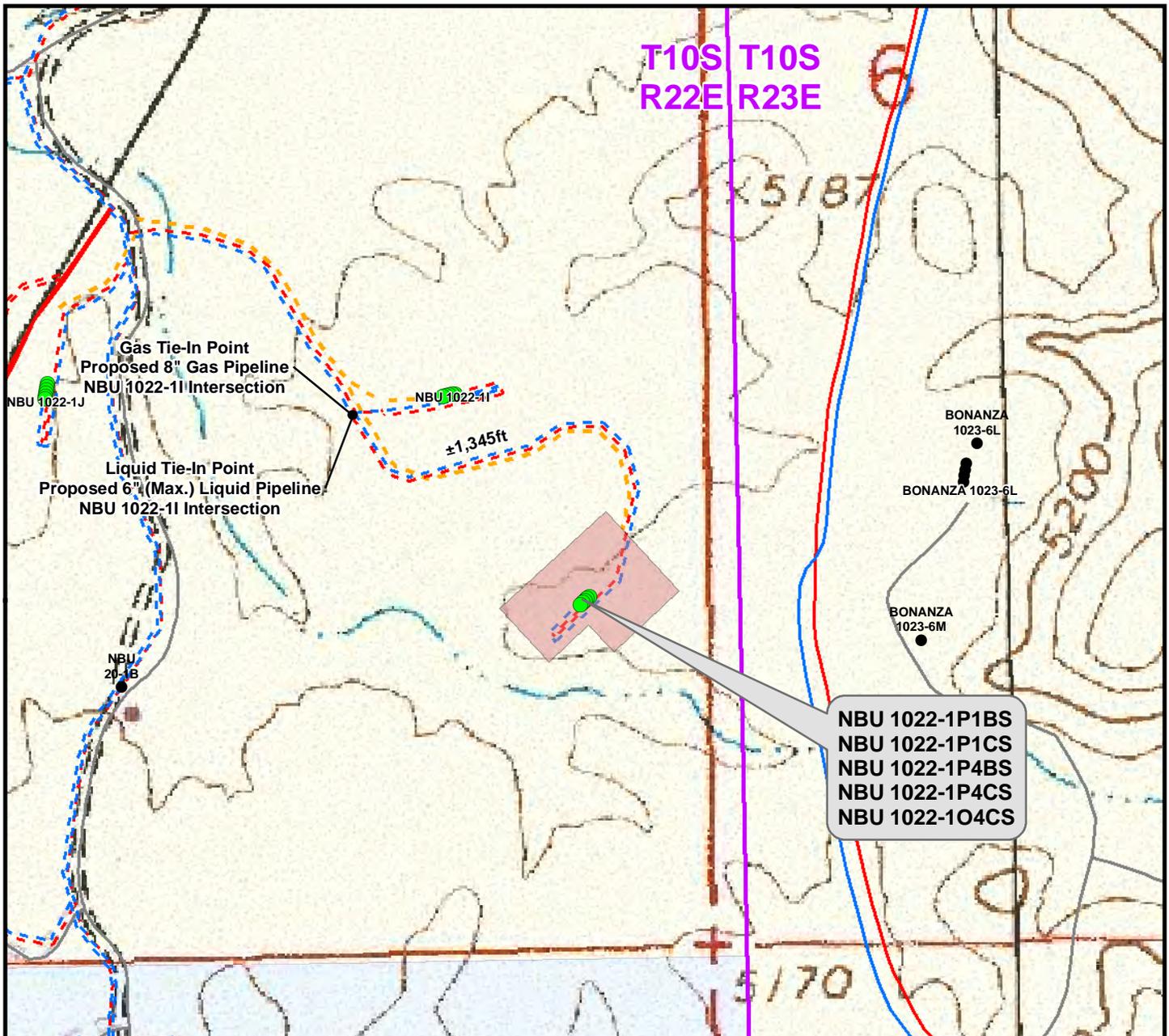
WELL PAD - NBU 1022-1P

TOPO D
 NBU 1022-1P1BS,
 NBU 1022-1P1CS, NBU 1022-1P4BS,
 NBU 1022-1P4CS & NBU 1022-1O4CS
 LOCATED IN SECTION 1, T10S, R22E,
 S.L.B.&M., UTAH COUNTY, UTAH

CONSULTING, LLC
 2155 North Main Street
 Sheridan, WY 82801
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Scale: 1" = 2,000ft	NAD83 USP Central	Sheet No:
Drawn: JFE	Date: 13 May 2011	14
Revised:	Date:	

14 of 17



Proposed Liquid Pipeline	Length
Buried 6" (Max.) (Meter House to Edge of Pad)	±460ft
Buried 6" (Max.) (Edge of Pad to LI Intersection)	±1,345ft
TOTAL PROPOSED BURIED LIQUID PIPELINE =	±1,805ft

Proposed Gas Pipeline	Length
Buried 6" (Meter House to Edge of Pad)	±460ft
Buried 6" (Edge of Pad to LI Intersection)	±1,345ft
TOTAL PROPOSED BURIED GAS PIPELINE =	±1,805ft

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

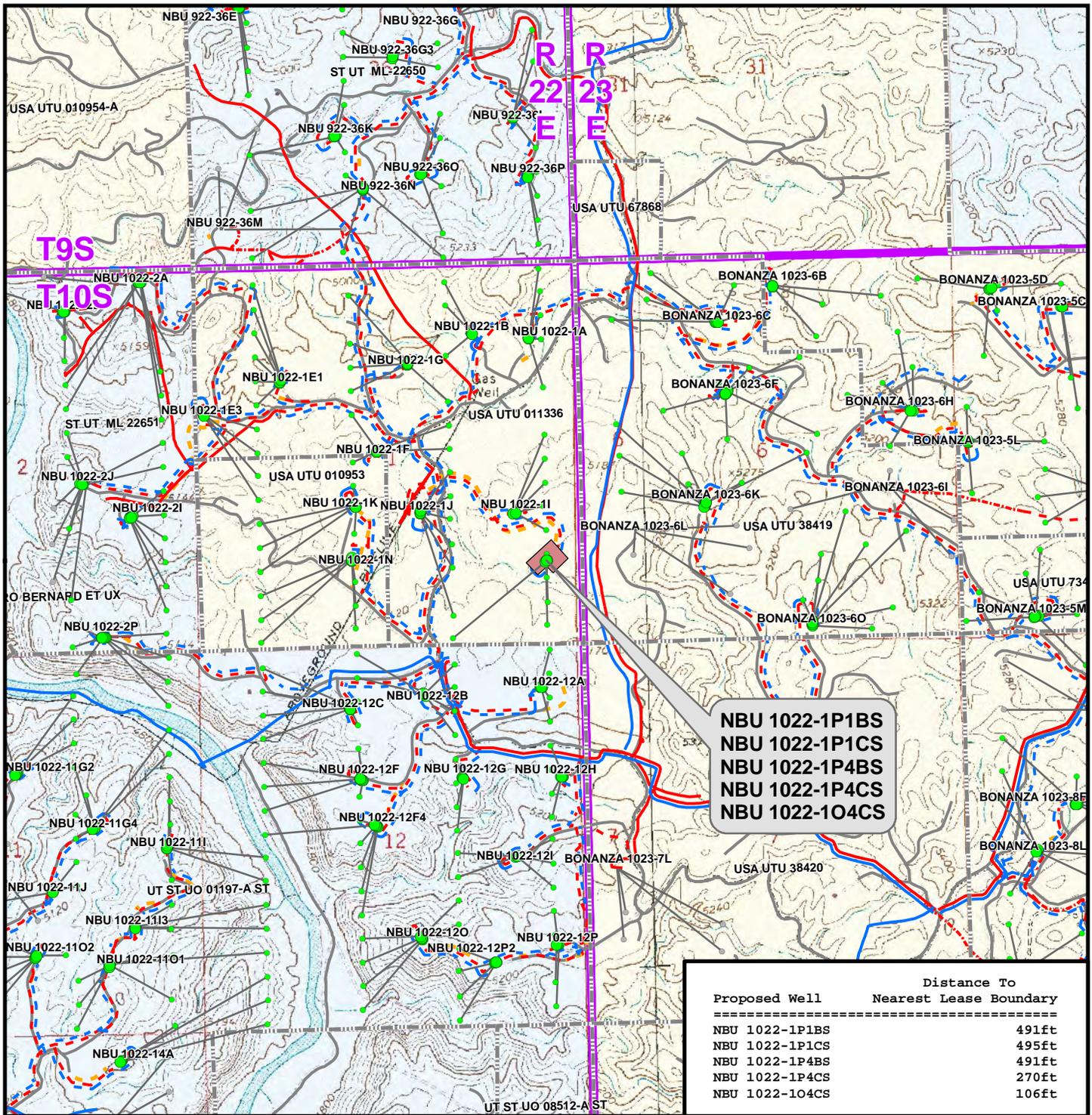
WELL PAD - NBU 1022-1P

TOPO D2 (PAD & PIPELINE DETAIL)
 NBU 1022-1P1BS,
 NBU 1022-1P1CS, NBU 1022-1P4BS,
 NBU 1022-1P4CS & NBU 1022-1O4CS
 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" = 500ft | NAD83 USP Central | Sheet No: **15** of 15

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



**NBU 1022-1P1BS
 NBU 1022-1P1CS
 NBU 1022-1P4BS
 NBU 1022-1P4CS
 NBU 1022-1O4CS**

Proposed Well	Distance To Nearest Lease Boundary
NBU 1022-1P1BS	491ft
NBU 1022-1P1CS	495ft
NBU 1022-1P4BS	491ft
NBU 1022-1P4CS	270ft
NBU 1022-1O4CS	106ft

Legend

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

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

WELL PAD - NBU 1022-1P

TOPO E
NBU 1022-1P1BS,
NBU 1022-1P1CS, NBU 1022-1P4BS,
NBU 1022-1P4CS & NBU 1022-1O4CS
LOCATED IN SECTION 1, T10S, R22E,
S.L.B.&M., UTAH COUNTY, UTAH

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Scale: 1" = 2,000ft	NAD83 USP Central	Sheet No:
Drawn: JFE	Date: 13 May 2011	16
Revised:	Date:	

Kerr-McGee Oil & Gas Onshore, LP
WELL PAD – NBU 1022-1P
WELLS – NBU 1022-1P1BS, NBU 1022-1P1CS, NBU 1022-1P4BS,
NBU 1022-1P4CS & NBU 1022-1O4CS
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 Fidlar Road (County B Road 3410) which road intersection is approximately 400 feet northeast of the Mountain Fuel Bridge at the White River. Exit left and proceed in a southeasterly direction along the Fidlar Road approximately 4.4 miles to the intersection of the Seven Sisters Road (County B Road 3420). Exit right and proceed in a southeasterly, then southerly direction along the Seven Sisters Road approximately 3.9 miles to the proposed access road for the proposed NBU 1022-1I well pad. Follow road flags in a southeasterly direction approximately 1,000 feet to the proposed access road to the proposed NBU 1022-1P well pad. Continue following road flags in a southeasterly direction approximately 1,270 feet to the proposed well pad.

Total distance from Vernal, Utah to the proposed well location is approximately 46.7 miles in a southerly direction.



Scientific Drilling
Rocky Mountain Operations

US ROCKIES REGION PLANNING

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

NBU 1022-1P PAD

NBU 1022-1P1BS

OH

Plan: PLAN #1 PRELIMINARY

Standard Planning Report

23 August, 2011





SDI
Planning Report



Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 1022-1P1BS
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL 5128 & KB 4 @ 5132.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	MD Reference:	GL 5128 & KB 4 @ 5132.00ft (ASSUMED)
Site:	NBU 1022-1P PAD	North Reference:	True
Well:	NBU 1022-1P1BS	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	NBU 1022-1P PAD, SECTION 1 T10S R22E				
Site Position:		Northing:	14,520,663.26 usft	Latitude:	39° 58' 26.033 N
From:	Lat/Long	Easting:	2,094,330.08 usft	Longitude:	109° 22' 47.543 W
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence:	1.04 °

Well	NBU 1022-1P1BS, 1168 FSL 485 FEL					
Well Position	+N/-S	0.00 ft	Northing:	14,520,663.26 usft	Latitude:	39° 58' 26.033 N
	+E/-W	0.00 ft	Easting:	2,094,330.08 usft	Longitude:	109° 22' 47.543 W
Position Uncertainty	0.00 ft		Wellhead Elevation:		Ground Level:	5,128.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	08/23/11	11.00	65.86	52,311

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	356.11

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	
450.00	3.00	356.11	449.93	3.92	-0.27	2.00	2.00	0.00	356.11	
1,788.94	3.00	356.11	1,787.04	73.83	-5.02	0.00	0.00	0.00	0.00	
1,960.37	0.00	0.00	1,958.39	78.31	-5.32	1.75	-1.75	0.00	180.00	
8,485.98	0.00	0.00	8,484.00	78.31	-5.32	0.00	0.00	0.00	0.00	



SDI
Planning Report



Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 1022-1P1BS
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL 5128 & KB 4 @ 5132.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	MD Reference:	GL 5128 & KB 4 @ 5132.00ft (ASSUMED)
Site:	NBU 1022-1P PAD	North Reference:	True
Well:	NBU 1022-1P1BS	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	
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
Start Build 2.00										
400.00	2.00	356.11	399.98	1.74	-0.12	1.75	2.00	2.00	0.00	
450.00	3.00	356.11	449.93	3.92	-0.27	3.93	2.00	2.00	0.00	
Start 1338.94 hold at 450.00 MD										
500.00	3.00	356.11	499.86	6.53	-0.44	6.54	0.00	0.00	0.00	
600.00	3.00	356.11	599.73	11.75	-0.80	11.78	0.00	0.00	0.00	
700.00	3.00	356.11	699.59	16.97	-1.15	17.01	0.00	0.00	0.00	
800.00	3.00	356.11	799.45	22.19	-1.51	22.24	0.00	0.00	0.00	
900.00	3.00	356.11	899.31	27.41	-1.86	27.48	0.00	0.00	0.00	
1,000.00	3.00	356.11	999.18	32.64	-2.22	32.71	0.00	0.00	0.00	
1,100.00	3.00	356.11	1,099.04	37.86	-2.57	37.94	0.00	0.00	0.00	
1,122.99	3.00	356.11	1,122.00	39.06	-2.66	39.15	0.00	0.00	0.00	
GREEN RIVER										
1,200.00	3.00	356.11	1,198.90	43.08	-2.93	43.18	0.00	0.00	0.00	
1,300.00	3.00	356.11	1,298.77	48.30	-3.28	48.41	0.00	0.00	0.00	
1,400.00	3.00	356.11	1,398.63	53.52	-3.64	53.65	0.00	0.00	0.00	
1,500.00	3.00	356.11	1,498.49	58.74	-3.99	58.88	0.00	0.00	0.00	
1,600.00	3.00	356.11	1,598.36	63.96	-4.35	64.11	0.00	0.00	0.00	
1,700.00	3.00	356.11	1,698.22	69.19	-4.70	69.35	0.00	0.00	0.00	
1,788.94	3.00	356.11	1,787.04	73.83	-5.02	74.00	0.00	0.00	0.00	
Start Drop -1.75										
1,800.00	2.81	356.11	1,798.08	74.39	-5.06	74.56	1.75	-1.75	0.00	
1,900.00	1.06	356.11	1,898.02	77.75	-5.29	77.93	1.75	-1.75	0.00	
1,960.37	0.00	0.00	1,958.39	78.31	-5.32	78.49	1.75	-1.75	0.00	
Start 6525.61 hold at 1960.37 MD										
2,000.00	0.00	0.00	1,998.02	78.31	-5.32	78.49	0.00	0.00	0.00	
2,100.00	0.00	0.00	2,098.02	78.31	-5.32	78.49	0.00	0.00	0.00	
2,200.00	0.00	0.00	2,198.02	78.31	-5.32	78.49	0.00	0.00	0.00	
2,201.98	0.00	0.00	2,200.00	78.31	-5.32	78.49	0.00	0.00	0.00	
8 5/8"										
2,300.00	0.00	0.00	2,298.02	78.31	-5.32	78.49	0.00	0.00	0.00	
2,400.00	0.00	0.00	2,398.02	78.31	-5.32	78.49	0.00	0.00	0.00	
2,500.00	0.00	0.00	2,498.02	78.31	-5.32	78.49	0.00	0.00	0.00	
2,600.00	0.00	0.00	2,598.02	78.31	-5.32	78.49	0.00	0.00	0.00	
2,700.00	0.00	0.00	2,698.02	78.31	-5.32	78.49	0.00	0.00	0.00	
2,800.00	0.00	0.00	2,798.02	78.31	-5.32	78.49	0.00	0.00	0.00	
2,900.00	0.00	0.00	2,898.02	78.31	-5.32	78.49	0.00	0.00	0.00	
3,000.00	0.00	0.00	2,998.02	78.31	-5.32	78.49	0.00	0.00	0.00	
3,100.00	0.00	0.00	3,098.02	78.31	-5.32	78.49	0.00	0.00	0.00	
3,200.00	0.00	0.00	3,198.02	78.31	-5.32	78.49	0.00	0.00	0.00	
3,300.00	0.00	0.00	3,298.02	78.31	-5.32	78.49	0.00	0.00	0.00	
3,400.00	0.00	0.00	3,398.02	78.31	-5.32	78.49	0.00	0.00	0.00	
3,500.00	0.00	0.00	3,498.02	78.31	-5.32	78.49	0.00	0.00	0.00	
3,600.00	0.00	0.00	3,598.02	78.31	-5.32	78.49	0.00	0.00	0.00	
3,700.00	0.00	0.00	3,698.02	78.31	-5.32	78.49	0.00	0.00	0.00	
3,800.00	0.00	0.00	3,798.02	78.31	-5.32	78.49	0.00	0.00	0.00	
3,900.00	0.00	0.00	3,898.02	78.31	-5.32	78.49	0.00	0.00	0.00	



SDI
Planning Report



Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 1022-1P1BS
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL 5128 & KB 4 @ 5132.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	MD Reference:	GL 5128 & KB 4 @ 5132.00ft (ASSUMED)
Site:	NBU 1022-1P PAD	North Reference:	True
Well:	NBU 1022-1P1BS	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)	
4,000.00	0.00	0.00	3,998.02	78.31	-5.32	78.49	0.00	0.00	0.00	
4,100.00	0.00	0.00	4,098.02	78.31	-5.32	78.49	0.00	0.00	0.00	
4,145.98	0.00	0.00	4,144.00	78.31	-5.32	78.49	0.00	0.00	0.00	
WASATCH										
4,200.00	0.00	0.00	4,198.02	78.31	-5.32	78.49	0.00	0.00	0.00	
4,300.00	0.00	0.00	4,298.02	78.31	-5.32	78.49	0.00	0.00	0.00	
4,400.00	0.00	0.00	4,398.02	78.31	-5.32	78.49	0.00	0.00	0.00	
4,500.00	0.00	0.00	4,498.02	78.31	-5.32	78.49	0.00	0.00	0.00	
4,600.00	0.00	0.00	4,598.02	78.31	-5.32	78.49	0.00	0.00	0.00	
4,700.00	0.00	0.00	4,698.02	78.31	-5.32	78.49	0.00	0.00	0.00	
4,800.00	0.00	0.00	4,798.02	78.31	-5.32	78.49	0.00	0.00	0.00	
4,900.00	0.00	0.00	4,898.02	78.31	-5.32	78.49	0.00	0.00	0.00	
5,000.00	0.00	0.00	4,998.02	78.31	-5.32	78.49	0.00	0.00	0.00	
5,100.00	0.00	0.00	5,098.02	78.31	-5.32	78.49	0.00	0.00	0.00	
5,200.00	0.00	0.00	5,198.02	78.31	-5.32	78.49	0.00	0.00	0.00	
5,300.00	0.00	0.00	5,298.02	78.31	-5.32	78.49	0.00	0.00	0.00	
5,400.00	0.00	0.00	5,398.02	78.31	-5.32	78.49	0.00	0.00	0.00	
5,500.00	0.00	0.00	5,498.02	78.31	-5.32	78.49	0.00	0.00	0.00	
5,600.00	0.00	0.00	5,598.02	78.31	-5.32	78.49	0.00	0.00	0.00	
5,700.00	0.00	0.00	5,698.02	78.31	-5.32	78.49	0.00	0.00	0.00	
5,800.00	0.00	0.00	5,798.02	78.31	-5.32	78.49	0.00	0.00	0.00	
5,900.00	0.00	0.00	5,898.02	78.31	-5.32	78.49	0.00	0.00	0.00	
6,000.00	0.00	0.00	5,998.02	78.31	-5.32	78.49	0.00	0.00	0.00	
6,100.00	0.00	0.00	6,098.02	78.31	-5.32	78.49	0.00	0.00	0.00	
6,200.00	0.00	0.00	6,198.02	78.31	-5.32	78.49	0.00	0.00	0.00	
6,300.00	0.00	0.00	6,298.02	78.31	-5.32	78.49	0.00	0.00	0.00	
6,316.98	0.00	0.00	6,315.00	78.31	-5.32	78.49	0.00	0.00	0.00	
MESAVERDE										
6,400.00	0.00	0.00	6,398.02	78.31	-5.32	78.49	0.00	0.00	0.00	
6,500.00	0.00	0.00	6,498.02	78.31	-5.32	78.49	0.00	0.00	0.00	
6,600.00	0.00	0.00	6,598.02	78.31	-5.32	78.49	0.00	0.00	0.00	
6,700.00	0.00	0.00	6,698.02	78.31	-5.32	78.49	0.00	0.00	0.00	
6,800.00	0.00	0.00	6,798.02	78.31	-5.32	78.49	0.00	0.00	0.00	
6,900.00	0.00	0.00	6,898.02	78.31	-5.32	78.49	0.00	0.00	0.00	
7,000.00	0.00	0.00	6,998.02	78.31	-5.32	78.49	0.00	0.00	0.00	
7,100.00	0.00	0.00	7,098.02	78.31	-5.32	78.49	0.00	0.00	0.00	
7,200.00	0.00	0.00	7,198.02	78.31	-5.32	78.49	0.00	0.00	0.00	
7,300.00	0.00	0.00	7,298.02	78.31	-5.32	78.49	0.00	0.00	0.00	
7,400.00	0.00	0.00	7,398.02	78.31	-5.32	78.49	0.00	0.00	0.00	
7,500.00	0.00	0.00	7,498.02	78.31	-5.32	78.49	0.00	0.00	0.00	
7,600.00	0.00	0.00	7,598.02	78.31	-5.32	78.49	0.00	0.00	0.00	
7,700.00	0.00	0.00	7,698.02	78.31	-5.32	78.49	0.00	0.00	0.00	
7,800.00	0.00	0.00	7,798.02	78.31	-5.32	78.49	0.00	0.00	0.00	
7,900.00	0.00	0.00	7,898.02	78.31	-5.32	78.49	0.00	0.00	0.00	
8,000.00	0.00	0.00	7,998.02	78.31	-5.32	78.49	0.00	0.00	0.00	
8,100.00	0.00	0.00	8,098.02	78.31	-5.32	78.49	0.00	0.00	0.00	
8,200.00	0.00	0.00	8,198.02	78.31	-5.32	78.49	0.00	0.00	0.00	
8,300.00	0.00	0.00	8,298.02	78.31	-5.32	78.49	0.00	0.00	0.00	
8,400.00	0.00	0.00	8,398.02	78.31	-5.32	78.49	0.00	0.00	0.00	
8,485.98	0.00	0.00	8,484.00	78.31	-5.32	78.49	0.00	0.00	0.00	
TD at 8485.98 - PHBL_NBU 1022-1P1BS										



Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 1022-1P1BS
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL 5128 & KB 4 @ 5132.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	MD Reference:	GL 5128 & KB 4 @ 5132.00ft (ASSUMED)
Site:	NBU 1022-1P PAD	North Reference:	True
Well:	NBU 1022-1P1BS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1 PRELIMINARY		

Design Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(ft)	(ft)	(ft)	(usft)	(usft)		
- Shape									
PHBL_NBU 1022-1P1B: - plan hits target center - Circle (radius 25.00)	0.00	0.00	8,484.00	78.31	-5.32	14,520,741.46	2,094,323.34	39° 58' 26.807 N	109° 22' 47.611 W

Casing Points					
Measured Depth	Vertical Depth		Name	Casing Diameter	Hole Diameter
(ft)	(ft)			(in)	(in)
2,201.98	2,200.00	8 5/8"		8.625	11.000

Formations					
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction
(ft)	(ft)			(°)	(°)
1,122.99	1,122.00	GREEN RIVER			
4,145.98	4,144.00	WASATCH			
6,316.98	6,315.00	MESAVERDE			

Plan Annotations					
Measured Depth	Vertical Depth	Local Coordinates		Comment	
(ft)	(ft)	+N/-S	+E/-W		
(ft)	(ft)	(ft)	(ft)		
300.00	300.00	0.00	0.00	Start Build 2.00	
450.00	449.93	3.92	-0.27	Start 1338.94 hold at 450.00 MD	
1,788.94	1,787.04	73.83	-5.02	Start Drop -1.75	
1,960.37	1,958.39	78.31	-5.32	Start 6525.61 hold at 1960.37 MD	
8,485.98	8,484.00	78.31	-5.32	TD at 8485.98	

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1022-1P4BS / 1022-1P4CS

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

NBU 1022-1P Pad

API #

NBU 1022-1O4CS

Surface:	1141 FSL / 515 FEL	SESE	Lot
BHL:	106 FSL / 1816 FEL	SWSE	Lot

API #

NBU 1022-1P1BS

Surface:	1168 FSL / 485 FEL	SESE	Lot
BHL:	1246 FSL / 491 FEL	SESE	Lot

API #4304739297

NBU 1022-1P1CS (FKA NBU 631-01E)

Surface:	1161 FSL / 493 FEL	SESE	Lot
BHL:	920 FSL / 495 FEL	SESE	Lot

API #

NBU 1022-1P4BS

Surface:	1154 FSL / 500 FEL	SESE	Lot
BHL:	582 FSL / 491 FEL	SESE	Lot

API #

NBU 1022-1P4CS

Surface:	1148 FSL / 508 FEL	SESE	Lot
BHL:	270 FSL / 503 FEL	SESE	Lot

An Application for Permit to Drill (APD) was approved by the BLM on October 24, 2008 for the NBU 631-01E well location. A Sundry Notice under separate cover will be submitted to change the location and the well name to the NBU 1022-1P1CS.

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.

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RECEIVED: February 03, 2012

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.

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1022-1P4BS / 1022-1P4CS

NBU 1022-1P Pad
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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"

±1,280' (0.4 miles) – Section 1 T10S R22E (SE/4) – On-lease UTU011336, new access road from the edge of the pad to the 1021-II intersection. Please refer to Topo B.

C. Location of Existing Wells:

A) Refer to Topo Map C.

D. Location of Existing and/or Proposed Facilities:

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 ±2,850' and the individual segments are broken up as follows:

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

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NBU 1022-1P Pad
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- ±460' (0.1 miles) – Section 1 T10S R22E (SE/4 SE/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.
- ±1,345' (0.3 miles) – Section 1 T10S R22E (SE/4) – On-lease UTU011336, BLM surface, New 6" buried gas gathering pipeline from the edge of the pad to the proposed 8" gas gathering pipeline at the NBU 1022-II Pad intersection. Please refer to Exhibit A, Line 9.
- ±1,045' (0.2 miles) – Section 1 T10S R22E (SE/4) – On-lease UTU011336, BLM surface, New 8" buried gas gathering pipeline from the NBU 1022-II Pad intersection to the tie-in at the previously approved 16" gas gathering pipeline. Please refer to Exhibit A, Line 8. This pipeline will be used concurrently with the NBU 1022-II Pad.

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 ±2,850' and the individual segments are broken up as follows:

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

- ±460' (0.1 miles) – Section 1 T10S R22E (SE/4 SE/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.
- ±1,345' (0.3 miles) – Section 1 T10S R22E (SE/4) – On-lease UTU011336, BLM surface, New 6" buried liquid gathering pipeline from the edge of the pad to the NBU 1022-II Pad intersection. Please refer to Exhibit B, Line 9.
- ±1,045' (0.2 miles) – Section 1 T10S R22E (SE/4) – On-lease UTU011336, BLM surface, New 6" buried liquid gathering pipeline from the NBU 1022-II Pad intersection to the tie-in at the previously approved liquid gathering pipeline. Please refer to Exhibit B, Line 8. This pipeline will be used concurrently with the NBU 1022-II Pad.

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

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1022-1P4BS / 1022-1P4CS

NBU 1022-1P Pad
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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:

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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:

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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,

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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.

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

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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.

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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

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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)

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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 in June, 2010 and July, 2011 by SWCA Environmental Consultants. For additional details please refer to reports UT11-14314-31, UT11-14314-32 and UT11-14314-33.

Biological field survey was completed in May and June of 2011 by Grasslands Consulting, Inc (GCI). For additional details please refer to reports GCI-518 and GCI 559.

Proposed Action Annual Emissions Tables:

Table 1: Proposed Action Annual Emissions (tons/year)¹			
Pollutant	Development	Production	Total
NO _x	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)	2012 Uintah Basin Emission Inventory^a (ton/yr)	Percentage of Proposed Action to WRAP Phase III
NO _x	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

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

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

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

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

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

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

Bond coverage 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 11, 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 1022-1P1BS
T10S-R22E
Section 1: SESE/SESE
Surface: 1168' FSL, 485' FEL
Bottom Hole: 1246' FSL, 491' 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 1022-1P1BS 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.

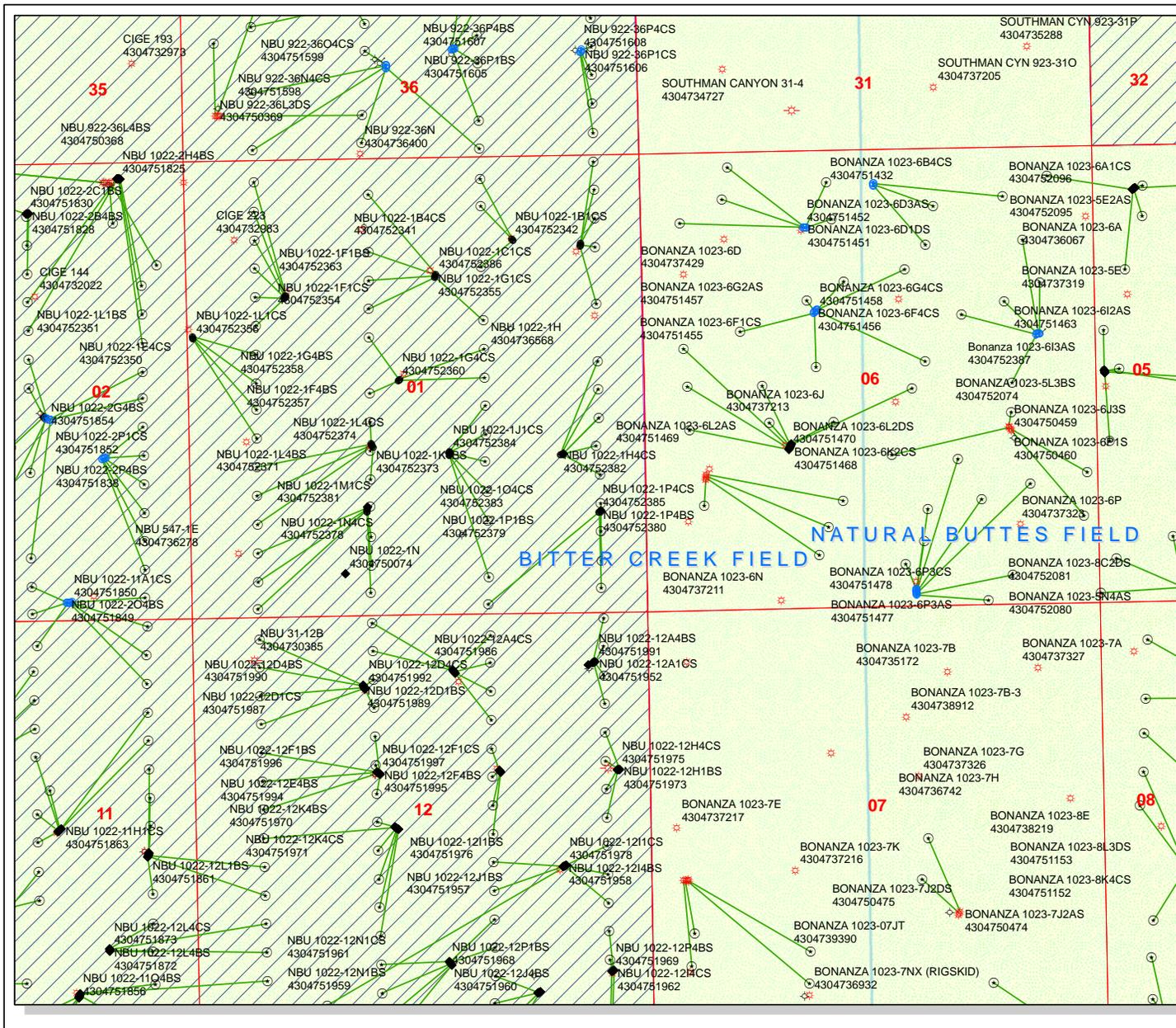
Therefore, based on the above stated information Kerr-McGee Oil & Gas Onshore LP requests the permit be granted pursuant to R649-3-11.

Sincerely,

KERR-MCGEE OIL & GAS ONSHORE LP

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

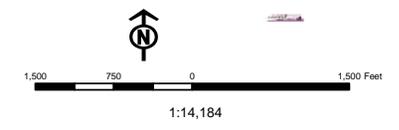
Joseph D. Johnson
Landman



API Number: 4304752379
Well Name: NBU 1022-1P1BS
 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 |
| PP 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
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(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

RECEIVED: February 10, 2012

WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 2/3/2012

API NO. ASSIGNED: 43047523790000

WELL NAME: NBU 1022-1P1BS

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

PHONE NUMBER: 720 929-6086

CONTACT: Gina Becker

PROPOSED LOCATION: SESE 01 100S 220E

Permit Tech Review:

SURFACE: 1168 FSL 0485 FEL

Engineering Review:

BOTTOM: 1246 FSL 0491 FEL

Geology Review:

COUNTY: UINTAH

LATITUDE: 39.97392

LONGITUDE: -109.38068

UTM SURF EASTINGS: 638280.00

NORTHINGS: 4426118.00

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



GARY R. HERBERT
Governor

GREGORY S. BELL
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

Well Name: NBU 1022-1P1BS
API Well Number: 43047523790000
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

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 1022-1P1BS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047523790000
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: 1168 FSL 0485 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESE 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: 8/7/2012	<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. CMT W/28 SX READY
 MIX. SPUD WELL LOCATION ON 8/7/2012 AT 10:00 HRS.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
 August 14, 2012

NAME (PLEASE PRINT) Cara Mahler	PHONE NUMBER 720 929-6029	TITLE Regulatory Analyst I
SIGNATURE N/A	DATE 8/10/2012	

BLM - Vernal Field Office - Notification Form

Operator KERR-McGEE OIL & GAS Rig Name/# BUCKET RIG
 Submitted By CARA MAHLER Phone Number 720.929.6029
 Well Name/Number NBU 1022-1P1BS
 Qtr/Qtr SESE Section 1 Township 10S Range 22E
 Lease Serial Number UTU011336
 API Number 4304752379

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

Date/Time 08/07/2012 07:00 HRS AM PM

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

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

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

Date/Time 08/25/2012 08:00 HRS AM PM

BOPE

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

Date/Time _____ AM PM

Remarks ESTIMATED DATE AND TIME. PLEASE CONTACT KENNY GATHINGS AT

435.828.0986 OR LOVELL YOUNG AT 435.781.7051

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

OCT 20 2011

FORM APPROVED
OMB No. 1004-0136
Expires July 31, 2010

APPLICATION FOR PERMIT TO DRILL OR REENTER **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 Contact: GINA T BECKER Email: GINA.BECKER@ANADARKO.COM		7. If Unit or CA Agreement, Name and No. UTU63047A
3a. Address P.O. BOX 173779 DENVER, CO 80202-3779	3b. Phone No. (include area code) Ph: 720-929-6086 Fx: 720-929-7086	8. Lease Name and Well No. NBU 1022-1P1BS
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface SESE 1168FSL 485FEL 39.973864 N Lat, 109.380553 W Lon At proposed prod. zone SESE 1246FSL 491FEL 39.974079 N Lat, 109.380572 W Lon		9. API Well No. 43-047-52379
14. Distance in miles and direction from nearest town or post office* APPROXIMATELY 46 MILES SOUTH OF VERNAL, UTAH		10. Field and Pool, or Exploratory NATURAL BUTTES
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 491	16. No. of Acres in Lease 522.84	11. Sec., T., R., M., or Blk. and Survey or Area Sec 1 T10S R22E Mer SLB
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. 1104	19. Proposed Depth 8486 MD 8484 TVD	12. County or Parish UINTAH
21. Elevations (Show whether DF, KB, RT, GL, etc.) 5132 GL	22. Approximate date work will start 03/01/2012	13. State UT
		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 10/13/2011
Title REGULATORY ANALYST II		
Approved by (Signature) 	Name (Printed/Typed) Jerry Kenczka	Date JUN 27 2011
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 #120115 verified by the BLM Well Information System
For KERR-MCGEE OIL & GAS ONSHORE, sent to the Vernal

RECEIVED

AUG 10 2012

UDOGM

NOTICE OF APPROVAL

CONDITIONS OF APPROVAL ATTACHED

DIV. OF OIL, GAS & MINING

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

12UBR0037AE

APD posted 10/21/11



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 1022-1P1BS
API No: 43-047-52379

Location: SESE, Sec. 1, T10S, R22E
Lease No: UTU-011336
Agreement: 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:

- Gamma ray Log shall be run from Total Depth to surface.
- CBL will be run from TD to TOC.

Variances Granted:

Air Drilling

- Properly lubricated and maintained rotating head. Variance granted to use a properly maintained and lubricated diverter bowl in place of a rotating head.
- Blooie line discharge 100' from the well bore. Variance granted for blooie line discharge to be 45' from the well bore.
- Compressors located in the opposite direction from the blooie line a minimum of 100' from the well bore. Variance granted for truck/trailer mounted air compressors located 40' from the well bore.
- In lieu of mud products on location, Kerr McGee will fill the reserve pit with water for the kill medium and will utilize a skid pump near the reserve pit to supply the water to the well bore if necessary.
- Automatic igniter. Variance granted for igniter due to there being no productive formations encountered while air drilling.
- FIT Test. Variance granted due to well-known geology and the problems that can occur with the FIT Test.

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 ($\frac{1}{4}$ 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 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) 929-6029

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304752379	NBU 1022-1P1BS		SESE	1	10S	22E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
B	99999	2900	8/7/2012			8/20/2012	
Comments: MIRU BUCKET RIG. SPUD WELL LOCATION ON 8/7/2012 AT 10:00 HRS. <i>Wsmvd BHL: Sese</i>							

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304739297	NBU 1022-1P1CS		SESE	1	10S	22E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
B	99999	2900	8/8/2012			8/20/2012	
Comments: MIRU BUCKET RIG. SPUD WELL LOCATION ON 8/8/2012 AT 11:00 HRS. <i>Wsmvd BHL:</i>							

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304752380	NBU 1022-1P4BS		SESE	1	10S	22E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
B	99999	2900	8/7/2012			8/20/2012	
Comments: MIRU BUCKET RIG. SPUD WELL LOCATION ON 8/7/2012 AT 13:30 HRS. <i>Wsmvd BHL: Sese</i>							

ACTION CODES:

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

RECEIVED

AUG 15 2012

Div. of Oil, Gas & Mining

CARA MAHLER

Name (Please Print)

Signature

REGULATORY ANALYST

8/10/2012

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	
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:	
7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES	
8. WELL NAME and NUMBER: NBU 1022-1P1BS	
9. API NUMBER: 43047523790000	
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	1. 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: 1168 FSL 0485 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESE Section: 01 Township: 10.0S Range: 22.0E Meridian: S	

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: 1/2/2013	<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 December 2012. Well TD at 2,339

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

NAME (PLEASE PRINT) Lindsey Frazier	PHONE NUMBER 720 929-6857	TITLE Regulatory Analyst II
SIGNATURE N/A	DATE 1/2/2013	

State of Utah - Notification Form

Operator Anadarko Petroleum Rig Name/# PIONEER 54
Submitted By KENNY MORRIS Phone Number 435-790-2921
Well Name/Number NBU 1022-1P1BS
Qtr/Qtr SW/NE Section 1 Township 10S Range 22E
Lease Serial Number UTU-011336
API Number 43047523790000

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 1/23/2013 10:00 AM PM

Rig Move

Location To: NBU1022-O1P PAD

Date/Time _ _ AM PM

RECEIVED

JAN 23 2013

DIV. OF OIL, GAS & MINING

Remarks NBU 1022-O1P PAD WELL 1 OF 5

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 1022-1P1BS	
9. API NUMBER: 43047523790000	
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	1. TYPE OF WELL Gas Well
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	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: 1168 FSL 0485 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESE Section: 01 Township: 10.0S Range: 22.0E Meridian: S	

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: 1/27/2013	<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.

FINISHED DRILLING TO 8,500' ON 01/27/2013. CEMENTED PRODUCTION CASING. RELEASED PIONEER 54 RIG ON 01/27/2013. DETAILS OF CASING AND CEMENT WILL BE INCLUDED WITH THE WELL COMPLETION REPORT. WELL IS WAITING ON FINAL COMPLETION ACTIVITIES

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
 January 30, 2013

NAME (PLEASE PRINT) Laura Abrams	PHONE NUMBER 720 929-6356	TITLE Regulatory Analyst II
SIGNATURE N/A	DATE 1/29/2013	

State of Utah - Notification Form

Operator Anadarko Petroleum Rig Name/# PIONEER 54
Submitted By KENNY MORRIS Phone Number 435-790-2921
Well Name/Number NBU 1022-1P1BS
Qtr/Qtr SW/NE Section 1 Township 10S Range 22E
Lease Serial Number UTU-011336
API Number 43047523790000

Casing – Time casing run starts, not cementing times.

- Production Casing
 Other

Date/Time 1/27/2013 AM PM

BOPE

- Initial BOPE test at surface casing point
 Other

Date/Time _ _ AM PM

Rig Move

Location To: NBU1022-O1P PAD

Date/Time _ _ AM PM

Remarks NBU 1022-O1P PAD WELL 1 OF 5

RECEIVED

JAN 28 2013

DIV. OF OIL, GAS & MINING

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 1022-1P1BS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047523790000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6514
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1168 FSL 0485 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESE Section: 01 Township: 10.0S Range: 22.0E Meridian: S	9. FIELD and POOL or WILDCAT: NATURAL BUTTES COUNTY: UINTAH STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 2/6/2013	<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 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 checked="" type="checkbox"/> OTHER	OTHER: <input type="text" value="Multi-Phase Meter"/>

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

The operator is requesting the option to measure total gas produced from a pad, and to allocate gas production to the individual wells on the pad based upon multi-phase flow measurement at each well and periodic well tests. Please see the attached documents. Thank you. The wells on the NBU 1022-01P pad include: NBU 1022-1O4CS (4304752383), NBU 1022-1P1BS (4304752379), NBU 1022-1P1CS (4304739297), NBU 1022-1P4BS (4304752380), and NBU 1022-1P4CS (4304752385).

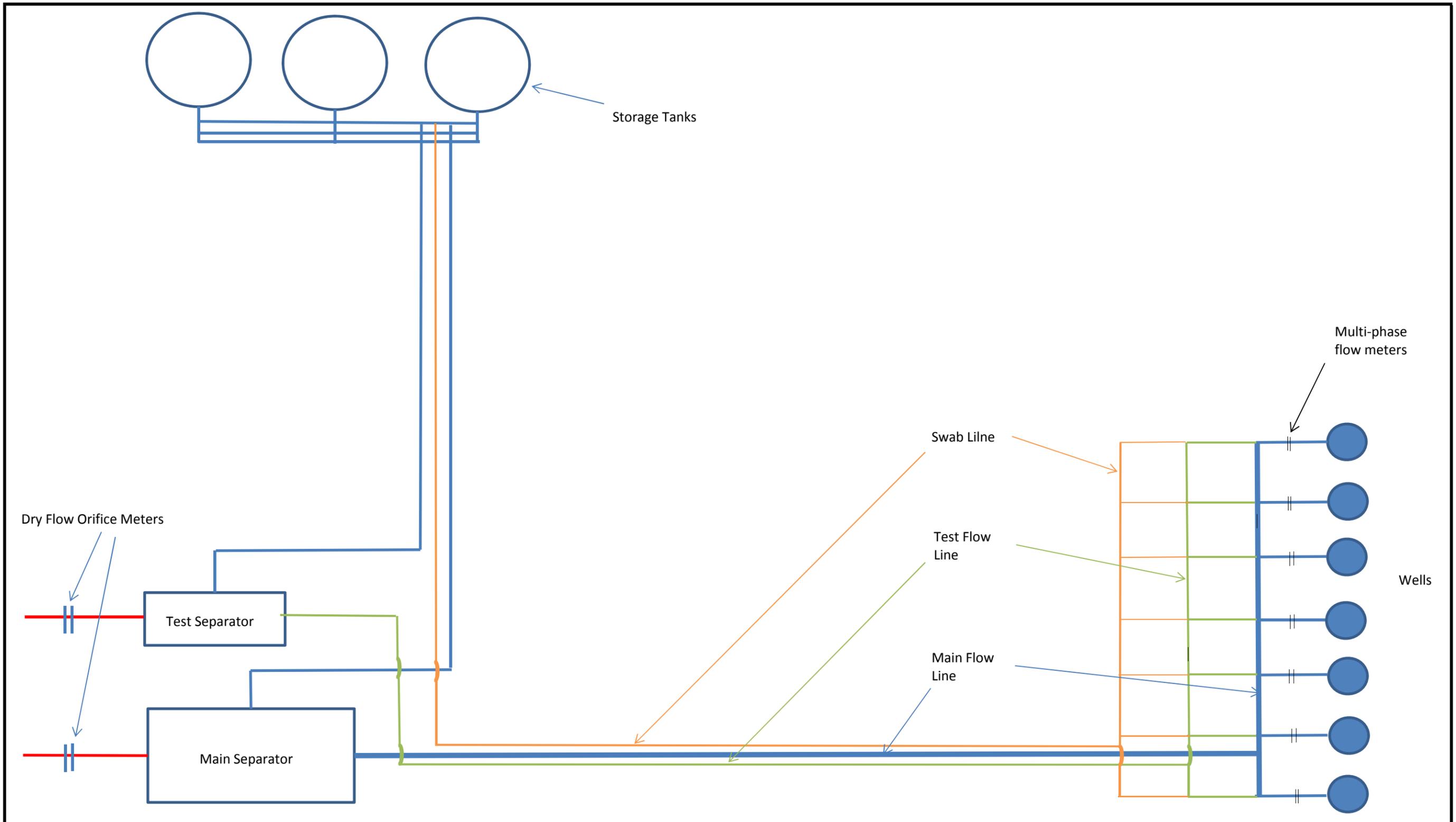
**Approved by the
 Utah Division of
 Oil, Gas and Mining**

Date: February 25, 2013

By: *Derek Quist*

NAME (PLEASE PRINT) Jaime Scharnowske	PHONE NUMBER 720 929-6304	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 2/6/2013	

The fluids from each well will be measured utilizing a multi-phase flow meter and then directed to a common separator for all wells on the pad. Liquids would be directed to tanks and the gas from all the wells measured through a calibrated orifice meter. The volume of gas measured through this meter, plus fuel gas consumed on location, will be the volume of gas that is produced from the pad. Gas volume for each individual well on the pad will be based on an allocation formula utilizing the total pad volume measured plus fuel gas consumed and the calculated volume from each well utilizing the multi-phase flow meters. The multi-phase flow meter volume calculation will be calibrated by periodic individual well tests.



Location Diagram with Multi-phase flow meters, main separator, test separator and associated storage tanks and flowlines.
28-Jun-12

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 1022-1P1BS	
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	
9. API NUMBER: 43047523790000	
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: 1168 FSL 0485 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESE 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: 3/4/2013	<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
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	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input 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 February 2013. Well TD at 8,500

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

NAME (PLEASE PRINT) Laura Abrams	PHONE NUMBER 720 929-6356	TITLE Regulatory Analyst II
SIGNATURE N/A	DATE 3/4/2013	

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
1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: NBU 1022-1P1BS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047523790000
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: 1168 FSL 0485 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESE Section: 01 Township: 10.0S Range: 22.0E Meridian: S	COUNTY: UINTAH STATE: UTAH

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<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 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
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	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width:100px;" type="text"/>

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

Started completing the well. Well TD at 8,500

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
 April 03, 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
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 1022-1P1BS
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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: 1168 FSL 0485 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESE Section: 01 Township: 10.0S Range: 22.0E Meridian: S	COUNTY: UINTAH STATE: UTAH

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<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: 4/2/2013	<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
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	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input 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 04/02/2013. 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
 April 05, 2013

NAME (PLEASE PRINT) Luke Urban	PHONE NUMBER 720 929-6501	TITLE Regulatory Specialist
SIGNATURE N/A	DATE 4/4/2013	

Form 3160-4
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

BHL - 473 FEL

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&GAS ONSHORE
Contact: TEENA PAULO
Email: teena.paulo@anadarko.com

8. Lease Name and Well No.
NBU 1022-1P1BS

3. Address PO BOX 173779
DENVER, CO 80217

3a. Phone No. (include area code)
Ph: 720-929-6236

9. API Well No.
43-047-52379

4. Location of Well (Report location clearly and in accordance with Federal requirements)*
 At surface SESE 1168FSL 485FEL 39.973864 N Lat, 109.380553 W Lon
 At top prod interval reported below SESE 1252FSL 502FEL
 At total depth SESE 1239FSL 497FEL

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
08/07/2012

15. Date T.D. Reached
01/27/2013

16. Date Completed
 D & A Ready to Prod.
04/02/2013

17. Elevations (DF, KB, RT, GL)*
5147 KB

18. Total Depth: MD 8500
TVD 8493

19. Plug Back T.D.: MD 8442
TVD 8438

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	36.7	0	40		28			
11.000	8.625	28.0	0	2323		875		0	
7.875	4.500	11.6	0	8489		1422		578	

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	7937							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) WASATCH	5517	6078	5517 TO 6078	0.360	50	OPEN
B) MESAVERDE	6518	8342	6518 TO 8342	0.360	188	OPEN
C)						
D)						

26. Perforation Record

Depth Interval	Amount and Type of Material
5517 TO 8342	PUMP 11,521 BBLs SLICK H2O & 260,357 LBS 30/50 OTTAWA SAND

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

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
04/02/2013	04/04/2013	24	▶	0.0	2240.0	0.0			FLOW FROM WELL
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
20/64	1451	2113.0	▶	0	2240	0		PGW	

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
			▶						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			▶						

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. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			▶						

(See Instructions and spaces for additional data on reverse side)
 ELECTRONIC SUBMISSION #205032 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 BIRD'S NEST MAHOGANY WASATCH MESAVERDE	1248 1570 1847 4162 6269

32. Additional remarks (include plugging procedure):

The first 210 ft of the surface hole was drilled with a 12 1/4 inch bit. The remainder of the surface hole was drilled with an 11 inch bit. DQX csg was run from surface to 5047 ft; LTC csg was run from 5047 ft. to 8489 ft. Attached is the chronological well history, perforation report and 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 #205032 Verified by the BLM Well Information System.
For KERR MCGEE OIL&GAS ONSHORE,LP, sent to the Vernal**

Name (please print) TEENA PAULO Title STAFF REGULATORY SPECIALIST

Signature _____ (Electronic Submission) Date 04/22/2013

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 ****

US ROCKIES REGION
Operation Summary Report

Well: NBU 1022-1P1BS RED Spud Date: 9/11/2012
 Project: UTAH-UINTAH Site: NBU 1022-01P PAD Rig Name No: PROPETRO 11/11, PIONEER 54/54
 Event: DRILLING Start Date: 8/21/2012 End Date: 1/27/2013
 Active Datum: RKB @5,147.00usft (above Mean Sea Level) UWI: SE/SE/0/10/S/22/E/1/0/0/26/PM/S/1168/E/0/485/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
9/10/2012	19:00 - 0:00	5.00	MIRU	01	A	P		14 MILE RIG MOVE, 1 RIG , 5 SEMI-TRUCK LOADS, 5 PRO PETRO HANDS
9/11/2012	0:00 - 6:00	6.00	MIRU	01	A	P		WAIT ON DAYLIGHT TO MOVE TRAILERS & BACKYARD
	6:00 - 11:00	5.00	MIRU	01	A	P		14 MILE RIG MOVE / 4 JD FIELD SERVICE SEMI-TRUCKS, 1 PICK UP AND TRUCK PUSHER/ 4 STALLION SEMI-TRUCK, 2 PICK UPS AND 7 HANDS / 1 KNOB CONSULTING PICK UP AND 1 HAND
	11:00 - 14:30	3.50	MIRU	01	B	P		NBU 1022-1P1BS (WELL 1 OF 5) INSTALL DIVERTOR HEAD AND BUOY LINE. RIG UP NOV. SPOT IN RIG. SPOT IN CATWALK AND PIPE RACKS. RIG UP PUMP. PRIME PUMP. INSPECT RIG. SAFETY MEETING
	14:30 - 15:00	0.50	DRLSUR	06	A	P		PICK UP #1 BHA
	15:00 - 16:00	1.00	DRLSUR	02	B	P		DRL F/44' - T/210' (166' @ 166' ROP) W.O.B. 5-15K RPM 45 POWERHEAD / 83 MUD MOTOR UP/DWN/ROT 22/20/20 2K DRAG PSI ON/OFF 600/400 M.W. 8.4# VIS 27 491 GPM PUMP RATE / NO AIR TORQUE ON/OFF 3000/900 NOV-ONLINE HOLE CONDITION GOOD
	16:00 - 17:30	1.50	DRLSUR	06	A	P		TOOH WITH #1 BHA / TIH WITH #2 BHA
	17:30 - 0:00	6.50	DRLSUR	02	B	P		DRL F/210' - T/1300 (1090' @ 167.7' ROP) W.O.B. = 18/20K RPM 45 POWERHEAD / 83 MUD MOTOR UP/DWN/ROT 64/80/55 PSI ON/OFF 1170/930 M.W. 8.4# VIS 27 491 GPM PUMP RATE / NO AIR TORQUE ON/OFF 3000/1600 NOV-ONLINE HOLE CONDITION GOOD 2.5' FROM CENTER IN NW DIRECTION SLID 8' / .63%
9/12/2012	0:00 - 4:00	4.00	DRLSUR	02	D	P		DRL F/1300' - T/1840' (540' @ 135' ROP) W.O.B. = 18/20K RPM 45 POWERHEAD / 83 MUD MOTOR UP/DWN/ROT 65/60/65 PSI ON/OFF 1250/1000 M.W. 8.5# VIS 27 491 GPM PUMP RATE / 2420 CFM AIR RATE TORQUE ON/OFF 3000/700 NOV-ONLINE 2' FROM CENTER OF LINE SLID .23%
	4:00 - 7:30	3.50	DRLSUR	02	D	P		DRL F/1840' - T/2290' (450' @ 128.6 ROP)
	7:30 - 8:30	1.00	DRLSUR	05	C	Z		WAITING ON CASING FOR TD TOTAL
	8:30 - 9:00	0.50	DRLSUR	02	D	P		DRL F/2290' - T/2339' (49' @ 135' ROP) W.O.B. = 18/20K RPM 45 POWERHEAD / 83 MUD MOTOR UP/DWN/ROT= 75/59/66 ~ 10K DRAG PSI ON/OFF= 1400/1150 M.W. 8.5# VIS 27 491 GPM PUMP RATE / 2420 CFM AIR RATE TORQUE ON/OFF = 3000/1600 NOV-ONLINE 1.5' LEFT OF TARGET LINE SLIDE 118' / 5.13%
	9:00 - 11:00	2.00	DRLSUR	05	A	P		CIRCULATE & CONDITION HOLE FOR 8-5/8" SURFACE CSG
	11:00 - 13:00	2.00	DRLSUR	06	A	P		LAY DOWN DRILL STRING & DIR. TOOLS

US ROCKIES REGION								
Operation Summary Report								
Well: NBU 1022-1P1BS RED				Spud Date: 9/11/2012				
Project: UTAH-UINTAH			Site: NBU 1022-01P PAD			Rig Name No: PROPETRO 11/11, PIONEER 54/54		
Event: DRILLING			Start Date: 8/21/2012			End Date: 1/27/2013		
Active Datum: RKB @5,147.00usft (above Mean Sea Level)				UWI: SE/SE/0/10/S/22/E/1/0/0/26/PM/S/1168/E/0/485/0/0				
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	13:00 - 14:00	1.00	CSGSUR	12	A	P		MOVE PIPE RACKS AND CATWALK. PULL DIVERTER HEAD. RIG UP TO RUN CSG. MOVE CSG INTO POSITION TO P/U.
	14:00 - 16:00	2.00	CSGSUR	12	C	P		RUN 52 JT'S, 8-5/8", 28#, J-55, LT&C CSG /// SHOE SET @ 2308' & BAFFLE @ 2262'
	16:00 - 16:30	0.50	CSGSUR	12	B	P		PJSM /// CIRCULATE CSG /// RUN 200' OF 1" DOWN BACK SIDE /// RIG DOWN CARRIER & MOVE RIG OFF WELL /// INSTALL CEMENT HEAD IN CSG
	16:30 - 18:30	2.00	CSGSUR	12	E	P		RIG UP PRO PETRO PUMP TRUCK /// TEST LINES TO 1500 PSI /// PUMP 130 BBL'S WATER AHEAD FOLLOWED BY 20 BBL GEL WATER SPACER /// TAIL = 300 sx CLASS G CMT + 2% CACL2 + 1/4#/ sx FLOCELE @ 15.8 WT & 1.15 YIELD /// DROP PLUG & DISPLACE W/ 141 BBL'S WATER /// PLUG DN @ 17:41 09/12/2012 /// BUMP PLUG W/ 400 PSI /// FINAL LIFT = 100 PSI /// CHECK FLOAT- HELD W/ .5 BBL'S BACK /// NO CIRCULATION & NO CMT TO SURFACE /// PUMP 175 sx CLASS G CMT @ 15.8 WT & 1.15 YIELD + 4% CACL2 + 1/4# FLOCELE DN 1" /// NO CMT TO SURFACE /// RELEASE RIG @ 18:30 09/12/2012 TO NBU 1022-1P4BS /// PUMP 3 MORE TOP OUTS FOR TOTAL OF 400 sx CLASS G CMT @ 15.8 WT & 1.15 YIELD /// CMT TO SURFACE
1/21/2013	18:00 - 0:00	6.00	RDMO	01	E	P		RIG DOWN AND PREP FOR MOVE,INSTALL NEW DRILL LINE SPOOL,WINTERIZE RIG,,MOVE PIPE TUBS AND TOPDRIVE HOUSE,FRONT YARD
1/22/2013	0:00 - 7:00	7.00	RDMO	01	E	P		RIG DOWN PREP FOR TRUCKS
	7:00 - 18:30	11.50	MIRU3	01	A	P		MOVE 1 MILE W/ WESTROC TRUCKING,8 TRUCKS,2 FORKLIFTS,2- PUSHERS,2-SWAMPERS,SET DERRICK ON STAND @ 18:00,100% MOVED,,WITH 3 TO 4 HOURS CRAIN WORK LEFT
	18:30 - 0:00	5.50	MIRU3	01	B	P		RELEASE TRUCKS @ 18:30 PM 1/22/2013
1/23/2013	0:00 - 17:00	17.00	MIRU3	01	B	P		RIG UP BACK YARD,PITS AND PUMPS
	17:00 - 20:00	3.00	PRSPD	14	A	P		RIG UP ROTARY TOOLS,RAISE DERRICK AT 9AM BRIDLE DOWN,RIG UP TOPDRIVE & TORQUE TUBE,SERVICE LOOP, FLOOR,FLOW AND FLARE LINES,PUMP INSPECTION
	20:00 - 0:00	4.00	PRSPD	15	A	P		NIPPLE UP BOP,FUNCTION TEST
								HELD SAFETY MEETING, R/U & TEST BOPE, TEST PIPE RAMS, BLIND RAMS, INNER-OUTER BOP VALVES, CHOKE VALVES, FLOOR VALVES TO 250 LOW, 5000 HIGH, ANN 2500, SURFACE CASING 1500 FOR 30 MIN'S
1/24/2013	0:00 - 0:30	0.50	PRSPD	15	A	P		FINISH BOP TEST,METHANOL LINES
	0:30 - 1:00	0.50	PRSPD	14	B	P		INSTALL WEARBUSHING
	1:00 - 2:00	1.00	PRSPD	06	J	P		STRAPE BHA,HWDP AND PIPE
	2:00 - 8:00	6.00	PRSPD	06	A	P		SAFETY MEET W/KIMZEY,RIG UP MACHINE,PICK UP AND SCRIBE BHA#1,TRIP IN HOLE,INSTALL ROTATING RUBBER, TAG CEMENT AT 2210
	8:00 - 9:00	1.00	PRSPD	09	A	P		CUT AND SLIP AFTER TOPDRIVE PICKUP
	9:00 - 11:30	2.50	DRLPRC	02	F	P		DRILL CEMENT AND SHOE TRACK 2210 TO 2354'

US ROCKIES REGION									
Operation Summary Report									
Well: NBU 1022-1P1BS RED					Spud Date: 9/11/2012				
Project: UTAH-UINTAH			Site: NBU 1022-01P PAD			Rig Name No: PROPETRO 11/11, PIONEER 54/54			
Event: DRILLING			Start Date: 8/21/2012		End Date: 1/27/2013				
Active Datum: RKB @5,147.00usft (above Mean Sea Level)				UWI: SE/SE/0/10/S/22/E/1/0/0/26/PM/S/1168/E/0/485/0/0					
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation	
	11:30 - 13:30	2.00	DRLPRC	02	B	P		CLOSED LOOP SYSTEM,SPUD 7.875 HOLE DRILL F/2354 TO 2627=273 AVG 136 WOB / 18-20 RPM TOP DRIVE 55-60 (2 PUMPS) - SPM 200 GPM 586 MW 8.7 PPG VIS 31 TRQ ON/OFF =6/4K PSI ON /OFF 1700/1400, DIFF 200-500 PU/SO/RT =88/68/78 K SLIDE =27' 15%TIME ROT=100' 85%TIME NOV / 2- DEWATER 1' LEFT 4' HIGH OF LINE 0 DRILL FLARE, 0 CONN FLARE PUMPING CAL CARB AND LCM SWEEPS EVERY 300' PRECAUTIONARY BOP DRILL DAYLIGHT CREW	
	13:30 - 14:00	0.50	DRLPRC	07	C	S		RIG SERVICE CHANGE SWVAL PACKING	
	14:00 - 0:00	10.00	DRLPRC					CLOSED LOOP SYSTEM DRILL F/2627 TO 4080=1453 AVG 145 WOB / 18-20 RPM TOP DRIVE 55-60 (2 PUMPS) - SPM 200 GPM 586 MW 8.7 PPG VIS 31 TRQ ON/OFF =6/4K PSI ON /OFF 1700/1400, DIFF 200-500 PU/SO/RT =95/80/88 K SLIDE =27 TOTAL SLIDE %6 ROT=1426 TOTAL ROT 94% NOV / 2- DEWATER 31' NORTH 22' WEST OF CENTER 0 DRILL FLARE, 0 CONN FLARE PUMPING CAL CARB AND LCM SWEEPS EVERY 300' PRECAUTIONARY BOP DRILL NIGHT CREW	
1/25/2013	0:00 - 8:00	8.00	DRLPRV	02	B	P		CLOSED LOOP SYSTEM DRILL F/4080 TO 5020=940 AVG 117 WOB / 18-20 RPM TOP DRIVE 55-60 (2 PUMPS) - SPM 200 GPM 586 MW 8.7 PPG VIS 31 TRQ ON/OFF =6/5K PSI ON /OFF 2000/1600, DIFF 200-500 PU/RT/SO =130/120/115 K SLIDE =30 TOTAL SLIDE 10% ROT= 910 TOTAL ROT 90% NOV / 2- DEWATER 28 NORTH 18 WEST OF CENTER 0 DRILL FLARE, 0 CONN FLARE PUMPING CAL CARB AND LCM SWEEPS EVERY 300' PRECAUTIONARY RUN 1 PUMP FOR 2.5 HRS@355GPM	

US ROCKIES REGION								
Operation Summary Report								
Well: NBU 1022-1P1BS RED				Spud Date: 9/11/2012				
Project: UTAH-UINTAH			Site: NBU 1022-01P PAD			Rig Name No: PROPETRO 11/11, PIONEER 54/54		
Event: DRILLING			Start Date: 8/21/2012		End Date: 1/27/2013			
Active Datum: RKB @5,147.00usft (above Mean Sea Level)				UWI: SE/SE/0/10/S/22/E/11/0/0/26/PM/S/1168/E/0/485/0/0				
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	8:00 - 17:00	9.00	DRLPRV	02	B	P		CLOSED LOOP SYSTEM DRILL F/5020 TO 6040=1020 AVG 113 WOB / 18-20 RPM TOP DRIVE 55-60 (2 PUMPS) - SPM 200 GPM 586 MW8.7 PPG VIS 31 TRQ ON/OFF =6/5K PSI ON /OFF 2000/1600, DIFF 200-500 PU/RT/SO =130/120/115 K SLIDE =30 TOTAL SLIDE % ROT=990 TOTAL ROT % NOV / 2- DEWATER 4 NORTH 6 WEST OF CENTER 0 DRILL FLARE, 0 CONN FLARE PUMPING CAL CARB AND LCM SWEEPS EVERY 300' PRECAUTIONARY
	17:00 - 17:30	0.50	DRLPRV	07	A	P		RIG SERVICE
	17:30 - 0:00	6.50	DRLPRV	02	B	P		CLOSED LOOP SYSTEM DRILL F/6040 TO 6700=660 AVG 101 WOB / 18-20 RPM TOP DRIVE 55-60 (2 PUMPS) - SPM 200 GPM 586 MW 8.6 PPG VIS 30 TRQ ON/OFF =6/5K PSI ON /OFF 2000/1600, DIFF 200-500 PU/RT/SO =155/140/135 K SLIDE =25' 6% ROT=635 93% NOV / 2- DEWATER 14 NORTH 5 WEST OF CENTER 0 DRILL FLARE, 0 CONN FLARE PUMPING CAL CARB AND LCM SWEEPS EVERY 300' PRECAUTIONARY
1/26/2013	0:00 - 8:00	8.00	DRLPRV	02	B	P		CLOSED LOOP SYSTEM DRILL F/6700 TO 7490 =790 AVG 98 WOB / 18-20 RPM TOP DRIVE 55-60 (2 PUMPS) - SPM 200 GPM 586 MW 8.5 PPG VIS 30 TRQ ON/OFF =6/5K PSI ON /OFF 2200/1800, DIFF 200-500 PU/RT/SO =175/160/152 K SLIDE = 30' ROT=760' NOV / 2- DEWATER 6 NORTH 2 WEST OF CENTER 0 DRILL FLARE, 0 CONN FLARE

US ROCKIES REGION								
Operation Summary Report								
Well: NBU 1022-1P1BS RED						Spud Date: 9/11/2012		
Project: UTAH-UINTAH			Site: NBU 1022-01P PAD			Rig Name No: PROPETRO 11/11, PIONEER 54/54		
Event: DRILLING			Start Date: 8/21/2012		End Date: 1/27/2013			
Active Datum: RKB @5,147.00usft (above Mean Sea Level)				UWI: SE/SE/0/10/S/22/E/1/0/0/26/PM/S/1168/E/0/485/0/0				
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	8:00 - 11:00	3.00	DRLPRV	02	B	P		CLOSED LOOP SYSTEM DRILL F7490 TO 7842 =362 AVG 120 WOB / 18-20 RPM TOP DRIVE 55-60 (2 PUMPS) - SPM 200 GPM 586 MW 8.5 PPG VIS 30 TRQ ON/OFF =6/5K PSI ON /OFF 2200/1800, DIFF 200-500 PU/RT/SO 180/158/148 K SLIDE =0 ROT=362 NOV / 2- DEWATER 14NORTH 1 EAST OF CENTER 0 DRILL FLARE,15 CONN FLARE
	11:00 - 11:30	0.50	DRLPRV	05	G	P		DISPLACE HOLE WITH 11.8 MUD 38 VIS
	11:30 - 14:30	3.00	DRLPRV	02	B	P		CLOSED LOOP SYSTEM DRILL F7842 TO 8030 =188 AVG 62 WOB / 18-20 RPM TOP DRIVE 55-60 (2 PUMPS) - SPM 170 GPM 498 MW 11.4/38 PPG TRQ ON/OFF =6/5K PSI ON /OFF 2500/2200, DIFF 200-500 PU/RT/SO 180/158/148 K SLIDE =0 ROT=362 NOV / 2- BYPASSED 11 NORTH 5 EAST OF CENTER 0 DRILL FLARE,0 CONN FLARE LOST 65 BBLs AND PARTIAL RETURNS @ 8012' PUMP 10% LCM SWEEPS
	14:30 - 15:00	0.50	DRLPRV	07	A	P		RIG SERVICE
	15:00 - 0:00	9.00	DRLPRV	02	B	P		CLOSED LOOP SYSTEM DRILL F/8030 TO 8477 =447 AVG 49 WOB / 18-22 RPM TOP DRIVE 55-60 (2 PUMPS) - SPM 170 GPM 498 MW 11.9/38 PPG TRQ ON/OFF =7/5K PSI ON /OFF 2500/2200, DIFF 200-500 PU/RT/SO 190/170/160 K SLIDE =0 ROT=477 NOV / 2- BYPASSED 8 NORTH 15 EAST OF CENTER 0 DRILL FLARE,0 CONN FLARE LOST 65 BBLs PARTIAL RETURNS @ 8012' PUMP 10% LCM SWEEPS

US ROCKIES REGION									
Operation Summary Report									
Well: NBU 1022-1P1BS RED					Spud Date: 9/11/2012				
Project: UTAH-UINTAH			Site: NBU 1022-01P PAD			Rig Name No: PROPETRO 11/11, PIONEER 54/54			
Event: DRILLING			Start Date: 8/21/2012		End Date: 1/27/2013				
Active Datum: RKB @5,147.00usft (above Mean Sea Level)				UWI: SE/SE/0/10/S/22/E/1/0/0/26/PM/S/1168/E/0/485/0/0					
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation	
1/27/2013	0:00 - 0:30	0.50	DRLPRV	02	B	P		CLOSED LOOP SYSTEM DRILL F/8477 TO 8500 =23 AVG 46 WOB / 18-22 RPM TOP DRIVE 55-60 (2 PUMPS) - SPM 170 GPM 498 MW 11.9/44 PPG TRQ ON/OFF =7/5K PSI ON /OFF 2500/2200, DIFF 200-500 PU/RT/SO 190/170/160 K SLIDE =0 ROT=23' NOV / 2- BYPASSED 8 NORTH 15 EAST OF CENTER 0 DRILL FLARE,0 CONN FLARE	
	0:30 - 1:30	1.00	DRLPRV	05	C	P		FLOW CHECK OK,FINAL SURVEY,CIRCULATE BOTTOMS UP W/12#/44 VIS NO FLARE	
	1:30 - 6:00	4.50	DRLPRV	06	E	P		WPERTRIP TO SHOE,CHECK CIRCULATION AT SHOE & TRIP BACK IN -NO PROBLEMS	
	6:00 - 7:00	1.00	DRLPRV	05	C	P		CIRCULATE AND CONDITION FOR CASING RUN AFTER TRIP,10' FLARE FOR 5 MIN	
	7:00 - 10:30	3.50	DRLPRV	06	A	P		TRIP OUT FOR CASING,STAND BACK DIRECTIONAL TOOLS,LAYDOWN BIT & MUD MTR, PULL WEARING	
	10:30 - 11:00	0.50	CSGPRO	14	B	P			
	11:00 - 17:00	6.00	CSGPRO	12	C	P		HELD SAFETY MEETING WITH RIG & CASING CREWS, RIG UP & RUN 197 JTS 4.5" I-80 11.6 PPF CASING, SHOE @ 8488', FLOAT @8442, MESA MARKER @6272, X/O @5028', LAND WITH 90 K CIRCULATE BOTTOMS UP FOR CEMENT	
	17:00 - 18:00	1.00	CSGPRO	05	D	P			
	18:00 - 22:00	4.00	CSGPRO	12	E	P		HELD SAFETY MEETING, R/U, DROP BOTTOM PLUG, PSI TEST LINES TO 4500, PUMP 25 BBLS SPACER, LEAD 457 SACKS 1.98 YLD 12.5 PPG PLII+6%Gel+.4%R-3+.2%SM+.25#/SK CF+5#/SK Kol-Seal+.4%FL-52,5#blsfTAIL 965 SACKS 1.32 YLD 14.3 PPG,50/50 poz+2%gell+0.55% R-3+10%salt+5#blsf+.75%SMS SHUT DOWN CLEAN LINES, DROP TOP PLUG & DISPLACE WITH 131 BBLS CLAYCARE WATER, BUMP PLUG WITH 500PSI OVER FINAL LIFT OF 2400 , FLOATS HELD, FULL RETURNS, THOUGHOUT JOB WITH 20 BBLS SPACER TO CATCH TANK, 1.5 BACK TO TRUCK, SHOE @ 8488', FLOAT @ 8442, EST TOP OF LEAD 100,TAIL 3650	
	22:00 - 23:00	1.00	RDMO	14	B	P		FLUSH STACK,SET PACK OFF WITH CAMERON	
	23:00 - 0:00	1.00	RDMO	14	A	P		SAVE MUD TO STORAGE,NIPPLE DOWN,PREP FOR SKID,RELEASE RIG 1/27/2013 23:59	

US ROCKIES REGION

1 General

1.1 Customer Information

Company	US ROCKIES REGION
Representative	
Address	

1.2 Well/Wellbore Information

Well	NBU 1022-1P1BS RED	Wellbore No.	OH
Well Name	NBU 1022-1P1BS	Wellbore Name	NBU 1022-1P1BS
Report No.	1	Report Date	3/25/2013
Project	UTAH-UJINTAH	Site	NBU 1022-01P PAD
Rig Name/No.		Event	COMPLETION
Start Date	3/19/2013	End Date	4/2/2013
Spud Date	9/11/2012	Active Datum	RKB @5,147.00usf (above Mean Sea Level)
UWI	SE/SE/O/10/S/22/E/10/0/26/FM/S/1168/E/O/485/O/O		

1.3 General

Contractor		Job Method		Supervisor	
Perforated Assembly		Conveyed Method			

1.4 Initial Conditions

Fluid Type	Fluid Density	Gross Interval	5,517.0 (usf)	-6,342.0 (usf)	Start Date/Time	3/25/2013 12:00AM
Surface Press	Estimate Res Press	No. of Intervals	66	End Date/Time	3/25/2013 12:00AM	
TVD Fluid Top	Fluid Head	Total Shots	238	Net Perforation Interval		73.00 (usf)
Hydrostatic Press	Press Difference	Avg Shot Density	3.26 (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)	3.00	Phasing (°)	120.00
MD Top (usf)	5,517.0	Charge Desc /Charge Manufacturer	
MD Base (usf)	5,519.0	Charge Weight (gram)	23.00
CCL-T S (usf)		Reason	PRODUCTIO
CCL@ (usf)			N

2 Intervals

2.1 Perforated Interval

Date	Formation/Reservoir	CCL@ (usf)	CCL-T S (usf)	MD Top (usf)	MD Base (usf)	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	Mistun
3/25/2013 12:00AM	WASATCH/			5,517.0	5,519.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO	

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
3/25/2013 12:00AM	WASATCH/			5,595.0	5,597.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/25/2013 12:00AM	WASATCH/			5,608.0	5,610.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/25/2013 12:00AM	WASATCH/			5,704.0	5,705.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
3/25/2013 12:00AM	WASATCH/			5,808.0	5,809.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
3/25/2013 12:00AM	WASATCH/			5,819.0	5,820.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
3/25/2013 12:00AM	WASATCH/			5,834.0	5,835.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
3/25/2013 12:00AM	WASATCH/			5,894.0	5,895.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
3/25/2013 12:00AM	WASATCH/			5,990.0	5,991.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
3/25/2013 12:00AM	WASATCH/			6,034.0	6,035.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
3/25/2013 12:00AM	WASATCH/			6,077.0	6,078.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
3/25/2013 12:00AM	MESAVERDE/			6,518.0	6,519.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/25/2013 12:00AM	MESAVERDE/			6,582.0	6,583.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/25/2013 12:00AM	MESAVERDE/			6,638.0	6,639.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/25/2013 12:00AM	MESAVERDE/			6,659.0	6,660.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/25/2013 12:00AM	MESAVERDE/			6,685.0	6,686.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/25/2013 12:00AM	MESAVERDE/			6,722.0	6,723.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/25/2013 12:00AM	MESAVERDE/			6,745.0	6,746.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/25/2013 12:00AM	MESAVERDE/			6,766.0	6,767.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/25/2013 12:00AM	MESAVERDE/			6,906.0	6,907.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/25/2013 12:00AM	MESAVERDE/			6,928.0	6,929.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/25/2013 12:00AM	MESAVERDE/			7,020.0	7,021.0	3.00		0.360	EXP/	3.375	120.00		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	Mistun
3/25/2013 12:00AM	MESAVERDE/			7,069.0	7,070.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/25/2013 12:00AM	MESAVERDE/			7,089.0	7,090.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/25/2013 12:00AM	MESAVERDE/			7,107.0	7,108.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/25/2013 12:00AM	MESAVERDE/			7,118.0	7,119.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/25/2013 12:00AM	MESAVERDE/			7,136.0	7,137.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/25/2013 12:00AM	MESAVERDE/			7,298.0	7,299.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
3/25/2013 12:00AM	MESAVERDE/			7,346.0	7,347.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
3/25/2013 12:00AM	MESAVERDE/			7,362.0	7,363.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
3/25/2013 12:00AM	MESAVERDE/			7,373.0	7,374.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
3/25/2013 12:00AM	MESAVERDE/			7,388.0	7,389.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
3/25/2013 12:00AM	MESAVERDE/			7,408.0	7,409.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
3/25/2013 12:00AM	MESAVERDE/			7,442.0	7,443.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/25/2013 12:00AM	MESAVERDE/			7,459.0	7,460.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/25/2013 12:00AM	MESAVERDE/			7,477.0	7,478.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/25/2013 12:00AM	MESAVERDE/			7,496.0	7,497.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/25/2013 12:00AM	MESAVERDE/			7,510.0	7,511.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/25/2013 12:00AM	MESAVERDE/			7,521.0	7,522.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/25/2013 12:00AM	MESAVERDE/			7,554.0	7,555.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/25/2013 12:00AM	MESAVERDE/			7,569.0	7,570.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/25/2013 12:00AM	MESAVERDE/			7,617.0	7,618.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/25/2013 12:00AM	MESAVERDE/			7,630.0	7,631.0	3.00		0.360	EXP/	3.375	120.00		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	Mistun
3/25/2013 12:00AM	MESAVERDE/			7,657.0	7,658.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/25/2013 12:00AM	MESAVERDE/			7,670.0	7,671.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/25/2013 12:00AM	MESAVERDE/			7,688.0	7,689.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/25/2013 12:00AM	MESAVERDE/			7,734.0	7,735.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/25/2013 12:00AM	MESAVERDE/			7,750.0	7,751.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/25/2013 12:00AM	MESAVERDE/			7,761.0	7,762.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/25/2013 12:00AM	MESAVERDE/			7,832.0	7,833.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
3/25/2013 12:00AM	MESAVERDE/			7,864.0	7,865.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
3/25/2013 12:00AM	MESAVERDE/			7,897.0	7,898.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
3/25/2013 12:00AM	MESAVERDE/			7,925.0	7,926.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
3/25/2013 12:00AM	MESAVERDE/			7,943.0	7,944.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
3/25/2013 12:00AM	MESAVERDE/			7,965.0	7,966.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/25/2013 12:00AM	MESAVERDE/			7,977.0	7,978.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/25/2013 12:00AM	MESAVERDE/			7,984.0	7,985.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/25/2013 12:00AM	MESAVERDE/			7,994.0	7,995.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/25/2013 12:00AM	MESAVERDE/			8,020.0	8,021.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/25/2013 12:00AM	MESAVERDE/			8,030.0	8,031.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/25/2013 12:00AM	MESAVERDE/			8,070.0	8,071.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/25/2013 12:00AM	MESAVERDE/			8,082.0	8,083.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/25/2013 12:00AM	MESAVERDE/			8,120.0	8,122.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/25/2013 12:00AM	MESAVERDE/			8,254.0	8,256.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	

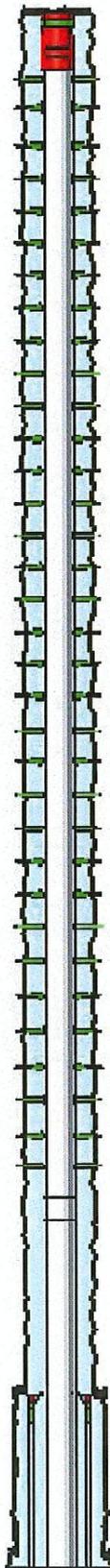
US ROCKIES REGION

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	Mistun
3/25/2013 12:00AM	MESAVERDE/			8,330.0	8,332.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
3/25/2013 12:00AM	MESAVERDE/			8,340.0	8,342.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	

3 Plots

3.1 Wellbore Schematic



US ROCKIES REGION									
Operation Summary Report									
Well: NBU 1022-1P1BS RED					Spud Date: 9/11/2012				
Project: UTAH-UINTAH			Site: NBU 1022-01P PAD			Rig Name No: SWABBCO 8/8			
Event: COMPLETION			Start Date: 3/19/2013			End Date: 4/2/2013			
Active Datum: RKB @5,147.00usft (above Mean Sea Level)				UWI: SE/SE/0/10/S/22/E/1/0/0/26/PM/S/1168/E/0/485/0/0					
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation	
2/26/2013	-								
3/19/2013	7:00 - 8:00	1.00	SUBSPR	33	C	P		FILL SURFACE CSG. MIRU CAMERON QUICK TEST. PRESSURE TEST CSG & FRAC VALVES 1ST PSI TEST T/ 7000 PSI. HELD FOR 15 MIN LOST 48 PSI. NO COMMUNICATION OR MIGRATION WITH SURFACE CSG BLEED OFF PSI. PRESSURE TEST 8 5/8 X 4 1/2 TO 517 PSI HELD FOR 5 MIN LOST -38 PSI,BLED PSI OFF, REINSTALLED POP OFF SWMFW	
3/22/2013	8:00 - 13:00	5.00	SUBSPR	37	B	P		HSM, CLOSING VALVES WHILE RUNNING IN HOLE, PERF STG 1)PU 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH PERF AS PER PERF DESIGN. POOH. SWMFW	
3/25/2013	7:00 - 8:30	1.50	FRAC	48		P		HSM, OVER HEAD LOADS, PRESSURE TEST SURFACE LINES TO=8,500# W/ 700# LOSS IN 15 MIN	
	8:30 - 20:00	11.50	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=1,406#, BRK DN PERFS=3,791#, @=5.1 BPM, INTIAL ISIP=2,580#, FG=.75, FINAL ISIP=2,500#, FG=.74, SET PLUG & PERFORATE STG #2 FRAC STG #2] WHP=2,224#, BRK DN PERFS=3,657#, @=4 BPM, INTIAL ISIP=2,414#, FG=.74, FINAL ISIP=2,546#, FG=.76, SET PLUG & PERFORATE STG #3 FRAC STG #3] WHP=2,245#, BRK DN PERFS=4,303#, @=4 BPM, INTIAL ISIP=2,625#, FG=.77, FINAL ISIP=2,694#, FG=.78, SET PLUG & PERFORATE STG #4 HSM, OPENING & CLOSING VALVES	
3/26/2013	7:00 - 7:15	0.25	FRAC	48		P		SET PLUG & PERFORATE STG #4 HSM, OPENING & CLOSING VALVES	

US ROCKIES REGION
Operation Summary Report

Well: NBU 1022-1P1BS RED		Spud Date: 9/11/2012	
Project: UTAH-UINTAH		Site: NBU 1022-01P PAD	Rig Name No: SWABBCCO 8/8
Event: COMPLETION		Start Date: 3/19/2013	End Date: 4/2/2013
Active Datum: RKB @5,147.00usft (above Mean Sea Level)		UWI: SE/SE/0/10/S/22/E/1/0/0/26/PM/S/1168/E/0/485/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	7:15 - 17:30	10.25	FRAC	36	B	P		FRAC STG #4] WHP=1,577#, BRK DN PERFS=3,163#, @=4.8 BPM, INTIAL ISIP=1,997#, FG=.70, FINAL ISIP=2,447#, FG=.76, SET PLUG & PERFORATE STG #5 FRAC STG #5] WHP=1,256#, BRK DN PERFS=2,426#, @=4.9 BPM, INTIAL ISIP=1,584#, FG=.65, FINAL ISIP=1,957#, FG=.70, SET PLUG PERFORATE STG #6 FRAC STG #6] WHP=1,333#, BRK DN PERFS=1,742#, @=6.6 BPM, INTIAL ISIP=1,377#, FG=.63, FINAL ISIP=2,003#, FG=.71, SET PLUG AND PERFORATE STG #7 SWFN
3/27/2013	6:30 - 6:45	0.25	FRAC	48		P		HSM, PROPER PPE
	6:45 - 18:00	11.25	FRAC	36	B	P		FRAC STG #7] WHP=1,71#, BRK DN PERFS=3,688#, @=4.9 BPM, INTIAL ISIP=1,826#, FG=.70, FINAL ISIP=2,447#, FG=.79, SET PLUUG AND PERFORATE STG #8 FRAC STG #8] WHP=456#, BRK DN PERFS=2,873#, @=4.7 BPM, INTIAL ISIP=1,236#, FG=.62, FINAL ISIP=2,290#, FG=.78, SET PLUG AND PERFORATE STG #9 FRAC STG #9] WHP=190#, BRK DN PERFS=2,003#, @=5.1 BPM, INTIAL ISIP=1,577#, FG=.70, FINAL ISIP=1,902#, FG=.76, SET PLUG AND PERFORATE STG #10 FRAC STG #10] WHP=1,358#, BRK DN PERFS=1,865#, @=4.5 BPM, INTIAL ISIP=1,365#, FG=.68, FINAL ISIP=1,672#, FG=.73 SET PLUG AND PERFORATE STG #11 FRAC STG #11] WHP=1,183#, BRK DN PERFS=2,004#, @=4.7 BPM, INTIAL ISIP=1,334#, FG=.68, FINAL ISIP=1,589#, FG=.72, TOTAL BBLs=11,521 TOTAL SAND=260,357#
4/1/2013	13:30 - 16:00	2.50	DRLOUT	30	A	P		MIRU, ND WH, NU BOP'S, RU FLOOR & TBG EQUIP
	16:00 - 17:00	1.00	DRLOUT	31	I	P		REMOVE THREAD PROTECTORS & TALLY TBG, STATR TIH, SDFN
4/2/2013	7:00 - 7:15	0.25	DRLOUT	48		P		HSM, JSA

US ROCKIES REGION									
Operation Summary Report									
Well: NBU 1022-1P1BS RED					Spud Date: 9/11/2012				
Project: UTAH-UINTAH			Site: NBU 1022-01P PAD			Rig Name No: SWABBCO 8/8			
Event: COMPLETION			Start Date: 3/19/2013		End Date: 4/2/2013				
Active Datum: RKB @5,147.00usft (above Mean Sea Level)				UWI: SE/SE/0/10/S/22/E/1/0/0/26/PM/S/1168/E/0/465/0/0					
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation	
	7:15 - 11:15	4.00	DRLOUT	31	I	P		P/U TBG, REMOVE THREAD PROTECTORS, TALLY & DRIFT TBG TO KILL PLUG, MIRU PWR SWL, BREAK CIRC, PRESS TEST BOP TO 3,000 PSI FOR 15 MIN, LOST 0 PSI	

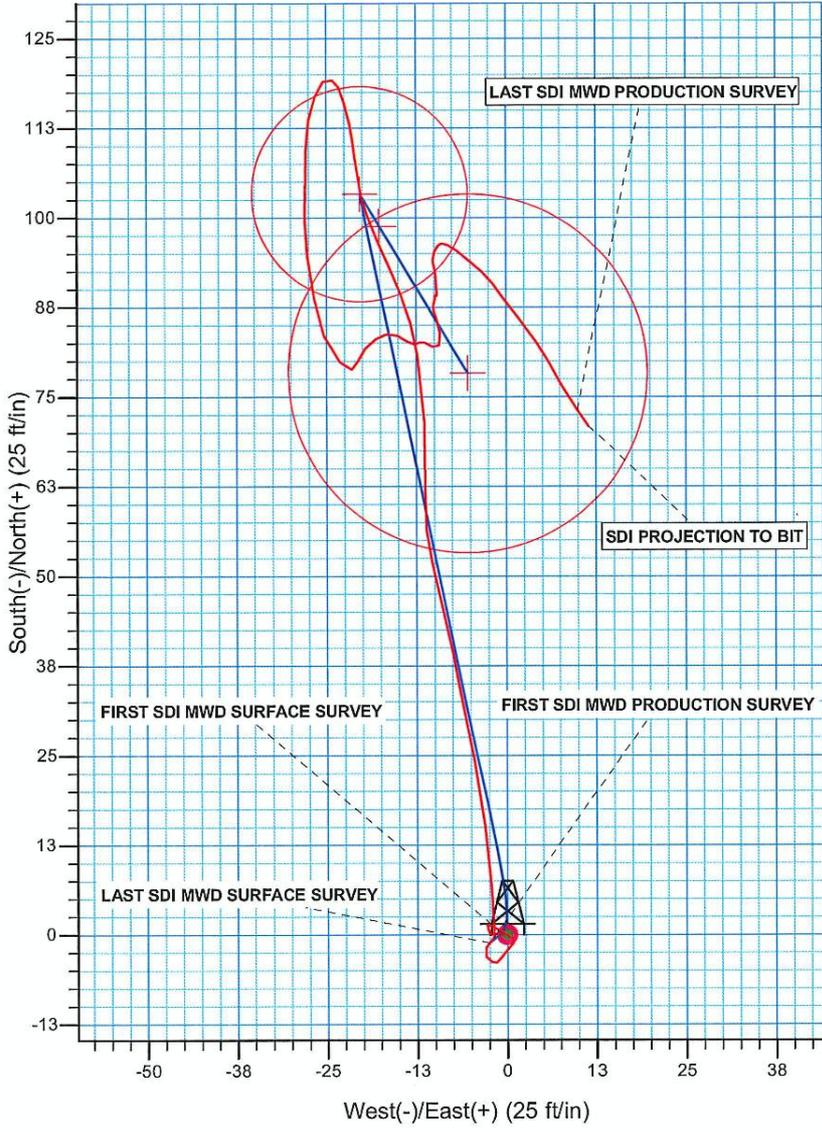
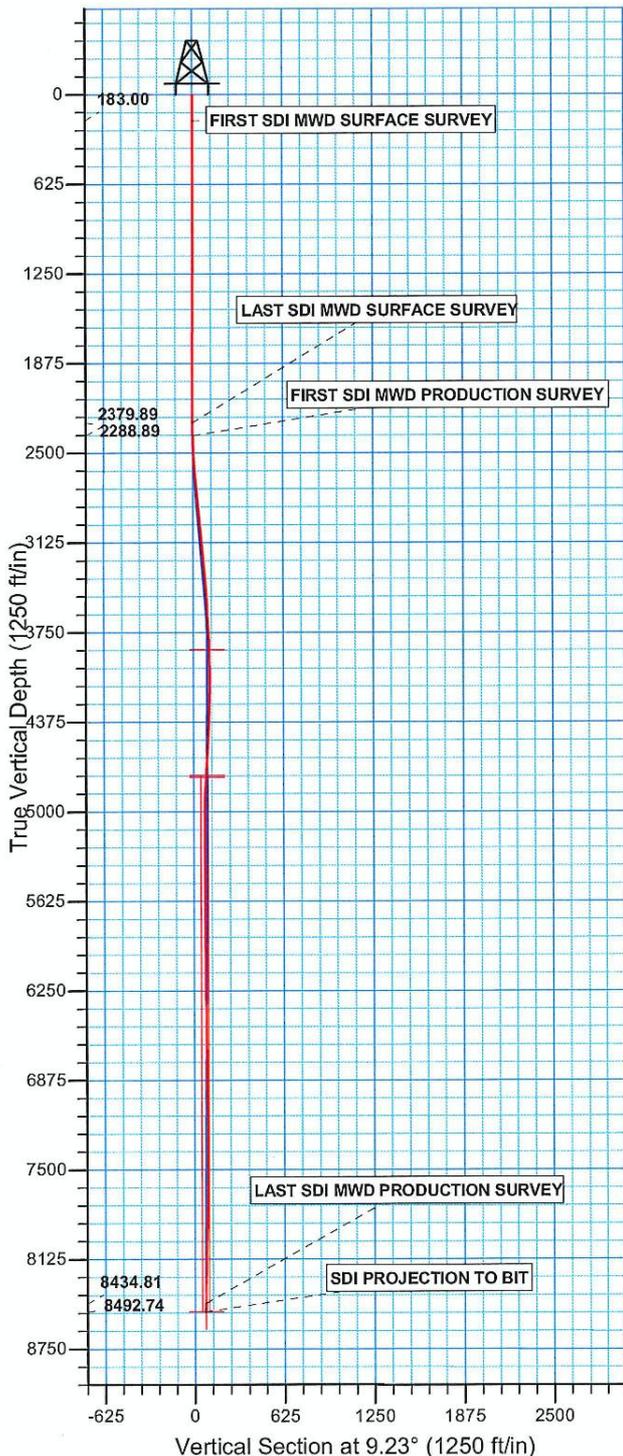
US ROCKIES REGION									
Operation Summary Report									
Well: NBU 1022-1P1BS RED					Spud Date: 9/11/2012				
Project: UTAH-UINTAH			Site: NBU 1022-01P PAD			Rig Name No: SWABBCO 8/8			
Event: COMPLETION			Start Date: 3/19/2013		End Date: 4/2/2013				
Active Datum: RKB @5,147.00usft (above Mean Sea Level)				UWI: SE/SE/0/10/S/22/E/1/0/0/26/PM/S/1168/E/0/485/0/0					
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation	
								TWR= 1,400 BBLS	
								TWLTR= 10,122 BBLS	

Project: UTAH - UTM (feet), NAD27, Zone 12N
 Site: NBU 1022-1P PAD
 Well: NBU 1022-1P1BS
 Wellbore: OH
 Design: OH



WELL DETAILS: NBU 1022-1P1BS					
GL 5128 & KB 19 @ 5147.00ft (PIONEER 54)					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	14520663.26	2094330.09	39.9736980	-109.3798730

Azimuths to True North
 Magnetic North: 11.00°
 Magnetic Field
 Strength: 52311.3snT
 Dip Angle: 65.86°
 Date: 08/23/2011
 Model: IGRF2010



PROJECT DETAILS: UTAH - UTM (feet), NAD27, Zone 12N
Geodetic System: Universal Transverse Mercator (US Survey Feet)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: Zone 12N (114 W to 108 W)
Location: SECTION 1 T10S R22E
System Datum: Mean Sea Level

Design: OH (NBU 1022-1P1BS/OH)
Created By: Gabe Kendall Date: 15:05, February 05 2013



Scientific Drilling

US ROCKIES REGION PLANNING

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

NBU 1022-1P PAD

NBU 1022-1P1BS

OH

Design: OH

Standard Survey Report

05 February, 2013





SDI
Survey Report



Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well NBU 1022-1P1BS
Project:	UTAH - UTM (feet), NAD27, Zone 12N	TVD Reference:	GL 5128 & KB 19 @ 5147.00ft (PIONEER 54)
Site:	NBU 1022-1P PAD	MD Reference:	GL 5128 & KB 19 @ 5147.00ft (PIONEER 54)
Well:	NBU 1022-1P1BS	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

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	NBU 1022-1P PAD, SECTION 1 T10S R22E				
Site Position:		Northing:	14,520,663.26 usft	Latitude:	39.9738980
From:	Lat/Long	Easting:	2,094,330.08 usft	Longitude:	-109.3798730
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence:	1.04 °

Well	NBU 1022-1P1BS, 1168 FSL 485 FEL					
Well Position	+N/-S	0.00 ft	Northing:	14,520,663.26 usft	Latitude:	39.9738980
	+E/-W	0.00 ft	Easting:	2,094,330.08 usft	Longitude:	-109.3798730
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	5,128.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	08/23/11	11.00	65.86	52,311

Design	OH				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.00	0.00	0.00	9.23	

Survey Program	Date	02/05/13			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
15.00	2,289.00	Survey #1 SDI MWD SURFACE (OH)	SDI MWD	SDI MWD - Standard ver 1.0.1	
2,380.00	8,500.00	Survey #2 SDI MWD PRODUCTION (OH)	SDI MWD	SDI MWD - Standard ver 1.0.1	

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15.00	0.00	0.00	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
183.00	0.44	277.52	183.00	0.08	-0.64	-0.02	0.26	0.26	0.00	0.00
FIRST SDI MWD SURFACE SURVEY										
267.00	0.53	264.60	267.00	0.09	-1.35	-0.13	0.17	0.11	-15.38	
353.00	0.18	251.94	352.99	0.01	-1.87	-0.29	0.41	-0.41	-14.72	
444.00	0.18	295.19	443.99	0.03	-2.14	-0.32	0.15	0.00	47.53	
534.00	0.09	309.34	533.99	0.13	-2.32	-0.24	0.11	-0.10	15.72	
624.00	0.18	347.66	623.99	0.32	-2.40	-0.07	0.14	0.10	42.58	
714.00	0.09	151.49	713.99	0.39	-2.40	0.00	0.30	-0.10	182.03	



SDI
Survey Report



Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well NBU 1022-1P1BS
Project:	UTAH - UTM (feet), NAD27, Zone 12N	TVD Reference:	GL 5128 & KB 19 @ 5147.00ft (PIONEER 54)
Site:	NBU 1022-1P PAD	MD Reference:	GL 5128 & KB 19 @ 5147.00ft (PIONEER 54)
Well:	NBU 1022-1P1BS	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

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)
804.00	0.22	199.42	803.99	0.17	-2.42	-0.22	0.19	0.14	53.26
894.00	0.00	35.91	893.99	0.00	-2.48	-0.39	0.24	-0.24	0.00
984.00	0.00	17.36	983.99	0.00	-2.48	-0.39	0.00	0.00	0.00
1,074.00	0.09	35.56	1,073.99	0.06	-2.44	-0.33	0.10	0.10	0.00
1,164.00	0.18	334.21	1,163.99	0.25	-2.46	-0.15	0.18	0.10	-68.17
1,254.00	0.44	344.32	1,253.99	0.71	-2.62	0.28	0.29	0.29	11.23
1,344.00	0.35	343.44	1,343.99	1.30	-2.79	0.84	0.10	-0.10	-0.98
1,434.00	1.03	122.28	1,433.98	1.13	-2.18	0.77	1.46	0.76	154.27
1,524.00	1.41	117.56	1,523.96	0.19	-0.52	0.10	0.44	0.42	-5.24
1,614.00	0.53	126.52	1,613.95	-0.57	0.80	-0.44	0.99	-0.98	9.96
1,704.00	0.53	220.83	1,703.95	-1.13	0.86	-0.98	0.86	0.00	104.79
1,794.00	0.97	220.65	1,793.94	-2.03	0.09	-1.99	0.49	0.49	-0.20
1,884.00	1.06	214.24	1,883.93	-3.29	-0.87	-3.39	0.16	0.10	-7.12
1,974.00	0.18	267.76	1,973.92	-3.99	-1.48	-4.17	1.07	-0.98	59.47
2,064.00	0.70	283.23	2,063.92	-3.87	-2.16	-4.16	0.59	0.58	17.19
2,154.00	0.88	332.80	2,153.91	-3.13	-3.01	-3.57	0.76	0.20	55.08
2,244.00	0.97	26.59	2,243.90	-1.83	-2.98	-2.28	0.93	0.10	59.77
2,289.00	0.97	50.06	2,288.89	-1.24	-2.52	-1.63	0.88	0.00	52.16
LAST SDI MWD SURFACE SURVEY									
2,380.00	0.37	4.38	2,379.89	-0.46	-1.91	-0.76	0.83	-0.66	-50.20
FIRST SDI MWD PRODUCTION SURVEY									
2,475.00	2.03	359.06	2,474.86	1.53	-1.91	1.20	1.75	1.75	-5.60
2,570.00	4.62	355.02	2,569.69	7.03	-2.27	6.57	2.74	2.73	-4.25
2,663.00	5.30	354.14	2,662.35	15.03	-3.03	14.35	0.74	0.73	-0.95
2,759.00	5.87	348.10	2,757.89	24.24	-4.50	23.21	0.85	0.59	-6.29
2,854.00	6.42	349.63	2,852.34	34.22	-6.46	32.74	0.60	0.58	1.61
2,948.00	5.16	346.50	2,945.86	43.50	-8.39	41.59	1.38	-1.34	-3.33
3,043.00	5.28	347.43	3,040.47	51.92	-10.34	49.59	0.15	0.13	0.98
3,137.00	6.46	0.14	3,133.98	61.43	-11.27	58.83	1.86	1.26	13.52
3,232.00	5.90	358.21	3,228.43	71.66	-11.41	68.90	0.63	-0.59	-2.03
3,327.00	5.36	350.74	3,322.97	80.92	-12.27	77.90	0.96	-0.57	-7.86
3,421.00	5.54	337.41	3,416.55	89.44	-14.72	85.92	1.36	0.19	-14.18
3,516.00	4.40	335.83	3,511.19	97.00	-17.98	92.86	1.21	-1.20	-1.66
3,611.00	3.27	345.07	3,605.98	102.94	-20.17	98.37	1.35	-1.19	9.73
3,706.00	3.52	355.68	3,700.81	108.47	-21.08	103.68	0.71	0.26	11.17
3,804.00	2.02	346.73	3,798.69	113.15	-21.71	108.20	1.59	-1.53	-9.13
3,895.00	1.76	343.12	3,889.64	116.05	-22.48	110.94	0.31	-0.29	-3.97
3,990.00	0.93	336.29	3,984.62	118.15	-23.21	112.89	0.89	-0.87	-7.19
4,085.00	0.86	291.77	4,079.61	119.12	-24.19	113.70	0.72	-0.07	-46.86
4,179.00	0.87	231.09	4,173.60	118.93	-25.40	113.32	0.93	0.01	-64.55
4,274.00	2.02	200.74	4,268.57	116.91	-26.55	111.14	1.41	1.21	-31.95
4,369.00	2.09	191.21	4,363.51	113.65	-27.48	107.77	0.37	0.07	-10.03
4,464.00	2.90	179.30	4,458.42	109.55	-27.79	103.67	1.01	0.85	-12.54



SDI
Survey Report



Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well NBU 1022-1P1BS
Project:	UTAH - UTM (feet), NAD27, Zone 12N	TVD Reference:	GL 5128 & KB 19 @ 5147.00ft (PIONEER 54)
Site:	NBU 1022-1P PAD	MD Reference:	GL 5128 & KB 19 @ 5147.00ft (PIONEER 54)
Well:	NBU 1022-1P1BS	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

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)
4,559.00	3.05	182.45	4,553.29	104.62	-27.87	98.79	0.23	0.16	3.32
4,653.00	2.81	180.79	4,647.16	99.82	-28.01	94.03	0.27	-0.26	-1.77
4,748.00	3.68	172.66	4,742.01	94.46	-27.65	88.80	1.03	0.92	-8.56
4,842.00	3.32	169.39	4,835.84	88.80	-26.76	83.35	0.44	-0.38	-3.48
4,937.00	3.32	160.31	4,930.68	83.50	-25.33	78.36	0.55	0.00	-9.56
5,032.00	1.95	129.98	5,025.58	79.87	-23.16	75.12	2.01	-1.44	-31.93
5,128.00	0.49	91.47	5,121.56	78.81	-21.50	74.34	1.66	-1.52	-40.11
5,223.00	1.38	20.81	5,216.54	79.87	-20.69	75.52	1.37	0.94	-74.38
5,318.00	1.30	43.79	5,311.52	81.72	-19.54	77.53	0.57	-0.08	24.19
5,413.00	1.06	53.64	5,406.50	83.02	-18.08	79.04	0.33	-0.25	10.37
5,508.00	0.93	79.07	5,501.48	83.69	-16.62	79.94	0.48	-0.14	26.77
5,603.00	0.89	113.37	5,596.47	83.54	-15.18	80.02	0.57	-0.04	36.11
5,698.00	1.13	124.01	5,691.46	82.72	-13.73	79.45	0.32	0.25	11.20
5,793.00	0.35	76.46	5,786.45	82.27	-12.67	79.17	0.98	-0.82	-50.05
5,887.00	0.41	56.58	5,880.45	82.52	-12.11	79.51	0.15	0.06	-21.15
5,982.00	0.70	109.77	5,975.44	82.51	-11.28	79.63	0.59	0.31	55.99
6,077.00	0.77	120.73	6,070.44	81.99	-10.19	79.29	0.16	0.07	11.54
6,171.00	0.79	27.37	6,164.43	82.24	-9.35	79.68	1.21	0.02	-99.32
6,265.00	1.31	352.15	6,258.42	83.88	-9.20	81.32	0.86	0.55	-37.47
6,361.00	1.06	340.49	6,354.40	85.80	-9.64	83.15	0.36	-0.26	-12.15
6,455.00	0.81	345.16	6,448.39	87.11	-10.06	84.37	0.48	-0.48	4.97
6,550.00	0.27	40.69	6,543.38	87.77	-10.04	85.02	0.54	-0.36	58.45
6,645.00	0.62	356.92	6,638.38	88.45	-9.93	85.71	0.49	0.37	-46.07
6,740.00	0.20	31.60	6,733.38	89.10	-9.87	86.37	0.49	-0.44	36.51
6,835.00	0.26	151.17	6,828.38	89.06	-9.68	86.35	0.42	0.06	125.86
6,930.00	1.42	358.44	6,923.37	90.04	-9.60	87.34	1.74	1.22	-160.77
7,025.00	1.32	349.01	7,018.34	92.30	-9.84	89.52	0.26	-0.11	-9.93
7,120.00	0.88	355.34	7,113.32	94.10	-10.11	91.26	0.48	-0.46	6.66
7,215.00	0.70	25.49	7,208.32	95.35	-9.92	92.52	0.47	-0.19	31.74
7,310.00	0.41	45.39	7,303.31	96.11	-9.43	93.35	0.36	-0.31	20.95
7,405.00	0.38	79.52	7,398.31	96.41	-8.88	93.73	0.25	-0.03	35.93
7,500.00	0.77	117.27	7,493.30	96.17	-8.00	93.64	0.55	0.41	39.74
7,595.00	0.97	128.06	7,588.29	95.38	-6.80	93.06	0.27	0.21	11.36
7,690.00	1.49	132.89	7,683.27	94.05	-5.26	91.98	0.56	0.55	5.08
7,784.00	1.46	129.07	7,777.24	92.46	-3.44	90.71	0.11	-0.03	-4.06
7,879.00	1.58	145.10	7,872.21	90.62	-1.75	89.17	0.46	0.13	16.87
7,974.00	1.78	143.82	7,967.17	88.36	-0.13	87.19	0.21	0.21	-1.35
8,069.00	2.18	141.18	8,062.11	85.76	1.88	84.95	0.43	0.42	-2.78
8,164.00	2.36	145.89	8,157.03	82.73	4.11	82.32	0.27	0.19	4.96
8,258.00	2.20	150.03	8,250.96	79.57	6.09	79.51	0.24	-0.17	4.40
8,352.00	2.20	150.03	8,344.89	76.44	7.89	76.72	0.00	0.00	0.00
8,442.00	2.73	145.69	8,434.81	73.17	9.97	73.82	0.62	0.59	-4.82
LAST SDI MWD PRODUCTION SURVEY									
8,500.00	2.73	145.69	8,492.74	70.89	11.52	71.82	0.00	0.00	0.00



SDI
Survey Report



Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well NBU 1022-1P1BS
Project:	UTAH - UTM (feet), NAD27, Zone 12N	TVD Reference:	GL 5128 & KB 19 @ 5147.00ft (PIONEER 54)
Site:	NBU 1022-1P PAD	MD Reference:	GL 5128 & KB 19 @ 5147.00ft (PIONEER 54)
Well:	NBU 1022-1P1BS	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

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)
SDI PROJECTION TO BIT									

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
183.00	183.00	0.08	-0.64	FIRST SDI MWD SURFACE SURVEY
2,289.00	2,288.89	-1.24	-2.52	LAST SDI MWD SURFACE SURVEY
2,380.00	2,379.89	-0.46	-1.91	FIRST SDI MWD PRODUCTION SURVEY
8,442.00	8,434.81	73.17	9.97	LAST SDI MWD PRODUCTION SURVEY
8,500.00	8,492.74	70.89	11.52	SDI PROJECTION TO BIT

Checked By: _____ Approved By: _____ Date: _____