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 1022-12P1BS

2. TYPE OF WORK
DRILL NEW WELL ● REENTER P&A WELL ○ DEEPEN WELL ○

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)
UT ST UO 01997-A ST

11. MINERAL OWNERSHIP
FEDERAL ○ INDIAN ○ STATE ● FEE ○

12. SURFACE OWNERSHIP
FEDERAL ○ INDIAN ○ STATE ● FEE ○

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 ● (Submit Commingling Application) NO ○

19. SLANT
VERTICAL ○ DIRECTIONAL ● HORIZONTAL ○

20. LOCATION OF WELL	FOOTAGES	QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN
LOCATION AT SURFACE	1109 FSL 461 FEL	SESE	12	10.0 S	22.0 E	S
Top of Uppermost Producing Zone	1240 FSL 489 FEL	SESE	12	10.0 S	22.0 E	S
At Total Depth	1240 FSL 489 FEL	SESE	12	10.0 S	22.0 E	S

21. COUNTY
UINTAH

22. DISTANCE TO NEAREST LEASE LINE (Feet)
489

23. NUMBER OF ACRES IN DRILLING UNIT
1674

25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed)
161

26. PROPOSED DEPTH
MD: 8404 TVD: 8399

27. ELEVATION - GROUND LEVEL
5264

28. BOND NUMBER
22013542

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	11	8.625	0 - 2180	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 - 8404	11.6	I-80 LT&C	12.5	Premium Lite High Strength	270	3.38	11.0
							50/50 Poz	1140	1.31	14.3

ATTACHMENTS

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

- ☑ WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER
- ☑ COMPLETE DRILLING PLAN
- ☐ AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)
- ☐ FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER
- ☑ DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)
- ☑ TOPOGRAPHICAL MAP

NAME Gina Becker **TITLE** Regulatory Analyst II **PHONE** 720 929-6086

SIGNATURE **DATE** 09/13/2011 **EMAIL** gina.becker@anadarko.com

API NUMBER ASSIGNED
43047519680000

APPROVAL

Permit Manager

RECEIVED: December 12, 2011

Kerr-McGee Oil & Gas Onshore. L.P.

NBU 1022-12P1BS

Surface: 1109 FSL / 461 FEL SESE
BHL: 1240 FSL / 489 FEL SESE

Section 12 T10S R22E

Uintah County, Utah
Mineral Lease: UT ST UO 01197-A ST

ONSHORE ORDER NO. 1

DRILLING PROGRAM

1. & 2. **Estimated Tops of Important Geologic Markers:**
Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations:

Formation	Depth	Resource
Uinta	0 - Surface	
Green River	1113	
Birds Nest	1359	Water
Mahogany	1727	Water
Wasatch	4095	Gas
Mesaverde	6240	Gas
MVU2	7235	Gas
MVL1	7773	Gas
TVD	8399	
TD	8404	

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

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7. Abnormal Conditions:

Maximum anticipated bottom hole pressure calculated at 8399' TVD, approximately equals 5,375 psi 0.64 psi/ft = actual bottomhole gradient

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

Maximum anticipated surface pressure equals approximately 3,516 psi (bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot, per Onshore Order No. 2).

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

8. Anticipated Starting Dates:

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

9. Variances:

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

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

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

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

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

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

Background

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

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

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

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

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

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

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

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

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

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

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

Conclusion

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

10. Other Information:

Please refer to the attached Drilling Program.

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KERR-McGEE OIL & GAS ONSHORE LP

DRILLING PROGRAM

COMPANY NAME	KERR-McGEE OIL & GAS ONSHORE LP		DATE	September 7, 2011	
WELL NAME	**NBU 1022-12P1BS**		TD	8,399' TVD	8,404' MD
FIELD	Natural Buttes	COUNTY Uintah	STATE Utah	FINISHED ELEVATION	5263.8
SURFACE LOCATION	SESE	1109 FSL	461 FEL	Sec 12 T 10S R 22E	
	Latitude: 39.959254	Longitude: -109.379834		NAD 27	
BTM HOLE LOCATION	SESE	1240 FSL	489 FEL	Sec 12 T 10S R 22E	
	Latitude: 39.959615	Longitude: -109.379934		NAD 27	
OBJECTIVE ZONE(S)	Wasatch/Mesaverde				
ADDITIONAL INFO	Regulatory Agencies: UDOGM (Minerals), UDOGM (Surface), UDOGM Tri-County Health Dept.				

GEOLOGICAL			MECHANICAL		
LOGS	FORMATION TOPS	DEPTH	HOLE SIZE	CASING SIZE	MUD WEIGHT
		40'	14"		
			12-1/4	8-5/8", 28#, IJ-55, LTC	Air mist
		200'			
			11'	8-5/8", 28#, IJ-55, LTC	Air mist

All water flows encountered while drilling will be reported to the appropriate agencies.

Green River @	1,113'
Top of Birds Nest @	1,359'
Mahogany @	1,727'
Preset f/ GL @	2,180' TVD

Note: 11" surface hole will usually be drilled ±400' below the lost circulation zone (aka bird's nest). Drilled depth may be ±200' of the estimated set depth depending on the acutal depth of the loss zone.

Wasatch @	4,095'
Mverde @	6,240' TVD
MVU2 @	7,235' TVD
MVU1 @	7,773' TVD
TD @	8,399' TVD / 8,404' MD

Mud logging program TBD
Cased hole logging program from TD - surf csg

7-7/8" | 4-1/2" 11.6# I-80 or equivalent BTC/LTC csg | Water / Fresh Water Mud 8.3-12.5 ppg

Max anticipated Mud required 12.5 ppg

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KERR-McGEE OIL & GAS ONSHORE LP

DRILLING PROGRAM

CASING PROGRAM

	SIZE	INTERVAL			WT.	GR.	CPLG.	DESIGN FACTORS BURST	COLLAPSE	LTC	BTC TENSION
CONDUCTOR	14"	0-40'									
								3,390	1,880	348,000	N/A
SURFACE	8-5/8"	0	to	2,180	28.00	IJ-55	LTC	2.48	1.84	6.51	N/A
								7,780	6,350	279,000	367,000
PRODUCTION	4-1/2"	0	to	8,404	11.60	I-80	LTC/BTC	1.11	1.16	3.54	4.65

Surface Casing:

(Burst Assumptions: TD = 12.5 ppg) 0.73 psi/ft = frac gradient @ surface shoe

Fracture at surface shoe with 0.1 psi/ft gas gradient above

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

Production casing:

(Burst Assumptions: Pressure test with 8.4ppg @ 7000 psi) 0.64 psi/ft = bottomhole gradient

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

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE	LEAD	500'	Premium cmt + 2% CaCl	180	60%	15.80	1.15
Option 1			+ 0.25 pps flocele				
	TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt	270	0%	15.80	1.15
			+ 2% CaCl + 0.25 pps flocele				
SURFACE		**NOTE: If well will circulate water to surface, option 2 will be utilized**					
Option 2	LEAD	1,680'	65/35 Poz + 6% Gel + 10 pps gilsonite	160	35%	11.00	3.82
			+ 0.25 pps Flocele + 3% salt BWOW				
	TAIL	500'	Premium cmt + 2% CaCl	150	35%	15.80	1.15
			+ 0.25 pps flocele				
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.80	1.15
PRODUCTION	LEAD	3,594'	Premium Lite II +0.25 pps	270	20%	11.00	3.38
			celloflake + 5 pps gilsonite + 10% gel				
			+ 0.5% extender				
	TAIL	4,810'	50/50 Poz/G + 10% salt + 2% gel	1,140	35%	14.30	1.31
			+ 0.1% R-3				

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

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

FLOAT EQUIPMENT & CENTRALIZERS

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

ADDITIONAL INFORMATION

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

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

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

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

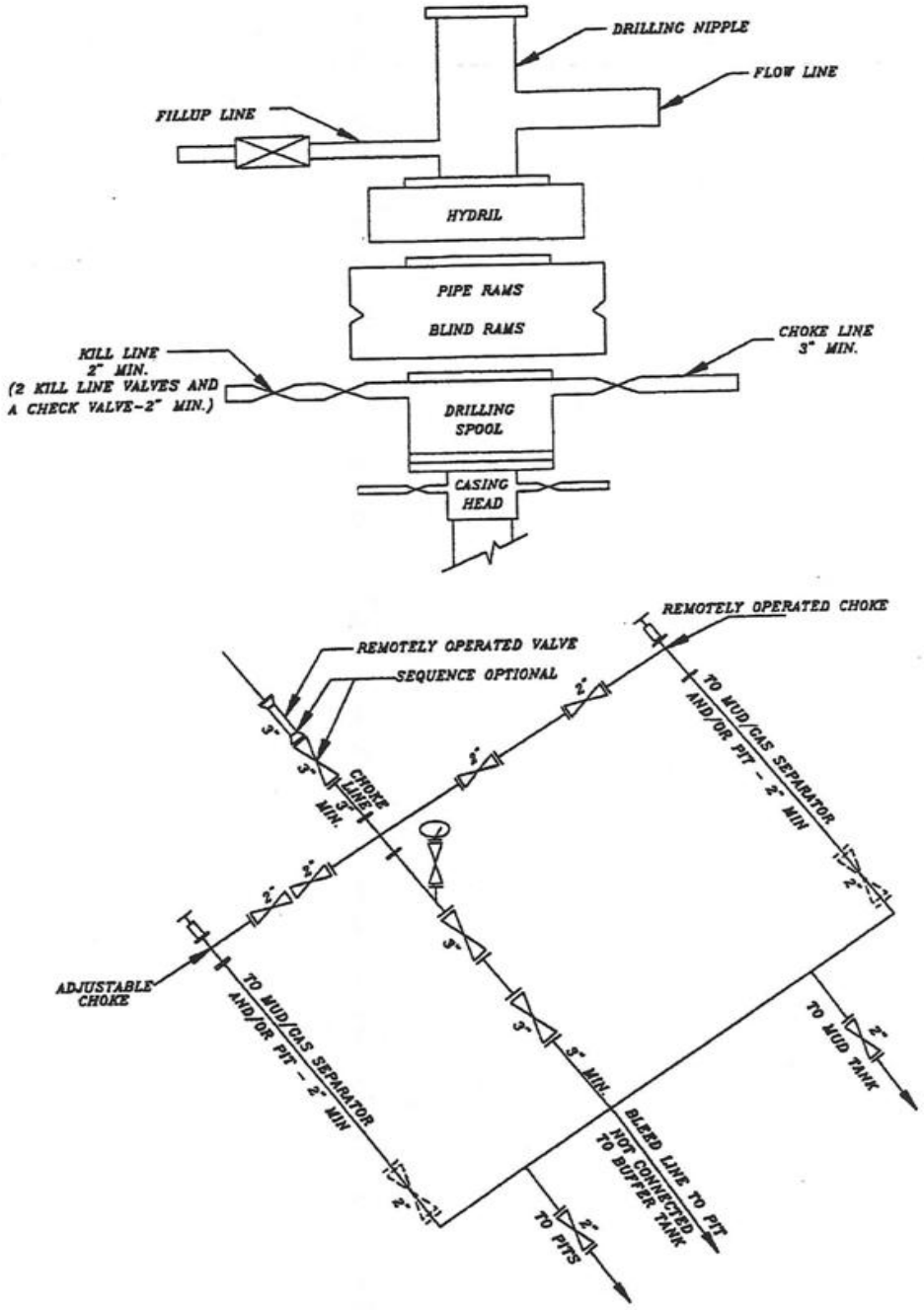
DRILLING ENGINEER: _____ **DATE:** _____

Nick Spence / Danny Showers

DRILLING SUPERINTENDENT: _____ **DATE:** _____

Kenny Gathings / Lovel Young

EXHIBIT A
NBU 1022-12P1BS



SCHEMATIC DIAGRAM OF 5,000 PSI BOP STACK

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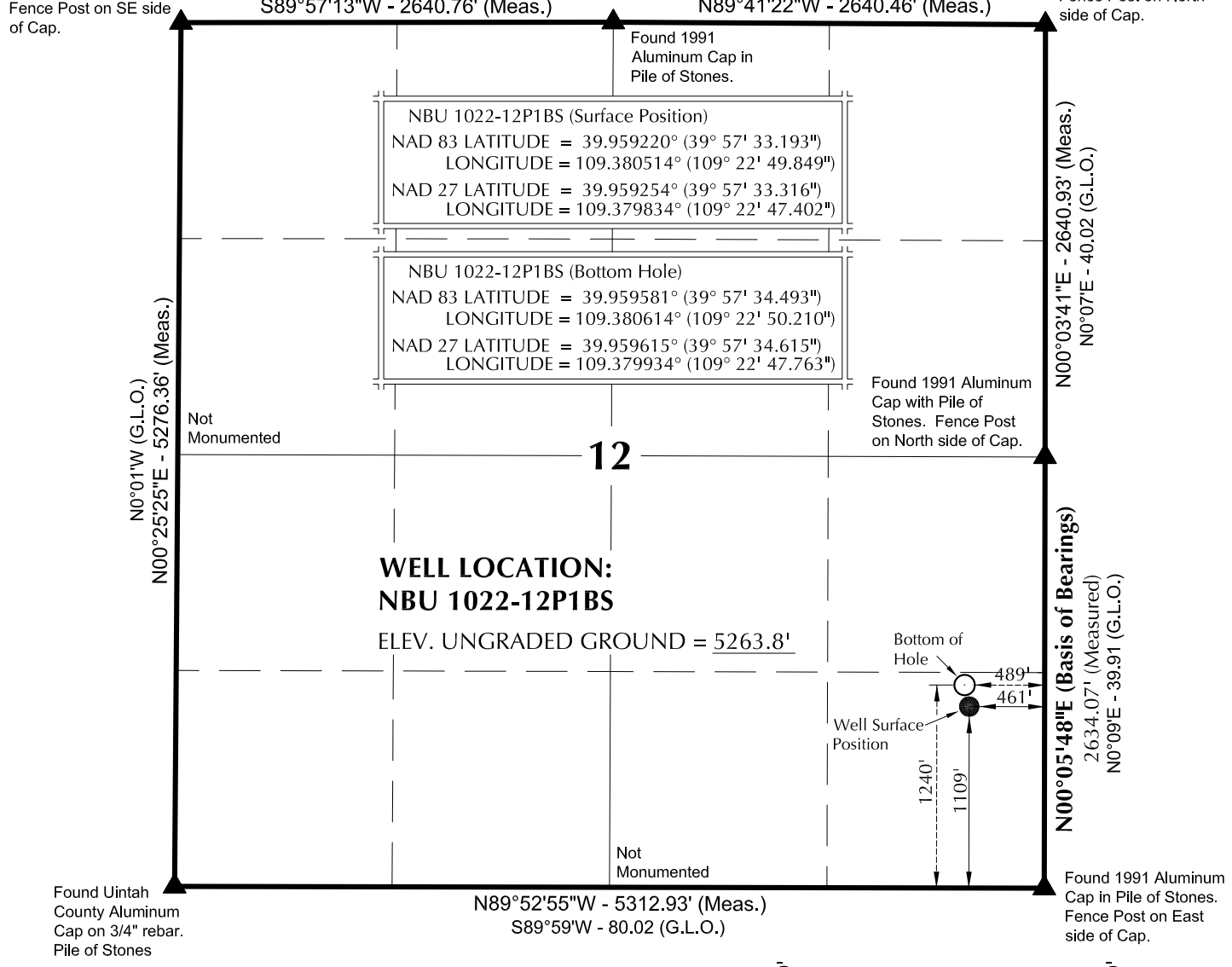
API Well Number: 43047519680000

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 N12°07'09"W 134.50' 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'.

N

1000' 500' 0' 1000'

SCALE

SURVEYOR'S CERTIFICATE

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

No.6028691 JOHN R SLAUGH — PROFESSIONAL LAND SURVEYOR — STATE OF UTAH

PROFESSIONAL LAND SURVEYOR
REGISTRATION No. 6028691
STATE OF UTAH — 2-8-11

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

WELL PAD: NBU 1022-12P

NBU 1022-12P1BS
WELL PLAT
1240' FSL, 489' FEL (Bottom Hole)
SE ¼ SE ¼ OF SECTION 12, T10S, R22E, S.L.B.&M., UINTAH COUNTY, UTAH.

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

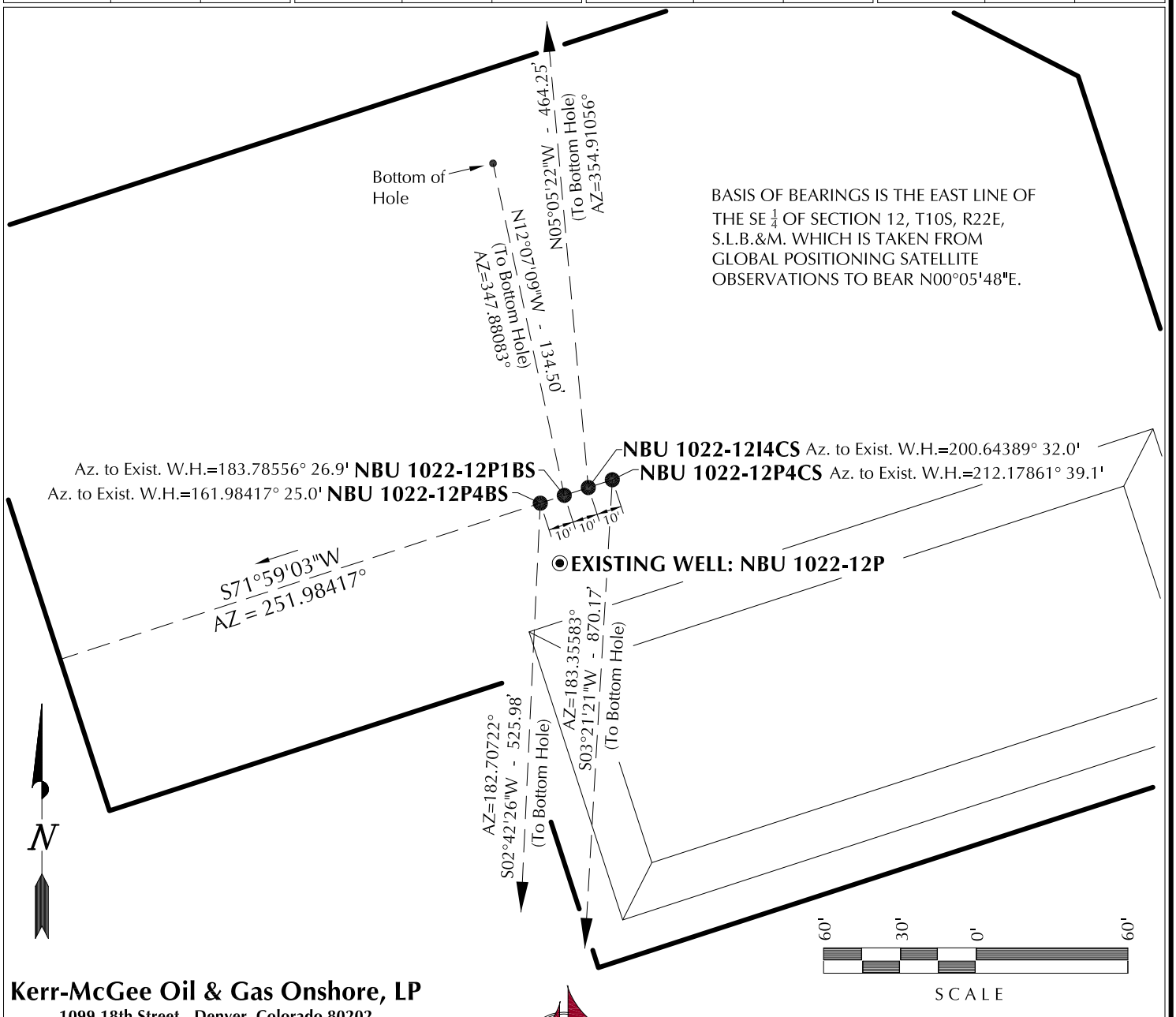
TIMBERLINE (435) 789-1365
ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

DATE SURVEYED: 01-18-11	SURVEYED BY: R.Y.	SHEET NO: 3
DATE DRAWN: 02-01-11	DRAWN BY: M.W.W.	3 OF 16
SCALE: 1" = 1000'	Date Last Revised:	

WELL NAME	SURFACE POSITION					BOTTOM HOLE				
	NAD83		NAD27			NAD83		NAD27		
	LATITUDE	LONGITUDE	LATITUDE	LONGITUDE	FOOTAGES	LATITUDE	LONGITUDE	LATITUDE	LONGITUDE	FOOTAGES
NBU 1022-12P4CS	39°57'33.254" 39.959237°	109°22'49.605" 109.380446°	39°57'33.377" 39.959271°	109°22'47.157" 109.379766°	1115' FSL 442' FEL	39°57'24.672" 39.956853°	109°22'50.269" 109.380630°	39°57'24.795" 39.956887°	109°22'47.822" 109.379951°	246' FSL 491' FEL
NBU 1022-12I4CS	39°57'33.224" 39.959229°	109°22'49.727" 109.380480°	39°57'33.346" 39.959263°	109°22'47.280" 109.379800°	1112' FSL 451' FEL	39°57'37.793" 39.960498°	109°22'50.251" 109.380625°	39°57'37.915" 39.960532°	109°22'47.803" 109.379945°	1574' FSL 493' FEL
NBU 1022-12P1BS	39°57'33.193" 39.959220°	109°22'49.849" 109.380514°	39°57'33.316" 39.959254°	109°22'47.402" 109.379834°	1109' FSL 461' FEL	39°57'34.493" 39.959581°	109°22'50.210" 109.380614°	39°57'34.615" 39.959615°	109°22'47.763" 109.379934°	1240' FSL 489' FEL
NBU 1022-12P4BS	39°57'33.163" 39.959212°	109°22'49.972" 109.380548°	39°57'33.285" 39.959246°	109°22'47.524" 109.379868°	1105' FSL 470' FEL	39°57'27.972" 39.957770°	109°22'50.297" 109.380638°	39°57'28.095" 39.957804°	109°22'47.849" 109.379958°	580' FSL 494' FEL
NBU 1022-12P	39°57'32.928" 39.959147°	109°22'49.873" 109.380520°	39°57'33.050" 39.959181°	109°22'47.425" 109.379840°	1082' FSL 462' 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 1022-12P4CS	-868.7'	-50.9'	NBU 1022-12I4CS	462.4'	-41.2'	NBU 1022-12P1BS	131.5'	-28.2'	NBU 1022-12P4BS	-525.4'	-24.8'



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

WELL PAD - NBU 1022-12P

WELL PAD INTERFERENCE PLAT
WELLS - NBU 1022-12P4CS, NBU 1022-12I4CS, NBU 1022-12P1BS & NBU 1022-12P4BS
LOCATED IN SECTION 12, T10S, R22E, S.L.B.&M., UINTAH COUNTY, UTAH.

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

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

DATE SURVEYED: 01-18-11	SURVEYED BY: R.Y.	SHEET NO: 5
DATE DRAWN: 02-01-11	DRAWN BY: M.W.W.	5 OF 16
SCALE: 1" = 60'	Date Last Revised:	

RECEIVED: September 13, 2011

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

10" GAS LINE
6" (MAX.) LIQUID LINE

PROPOSED ACCESS ROAD RE-ROUTE

PROPOSED ACCESS ROAD RE-ROUTE

EXISTING ACCESS ROAD

RESERVE PIT & EXCESS CUT STOCKPILE

TOPSOIL STOCKPILE

4 C0.4

5 C9.8

3 F8.8

2 F6.5

1 F6.1

A C5.1

B C9.3

W C1.7

6 C4.0

D C1.8

C C3.8

7 C0.7

8 C1.7

9 F3.6

10 F4.4

11 F6.7

EXISTING WELL PAD

RECLAIMED PIT

RESERVE PIT
12' DEPTH
SLOPE 1.5:1

6" GAS LINE
6" (MAX.)
LIQUID LINE

ANCHOR

MOVE EXISTING SPOILS PILE TO PROPOSED LOCATION

MOVE EXISTING SPOILS PILE TO PROPOSED LOCATION

N05°05'22"W - 464.25'
(TO BOTTOM HOLE)

N12°07'09"W - 134.50'
(TO BOTTOM HOLE)

NBU 1022-12P4CS
NBU 1022-12I4CS 10'
NBU 1022-12P1BS 10'
NBU 1022-12P4BS 10'

EXISTING WELL:
NBU 1022-12P

EXISTING METER/ SEPARATOR

EXISTING TANK AND BERM

EXISTING METHANOL TANK

S03°21'21"W 1870.17'
(TO BOTTOM HOLE)

S02°42'26"W - 525.98'
(TO BOTTOM HOLE)

8" GAS LINE
6" (MAX.) LIQUID LINE

EXISTING ACCESS ROAD

FILL CUT

95' 106' 225' 182' 120' 235' 260' 47' 160' 220' 200' 165' 55' 120' 119' 15' 25' 170' 63'

5230 5240 5250 5260 5270

WELL PAD - NBU 1022-12P DESIGN SUMMARY

EXISTING GRADE @ CENTER OF WELL PAD = 5263.7'
FINISHED GRADE ELEVATION = 5262.0'
CUT SLOPES = 1.5:1
FILL SLOPES = 1.5:1
TOTAL WELL PAD AREA = 3.48 ACRES
TOTAL DAMAGE AREA = 6.28 ACRES
SHRINKAGE FACTOR = 1.10
SWELL FACTOR = 1.00

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

WELL PAD - NBU 1022-12P

WELL PAD - LOCATION LAYOUT
NBU 1022-12P4CS, NBU 1022-12I4CS,
NBU 1022-12P1BS & NBU 1022-12P4BS
LOCATED IN SECTION 12, 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 = 9,978 C.Y.
TOTAL FILL FOR WELL PAD = 7,905 C.Y.
TOPSOIL @ 6" DEPTH = 1,643 C.Y.
EXCESS MATERIAL = 2,073 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

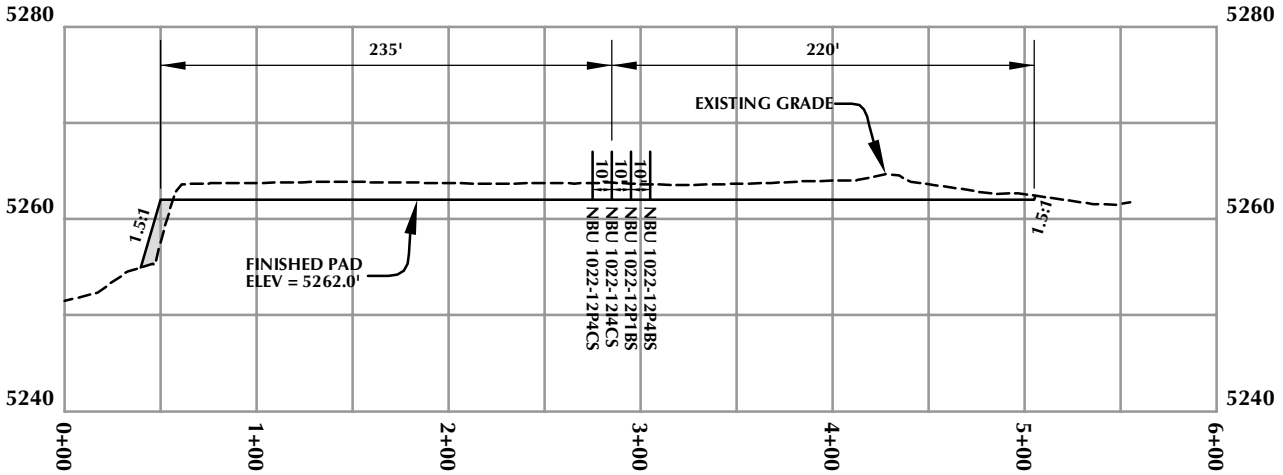
HORIZONTAL 0 30' 60' 1" = 60'
2' CONTOURS

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

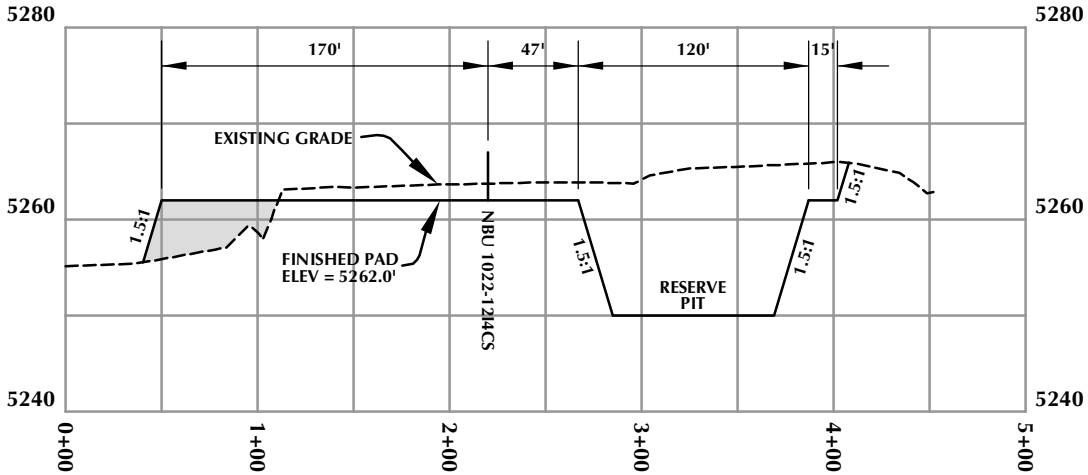
SCALE: 1"=60'	DATE: 3/8/11	SHEET NO:
REVISED: TAR 4/15/11		6 6 OF 16

K:\ANADARKO\2010\2010_64_NBU_FOCUS_1022-12\DWG\NBU_1022-12P\NBU_1022_12P_PAD_20110126.dwg

RECEIVED: September 13, 2011



CROSS SECTION A-A'



CROSS SECTION B-B'

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

WELL PAD - NBU 1022-12P

WELL PAD - CROSS SECTIONS
NBU 1022-12P4CS, NBU 1022-12I4CS,
NBU 1022-12P1BS & NBU 1022-12P4BS
LOCATED IN SECTION 12, 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

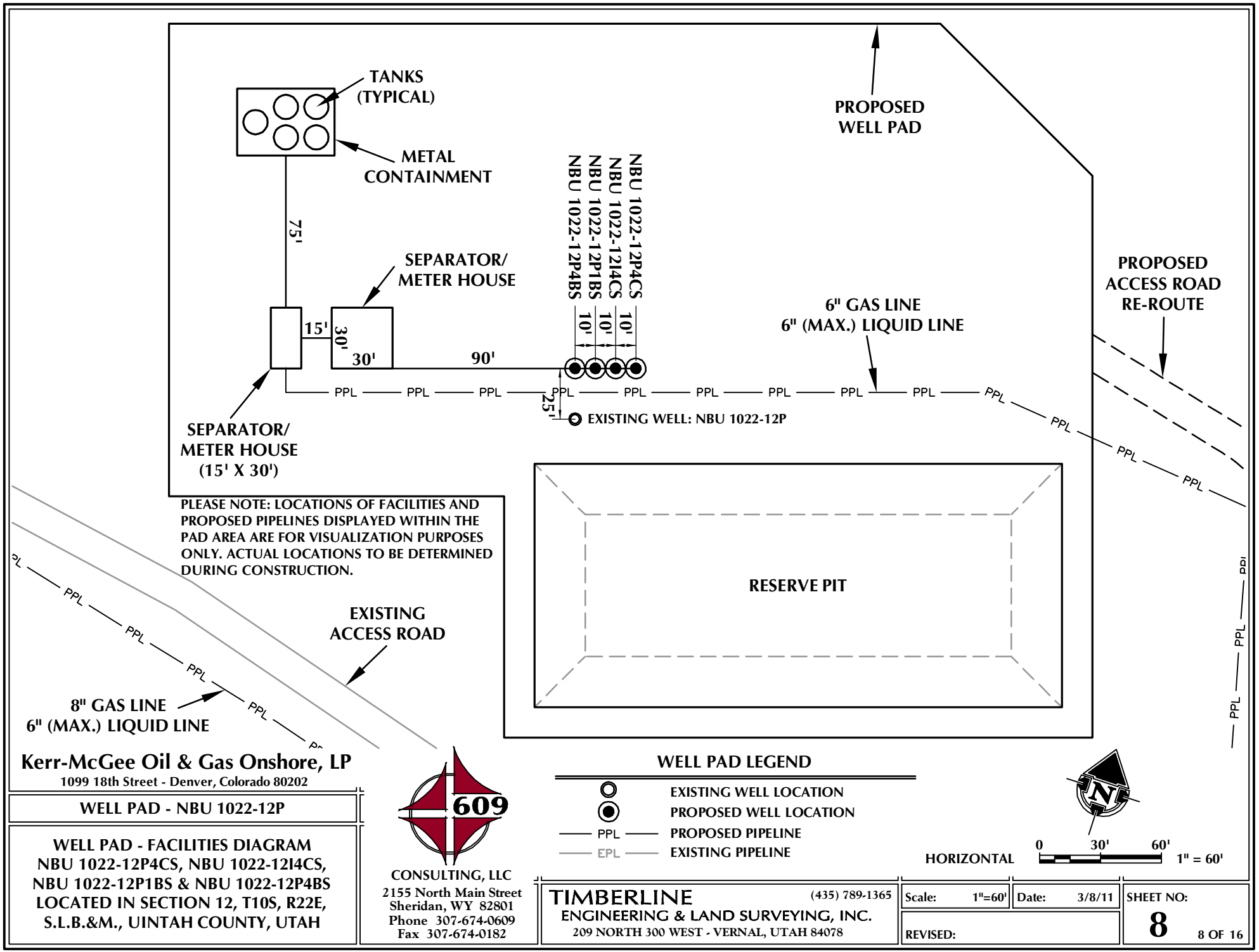
HORIZONTAL 0 50' 100' 1" = 100'
VERTICAL 0 10' 20' 1" = 20'

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

Scale: 1"=100' | Date: 3/8/11 | SHEET NO: 7 7 OF 16
REVISED:

K:\ANADARKO\2010_64_NBU_FOCUS_1022-12\DWG\NBU_1022-12P\NBU_1022_12P_PAD_20110126.dwg, 3/7/2011 10:29:20 AM

RECEIVED: September 13, 2011



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

WELL PAD - NBU 1022-12P

WELL PAD - FACILITIES DIAGRAM
NBU 1022-12P4CS, NBU 1022-12I4CS,
NBU 1022-12P1BS & NBU 1022-12P4BS
LOCATED IN SECTION 12, T10S, R22E,
S.L.B.&M., UINTAH COUNTY, UTAH

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

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

Scale: 1"=60' | Date: 3/8/11 | SHEET NO: 8 | 8 OF 16
REVISED:

K:\ANADARKO\2010_64_NBU_FOCUS_1022-12\DWG\NBU_1022-12P\NBU_1022_12P_PAD_20110126.dwg, 3/7/2011 10:37:15 AM

RECEIVED: September 13, 2011

API Well Number: 43047519680000

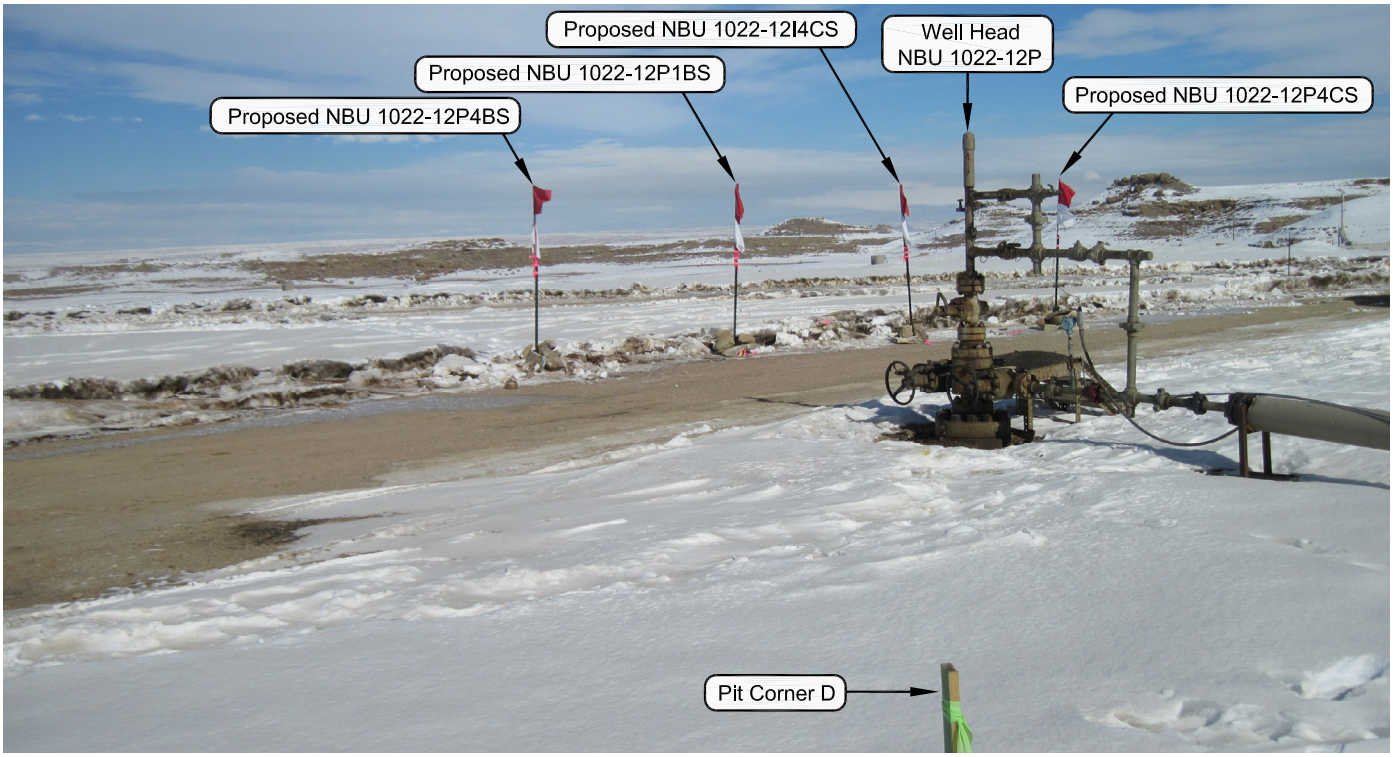


PHOTO VIEW: FROM PIT CORNER D TO LOCATION STAKE CAMERA ANGLE: NORTHEASTERLY

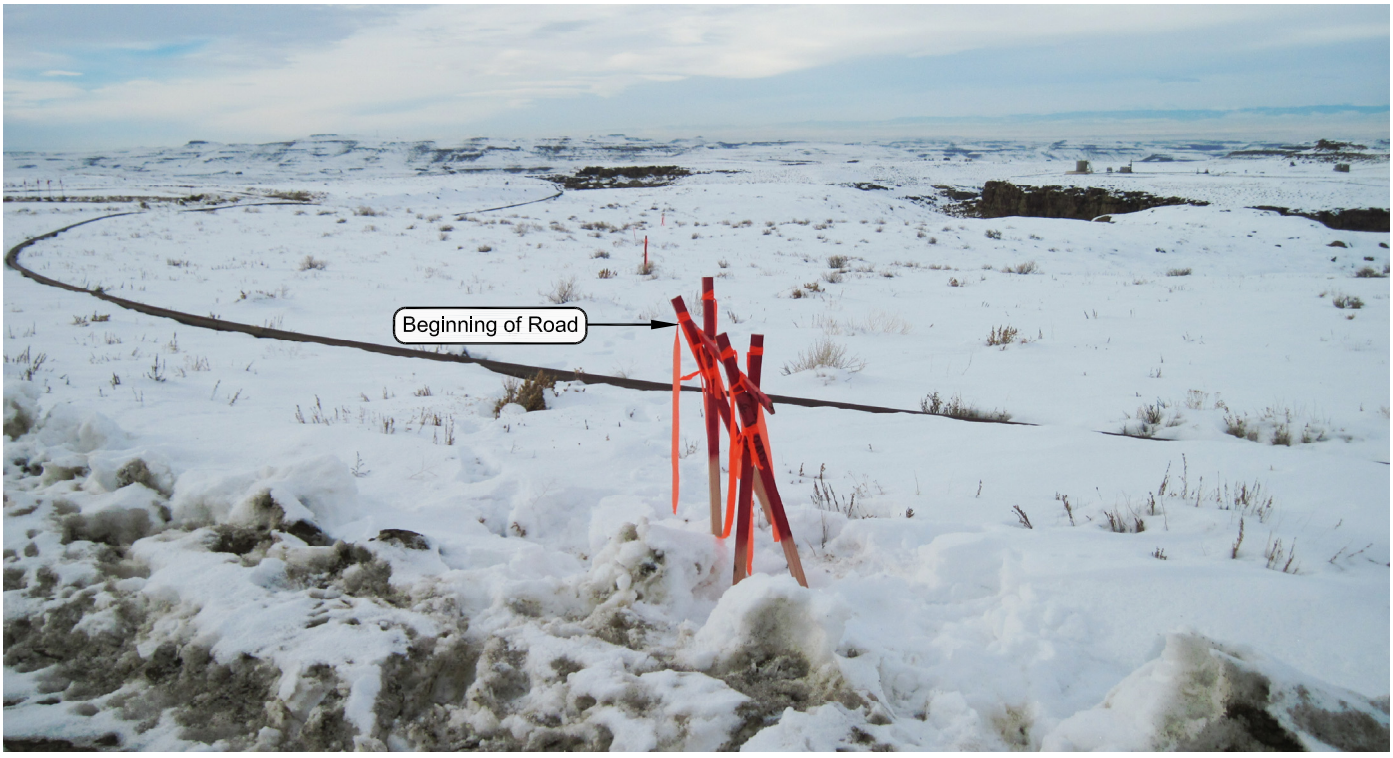


PHOTO VIEW: FROM BEGINNING OF PROPOSED ROAD CAMERA ANGLE: NORTHWESTERLY

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

WELL PAD - NBU 1022-12P

LOCATION PHOTOS
NBU 1022-12P4CS, NBU 1022-12I4CS, NBU 1022-12P1BS & NBU 1022-12P4BS LOCATED IN SECTION 12, T10S, R22E, S.L.B.&M., UINTAH COUNTY, UTAH.

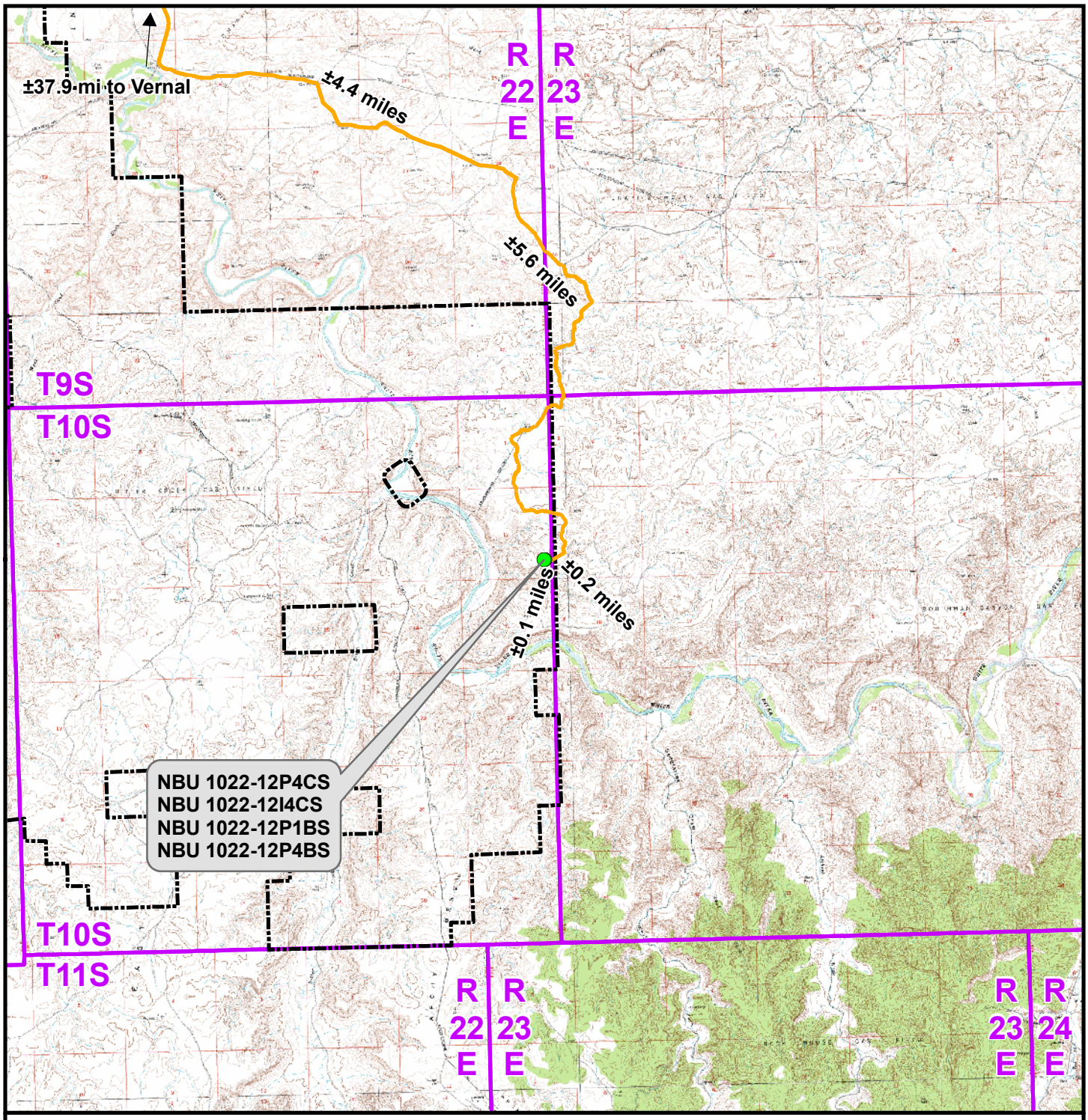
609 CONSULTING, LLC
2155 North Main Street
Sheridan WY 82801
Phone 307-674-0609
Fax 307-674-0182

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

DATE PHOTOS TAKEN: 01-18-11	PHOTOS TAKEN BY: R.Y.	SHEET NO: 9
DATE DRAWN: 02-01-11	DRAWN BY: M.W.W.	9 OF 16
Date Last Revised:		

RECEIVED: September 13, 2011

API Well Number: 43047519680000



Legend

Distance From Well Pad - NBU 1022-12P To Unit Boundary: ±442ft

Proposed Well Location

Natural Buttes Unit Boundary

Access Route - Proposed

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

WELL PAD - NBU 1022-12P

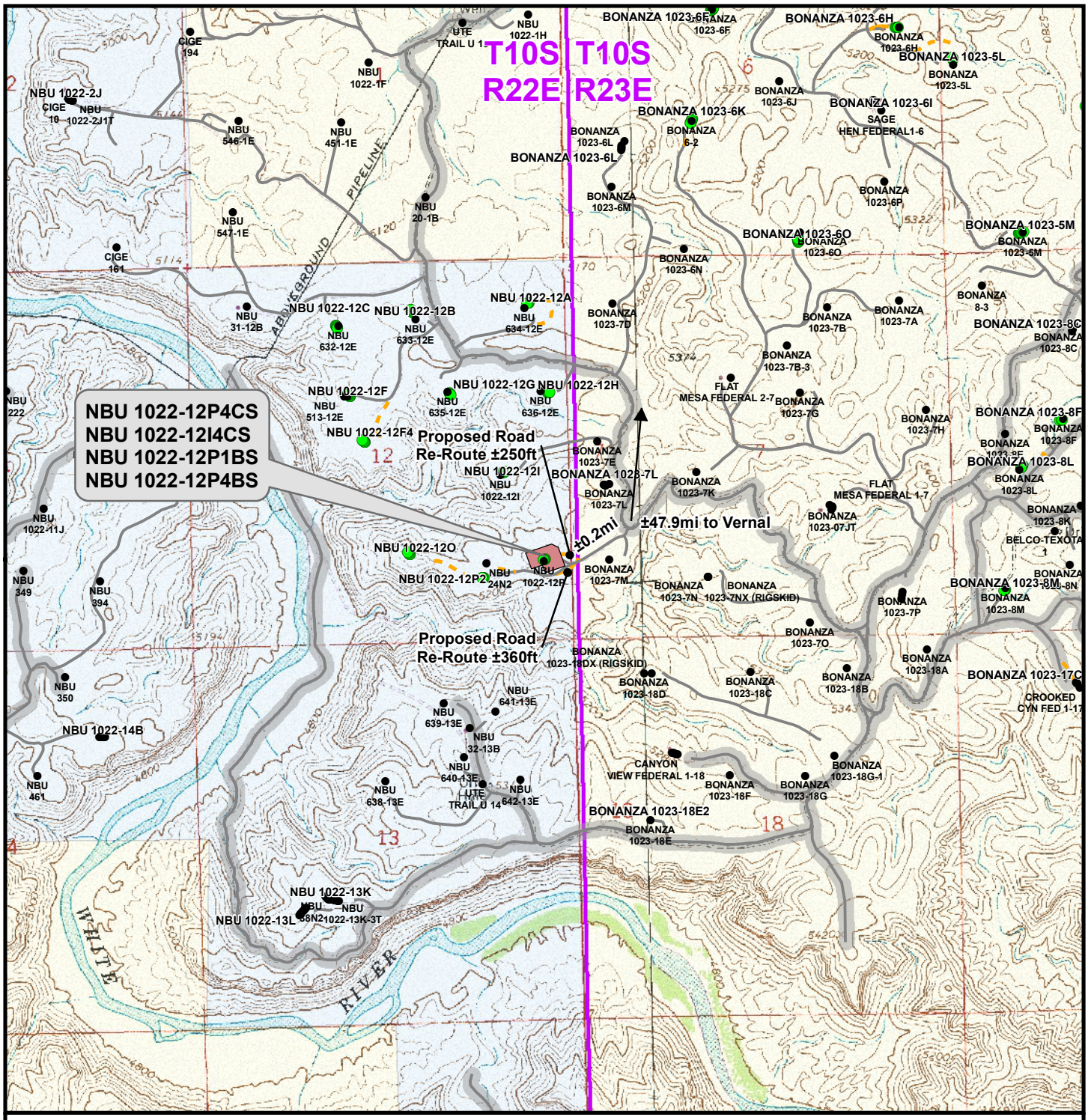
TOPO A
NBU 1022-12P4CS, NBU 1022-12I4CS,
NBU 1022-12P1BS & NBU 1022-12P4BS
LOCATED IN SECTION 12, T10S, R22E,
S.L.B.&M., UINTAH COUNTY, UTAH

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

N

Scale: 1:100,000	NAD83 USP Central	Sheet No: 10 of 16	
Drawn: TL	Date: 8 Mar 2011		
Revised:	Date:		

API Well Number: 43047519680000



Legend

Total Proposed Road Re-Route Length: ±610ft

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

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

WELL PAD - NBU 1022-12P

TOPO B
NBU 1022-12P4CS, NBU 1022-12I4CS,
NBU 1022-12P1BS & NBU 1022-12P4BS
LOCATED IN SECTION 12, T10S, R22E,
S.L.B.&M., UINTAH COUNTY, UTAH

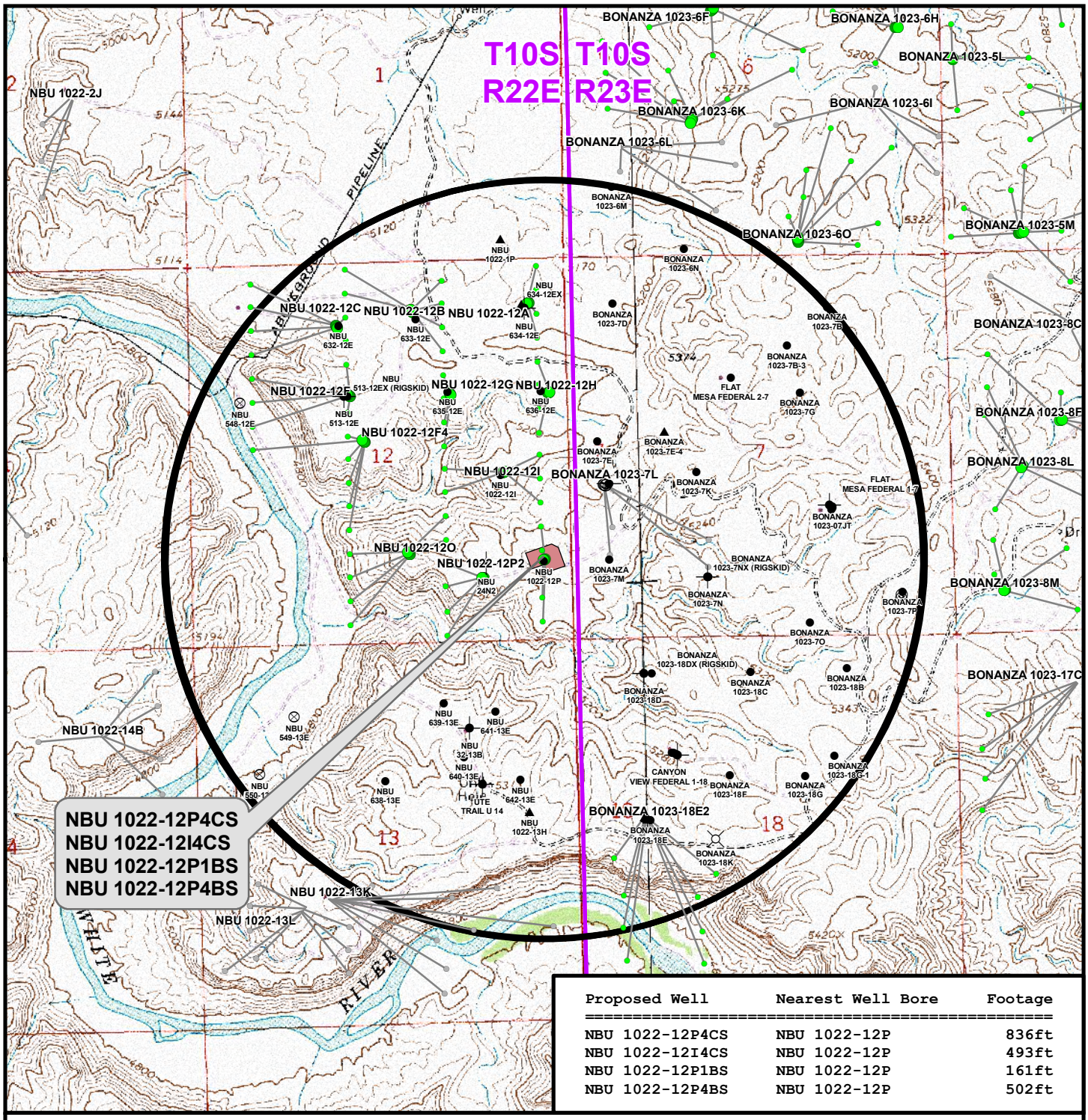
609 CONSULTING, LLC
2155 North Main Street
Sheridan, WY 82801
Phone (307) 674-0609
Fax (307) 674-0182

N

Scale: 1" = 2,000ft	NAD83 USP Central	Sheet No:	
Drawn: TL	Date: 8 Mar 2011	11	11 of 16
Revised:	Date:		

RECEIVED: September 13, 2011

API Well Number: 43047519680000



Proposed Well	Nearest Well Bore	Footage
NBU 1022-12P4CS	NBU 1022-12P	836ft
NBU 1022-12I4CS	NBU 1022-12P	493ft
NBU 1022-12P1BS	NBU 1022-12P	161ft
NBU 1022-12P4BS	NBU 1022-12P	502ft

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

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

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

WELL PAD - NBU 1022-12P

TOPO C
NBU 1022-12P4CS, NBU 1022-12I4CS, NBU 1022-12P1BS & NBU 1022-12P4BS
LOCATED IN SECTION 12, T10S, R22E, S.L.B.&M., UINTAH COUNTY, UTAH

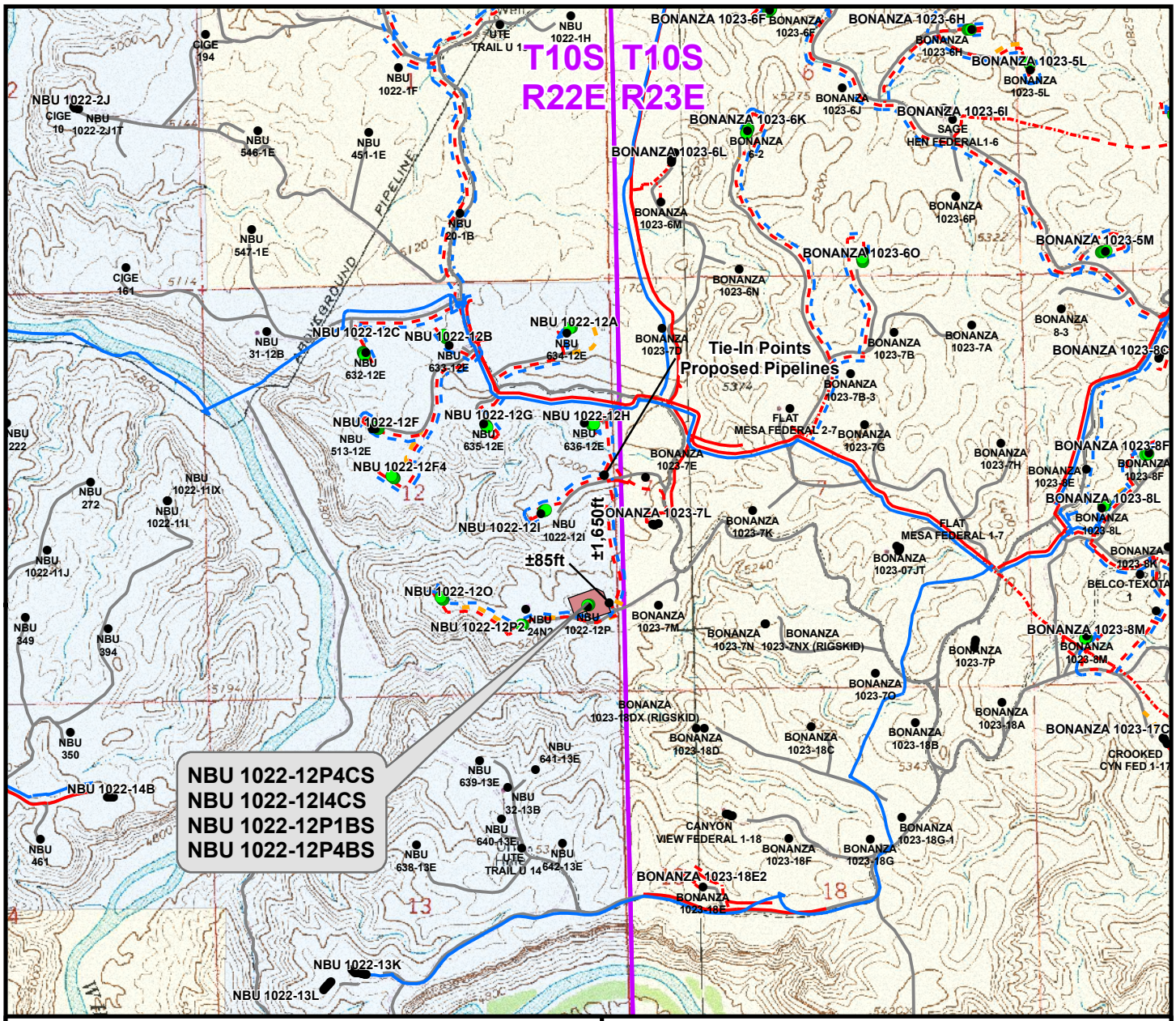
609 CONSULTING, LLC
2155 North Main Street
Sheridan, WY 82801
Phone (307) 674-0609
Fax (307) 674-0182

N

Scale: 1" = 2,000ft	NAD83 USP Central	Sheet No: 12 of 16
Drawn: TL	Date: 8 Mar 2011	
Revised:	Date:	

RECEIVED: September 13, 2011

API Well Number: 43047519680000



Proposed Liquid Pipeline	Length
Proposed 6"(Max.) (Meter House to Edge of Pad)	±430ft
Proposed 6"(Max.) (Edge of Pad to 12P2 Intersection)	±85ft
Proposed 6"(Max.) (12P2 Intersection to 12I Intersection)	±1,650ft
TOTAL PROPOSED LIQUID PIPELINE =	±2,165ft

Proposed Gas Pipeline	Length
Proposed 6" (Meter House to Edge of Pad)	±430ft
Proposed 6" (Edge of Pad to 12P2 Intersection)	±85ft
Proposed 10"(12P2 Intersection to 12I Intersection)	±1,650ft
TOTAL PROPOSED GAS PIPELINE =	±2,165ft

Legend

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

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

WELL PAD - NBU 1022-12P

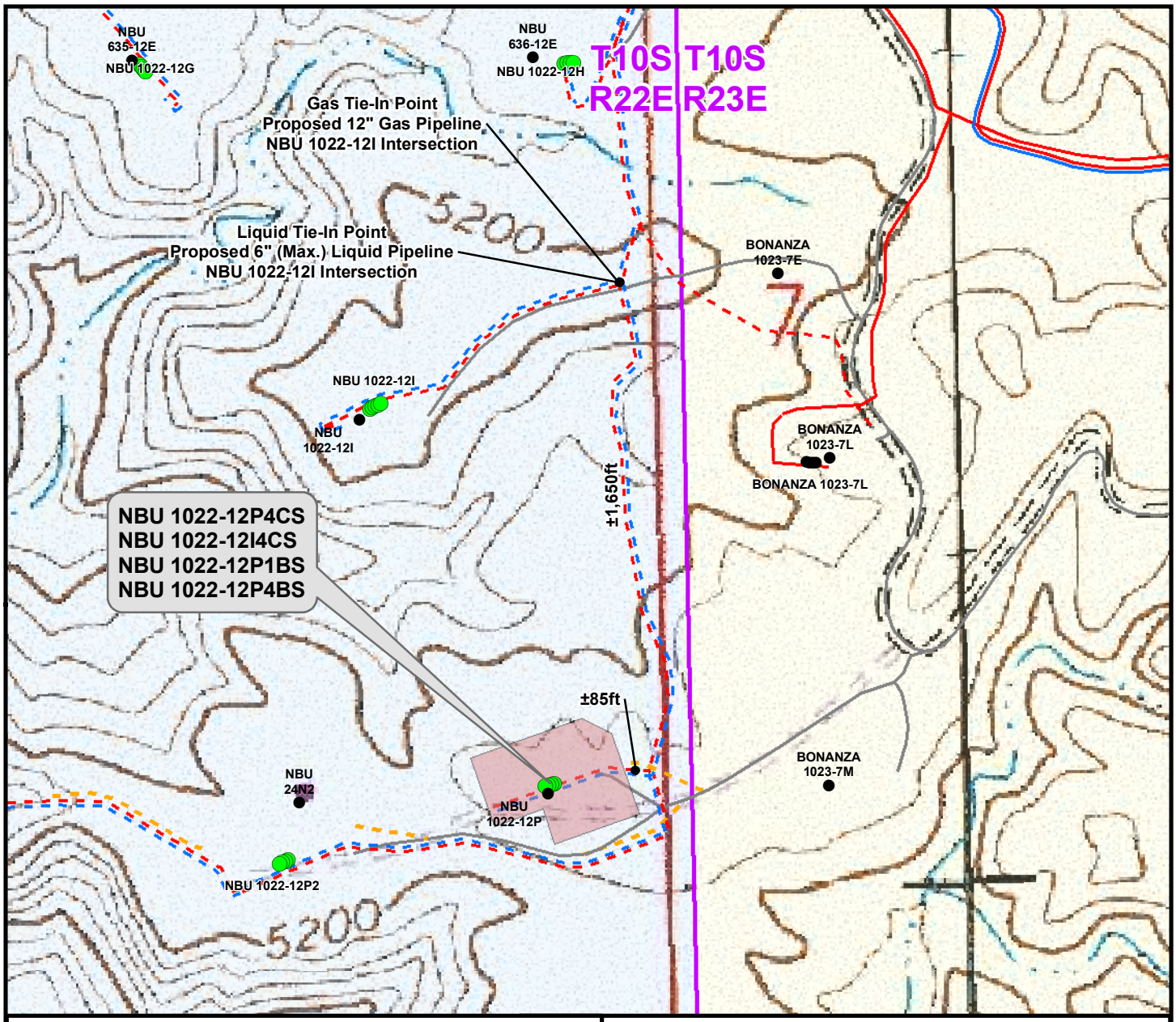
TOPO D
NBU 1022-12P4CS, NBU 1022-12I4CS,
NBU 1022-12P1BS & NBU 1022-12P4BS
LOCATED IN SECTION 12, T10S, R22E,
S.L.B.&M., UINTAH COUNTY, UTAH

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

N

Scale: 1" = 2,000ft	NAD83 USP Central	Sheet No: 13 of 16
Drawn: TL	Date: 8 Mar 2011	
Revised:	Date:	

RECEIVED: September 13, 2011



Proposed Liquid Pipeline	Length
Proposed 6"(Max.) (Meter House to Edge of Pad)	±430ft
Proposed 6"(Max.) (Edge of Pad to 12P2 Intersection)	±85ft
Proposed 6"(Max.) (12P2 Intersection to 12I Intersection)	±1,650ft
TOTAL PROPOSED LIQUID PIPELINE =	±2,165ft

Proposed Gas Pipeline	Length
Proposed 6" (Meter House to Edge of Pad)	±430ft
Proposed 6" (Edge of Pad to 12P2 Intersection)	±85ft
Proposed 10"(12P2 Intersection to 12I Intersection)	±1,650ft
TOTAL PROPOSED GAS PIPELINE =	±2,165ft

Legend

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

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

WELL PAD - NBU 1022-12P

TOPO D2 (PAD & PIPELINE DETAIL)
NBU 1022-12P4CS, NBU 1022-12I4CS,
NBU 1022-12P1BS & NBU 1022-12P4BS
LOCATED IN SECTION 12, T10S, R22E,
S.L.B.&M., UINTAH COUNTY, UTAH

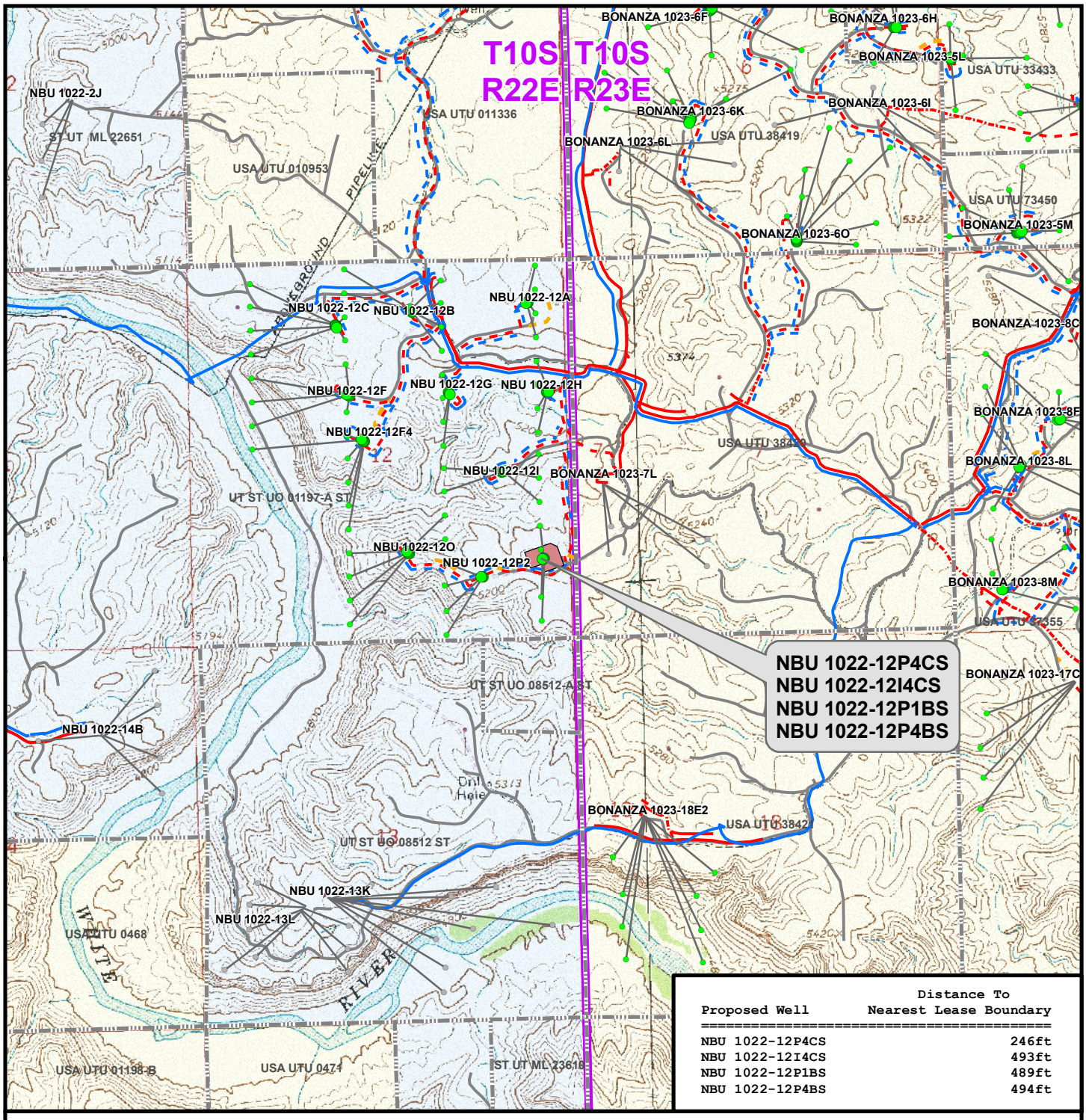
609 CONSULTING, LLC
2155 North Main Street
Sheridan, WY 82801
Phone (307) 674-0609
Fax (307) 674-0182

N

Scale: 1" = 500ft	NAD83 USP Central	Sheet No:	
Drawn: TL	Date: 8 Mar 2011	14	14 of 16
Revised:	Date:		

RECEIVED: September 13, 2011

API Well Number: 43047519680000



Proposed Well	Distance To Nearest Lease Boundary
NBU 1022-12P4CS	246ft
NBU 1022-12I4CS	493ft
NBU 1022-12P1BS	489ft
NBU 1022-12P4BS	494ft

Legend

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

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

WELL PAD - NBU 1022-12P

TOPO E
NBU 1022-12P4CS, NBU 1022-12I4CS, NBU 1022-12P1BS & NBU 1022-12P4BS
LOCATED IN SECTION 12, 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

N

Scale: 1" = 2,000ft	NAD83 USP Central	Sheet No: 15 of 16
Drawn: TL	Date: 8 Mar 2011	
Revised:	Date:	

Kerr-McGee Oil & Gas Onshore, LP
WELL PAD – NBU 1022-12P
WELLS – NBU 1022-12P4CS, NBU 1022-12I4CS,
NBU 1022-12P1BS & NBU 1022-12P4BS
Section 12, 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 5.6 miles to a service road to the southwest. Exit right and proceed in a southwesterly direction along the service road approximately 0.2 miles to the proposed access road. Follow the road flags in a northwesterly direction approximately 250 feet to the proposed well location.

Total distance from Vernal, Utah to the proposed well location is approximately 48.2 miles in a southerly direction.

RECEIVED: September 13, 2011

API Well Number: 43047519680000

Scientific Drilling
Rocky Mountain Operations

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

Anadarko Petroleum Corporation

T M

Azimuths to True North
Magnetic North: 11.00°

Magnetic Field
Strength: 52303.5snT
Dip Angle: 65.85°
Date: 08/19/2011
Model: IGRF2010

WELL DETAILS: NBU 1022-12P1BS

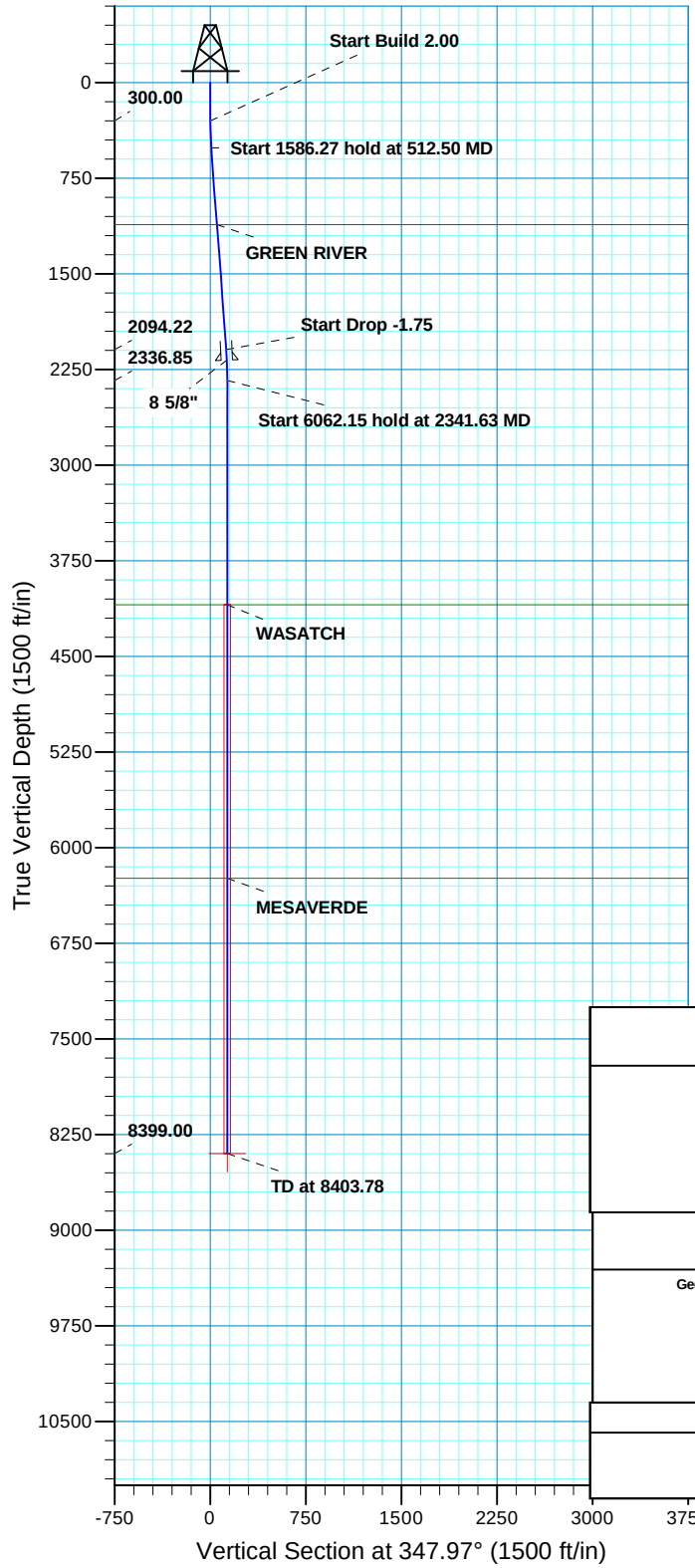
GL 5262 & KB 4
@ 5266.00ft (ASSUMED)

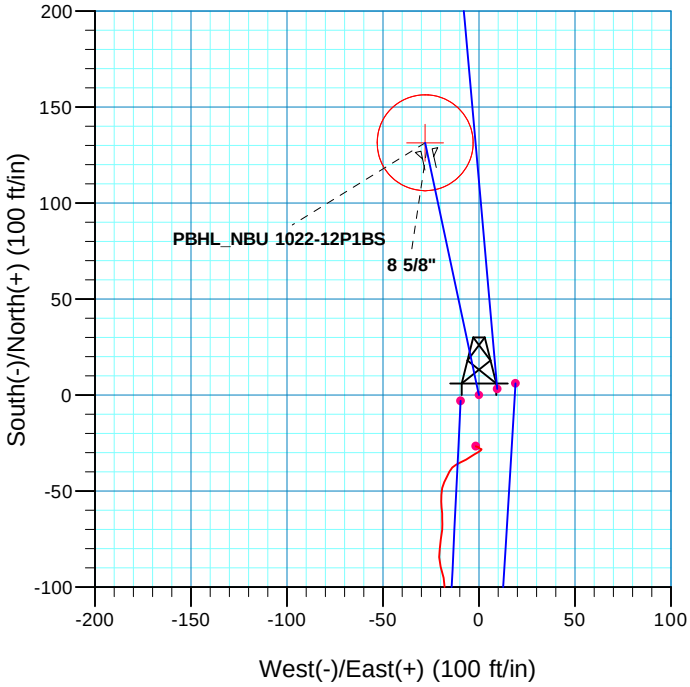
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	14515330.73	2094437.90	39° 57' 33.314 N	109° 22' 47.402 W

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
PBHL	8399.00	131.48	-28.03	14515461.68	2094407.49	39° 57' 34.614 N	109° 22' 47.762 W	Circle (Radius: 25.00

- plan hits target center





SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	
512.50	4.25	347.97	512.31	7.70	-1.64	2.00	347.97	7.88	
2098.77	4.25	347.97	2094.22	122.68	-26.15	0.00	0.00	125.43	
2341.63	0.00	0.00	2336.85	131.48	-28.03	1.75	180.00	134.44	
8403.78	0.00	0.00	8399.00	131.48	-28.03	0.00	0.00	134.44	PBHL_NBU 1022-12P1BS

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 12 T10S R22E
System Datum: Mean Sea Level

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
1113.00	1114.85	GREEN RIVER
4095.00	4099.78	WASATCH
6240.00	6244.78	MESAVERDE

CASING DETAILS

TVD	MD	Name	Size
2177.00	2181.72	8 5/8"	8.625

Plan: PLAN #1 PRELIMINARY (NBU 1022-12P1BS/OH)

Created By: RobertScott Date: 16:36, August 19 2011

Scientific Drilling
Rocky Mountain Operations

US ROCKIES REGION PLANNING

UTAH - UTM (feet), NAD27, Zone 12N
NBU 1022-12P PAD
NBU 1022-12P1BS

OH

Plan: PLAN #1 PRELIMINARY

Standard Planning Report

19 August, 2011

Anadarko Petroleum Corporation

RECEIVED: September 13, 2011

Scientific Drilling
Rocky Mountain Operations

SDI
Planning Report

Anadarko Petroleum Corporation

Database:	EDM5000-RobertS-Local	**Local Co-ordinate Reference:**	Well NBU 1022-12P1BS
Company:	US ROCKIES REGION PLANNING	**TVD Reference:**	GL 5262 & KB 4 @ 5266.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	**MD Reference:**	GL 5262 & KB 4 @ 5266.00ft (ASSUMED)
Site:	NBU 1022-12P PAD	**North Reference:**	True
Well:	NBU 1022-12P1BS	**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 1022-12P PAD, SECTION 12 T10S R22E

Site Position:		**Northing:**	14,515,334.19 usft	**Latitude:**	39° 57' 33.347 N
From:	Lat/Long	**Easting:**	2,094,447.37 usft	**Longitude:**	109° 22' 47.280 W
Position Uncertainty:	0.00 ft	**Slot Radius:**	13.200 in	**Grid Convergence:**	1.04 °

Well NBU 1022-12P1BS, 1109 FSL 461 FEL

Well Position	**+N/-S**	-3.28 ft	**Northing:**	14,515,330.74 usft	**Latitude:**	39° 57' 33.314 N
	+E/-W	-9.53 ft	**Easting:**	2,094,437.90 usft	**Longitude:**	109° 22' 47.402 W
Position Uncertainty		0.00 ft	**Wellhead Elevation:**		**Ground Level:**	5,262.00 ft

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	08/19/11	11.00	65.85	52,304

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	347.97

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	
512.50	4.25	347.97	512.31	7.70	-1.64	2.00	2.00	0.00	347.97	
2,098.77	4.25	347.97	2,094.22	122.68	-26.15	0.00	0.00	0.00	0.00	
2,341.63	0.00	0.00	2,336.85	131.48	-28.03	1.75	-1.75	0.00	180.00	
8,403.78	0.00	0.00	8,399.00	131.48	-28.03	0.00	0.00	0.00	0.00	PBHL_NBU 1022-12F

RECEIVED: September 13, 2011

Scientific Drilling
Rocky Mountain Operations

SDI
Planning Report

Anadarko Petroleum Corporation

Database:	EDM5000-RobertS-Local	**Local Co-ordinate Reference:**	Well NBU 1022-12P1BS
Company:	US ROCKIES REGION PLANNING	**TVD Reference:**	GL 5262 & KB 4 @ 5266.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	**MD Reference:**	GL 5262 & KB 4 @ 5266.00ft (ASSUMED)
Site:	NBU 1022-12P PAD	**North Reference:**	True
Well:	NBU 1022-12P1BS	**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	347.97	399.98	1.71	-0.36	1.75	2.00	2.00	0.00
500.00	4.00	347.97	499.84	6.83	-1.45	6.98	2.00	2.00	0.00
512.50	4.25	347.97	512.31	7.70	-1.64	7.88	2.00	2.00	0.00
Start 1586.27 hold at 512.50 MD									
600.00	4.25	347.97	599.56	14.05	-2.99	14.36	0.00	0.00	0.00
700.00	4.25	347.97	699.29	21.29	-4.54	21.77	0.00	0.00	0.00
800.00	4.25	347.97	799.01	28.54	-6.08	29.18	0.00	0.00	0.00
900.00	4.25	347.97	898.74	35.79	-7.63	36.59	0.00	0.00	0.00
1,000.00	4.25	347.97	998.46	43.04	-9.17	44.01	0.00	0.00	0.00
1,100.00	4.25	347.97	1,098.19	50.29	-10.72	51.42	0.00	0.00	0.00
1,114.85	4.25	347.97	1,113.00	51.36	-10.95	52.52	0.00	0.00	0.00
GREEN RIVER									
1,200.00	4.25	347.97	1,197.91	57.53	-12.26	58.83	0.00	0.00	0.00
1,300.00	4.25	347.97	1,297.64	64.78	-13.81	66.24	0.00	0.00	0.00
1,400.00	4.25	347.97	1,397.36	72.03	-15.36	73.65	0.00	0.00	0.00
1,500.00	4.25	347.97	1,497.09	79.28	-16.90	81.06	0.00	0.00	0.00
1,600.00	4.25	347.97	1,596.81	86.53	-18.45	88.47	0.00	0.00	0.00
1,700.00	4.25	347.97	1,696.54	93.77	-19.99	95.88	0.00	0.00	0.00
1,800.00	4.25	347.97	1,796.26	101.02	-21.54	103.29	0.00	0.00	0.00
1,900.00	4.25	347.97	1,895.99	108.27	-23.08	110.70	0.00	0.00	0.00
2,000.00	4.25	347.97	1,995.71	115.52	-24.63	118.11	0.00	0.00	0.00
2,098.77	4.25	347.97	2,094.22	122.68	-26.15	125.43	0.00	0.00	0.00
Start Drop -1.75									
2,100.00	4.23	347.97	2,095.44	122.77	-26.17	125.52	1.75	-1.75	0.00
2,181.72	2.80	347.97	2,177.00	127.66	-27.21	130.53	1.75	-1.75	0.00
8 5/8"									
2,200.00	2.48	347.97	2,195.26	128.49	-27.39	131.37	1.75	-1.75	0.00
2,300.00	0.73	347.97	2,295.22	131.22	-27.97	134.17	1.75	-1.75	0.00
2,341.63	0.00	0.00	2,336.85	131.48	-28.03	134.44	1.75	-1.75	0.00
Start 6062.15 hold at 2341.63 MD									
2,400.00	0.00	0.00	2,395.22	131.48	-28.03	134.44	0.00	0.00	0.00
2,500.00	0.00	0.00	2,495.22	131.48	-28.03	134.44	0.00	0.00	0.00
2,600.00	0.00	0.00	2,595.22	131.48	-28.03	134.44	0.00	0.00	0.00
2,700.00	0.00	0.00	2,695.22	131.48	-28.03	134.44	0.00	0.00	0.00
2,800.00	0.00	0.00	2,795.22	131.48	-28.03	134.44	0.00	0.00	0.00
2,900.00	0.00	0.00	2,895.22	131.48	-28.03	134.44	0.00	0.00	0.00
3,000.00	0.00	0.00	2,995.22	131.48	-28.03	134.44	0.00	0.00	0.00
3,100.00	0.00	0.00	3,095.22	131.48	-28.03	134.44	0.00	0.00	0.00
3,200.00	0.00	0.00	3,195.22	131.48	-28.03	134.44	0.00	0.00	0.00
3,300.00	0.00	0.00	3,295.22	131.48	-28.03	134.44	0.00	0.00	0.00
3,400.00	0.00	0.00	3,395.22	131.48	-28.03	134.44	0.00	0.00	0.00
3,500.00	0.00	0.00	3,495.22	131.48	-28.03	134.44	0.00	0.00	0.00
3,600.00	0.00	0.00	3,595.22	131.48	-28.03	134.44	0.00	0.00	0.00
3,700.00	0.00	0.00	3,695.22	131.48	-28.03	134.44	0.00	0.00	0.00
3,800.00	0.00	0.00	3,795.22	131.48	-28.03	134.44	0.00	0.00	0.00
3,900.00	0.00	0.00	3,895.22	131.48	-28.03	134.44	0.00	0.00	0.00

Scientific Drilling
Rocky Mountain Operations

SDI
Planning Report

Anadarko Petroleum Corporation

Database:	EDM5000-RobertS-Local	**Local Co-ordinate Reference:**	Well NBU 1022-12P1BS
Company:	US ROCKIES REGION PLANNING	**TVD Reference:**	GL 5262 & KB 4 @ 5266.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	**MD Reference:**	GL 5262 & KB 4 @ 5266.00ft (ASSUMED)
Site:	NBU 1022-12P PAD	**North Reference:**	True
Well:	NBU 1022-12P1BS	**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	3,995.22	131.48	-28.03	134.44	0.00	0.00	0.00
4,099.78	0.00	0.00	4,095.00	131.48	-28.03	134.44	0.00	0.00	0.00
WASATCH									
4,100.00	0.00	0.00	4,095.22	131.48	-28.03	134.44	0.00	0.00	0.00
4,200.00	0.00	0.00	4,195.22	131.48	-28.03	134.44	0.00	0.00	0.00
4,300.00	0.00	0.00	4,295.22	131.48	-28.03	134.44	0.00	0.00	0.00
4,400.00	0.00	0.00	4,395.22	131.48	-28.03	134.44	0.00	0.00	0.00
4,500.00	0.00	0.00	4,495.22	131.48	-28.03	134.44	0.00	0.00	0.00
4,600.00	0.00	0.00	4,595.22	131.48	-28.03	134.44	0.00	0.00	0.00
4,700.00	0.00	0.00	4,695.22	131.48	-28.03	134.44	0.00	0.00	0.00
4,800.00	0.00	0.00	4,795.22	131.48	-28.03	134.44	0.00	0.00	0.00
4,900.00	0.00	0.00	4,895.22	131.48	-28.03	134.44	0.00	0.00	0.00
5,000.00	0.00	0.00	4,995.22	131.48	-28.03	134.44	0.00	0.00	0.00
5,100.00	0.00	0.00	5,095.22	131.48	-28.03	134.44	0.00	0.00	0.00
5,200.00	0.00	0.00	5,195.22	131.48	-28.03	134.44	0.00	0.00	0.00
5,300.00	0.00	0.00	5,295.22	131.48	-28.03	134.44	0.00	0.00	0.00
5,400.00	0.00	0.00	5,395.22	131.48	-28.03	134.44	0.00	0.00	0.00
5,500.00	0.00	0.00	5,495.22	131.48	-28.03	134.44	0.00	0.00	0.00
5,600.00	0.00	0.00	5,595.22	131.48	-28.03	134.44	0.00	0.00	0.00
5,700.00	0.00	0.00	5,695.22	131.48	-28.03	134.44	0.00	0.00	0.00
5,800.00	0.00	0.00	5,795.22	131.48	-28.03	134.44	0.00	0.00	0.00
5,900.00	0.00	0.00	5,895.22	131.48	-28.03	134.44	0.00	0.00	0.00
6,000.00	0.00	0.00	5,995.22	131.48	-28.03	134.44	0.00	0.00	0.00
6,100.00	0.00	0.00	6,095.22	131.48	-28.03	134.44	0.00	0.00	0.00
6,200.00	0.00	0.00	6,195.22	131.48	-28.03	134.44	0.00	0.00	0.00
6,244.78	0.00	0.00	6,240.00	131.48	-28.03	134.44	0.00	0.00	0.00
MESAVERDE									
6,300.00	0.00	0.00	6,295.22	131.48	-28.03	134.44	0.00	0.00	0.00
6,400.00	0.00	0.00	6,395.22	131.48	-28.03	134.44	0.00	0.00	0.00
6,500.00	0.00	0.00	6,495.22	131.48	-28.03	134.44	0.00	0.00	0.00
6,600.00	0.00	0.00	6,595.22	131.48	-28.03	134.44	0.00	0.00	0.00
6,700.00	0.00	0.00	6,695.22	131.48	-28.03	134.44	0.00	0.00	0.00
6,800.00	0.00	0.00	6,795.22	131.48	-28.03	134.44	0.00	0.00	0.00
6,900.00	0.00	0.00	6,895.22	131.48	-28.03	134.44	0.00	0.00	0.00
7,000.00	0.00	0.00	6,995.22	131.48	-28.03	134.44	0.00	0.00	0.00
7,100.00	0.00	0.00	7,095.22	131.48	-28.03	134.44	0.00	0.00	0.00
7,200.00	0.00	0.00	7,195.22	131.48	-28.03	134.44	0.00	0.00	0.00
7,300.00	0.00	0.00	7,295.22	131.48	-28.03	134.44	0.00	0.00	0.00
7,400.00	0.00	0.00	7,395.22	131.48	-28.03	134.44	0.00	0.00	0.00
7,500.00	0.00	0.00	7,495.22	131.48	-28.03	134.44	0.00	0.00	0.00
7,600.00	0.00	0.00	7,595.22	131.48	-28.03	134.44	0.00	0.00	0.00
7,700.00	0.00	0.00	7,695.22	131.48	-28.03	134.44	0.00	0.00	0.00
7,800.00	0.00	0.00	7,795.22	131.48	-28.03	134.44	0.00	0.00	0.00
7,900.00	0.00	0.00	7,895.22	131.48	-28.03	134.44	0.00	0.00	0.00
8,000.00	0.00	0.00	7,995.22	131.48	-28.03	134.44	0.00	0.00	0.00
8,100.00	0.00	0.00	8,095.22	131.48	-28.03	134.44	0.00	0.00	0.00
8,200.00	0.00	0.00	8,195.22	131.48	-28.03	134.44	0.00	0.00	0.00
8,300.00	0.00	0.00	8,295.22	131.48	-28.03	134.44	0.00	0.00	0.00
8,400.00	0.00	0.00	8,395.22	131.48	-28.03	134.44	0.00	0.00	0.00
8,403.78	0.00	0.00	8,399.00	131.48	-28.03	134.44	0.00	0.00	0.00
PBHL_NBU 1022-12P1BS									

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Database:	EDM5000-RobertS-Local	**Local Co-ordinate Reference:**	Well NBU 1022-12P1BS
Company:	US ROCKIES REGION PLANNING	**TVD Reference:**	GL 5262 & KB 4 @ 5266.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	**MD Reference:**	GL 5262 & KB 4 @ 5266.00ft (ASSUMED)
Site:	NBU 1022-12P PAD	**North Reference:**	True
Well:	NBU 1022-12P1BS	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1 PRELIMINARY		

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PBHL_NBU 1022-12P1E - plan hits target center - Circle (radius 25.00)	0.00	0.00	8,399.00	131.48	-28.03	14,515,461.69	2,094,407.49	39° 57' 34.614 N	109° 22' 47.762 W

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)
2,181.72	2,177.00	8 5/8"	8.625	11.000

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,114.85	1,113.00	GREEN RIVER			
4,099.78	4,095.00	WASATCH			
6,244.78	6,240.00	MESAVERDE			

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
300.00	300.00	0.00	0.00	Start Build 2.00
512.50	512.31	7.70	-1.64	Start 1586.27 hold at 512.50 MD
2,098.77	2,094.22	122.68	-26.15	Start Drop -1.75
2,341.63	2,336.85	131.48	-28.03	Start 6062.15 hold at 2341.63 MD
8,403.78	8,399.00	131.48	-28.03	TD at 8403.78

	NBU 1022-12I4CS		
Surface:	1112 FSL / 451 FEL	SESE	Lot
BHL:	1574 FSL / 493 FEL	NESE	Lot
	NBU 1022-12P1BS		
Surface:	1109 FSL / 461 FEL	SESE	Lot
BHL:	1240 FSL / 489 FEL	SESE	Lot
	NBU 1022-12P4BS		
Surface:	1105 FSL / 470 FEL	SESE	Lot
BHL:	580 FSL / 494 FEL	SESE	Lot
	NBU 1022-12P4CS		
Surface:	1115 FSL / 442 FEL	SESE	Lot
BHL:	246 FSL / 491 FEL	SESE	Lot

Pad: NBU 1022-12P PAD
Section 12 T10S R22E
Mineral Lease: UT ST UO 01197-A ST

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

This SUPO contains surface operating procedures for Kerr-McGee Oil & Gas Onshore LP (KMG), a wholly owned subsidiary of Anadarko Petroleum Corporation (APC) pertaining to actions that involve the State of Utah School and Institutional Trust Lands Administration (SITLA) in the development of minerals leased to APC/KMG (including but not limited to, APDs/SULAs/ROEs/ROWs and/or easements.)

See associated Utah Division of Oil, Gas, and Mining (UDOGM) Form 3(s), plats, maps, and other attachments for site-specific information on projects represented herein.

In accordance with Utah Oil & Gas Conservation Rule R649-3-11 pertaining to Directional Drilling, these wells will be directionally drilled. Refer to Topo Map A for directions to the location and Topo Maps A and B for location of access roads within a 2-mile radius.

A. Existing Roads:

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

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

B. Planned Access Roads:

Two new access roads are proposed (see Topo Map B). The ±610' reroutes will more closely follow the proposed gas and liquid pipelines and meet up with the existing access road at the East Section Line. Applicable Uintah County encroachment and/or pipeline crossing permits will be obtained prior to construction/development. No other pipelines will be crossed at this location.

If there are roads that are new or to be reconstructed, they will be located, designed, and maintained to meet the standards of SITLA and other commonly accepted Best Management Practices (BMPs). If a new road/corridor were to cross a water of the United States, KMG will adhere to the requirements of applicable Nationwide or Individual Permits of the Department of Army Corps of Engineers.

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

C. Location of Existing and Proposed Facilities:

This pad will expand the existing pad for the NBU 1022-12P. The NBU 1022-12P well location is a vertical producing well according to Utah Division of Oil, Gas and Mining (UDOGM) records as of September 9, 2011.

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

Production facilities will be installed on the disturbed portion of the well pad and may include bermed components (typically excluding dehy's and/or separators) that contain fluids (i.e. production tanks, produced liquids tanks). The berms will be constructed of compacted subsoil or corrugated metal, impervious, designed to hold 110% of the capacity of the largest tank, and be independent of the back cut. All permanent (on-site six months or longer) above ground structures constructed or installed, including pumping units, will be painted a flat, non-reflective, earth-tone color chosen at the onsite in coordination with SITLA.

Gathering Facilities:

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

The total gas gathering (steel line pipe with fusion bond epoxy coating) pipeline distances from the meter to the tie in point is ±2,165' and the individual segments are broken up as follows:

±430' (0.1 miles) –New 6" buried gas pipeline from the meter to the edge of the pad. Please refer to Topo D2 - Pad and Pipeline Detail.

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±85' (0.02 miles) –New 6” buried gas pipeline from the edge of the pad to the tie-in at the proposed 1022-12P2 Intersection 10" gas pipeline. Please refer to Topo D & D2.

±1,650' (0.3 miles) –New 10” buried gas pipeline from the tie-in at the proposed 1022-12P2 Intersection 10" gas pipeline to the tie-in at the proposed 1022-12I Intersection 12" gas pipeline. Please refer to Topo D & D2.

The total liquid gathering pipeline distance from the separator to the tie in point is ±2,165’and the individual segments are broken up as follows:

±430' (0.1 miles) –New 6” buried liquid pipeline from the separator to the edge of the pad. Please refer to Topo D2 - Pad and Pipeline Detail.

±85' (0.02 miles) –New 6” buried liquid pipeline from the edge of the pad to the tie-in at the proposed 1022-12P2 Intersection 6" liquid pipeline. Please refer to Topo D & D2.

±1,650' (0.3 miles) –New 6” buried liquid pipeline from the tie-in at the proposed 1022-12P2 Intersection 6" liquid pipeline to the tie-in at the proposed 1022-12I Intersection 6" liquid pipeline. Please refer to Topo D & D2.

The liquid gathering lines will be made of polyethylene or a composite polyethylene/steel or polyethylene/fiberglass that is not subject to internal or external pipe corrosion. The content of the produced fluids to be transferred by the liquid gathering system will be approximately 92% produced water and 8% condensate. Trunk line valve connections for the water gathering system will be below ground but accessible from the surface in order to prevent freezing during winter time.

The proposed pipelines will be buried and will include gas gathering and liquid gathering pipelines in the same trench. Where the pipeline is adjacent to the road or well pad, the road and/or well pad will be utilized for construction activities and staging. KMG requests a permanent 30' right-of-way adjacent to the road for life-of-project for maintenance, repairs, and/or upgrades, no additional right-of-way will be needed beyond the 30’. Where the pipeline is not adjacent to the road or well pad, KMG requests a temporary 45’ construction right-of-way 30' permanent right-of-way.

The proposed trench width for the pipeline would range from 18-48 inches and will be excavated to a depth of 48 to 60 inches of normal soil cover or 24 inches of cover in consolidated rock. During construction blasting may occur along the proposed right-of-way where trenching equipment cannot cut into the bedrock. Large debris and rocks removed from the earth during trenching and blasting that could not be returned to the trench would be distributed evenly and naturally in the project area. The proposed pipelines will be pressure tested pneumatically (depending on size) or with fluids (either fresh or produced). If fluids are used, there will be no discharge to the surface.

Pipeline signs will be installed along the right-of-way to indicate the pipeline proximity and ownership, as well as to provide emergency contact phone numbers. Above ground valves, T's, and/or cathodic protection will be installed at various locations for connection, corrosion prevention and/or for safety purposes.

D. Location and Type of Water Supply:

Water for drilling purposes will be obtained from one of the following sources:

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- Dalbo Inc.'s underground well located in Ouray, Utah, Sec. 32 T4S R3E, Water User Claim number 43-8496, application number 53617.
- Price Water Pumping Inc. Green River and White River, various sources, Water Right Number 49-1659, application number: a35745.

Water will be hauled to location over the roads marked on Maps A and B.

No water well is to be drilled on this lease.

E. Source of Construction Materials:

Construction operations will typically be completed with native materials found on location. If needed, construction materials that must be imported to the site (mineral material aggregate, soils or materials suitable for fill/surfacing) will be obtained from a nearby permitted source and described in subsequent Sundry requests. No construction materials will be removed from State lands without prior approval from SITLA.

F. Methods for Handling Waste Materials:

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

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

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

Pits will be constructed to minimize the accumulation of surface runoff. Should fluid hydrocarbons be encountered during drilling, completions or well testing, product will either be contained in test tanks on the well site or evacuated

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by vacuum trucks and transported to an approved disposal/sales facility. Should petroleum hydrocarbons unexpectedly be released into a pit, they will be removed as soon as practical but in no case will they remain longer than 72 hours unless an alternate is approved by SITLA. Should timely removal prove infeasible, the pit will be netted with mesh no larger than 1 inch until such time as hydrocarbons can be removed. Hydrocarbon removal will also take place prior to the closure of the pit, unless authorization is provided for disposal via alternative pit closure methods (e.g. solidification.)

The reserve and/or fracture stimulation pit will be lined with a synthetic material 20 mil or thicker, The liner will be installed over smooth fill subgrade that is free of pockets, loose rocks, or other materials (i.e. sand, sifted dirt, bentonite, straw, etc.) that could damage the liner. Any additional pits necessary for subsequent operations, such as temporary flare or workover pits, will be contained within the originally approved well pad and disturbance boundaries. Such temporary pits will be backfilled and reclaimed within 180 days of completion of work at a well location.

For the protection of livestock and wildlife, all open pits and cellars will be fenced/covered to prevent wildlife or livestock entry. Total height of pit fencing will be at least 42 inches and corner posts will be cemented and/or braced in such a manner as to keep the fence tight at all times. Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any 2 fence posts shall be no greater than 16 feet.

Pits containing drilling cuttings, mud, and/or completions fluids will be allowed to dry. Any free fluids remaining after after six (6) months from reaching total depth, date of completion, and/or determination of inactivity will be removed (as weather conditions allow) to an approved site and the pit reclaimed. Additional drying methods may include fly-ash solidification or sprinkler evaporation. Installation and operation of any sprinklers, pumps, and equipment will ensure that water spray or mist does not drift. Reserve pit liners will be cut off or folded as near to the mud surface as possible and as safety considerations allow and buried on location.

No garbage or non-exempt substances as defined by Resource Conservation and Recovery Act (RCRA) subtitle C will be placed in the reserve pit. All refuse generated during construction, drilling, completion, and well testing activities will be contained in an enclosed receptacle, removed from the drill locations promptly, and transported to an approved disposal facility.

Portable, self-contained chemical toilets and/or sewage processing facilities will be provided for human waste disposal. Upon completion of operations, or as required, the toilet holding tanks will be pumped and the contents disposed of in an approved sewage disposal facility. All applicable regulations pertaining to disposal of human and solid waste will be observed.

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

Materials Management

Hazardous materials above reportable quantities will not be produced by drilling or completing proposed wells or constructing the pipelines/facilities. The term “hazardous materials” as used here means: (1) any substance, pollutant, or containment listed as hazardous under the Comprehensive Environmental Response, Compensation, and Liability Act

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(CERCLA) of 1980, as amended 42 U.S.C. 9601 et seq., and the regulations issued under CERCLA; and (2) any hazardous waste as defined in RCRA of 1976, as amended. In addition, no extremely hazardous substance, as defined in 40 CFR 355, in threshold planning quantities, would be used, produced, stored, transported, or disposed of while producing any well.

Chemicals subject to reporting under Title III of the Superfund Amendments and Reauthorization Act (SARA) in quantities of 10,000 pounds or more may be produced and/or stored at production facilities and may be kept in limited quantities on drilling sites and well locations for short periods of time during drilling or completion activities.

G. Ancillary Facilities:

None are anticipated.

H. Well Site Layout (see Well Pad Design Summary):

The location, orientation and aerial extent of each drill pad; reserve/completion/flare pit; access road ingress/egress points, drilling rig, dikes/ditches, existing wells/infrastructure; proposed cuts and fills; and topsoil and spoil material stockpile locations are depicted on the exhibits for each project, where applicable. Site-specific conditions may require slight deviation in actual equipment and facility layout; however, the area of disturbance, as described in the survey, will not be exceeded.

Coordinates are provided in the National Spatial Reference System, North American Datum, 1927 (NAD27) or latest edition. Distances are depicted on each plat to the nearest two adjacent section lines.

I. Plans for Reclamation of the Surface:

Surface reclamation will be undertaken in two phases: interim and final. Interim reclamation is conducted following well completion and extends through the period of production. This reclamation is for the area of the well pad that is not required for production activities. Final reclamation is conducted following well plugging/conversion and/or facility abandonment processes.

Reclamation activities in both phases may include but is not limited to the re-contouring or re-configuration of topographic surfaces, restoration of drainage systems, segregation of spoils materials, minimizing surface disturbance, re-evaluating backfill requirements, pit closure, topsoil redistribution, soil treatments, seeding and weed control.

Interim Reclamation

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

Interim re-contouring involves bringing all construction material from cuts and fills back onto the well pad and site and reestablishing the natural contours where desirable and practical. Fill and stockpiled spoils no longer necessary to the operation will be spread on the cut slopes and covered with stockpiled topsoil. All stockpiled top soils will be used for

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interim reclamation where practical to maintain soil viability. Where possible, the land surface will be left “rough” after re-contouring to ensure that the maximum surface area will be available to support the reestablishment of vegetative cover.

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

Final Reclamation

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

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

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

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

Seeding and Measures Common to Interim and Final Reclamation

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

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

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

J. Surface/Mineral Ownership:

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

L. Other Information:

None

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

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

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

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

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

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

Bond coverage for State lease activities is provided by State Surety Bond 22013542, and for applicable Federal lease activities and pursuant to 43 CFR 3104, by Bureau of Land Management Nationwide Bond WYB000291.

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

Gina T.Becker

September 9, 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 7, 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 1022-12P1BS
10S-22E-Sec. 12
SESE/SESE
Surface: 1109' FSL, 461' FEL
Bottom Hole: 1240' FSL, 489' 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 1022-12P1BS 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.

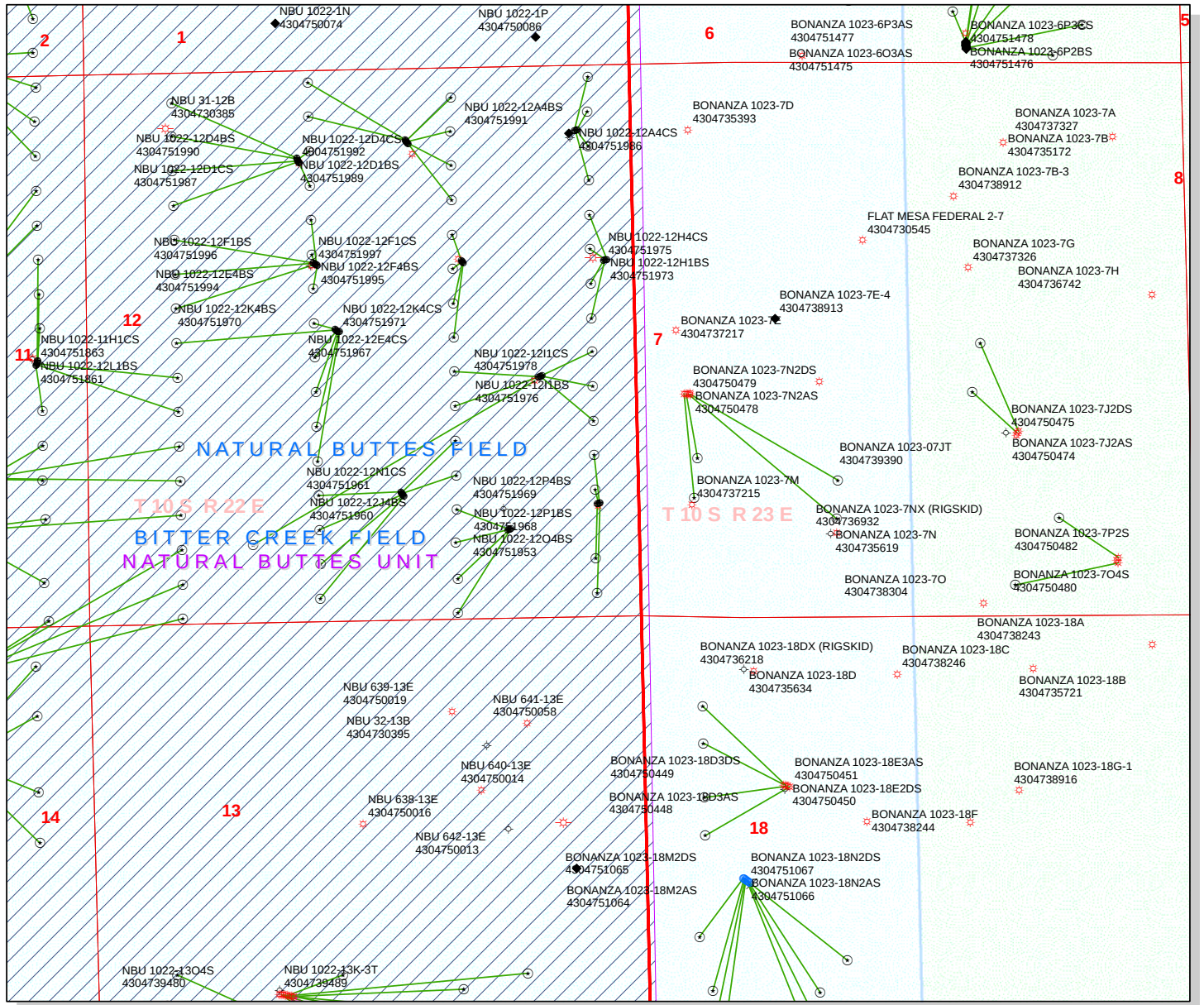
Sincerely,

KERR-MCGEE OIL & GAS ONSHORE LP

Joseph D. Johnson
Landman

RECEIVED: September 13, 2011

API Well Number: 43047519680000



API Number: 4304751968

Well Name: NBU 1022-12P1BS

Township T1.0 . Range R2.2 . Section 12

Meridian: SLBM

Operator: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Map Prepared:
Map Produced by Diana Mason

Units
STATUS
ACTIVE
EXPLORATORY
GAS STORAGE
NF PP OIL
NF SECONDARY
PI OIL
PP GAS
PP GEOTHERML
PP OIL
SECONDARY
TERMINATED

Fields
STATUS
Unknown
ABANDONED
ACTIVE
COMBINED
INACTIVE
STORAGE
TERMINATED
Sections
Township

Wells Query
Status
APD - Aproved Permit
DRL - Spuded (Drilling Commenced)
GIW - Gas Injection
GS - Gas Storage
LA - Location Abandoned
LOC - New Location
OPS - Operation Suspended
PA - Plugged Abandoned
PGW - Producing Gas Well
POW - Producing Oil Well
RET - Returned APD
SGW - Shut-in Gas Well
SOW - Shut-in Oil Well
TA - Temp. Abandoned
TW - Test Well
WDW - Water Disposal
WIW - Water Injection Well
WSW - Water Supply Well

1:11,836

RECEIVED: September 15, 2011

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)

September 19, 2011

Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2011 Plan of Development Natural Buttes Unit
Uintah County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2011 within the Natural Buttes Unit, Uintah County, Utah.

API #	WELL NAME	LOCATION
(Proposed PZ WASATCH-MESA VERDE)		
NBU 1022-12H PAD		
43-047-51941	NBU 1022-12H4BS	Sec 12 T10S R22E 1846 FNL 0361 FEL BHL Sec 12 T10S R22E 2071 FNL 0491 FEL
43-047-51942	NBU 1022-12H1CS	Sec 12 T10S R22E 1843 FNL 0341 FEL BHL Sec 12 T10S R22E 1740 FNL 0491 FEL
43-047-51973	NBU 1022-12H1BS	Sec 12 T10S R22E 1842 FNL 0331 FEL BHL Sec 12 T10S R22E 1408 FNL 0491 FEL
43-047-51975	NBU 1022-12H4CS	Sec 12 T10S R22E 1845 FNL 0351 FEL BHL Sec 12 T10S R22E 2402 FNL 0492 FEL
NBU 1022-12O PAD		
43-047-51943	NBU 1022-12N4BS	Sec 12 T10S R22E 1224 FSL 2329 FEL BHL Sec 12 T10S R22E 0580 FSL 2150 FWL
43-047-51945	NBU 1022-12N4CS	Sec 12 T10S R22E 1216 FSL 2323 FEL BHL Sec 12 T10S R22E 0251 FSL 2141 FWL
43-047-51956	NBU 1022-12J4CS	Sec 12 T10S R22E 1240 FSL 2341 FEL BHL Sec 12 T10S R22E 1409 FSL 1817 FEL
43-047-51959	NBU 1022-12N1BS	Sec 12 T10S R22E 1257 FSL 2352 FEL BHL Sec 12 T10S R22E 1242 FSL 2147 FWL
43-047-51960	NBU 1022-12J4BS	Sec 12 T10S R22E 1249 FSL 2346 FEL BHL Sec 12 T10S R22E 1740 FSL 1816 FEL

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API #	WELL NAME	LOCATION
(Proposed PZ WASATCH-MESA VERDE)		
43-047-51961	NBU 1022-12N1CS	Sec 12 T10S R22E 1232 FSL 2335 FEL
		BHL Sec 12 T10S R22E 0911 FSL 2149 FWL
NBU 1022-12B PAD		
43-047-51944	NBU 1022-12B1BS	Sec 12 T10S R22E 0668 FNL 2232 FEL
		BHL Sec 12 T10S R22E 0259 FNL 1797 FEL
43-047-51979	NBU 1022-12C1BS	Sec 12 T10S R22E 0651 FNL 2244 FEL
		BHL Sec 12 T10S R22E 0089 FNL 2138 FWL
43-047-51980	NBU 1022-12B1CS	Sec 12 T10S R22E 0676 FNL 2227 FEL
		BHL Sec 12 T10S R22E 0579 FNL 1806 FEL
43-047-51981	NBU 1022-12C1CS	Sec 12 T10S R22E 0660 FNL 2238 FEL
		BHL Sec 12 T10S R22E 0414 FNL 2133 FWL
43-047-51982	NBU 1022-12B4BS	Sec 12 T10S R22E 0684 FNL 2221 FEL
		BHL Sec 12 T10S R22E 0910 FNL 1807 FEL
43-047-51983	NBU 1022-12B4CS	Sec 12 T10S R22E 0692 FNL 2215 FEL
		BHL Sec 12 T10S R22E 1241 FNL 1808 FEL
NBU 1022-12P PAD		
43-047-51947	NBU 1022-12P4CS	Sec 12 T10S R22E 1115 FSL 0442 FEL
		BHL Sec 12 T10S R22E 0246 FSL 0491 FEL
43-047-51962	NBU 1022-12I4CS	Sec 12 T10S R22E 1112 FSL 0451 FEL
		BHL Sec 12 T10S R22E 1574 FSL 0493 FEL
43-047-51968	NBU 1022-12P1BS	Sec 12 T10S R22E 1109 FSL 0461 FEL
		BHL Sec 12 T10S R22E 1240 FSL 0489 FEL
43-047-51969	NBU 1022-12P4BS	Sec 12 T10S R22E 1105 FSL 0470 FEL
		BHL Sec 12 T10S R22E 0580 FSL 0494 FEL
NBU 1022-12P2 PAD		
43-047-51949	NBU 1022-12O1BS	Sec 12 T10S R22E 0877 FSL 1322 FEL
		BHL Sec 12 T10S R22E 1077 FSL 1818 FEL
43-047-51950	NBU 1022-12O1CS	Sec 12 T10S R22E 0873 FSL 1331 FEL
		BHL Sec 12 T10S R22E 0761 FSL 1834 FEL
43-047-51953	NBU 1022-12O4BS	Sec 12 T10S R22E 0881 FSL 1313 FEL
		BHL Sec 12 T10S R22E 0415 FSL 1820 FEL
43-047-51954	NBU 1022-12O4CS	Sec 12 T10S R22E 0885 FSL 1304 FEL
		BHL Sec 12 T10S R22E 0082 FSL 1828 FEL
NBU 1022-12A PAD		
43-047-51951	NBU 1022-12A1BS	Sec 12 T10S R22E 0598 FNL 0621 FEL
		BHL Sec 12 T10S R22E 0081 FNL 0481 FEL
43-047-51952	NBU 1022-12A1CS	Sec 12 T10S R22E 0591 FNL 0592 FEL
		BHL Sec 12 T10S R22E 0414 FNL 0490 FEL

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API #	WELL NAME	LOCATION
(Proposed PZ WASATCH-MESA VERDE)		
43-047-51986	NBU 1022-12A4CS	Sec 12 T10S R22E 0596 FNL 0611 FEL
		BHL Sec 12 T10S R22E 1077 FNL 0491 FEL
43-047-51991	NBU 1022-12A4BS	Sec 12 T10S R22E 0593 FNL 0601 FEL
		BHL Sec 12 T10S R22E 0746 FNL 0490 FEL
NBU 1022-12I PAD		
43-047-51955	NBU 1022-12J1CS	Sec 12 T10S R22E 2333 FSL 1011 FEL
		BHL Sec 12 T10S R22E 2071 FSL 1815 FEL
43-047-51957	NBU 1022-12J1BS	Sec 12 T10S R22E 2337 FSL 1002 FEL
		BHL Sec 12 T10S R22E 2402 FSL 1814 FEL
43-047-51958	NBU 1022-12I4BS	Sec 12 T10S R22E 2341 FSL 0993 FEL
		BHL Sec 12 T10S R22E 1905 FSL 0493 FEL
43-047-51976	NBU 1022-12I1BS	Sec 12 T10S R22E 2350 FSL 0974 FEL
		BHL Sec 12 T10S R22E 2568 FSL 0492 FEL
43-047-51978	NBU 1022-12I1CS	Sec 12 T10S R22E 2345 FSL 0984 FEL
		BHL Sec 12 T10S R22E 2237 FSL 0492 FEL
NBU 1022-12G PAD		
43-047-51963	NBU 1022-12G1CS	Sec 12 T10S R22E 1833 FNL 1721 FEL
		BHL Sec 12 T10S R22E 1904 FNL 1810 FEL
43-047-51972	NBU 1022-12G4BS	Sec 12 T10S R22E 1841 FNL 1715 FEL
		BHL Sec 12 T10S R22E 2235 FNL 1812 FEL
43-047-51974	NBU 1022-12G1BS	Sec 12 T10S R22E 1826 FNL 1727 FEL
		BHL Sec 12 T10S R22E 1572 FNL 1809 FEL
43-047-51977	NBU 1022-12G4CS	Sec 12 T10S R22E 1849 FNL 1709 FEL
		BHL Sec 12 T10S R22E 2566 FNL 1813 FEL
NBU 1022-12F4 PAD		
43-047-51964	NBU 1022-12F4CS	Sec 12 T10S R22E 2462 FNL 2342 FWL
		BHL Sec 12 T10S R22E 2401 FNL 2141 FWL
43-047-51965	NBU 1022-12K1BS	Sec 12 T10S R22E 2473 FNL 2359 FWL
		BHL Sec 12 T10S R22E 2567 FSL 2142 FWL
43-047-51966	NBU 1022-12K1CS	Sec 12 T10S R22E 2479 FNL 2367 FWL
		BHL Sec 12 T10S R22E 2236 FSL 2144 FWL
43-047-51967	NBU 1022-12E4CS	Sec 12 T10S R22E 2467 FNL 2350 FWL
		BHL Sec 12 T10S R22E 2565 FNL 0822 FWL
43-047-51970	NBU 1022-12K4BS	Sec 12 T10S R22E 2484 FNL 2375 FWL
		BHL Sec 12 T10S R22E 1904 FSL 2145 FWL
43-047-51971	NBU 1022-12K4CS	Sec 12 T10S R22E 2490 FNL 2384 FWL
		BHL Sec 12 T10S R22E 1573 FSL 2146 FWL

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API #	WELL NAME	LOCATION
(Proposed PZ WASATCH-MESA VERDE)		
NBU 1022-12CPAD		
43-047-51984	NBU 1022-12C4BS	Sec 12 T10S R22E 0827 FNL 2020 FWL
		BHL Sec 12 T10S R22E 0745 FNL 2134 FWL
43-047-51985	NBU 1022-12C4CS	Sec 12 T10S R22E 0855 FNL 2031 FWL
		BHL Sec 12 T10S R22E 1076 FNL 2135 FWL
43-047-51987	NBU 1022-12D1CS	Sec 12 T10S R22E 0818 FNL 2016 FWL
		BHL Sec 12 T10S R22E 0579 FNL 0819 FWL
43-047-51989	NBU 1022-12D1BS	Sec 12 T10S R22E 0809 FNL 2013 FWL
		BHL Sec 12 T10S R22E 0260 FNL 0823 FWL
43-047-51990	NBU 1022-12D4BS	Sec 12 T10S R22E 0837 FNL 2024 FWL
		BHL Sec 12 T10S R22E 0910 FNL 0819 FWL
43-047-51992	NBU 1022-12D4CS	Sec 12 T10S R22E 0846 FNL 2027 FWL
		BHL Sec 12 T10S R22E 1241 FNL 0820 FWL
NBU 1022-12FPAD		
43-047-51988	NBU 1022-12E1BS	Sec 12 T10S R22E 1818 FNL 2146 FWL
		BHL Sec 12 T10S R22E 1572 FNL 0820 FWL
43-047-51993	NBU 1022-12E1CS	Sec 12 T10S R22E 1824 FNL 2154 FWL
		BHL Sec 12 T10S R22E 1903 FNL 0821 FWL
43-047-51994	NBU 1022-12E4BS	Sec 12 T10S R22E 1835 FNL 2170 FWL
		BHL Sec 12 T10S R22E 2234 FNL 0821 FWL
43-047-51995	NBU 1022-12F4BS	Sec 12 T10S R22E 1847 FNL 2187 FWL
		BHL Sec 12 T10S R22E 2070 FNL 2140 FWL
43-047-51996	NBU 1022-12F1BS	Sec 12 T10S R22E 1841 FNL 2179 FWL
		BHL Sec 12 T10S R22E 1407 FNL 2137 FWL
43-047-51997	NBU 1022-12F1CS	Sec 12 T10S R22E 1830 FNL 2162 FWL
		BHL Sec 12 T10S R22E 1739 FNL 2138 FWL

Michael L. Coulthard

Digitally signed by Michael L. Coulthard
DN: cn=Michael L. Coulthard, o=Bureau of Land Management, ou=Branch of Minerals, email=Michael_Coulthard@blm.gov, c=US
Date: 2011.09.19 14:47:24 -06'00'

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

MCoulthard:mc:9-19-11

RECEIVED: September 20, 2011

From: Diana Mason
To:
Subject: Fwd: Kerr McGee APD approvals

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

NBU 1022-12A1BS (4304751951)
NBU 1022-12A1CS (4304751952)
NBU 1022-12A4CS (4304751986
)NBU 1022-12A4BS (4304751991)
NBU 1022-12J1CS (4304751955)
NBU 1022-12J1BS (4304751957)
NBU 1022-12I4BS (4304751958)
NBU 1022-12I1BS (4304751976)
NBU 1022-12I1CS (4304751978)
NBU 1022-12B1BS (4304751944
)NBU 1022-12C1BS (4304751979)
NBU 1022-12B1CS (4304751980)
)NBU 1022-12C1CS (4304751981)
NBU 1022-12B4BS (4304751982)
NBU 1022-12B4CS (4304751983
)NBU 1022-12H4BS (4304751941)
NBU 1022-12H1CS (4304751942)
NBU 1022-12H1BS (4304751973)
NBU 1022-12H4CS (4304751975)
NBU 1022-12F4CS (4304751964)
NBU 1022-12K1BS (4304751965)
NBU 1022-12K1CS (4304751966)
NBU 1022-12E4CS (4304751967)
NBU 1022-12K4BS (4304751970)
NBU 1022-12K4CS (4304751971)
NBU 1022-12O1BS (4304751949)
NBU 1022-12O1CS (4304751950)
NBU 1022-12O4BS (4304751953)
NBU 1022-12O4CS (4304751954)
NBU 1022-12P4CS (4304751947)
NBU 1022-12I4CS (4304751962)
NBU 1022-12P1BS (4304751968)
NBU 1022-12P4BS (4304751969)
NBU 1022-12G1CS (4304751963)
NBU 1022-12G4BS (4304751972)
NBU 1022-12G1BS (4304751974)
NBU 1022-12G4CS (4304751977)
NBU 1022-12N4BS (4304751943)
NBU 1022-12N4CS (4304751945)
NBU 1022-12J4CS (4304751956)
NBU 1022-12N1BS (4304751959)
NBU 1022-12J4BS (4304751960)
NBU 1022-12N1CS (4304751961)

-Jim Davis

RECEIVED: November 08, 2011

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

RECEIVED: **November 08, 2011**

API Well Number: 43047519680000

BOPE REVIEW KERR-MCGEE OIL & GAS ONSHORE, L.P. NBU 1022-12P1BS 43047519680000

Well Name	KERR-MCGEE OIL & GAS ONSHORE, L.P. NBU 1022-12P1B			
String	Surf	Prod		
Casing Size(")	8.625	4.500		
Setting Depth (TVD)	2175	8399		
Previous Shoe Setting Depth (TVD)	40	2175		
Max Mud Weight (ppg)	8.3	12.5		
BOPE Proposed (psi)	500	5000		
Casing Internal Yield (psi)	3390	7780		
Operators Max Anticipated Pressure (psi)	5375	12.3		

Calculations	Surf String	8.625	"	
Max BHP (psi)	.052*Setting Depth*MW=	939		
			BOPE Adequate For Drilling And Setting Casing at Depth?	
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	678	NO	air drill
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	461	YES	OK
			*Can Full Expected Pressure Be Held At Previous Shoe?	
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	469	NO	Reasonable for area
Required Casing/BOPE Test Pressure=		2175	psi	
*Max Pressure Allowed @ Previous Casing Shoe=		40	psi *Assumes 1psi/ft frac gradient	

Calculations	Prod String	4.500	"	
Max BHP (psi)	.052*Setting Depth*MW=	5459		
			BOPE Adequate For Drilling And Setting Casing at Depth?	
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	4451	YES	
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	3611	YES	OK
			*Can Full Expected Pressure Be Held At Previous Shoe?	
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	4090	NO	Reasonable
Required Casing/BOPE Test Pressure=		5000	psi	
*Max Pressure Allowed @ Previous Casing Shoe=		2175	psi *Assumes 1psi/ft frac gradient	

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

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

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***Max Pressure Allowed @ Previous Casing Shoe=**		psi *Assumes 1psi/ft frac gradient

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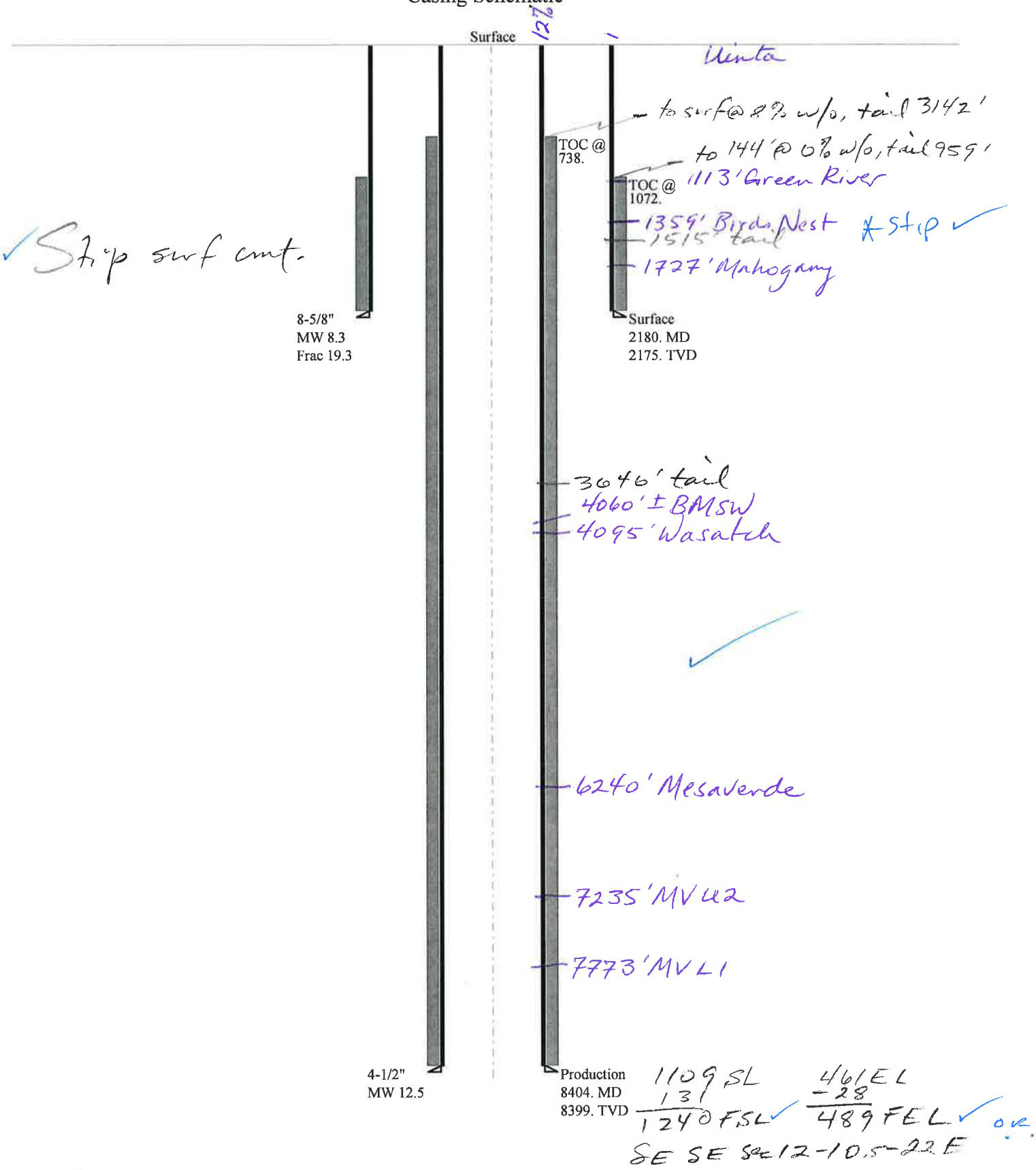
43047519680000 NBU 1022-12P1BS

Casing Schematic



Well name:	**43047519680000 NBU 1022-12P1BS**
Operator:	**KERR-MCGEE OIL & GAS ONSHORE, L.P.**
String type:	Surface
Project ID:	43-047-51968
Location:	UINTAH COUNTY

Design parameters:

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

Burst
Max anticipated surface pressure: 1,918 psi
Internal gradient: 0.120 psi/ft
Calculated BHP 2,179 psi

No backup mud specified.

Minimum design factors:

Collapse:
Design factor 1.125

Burst:
Design factor 1.00

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

Tension is based on air weight.
Neutral point: 1,912 ft

Environment:
H2S considered? No
Surface temperature: 74 °F
Bottom hole temperature: 104 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 100 ft

Cement top: 1,072 ft

Directional Info - Build & Drop
Kick-off point 300 ft
Departure at shoe: 130 ft
Maximum dogleg: 2 °/100ft
Inclination at shoe: 2.83 °

Re subsequent strings:
Next setting depth: 8,404 ft
Next mud weight: 12.500 ppg
Next setting BHP: 5,457 psi
Fracture mud wt: 19.250 ppg
Fracture depth: 2,180 ft
Injection pressure: 2,180 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost ($)
1	2180	8.625	28.00	I-55	LT&C	2175	2180	7.892	86328

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	941	1848	1.963	2179	3390	1.56	60.9	348	5.71 J

Prepared by: Helen Sadik-Macdonald, Div of Oil,Gas & Mining
Phone: 801 538-5357
FAX: 801-359-3940
Date: November 23,2011
Salt Lake City, Utah

Remarks:
Collapse is based on a vertical depth of 2175 ft, a mud weight of 8.33 ppg The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.
Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

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

Well name:	**43047519680000 NBU 1022-12P1BS**
Operator:	**KERR-MCGEE OIL & GAS ONSHORE, L.P.**
String type:	Production
Project ID:	43-047-51968
Location:	UINTAH COUNTY

Design parameters:

Collapse
Mud weight: 12.500 ppg
Design is based on evacuated pipe.

Burst
Max anticipated surface pressure: 3,606 psi
Internal gradient: 0.220 psi/ft
Calculated BHP 5,454 psi

No backup mud specified.

Minimum design factors:

Collapse:
Design factor 1.125

Burst:
Design factor 1.00

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

Tension is based on air weight.
Neutral point: 6,834 ft

Environment:
H2S considered? No
Surface temperature: 74 °F
Bottom hole temperature: 192 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 100 ft

Cement top: 738 ft

Directional Info - Build & Drop
Kick-off point 300 ft
Departure at shoe: 134 ft
Maximum dogleg: 2 °/100ft
Inclination at shoe: 0 °

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost ($)
1	8404	4.5	11.60	I-80	LT&C	8399	8404	3.875	110931

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	5454	6360	1.166	5454	7780	1.43	97.4	212	2.18 J

Prepared by: Helen Sadik-Macdonald, Div of Oil,Gas & Mining
Phone: 801 538-5357
FAX: 801-359-3940
Date: November 23,2011
Salt Lake City, Utah

Remarks:
Collapse is based on a vertical depth of 8399 ft, a mud weight of 12.5 ppg The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.
Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

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

ON-SITE PREDRILL EVALUATION
Utah Division of Oil, Gas and Mining

Operator	KERR-MCGEE OIL & GAS ONSHORE, L.P.				
Well Name	NBU 1022-12P1BS				
API Number	43047519680000	**APD No**	4625	**Field/Unit**	NATURAL BUTTES
Location: 1/4,1/4	SESE **Sec** 12 **Tw** 10.0S **Rng** 22.0E 1109 FSL 461 FEL				
GPS Coord (UTM)	638390 4424283	**Surface Owner**			

Participants

Andy Lytle, Sheila Wopsock, Charles Chase, Grizz Oleen, Jaime Scharnowski, Doyle Holmes, (Kerr McGee). John Slaugh, Mitch Batty, (Timberline). Jim Davis (SITLA). Ben Williams (DWR). David Hackford, (DOGM).

Regional/Local Setting & Topography

The general area is in the southeast portion of the Natural Buttes Unit. Within this area is the White River and rugged drainages that drain into it. Topography is varied and frequently dissected by short draws or washes, which become overly steep as they approach the White River breaks or rim. Distance to the White River is 3900'. The side drainages are dry except for ephemeral flows. No seeps or springs exist in the area. An occasional pond has been constructed to supply water for livestock and antelope. Vernal, Utah is approximately 48.2 miles to the northwest. Access from Vernal is by following Utah State, Uintah County and oilfield development roads. Three wells, in addition to this one will be directionally drilled from this pad. (For a total of four new wells). There is one existing well on this pad. (The NBU 1022-12P). At this time, the decision rather to PA or TA this well has not been made. This proposed location takes in an existing location, and very little new construction will be necessary except for digging the reserve pit. The existing access road will be re-routed for 250 feet. The location runs in an east-west direction along the top of a flat topped ridge. This ridge breaks off sharply into rugged secondary canyons on the southwest, northwest and west sides. New construction will consist of approx. 50 feet on all sides of the existing pad, and an additional 50 feet on the east side for reserve pit and excess cut stockpile. No drainage concerns exist, and no diversions will be needed. The pad as modified should be stable and should be a suitable location for five wells, and is on the best site available in the immediate area.

Surface Use Plan

Current Surface Use
Grazing
Wildlfe Habitat
Existing Well Pad

New Road Miles	**Well Pad**	**Src Const Material**	**Surface Formation**
0.05	**Width** 352 **Length** 425	Onsite	UNTA

Ancillary Facilities N

Waste Management Plan Adequate? Y

Environmental Parameters

Affected Floodplains and/or Wetlands N

Flora / Fauna

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

Sheep, antelope, coyote, raptors, small mammals and birds.

Soil Type and Characteristics

Rocky sandy clay loam.

Erosion Issues N

Sedimentation Issues N

Site Stability Issues N

Drainage Diverson Required? N

Berm Required? N

Erosion Sedimentation Control Required? N

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

Reserve Pit

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

Characteristics / Requirements

The reserve pit is planned in an area of cut on the east side of the location. Dimensions are 120’ x 260’ x 12’ deep with two feet of freeboard. Kerr McGee agreed to line this pit with a 16 mil synthetic liner and a layer of felt sub-liner.

Closed Loop Mud Required? N **Liner Required?** Y **Liner Thickness** 16 **Pit Underlayment Required?** Y

Other Observations / Comments

David Hackford	10/12/2011
Evaluator	**Date / Time**

Application for Permit to Drill
Statement of Basis

APD No	API WellNo	Status	Well Type	Surf Owner	CBM
4625	43047519680000	SITLA	GW	S	No
Operator	KERR-MCGEE OIL & GAS ONSHORE, L.P.		**Surface Owner-APD**		
Well Name	NBU 1022-12P1BS		**Unit**	NATURAL BUTTES	
Field	NATURAL BUTTES		**Type of Work**	DRILL	
Location	SESE 12 10S 22E S 1109 FSL 461 FEL		GPS Coord (UTM)	638320E 4424489N	

Geologic Statement of Basis

Kerr McGee proposes to set 2,180’ of surface casing at this location. The depth to the base of the moderately saline water at this location is estimated to be at a depth of 4,060'. A search of Division of Water Rights records shows no water wells within a 10,000 foot radius of the center of Section 12. The surface formation at this site is the Uinta Formation. The Uinta Formation is made up of interbedded shales and sandstones. The sandstones are mostly lenticular and discontinuous and should not be a significant source of useable ground water. Production casing cement should be brought up above the base of the moderately saline ground water to isolate it from fresher waters uphole.

Brad Hill	10/19/2011
APD Evaluator	**Date / Time**

Surface Statement of Basis

The general area is in the southeast portion of the Natural Buttes Unit. Within this area is the White River and rugged drainages that drain into it. Topography is varied and frequently dissected by short draws or washes, which become overly steep as they approach the White River breaks or rim. Distance to the White River is 3900'. The side drainages are dry except for ephemeral flows. No seeps or springs exist in the area. An occasional pond has been constructed to supply water for livestock and antelope. Vernal, Utah is approximately 48 miles to the northwest. Access from Vernal is by following Utah State, Uintah County and oilfield development roads. The existing access road will be re-routed for the final 250 feet.

Four wells will be directionally drilled from this location. They are the NBU 1022-12I4CS, NBU 1022-12P1BS, NBU 1022-12P4BS and the NBU 1022-12P4CS. The existing location has one well. This well is the NBU 1022-12P, and at this time the decision rather to PA or TA this well has not been made. The location is on a flat topped ridge that runs in a east-west direction. This ridge breaks off sharply into rugged secondary canyons on the southwest, northwest and west sides. No drainage concerns exist, and no diversions will be needed. The pad as modified should be stable and sufficient for five wells, and is the best site for a location in the immediate area.

New construction will consist of approx. 50 feet on all sides of the existing pad, and an additional 50 feet on the east side for reserve pit and excess cut stockpile.

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

David Hackford	10/12/2011
Onsite Evaluator	**Date / Time**

Conditions of Approval / Application for Permit to Drill

RECEIVED: December 12, 2011

Application for Permit to Drill
Statement of Basis

Category	Condition
Pits	A synthetic liner with a minimum thickness of 16 mils with a felt subliner shall be properly installed and maintained in the reserve pit.
Pits	The reserve pit should be located on the south side of the location.

RECEIVED: December 12, 2011

WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 9/13/2011 **API NO. ASSIGNED:** 43047519680000
WELL NAME: NBU 1022-12P1BS
OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P. (N2995) **PHONE NUMBER:** 720 929-6086
CONTACT: Gina Becker

PROPOSED LOCATION: SESE 12 100S 220E **Permit Tech Review:** ☑
SURFACE: 1109 FSL 0461 FEL **Engineering Review:** ☑
BOTTOM: 1240 FSL 0489 FEL **Geology Review:** ☑
COUNTY: UINTAH
LATITUDE: 39.95924 **LONGITUDE:** -109.38056
UTM SURF EASTINGS: 638320.00 **NORTHINGS:** 4424489.00
FIELD NAME: NATURAL BUTTES
LEASE TYPE: 3 - State
LEASE NUMBER: UT ST UO 01997-A ST **PROPOSED PRODUCING FORMATION(S):** WASATCH-MESA VERDE
SURFACE OWNER: 3 - State **COALBED METHANE:** NO

RECEIVED AND/OR REVIEWED:

- ☑ **PLAT**
- ☑ **Bond:** STATE/FEE - 22013542
- ☐ **Potash**
- ☑ **Oil Shale 190-5**
- ☐ **Oil Shale 190-3**
- ☐ **Oil Shale 190-13**
- ☑ **Water Permit:** 43-8496
- ☐ **RDCC Review:**
- ☐ **Fee Surface Agreement**
- ☑ **Intent to Commingle**

Commingling Approved

LOCATION AND SITING:

- ☐ **R649-2-3.**

Unit: NATURAL BUTTES

- ☐ **R649-3-2. General**
- ☐ **R649-3-3. Exception**
- ☑ **Drilling Unit**

Board Cause No: Cause 173-14
Effective Date: 12/2/1999
Siting: Suspends General Siting

- ☑ **R649-3-11. Directional Drill**

Comments: Presite Completed

Stipulations:
3 - Commingling - ddoucet
5 - Statement of Basis - bhill
15 - Directional - dmason
17 - Oil Shale 190-5(b) - dmason
25 - Surface Casing - hmacdonald

RECEIVED: December 12, 2011

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 1022-12P1BS
API Well Number: 43047519680000
Lease Number: UT ST UO 01997-A ST
Surface Owner: STATE
Approval Date: 12/12/2011

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

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

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

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

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

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

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

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

Surface casing shall be cemented to the surface.

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

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

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

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

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

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

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

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

Approved By:

For John Rogers
Associate Director, Oil & Gas

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

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5.LEASE DESIGNATION AND SERIAL NUMBER: UT ST UO 01997-

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 1022-12P1BS

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

9. API NUMBER: 43047519680000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER: 720 929-6526

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1109 FSL 0461 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESE Section: 12 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		
✓ NOTICE OF INTENT Approximate date work will start: 4/23/2012	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
☐ SPUD REPORT Date of Spud:	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ DRILLING REPORT Report Date:	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	✓ OTHER	OTHER: Exception Letter

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

The operator request to add this Exception Letter to the well file.
Thanks!

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
April 24, 2012

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Gina Becker	720 929-6086	Regulatory Analyst II
SIGNATURE N/A		**DATE** 4/23/2012

RECEIVED: Apr. 23, 2012

Kerr-McGee Oil & Gas Onshore LP
P.O. Box 173779
Denver, CO 80217-3779

April 19, 2012

Ms. Diana Mason
Division of Oil, Gas and Mining
P.O. Box 145801
Salt Lake City, UT 84114-6100

Re: NBU 1022-12P1BS
T10S- R22E
Section 12: SESE (surface); SESE (bottom hole)
1109' FSL, 461' FEL (surface)
1240' FSL, 489' FEL (bottom hole)
Uintah County, Utah

Dear Mrs. Mason:

Kerr-McGee Oil & Gas Onshore LP has submitted a permit to drill the captioned well to test the Wasatch and Mesaverde formations. The well is located at an exception location to State Rule 173-14 (NBU). The well location is less than 460' from the unit boundary. Kerr-McGee owns 100% of the leasehold in the offset lands and has no objection to the exception location.

Kerr-McGee requests your approval of this exception location. If you have any questions or require any additional information, please do not hesitate to call me at 720-929-6708.

Sincerely,

KERR-MCGEE OIL & GAS ONSHORE LP

Joseph D. Johnson
Landman II

cc: Chris Latimer

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

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5. LEASE DESIGNATION AND SERIAL NUMBER:	UT ST UO 01197-A ST
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:	
7. UNIT or CA AGREEMENT NAME:	UTU63047A
1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☑ OTHER	8. WELL NAME and NUMBER: Multiple Well Locations
2. NAME OF OPERATOR: Kerr-McGee Oil & Gas Onshore, L.P.	9. API NUMBER:
3. ADDRESS OF OPERATOR: P.O. Box 173779 Denver CO 80217 PHONE NUMBER: (720) 929-6086	10. FIELD AND POOL, OR WILDCAT: Natural Buttes

4. LOCATION OF WELL

FOOTAGES AT SURFACE: Various Locations in T10S-R22E, Section 12 COUNTY: Uintah

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: 12 10S 22E 6 STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
☑ NOTICE OF INTENT (Submit in Duplicate)	☐ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
Approximate date work will start: 4/23/2012	☐ ALTER CASING	☐ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARILY ABANDON
	☐ CHANGE TO PREVIOUS PLANS	☐ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLARE
☐ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
Date of work completion:	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☑ OTHER: Lease Number Correction
	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	

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

Kerr-McGee is requesting approval to correct the lease number from UT ST UO 01997-A ST to UT ST UO 01197-A ST for various well locations. Please see attached well list.

Thank you!

NAME (PLEASE PRINT) Gina T Becker TITLE Senior Regulatory Analyst

SIGNATURE [signature] DATE 4/23/2012

(This space for State use only)

RECEIVED
APR 24 2012
Div. of Oil, Gas & Mining

(5/2000) (See Instructions on Reverse Side)

	API UWI NO	WELL NAME	SL STATE	SL SECTION	SL TOWNSHIP	SL RANGE	SL COUNTY NAME	GOV LEASE NO	FEDERAL LEASE NO
1	4304751951	NBU 1022-12A1BS	UT	12	10	22	UINTAH	UT ST UO 01197-A ST	UTU63047A
2	4304751952	NBU 1022-12A1CS	UT	12	10	22	UINTAH	UT ST UO 01197-A ST	UTU63047A
3	4304751991	NBU 1022-12A4BS	UT	12	10	22	UINTAH	UT ST UO 01197-A ST	UTU63047A
4	4304751986	NBU 1022-12A4CS	UT	12	10	22	UINTAH	UT ST UO 01197-A ST	UTU63047A
5	4304751944	NBU 1022-12B1BS	UT	12	10	22	UINTAH	UT ST UO 01197-A ST	UTU63047A
6	4304751980	NBU 1022-12B1CS	UT	12	10	22	UINTAH	UT ST UO 01197-A ST	UTU63047A
7	4304751982	NBU 1022-12B4BS	UT	12	10	22	UINTAH	UT ST UO 01197-A ST	UTU63047A
8	4304751983	NBU 1022-12B4CS	UT	12	10	22	UINTAH	UT ST UO 01197-A ST	UTU63047A
9	4304751979	NBU 1022-12C1BS	UT	12	10	22	UINTAH	UT ST UO 01197-A ST	UTU63047A
10	4304751981	NBU 1022-12C1CS	UT	12	10	22	UINTAH	UT ST UO 01197-A ST	UTU63047A
11	4304751984	NBU 1022-12C4BS	UT	12	10	22	UINTAH	UT ST UO 01197-A ST	UTU63047A
12	4304751985	NBU 1022-12C4CS	UT	12	10	22	UINTAH	UT ST UO 01197-A ST	UTU63047A
13	4304751989	NBU 1022-12D1BS	UT	12	10	22	UINTAH	UT ST UO 01197-A ST	UTU63047A
14	4304751987	NBU 1022-12D1CS	UT	12	10	22	UINTAH	UT ST UO 01197-A ST	UTU63047A
15	4304751990	NBU 1022-12D4BS	UT	12	10	22	UINTAH	UT ST UO 01197-A ST	UTU63047A
16	4304751992	NBU 1022-12D4CS	UT	12	10	22	UINTAH	UT ST UO 01197-A ST	UTU63047A
17	4304751988	NBU 1022-12E1BS	UT	12	10	22	UINTAH	UT ST UO 01197-A ST	UTU63047A
18	4304751993	NBU 1022-12E1CS	UT	12	10	22	UINTAH	UT ST UO 01197-A ST	UTU63047A
19	4304751994	NBU 1022-12E4BS	UT	12	10	22	UINTAH	UT ST UO 01197-A ST	UTU63047A
20	4304751996	NBU 1022-12F1BS	UT	12	10	22	UINTAH	UT ST UO 01197-A ST	UTU63047A
21	4304751997	NBU 1022-12F1CS	UT	12	10	22	UINTAH	UT ST UO 01197-A ST	UTU63047A
22	4304751995	NBU 1022-12F4BS	UT	12	10	22	UINTAH	UT ST UO 01197-A ST	UTU63047A
23	4304751967	NBU 1022-12E4CS	UT	12	10	22	UINTAH	UT ST UO 01197-A ST	UTU63047A
24	4304751964	NBU 1022-12F4CS	UT	12	10	22	UINTAH	UT ST UO 01197-A ST	UTU63047A
25	4304751965	NBU 1022-12K1BS	UT	12	10	22	UINTAH	UT ST UO 01197-A ST	UTU63047A
26	4304751966	NBU 1022-12K1CS	UT	12	10	22	UINTAH	UT ST UO 01197-A ST	UTU63047A
27	4304751970	NBU 1022-12K4BS	UT	12	10	22	UINTAH	UT ST UO 01197-A ST	UTU63047A
28	4304751971	NBU 1022-12K4CS	UT	12	10	22	UINTAH	UT ST UO 01197-A ST	UTU63047A
29	4304751974	NBU 1022-12G1BS	UT	12	10	22	UINTAH	UT ST UO 01197-A ST	UTU63047A
30	4304751963	NBU 1022-12G1CS	UT	12	10	22	UINTAH	UT ST UO 01197-A ST	UTU63047A
31	4304751972	NBU 1022-12G4BS	UT	12	10	22	UINTAH	UT ST UO 01197-A ST	UTU63047A
32	4304751977	NBU 1022-12G4CS	UT	12	10	22	UINTAH	UT ST UO 01197-A ST	UTU63047A
33	4304751973	NBU 1022-12H1BS	UT	12	10	22	UINTAH	UT ST UO 01197-A ST	UTU63047A
34	4304751942	NBU 1022-12H1CS	UT	12	10	22	UINTAH	UT ST UO 01197-A ST	UTU63047A
35	4304751941	NBU 1022-12H4BS	UT	12	10	22	UINTAH	UT ST UO 01197-A ST	UTU63047A
36	4304751975	NBU 1022-12H4CS	UT	12	10	22	UINTAH	UT ST UO 01197-A ST	UTU63047A
37	4304751976	NBU 1022-12I1BS	UT	12	10	22	UINTAH	UT ST UO 01197-A ST	UTU63047A
38	4304751978	NBU 1022-12I1CS	UT	12	10	22	UINTAH	UT ST UO 01197-A ST	UTU63047A
39	4304751958	NBU 1022-12I4BS	UT	12	10	22	UINTAH	UT ST UO 01197-A ST	UTU63047A
40	4304751957	NBU 1022-12J1BS	UT	12	10	22	UINTAH	UT ST UO 01197-A ST	UTU63047A
41	4304751955	NBU 1022-12J1CS	UT	12	10	22	UINTAH	UT ST UO 01197-A ST	UTU63047A
42	4304751960	NBU 1022-12J4BS	UT	12	10	22	UINTAH	UT ST UO 01197-A ST	UTU63047A
43	4304751956	NBU 1022-12J4CS	UT	12	10	22	UINTAH	UT ST UO 01197-A ST	UTU63047A
44	4304751959	NBU 1022-12N1BS	UT	12	10	22	UINTAH	UT ST UO 01197-A ST	UTU63047A
45	4304751961	NBU 1022-12N1CS	UT	12	10	22	UINTAH	UT ST UO 01197-A ST	UTU63047A
46	4304751943	NBU 1022-12N4BS	UT	12	10	22	UINTAH	UT ST UO 01197-A ST	UTU63047A
47	4304751945	NBU 1022-12N4CS	UT	12	10	22	UINTAH	UT ST UO 01197-A ST	UTU63047A
48	4304751962	NBU 1022-12I4CS	UT	12	10	22	UINTAH	UT ST UO 01197-A ST	UTU63047A
49	4304751968	NBU 1022-12P1BS	UT	12	10	22	UINTAH	UT ST UO 01197-A ST	UTU63047A

	API UWI NO	WELL NAME	SL STATE	SL SECTION	SL TOWNSHIP	SL RANGE	SL COUNTY NAME	GOV LEASE NO	FEDERAL LEASE NO
50	4304751969	NBU 1022-12P4BS	UT	12	10	22	UINTAH	UT ST UO 01197-A ST	UTU63047A
51	4304751947	NBU 1022-12P4CS	UT	12	10	22	UINTAH	UT ST UO 01197-A ST	UTU63047A
52	4304751949	NBU 1022-12O1BS	UT	12	10	22	UINTAH	UT ST UO 01197-A ST	UTU63047A
53	4304751950	NBU 1022-12O1CS	UT	12	10	22	UINTAH	UT ST UO 01197-A ST	UTU63047A
54	4304751953	NBU 1022-12O4BS	UT	12	10	22	UINTAH	UT ST UO 01197-A ST	UTU63047A
55	4304751954	NBU 1022-12O4CS	UT	12	10	22	UINTAH	UT ST UO 01197-A ST	UTU63047A

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

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5.LEASE DESIGNATION AND SERIAL NUMBER: UT ST UO 01197-

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 1022-12P1BS

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

9. API NUMBER: 43047519680000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER: 720 929-6515

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1109 FSL 0461 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESE Section: 12 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		
✓ NOTICE OF INTENT Approximate date work will start: 12/12/2012	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ DRILLING REPORT Report Date:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	✓ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

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

Kerr-McGee Oil & Gas Onshore, L.P. (Kerr-McGee) respectfully requests an extension to this APD for the maximum time allowed. Please contact the undersigned with any questions and/or comments. Thank you.

Approved by the Utah Division of Oil, Gas and Mining

Date: November 26, 2012

By:

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Luke Urban	720 929-6501	Regulatory Specialist
SIGNATURE N/A		**DATE** 11/26/2012

RECEIVED: Nov. 26, 2012

The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43047519680000

API: 43047519680000
Well Name: NBU 1022-12P1BS
Location: 1109 FSL 0461 FEL QTR SESE SEC 12 TWNP 100S RNG 220E MER S
Company Permit Issued to: KERR-MCGEE OIL & GAS ONSHORE, L.P.
Date Original Permit Issued: 12/12/2011

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

- **If located on private land, has the ownership changed, if so, has the surface agreement been updated?** ○ **Yes** ◉ **No**
- **Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location?** ○ **Yes** ◉ **No**
- **Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well?** ○ **Yes** ◉ **No**
- **Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location?** ○ **Yes** ◉ **No**
- **Has the approved source of water for drilling changed?** ○ **Yes** ◉ **No**
- **Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation?** ○ **Yes** ◉ **No**
- **Is bonding still in place, which covers this proposed well?** ◉ **Yes** ○ **No**

Signature: Luke Urban **Date:** 11/26/2012
Title: Regulatory Specialist **Representing:** KERR-MCGEE OIL & GAS ONSHORE, L.P.

RECEIVED: Nov. 26, 2012

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

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5.LEASE DESIGNATION AND SERIAL NUMBER: UT ST UO 01197-

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 1022-12P1BS

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

9. API NUMBER: 43047519680000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779 **PHONE NUMBER:** 720 929-6515

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1109 FSL 0461 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESE Section: 12 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		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
✓ SPUD REPORT Date of Spud: 3/15/2013	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ DRILLING REPORT Report Date:	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

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

THE WELL SPUD ON MARCH 15, 2013 AT 14:00. MIRU TRIPLE A BUCKET RIG. DRILLED 20in CONDUCTOR HOLE TO 40ft. RAN 14in 36.7lb SCHEDULE 10 CONDUCTOR PIPE. CEMENT WITH 28 SACKS READY MIX. ANTICIPATED SURFACE RIG SPUD DATE ON April 23, 2013 AND CASING CEMENT April 24, 2013 AT 08:00 HRS.

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY
March 21, 2013

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Luke Urban	720 929-6501	Regulatory Specialist
SIGNATURE N/A		**DATE** 3/20/2013

RECEIVED: Mar. 20, 2013

FORM 9

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

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5.LEASE DESIGNATION AND SERIAL NUMBER: UT ST UO 01197-

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 1022-12P1BS

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

9. API NUMBER: 43047519680000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779 **PHONE NUMBER:** 720 929-6526

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1109 FSL 0461 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESE Section: 12 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		
✓ NOTICE OF INTENT Approximate date work will start: 4/8/2013	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
	✓ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
☐ SPUD REPORT Date of Spud:	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ DRILLING REPORT Report Date:	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

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

The operator requests approval for changes in the drilling plan. Specifically, the operator requests approval for a FIT wavier, closed loop drilling option, and a production casing change. The production casing change includes a switch from 4.5 inch I-80 11.6 BTC/LTC casing to 4.5 inch HCP 110 11.6 LB Ultra DQX/LTC casing. All other aspects of the previously approved drilling plan will not change. Please see closed loop attachment.

Approved by the Utah Division of Oil, Gas and Mining

Date: April 08, 2013

By: Dark K Quist

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Teena Paulo	720 929-6236	Staff Regulatory Specialist
SIGNATURE N/A		**DATE** 4/8/2013

RECEIVED: Apr. 08, 2013

Requested Drilling Options:

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

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

RECEIVED: Apr. 08, 2013

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

FORM 6

ENTITY ACTION FORM

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

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304751947	NBU 1022-12P4CS		SESE	12	10S	22E	UINTAH
Action Code	**Current Entity Number**	**New Entity Number**	**Spud Date**			**Entity Assignment Effective Date**	
B	99999	2900	3/15/2013			3/28/13	

Comments: MIRU TRIPLE A BUCKET RIG.
SPUD WELL LOCATION ON March 15, 2013 AT 08:00 HRS.

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304751962	NBU 1022-12I4CS		SESE	12	10S	22E	UINTAH
Action Code	**Current Entity Number**	**New Entity Number**	**Spud Date**			**Entity Assignment Effective Date**	
B	99999	2900	3/15/2013			3/28/13	

Comments: MIRU TRIPLE A BUCKET RIG.
SPUD WELL LOCATION ON March 15, 2013 AT 11:00 HRS.

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304751968	NBU 1022-12P1BS		SESE	12	10S	22E	UINTAH
Action Code	**Current Entity Number**	**New Entity Number**	**Spud Date**			**Entity Assignment Effective Date**	
B	99999	2900	3/15/2013			3/28/13	

Comments: MIRU TRIPLE A BUCKET RIG.
SPUD WELL LOCATION ON March 15, 2013 AT 14:00 HRS.

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)

Luke Urban
Name (Please Print)

Signature

Sr. Regulatory Specialist
Title

3/20/2013
Date

RECEIVED
MAR 20 2013
Div. of Oil, Gas & Mining

(5/2000)

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

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5.LEASE DESIGNATION AND SERIAL NUMBER: UT ST UO 01197-

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 1022-12P1BS

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

9. API NUMBER: 43047519680000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779 **PHONE NUMBER:** 720 929-6515

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1109 FSL 0461 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESE Section: 12 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		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
✓ DRILLING REPORT Report Date: 5/3/2013	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

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

No Activity for the month of April 2013. Well TD at 40 ft.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
May 10, 2013

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Jaime Scharnowske	720 929-6304	Regulartory Analyst
SIGNATURE N/A		**DATE** 5/3/2013

RECEIVED: May. 03, 2013

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

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5.LEASE DESIGNATION AND SERIAL NUMBER: UT ST UO 01197-

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 1022-12P1BS

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

9. API NUMBER: 43047519680000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER: 720 929-6526

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1109 FSL 0461 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESE Section: 12 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		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
✓ DRILLING REPORT Report Date: 6/4/2013	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

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

Drilled to 2,340 ft. in May 2013.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
June 10, 2013

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Teena Paulo	720 929-6236	Staff Regulatory Specialist
SIGNATURE		**DATE**
N/A		6/4/2013

RECEIVED: Jun. 04, 2013

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

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5.LEASE DESIGNATION AND SERIAL NUMBER: UT ST UO 01197-

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 1022-12P1BS

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

9. API NUMBER: 43047519680000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER: 720 929-6526

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1109 FSL 0461 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESE Section: 12 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		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
✓ DRILLING REPORT Report Date: 7/1/2013	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

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

No actitivy for the month of June 2013. Well TD at Drilled to 2,355 ft.

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY
July 01, 2013

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Teena Paulo	720 929-6236	Staff Regulatory Specialist
SIGNATURE N/A		**DATE** 7/1/2013

RECEIVED: Jul. 01, 2013

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

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5.LEASE DESIGNATION AND SERIAL NUMBER: UT ST UO 01197-

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 1022-12P1BS

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

9. API NUMBER: 43047519680000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779 **PHONE NUMBER:** 720 929-6526

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1109 FSL 0461 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESE Section: 12 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		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
✓ DRILLING REPORT Report Date: 7/5/2013	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

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

REVISED JUNE MONTHLY DRILL SUNDRY Drilled to 7,651 ft. in June 2013.

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

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

RECEIVED: Jul. 05, 2013

State of Utah - Notification Form

Operator Anadarko Petroleum Rig Name/# PIONEER 54
Submitted By STUART NEILSON Phone Number 435-790-2921
Well Name/Number NBU 1022-12P1BS
Qtr/Qtr SE/SE Section 12 Township 10S Range 22E
Lease Serial Number UT ST UO 01997-A ST
API Number 4304751968

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 6/29/13 8 AM ☐ PM ☐

Rig Move
Location To: NBU 1022-12P PAD

Date/Time __ _ AM ☐ PM ☐

RECEIVED
JUN 26 2013
DIV. OF OIL, GAS & MINING

Remarks WELL 4 OF 4 ON THE NBU 1022-12P PAD

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

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5.LEASE DESIGNATION AND SERIAL NUMBER: UT ST UO 01197-

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 1022-12P1BS

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

9. API NUMBER: 43047519680000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779 **PHONE NUMBER:** 720 929-6526

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1109 FSL 0461 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESE Section: 12 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		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
✓ DRILLING REPORT Report Date: 8/5/2013	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

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

Drilled to 8,415 ft. in July 2013.

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

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

RECEIVED: Aug. 05, 2013

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

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5.LEASE DESIGNATION AND SERIAL NUMBER: UT ST UO 01197-

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 1022-12P1BS

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

9. API NUMBER: 43047519680000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779 **PHONE NUMBER:** 720 929-6526

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1109 FSL 0461 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESE Section: 12 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		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
✓ DRILLING REPORT Report Date: 9/4/2013	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

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

Started completing the well. Well TD at 8,415 ft.

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY
October 02, 2013

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

RECEIVED: Sep. 04, 2013

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

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER:
UT ST UO 01197-

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 1022-12P1BS

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

9. API NUMBER:
43047519680000

3. ADDRESS OF OPERATOR:
P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER:
720 929-6526

9. FIELD and POOL or WILDCAT:
NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE:
1109 FSL 0461 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
Qtr/Qtr: SESE Section: 12 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		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
✓ DRILLING REPORT Report Date: 9/9/2013	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	✓ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

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

The subject well was placed on production on 09/09/2013 the chronological well history will be submitted with the well completion report.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
October 02, 2013

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Kay E. Kelly	720 929 6582	Regulatory Analyst
SIGNATURE		**DATE**
N/A		9/13/2013

RECEIVED: Sep. 13, 2013

API Well Number: 43047519680000

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

AMENDED REPORT ☐ (highlight changes) FORM 8

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. LEASE DESIGNATION AND SERIAL NUMBER: UT ST UO 01197-A ST

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☑ DRY ☐ OTHER

7. UNIT or CA AGREEMENT NAME: UTU63047A

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

8. WELL NAME and NUMBER: NBU 1022-12P1BS

2. NAME OF OPERATOR: KERR-MCGEE OIL AND GAS ONSHORE LP

9. API NUMBER: 43-047-51968

3. ADDRESS OF OPERATOR: P.O. Box 173779 CITY Denver STATE Co ZIP 82017

PHONE NUMBER: 720-929-6000

10 FIELD AND POOL, OR WILDCAT: Natural Buttes

4. LOCATION OF WELL (FOOTAGES)

AT SURFACE: SESE 1109 FSL 461 FEL

AT TOP PRODUCING INTERVAL REPORTED BELOW: SESE 1255 FSL 492 FEL

AT TOTAL DEPTH: SESE 1228 FSL 492 FEL

11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SESE 12 10S 22E SLB

12. COUNTY: UINTAH

13. STATE: UTAH

14. DATE SPUDDED:	15. DATE T. D. REACHED:	16. DATE COMPLETED:	ABANDONED	READY TO PRODUCE	17. ELEVATIONS (DF, RKB, RT, GL):
3/15/2013	7/1/2013	9/9/2013	☐	☑	5281 RKB

18. TOTAL DEPTH:	19. PLUG BACK T.D.:	20. IF MULTIPLE COMPLETIONS, HOW MANY? *	21. DEPTH BRIDGE PLUG SET:
MD 8415	MD 8357		MD
TVD 8407	TVD 8349		TVD

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)
CBL/GR/CCL/TEMP-MULTI FINGER CALIPER

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

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

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
20	14 STL	36.7	0	40		28			
11	8.63 J-55	28	19	2324		900		0	
7.875	4.5 I-80	11.6	23	8403		1410		500	

25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
2.375	7728							

26. PRODUCING INTERVALS / 27. PERFORATION RECORD

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)	INTERVAL (Top/Bot - MD)		SIZE	NO. HOLES	PERFORATION STATUS
(A) WASATCH	5507	6168			5,507	6,168	0.36	72	Open ☑ Squeezed ☐
(B) MESAVERDE	6212	8252			6,212	8,252	0.36	192	Open ☑ Squeezed ☐
(C)									Open ☐ Squeezed ☐
(D)									Open ☐ Squeezed ☐

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

DEPTH INERVAL	AMOUNT AND TYPE OF MATERIAL
5507-8252	PUMP 13,419 BBL SLICKWATER, 305,100 LBS 30/50 MESH SAND
	11 STAGES

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

30. WELL STATUS: PRODUCING

(5/2000)

(CONTINUED ON BACK)

RECEIVED: Oct. 07, 2013

API Well Number: 43047519680000

31. INITIAL PRODUCTION

INTERVAL A (As shown in Item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:
9/9/2013	9/12/2013	24		3	1527	0	Flowing

CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS
20/64	1290	1961					3	1527	0	Producing

INTERVAL B (As shown in Item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:

CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS

INTERVAL C (As shown in Item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:

CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS

INTERVAL D (As shown in Item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:

CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS

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

SOLD

33. SUMMARY OF POROUS ZONES (Include Aquifers):

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

34. FORMATION (Log) MARKERS:

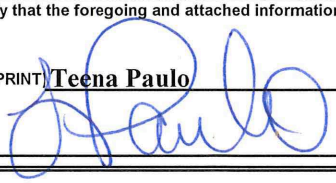
Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
				GREEN RIVER	1024
				BIRD'S NEST	1401
				MAHOGANY	1840
				WASATCH	4112
				MESAVERDE	6193

35. ADDITIONAL REMARKS (Include plugging procedures)

The first 210 ft. of the surface hole was drilled with a 12 ¼ in. bit. The remainder of surface hole was drilled with an 11 in. bit. DQX csg was run from surface to 5026 ft.; LTC csg was run from 5026 ft. to 8403 ft. Attached is the chronological well history, perforation report & final survey.

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

NAME (PLEASE PRINT) Teena Paulo TITLE Staff Regulatory Specialist

SIGNATURE  DATE 10-7-2013

This report must be submitted within 30 days of

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

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

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

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

Phone: 801-538-5340

Fax: 801-359-3940

(5/2000)

RECEIVED: Oct. 07, 2013

US ROCKIES REGION

Operation Summary Report

Well: NBU 1022-12P1BS YELLOW		Spud Date: 5/14/2013	
Project: UTAH-UINTAH	Site: NBU 1022-12P PAD		Rig Name No: PROPETRO 12/12, PIONEER 54/54
Event: DRILLING	Start Date: 5/1/2013		End Date: 7/2/2013
Active Datum: RKB @5,281.00usft (above Mean Sea Level)	UWI: SE/SE/0/10/S/22/E/12/0/0/26/PM/S/1109/E/0/461/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
5/14/2013	1:00 - 2:30	1.50	MIRU	01	B	P		SKID RIG 20' TO NBU 1022-12P1BS, RIG UP SET MATTING BOARD, SET RIG IN PLACE, CATWALK, PIPE RACKS, PLACE BOTTOME HOLE ASSEMBLY
	2:30 - 3:00	0.50	MIRU	01	C	P		PRE SPUD JOB SAFETY MEETING REVEW DIRECTIONAL PLANS AND PLATS AND VERIFY LAT/LONGS AND WELL ORDER VERIFY DIRECTIONAL DRILLERS PLAN IS THE MOST RECENT AND APPROVED VERSION REFERENCE WELLBORE DIAGRAMS FOR EXACT CASING DESIGN AND GENERAL OVERVEW OF WELLBORE, PRIOR TO SPUD. FINISH PICKING UP BHA. PICK UP NOV 1.83 DEGREE BENT MOTOR (RUN #10)- .17 REV/GAL SN (1044684-8). PICK UP 12.25 REED DRILL BIT RUN 10 SN (A172023)
	3:00 - 4:30	1.50	DRLSUR	02	B	P	59	SPUD @ 05/14/2013 03:00. DRILL 12.25" HOLE 44'-210' (166', 110'/PER HOUR) 12.25" BIT ON 8th RUN. WEIGHT ON BIT 5-15 K. STROKES PER MINUTE 120 GALLONS PER MINUTE 491. PRESSURE ON/OFF (BOTTOM) 800/600. ROTARY RPM 55, MOTOR RPM 83, TOTAL RPM 138. UP/DOWN/ ROTATE 20/20/20 K. DRAG 0 K. CIRCULATE CLOSED LOOP SYSTEM WITH 8.3# WATER. RUNNING VOLUME THROUGH 1 CENTRAFUGE DEWATERING AND, RUNNING VOLUME OVER BOTH SHAKERS. DRILL DOWN TO 210' WITH 6" DRILL COLLARS.
	4:30 - 5:30	1.00	DRLSUR	06	A	P	225	PRE JOB SAFETY MEETING, CIRC 15 MINUTES AND, TRIP OUT TO CHANGE ASSEMBLY. LAY DOWN 6" DRILL COLLARS, BREAK 12 1/4" BIT. MAKE UP REED 11" BIT (4TH RUN) (SN A172025) PICK UP 8" DIRECTIONAL ASSEMBLY. INSTALL EM TOOL, TRIP IN HOLE.

RECEIVED: Oct. 07, 2013

US ROCKIES REGION

Operation Summary Report

Well: NBU 1022-12P1BS YELLOW		Spud Date: 5/14/2013	
Project: UTAH-UINTAH	Site: NBU 1022-12P PAD		Rig Name No: PROPETRO 12/12, PIONEER 54/54
Event: DRILLING	Start Date: 5/1/2013		End Date: 7/2/2013
Active Datum: RKB @5,281.00usft (above Mean Sea Level)	UWI: SE/SE/0/10/S/22/E/12/0/0/26/PM/S/1109/E/0/461/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	5:30 - 12:00	6.50	DRLSUR	02	B	P	225	DRILL 11". SURFACE HOLE 210'-1230', (1020', 156'/PER HOUR). WEIGHT ON BIT 18-25 K. STROKES PER MINUTE 120 GALLONS PER MINUTE 491. PRESSURE ON/OFF(BOTTOM) 1100/900. ROTARY RPM 55, MOTOR RPM 83, TOTAL RPM 138. UP/DOWN/ ROT 60/40/50 K. DRAG 10 K. SLIDING 15' PER 90'OF ROTATION GETTING 1.5 DEGREE BUILD RATES CURRENTLY 0.76' SOUTH 1.09' RIGHT OF THE LINE CIRCULATE CLOSED LOOP SYSTEM WITH 8.4# WATER. RUNNING VOLUME THROUGH 1 CENTRAFUGE DEWATERING AND, RUNNING VOLUME OVER BOTH SHAKERS. NO HOLE ISSUES.
	12:00 - 18:00	6.00	DRLSUR	02	B	P	1245	DRILL 11". SURFACE HOLE 1230'-1920', (690', 115'/PER HOUR). WEIGHT ON BIT 18-25 K. STROKES PER MINUTE 120 GALLONS PER MINUTE 491. PRESSURE ON/OFF(BOTTOM) 1400/1200. ROTARY RPM 55, MOTOR RPM 83, TOTAL RPM 138. UP/DOWN/ ROT 70/50/60 K. DRAG 10 K. SLIDING 15' PER 90'OF ROTATION GETTING 1.5 DEGREE BUILD RATES CURRENTLY 0.48' NORTH 0.80' RIGHT OF THE LINE CIRCULATE CLOSED LOOP SYSTEM WITH 8.4# WATER. RUNNING VOLUME THROUGH 1 CENTRAFUGE DEWATERING AND, RUNNING VOLUME OVER BOTH SHAKERS. PUT AIR ON THE HOLE @ 1800 CFM, @ 1500'.
	18:00 - 22:00	4.00	DRLSUR	02	B	P	1935	DRILL 11". SURFACE HOLE 1920'-2340', (420', 105'/PER HOUR). WEIGHT ON BIT 18-25 K. STROKES PER MINUTE 120 GALLONS PER MINUTE 491. PRESSURE ON/OFF(BOTTOM) 1450/1200. ROTARY RPM 55, MOTOR RPM 83, TOTAL RPM 138. UP/DOWN/ ROT 80/60/70 K. DRAG 10 K. SLIDING 15' PER 90'OF ROTATION GETTING 1.5 DEGREE BUILD RATES CURRENTLY 0.88' NORTH 0.80' RIGHT OF THE LINE CIRCULATE CLOSED LOOP SYSTEM WITH 8.4# WATER. RUNNING VOLUME THROUGH 1 CENTRAFUGE DEWATERING AND, RUNNING VOLUME OVER BOTH SHAKERS. PUT AIR ON THE HOLE @ 1800 CFM, @ 1500'.
	22:00 - 0:00	2.00	DRLSUR	05	A	P		CIRCULATE AND CONDITION HOLE, VOLUME IS CLEAN COMING OVER SHAKERS, 4-400 BBL UPRIGHT'S FULL AND 2-400 BBL UPRIGHTS EMPTY, MUD TANKS FULL.

US ROCKIES REGION

Operation Summary Report

Well: NBU 1022-12P1BS YELLOW		Spud Date: 5/14/2013	
Project: UTAH-UINTAH	Site: NBU 1022-12P PAD		Rig Name No: PROPETRO 12/12, PIONEER 54/54
Event: DRILLING	Start Date: 5/1/2013		End Date: 7/2/2013
Active Datum: RKB @5,281.00usft (above Mean Sea Level)	UWI: SE/SE/0/10/S/22/E/12/0/0/26/PM/S/1109/E/0/461/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
5/15/2013	0:00 - 2:30	2.50	CSGSUR	06	D	P		TRIP OUT OF HOLE, LAY DOWN DRILL STRING, BOTTOM HOLE ASSEMBLY, DIRECTIONAL TOOLS, MOTOR AND, BIT. CLEAR TOOL AREA.
	2:30 - 3:30	1.00	CSGSUR	06	D	P		PRE JOB SAFETY MEETING, MOVE PIPE RACKS AND CATWALK. PULL DIVERTER HEAD. RIG UP TO RUN SURFACE CASING. CLEAR UNRELATED TOOLS.
	3:30 - 6:00	2.50	CSGSUR	12	C	P		RUN 52 JOINTS OF 8-5/8". 28# J-55 LTC CASING. RAN 1 CENTRALIZER ON FIRST THREE JOINTS, AND EVERY OTHER JOINT FOR 2 JOINTS FOR A TOTAL OF 5 CENTRALIZERS. RUN A TOTAL OF 52 JOINTS. RUN CASING TO BOTTOM WITH NO PROBLEMS. SET FLOAT SHOE @ 2308.72' KB. SET TOP OF BAFFLE PLATE @ 2262.58' KB.
	6:00 - 8:00	2.00	CSGSUR	12	E	P		PRE JOB SAFETY MEETING, RELEASE RIG @ 05/15/2013 08:00 RAN 200' OF 1". PIPE DOWN BACK-SIDE OF CASING. PRESSURE TEST LINES TO 2000 PSI. PUMP 145 BBLS OF WATER AHEAD. MIX AND PUMP 20 BBLS OF 8.5# GEL WATER AHEAD. MIX AND PUMP (300 sx) 61.4 BBLS OF 15.8.8# 1.15 YIELD. DROP PLUG ON FLY, DISPLACE WITH 144.3 BBLS OF H2O, NO RETURNS THROUGH OUT JOB, FINAL LIFT OF 200 PSI AT 3 BBL/MINUTE. BUMP THE PLUG WITH 590 PSI, HELD 590 PSI FOR 5 MINUTES, TESTED FLOAT AND FLOAT HELD. SHUT DOWN AND WASH UP.
	8:00 - 8:00	0.00	CSGSUR	12	E	P		PUMP CEMENT DOWN ONE INCH PIPE WITH 150 sx (30.7 bbls.)SAME CEMENT NO CEMENT RETURNS TO SURFACE. SHUT DOWN AND WASH UP. WAIT 1.5 HOURS ON CEMENT, CEMENT DOWN THE BACK SIDE WITH 150 sx (30.7 bbls.)SAME CEMENT, NO CEMENT RETURNS TO SURFACE. SHUT DOWN AND WASH UP. WAIT 1.5 HOURS ON CEMENT, CEMENT DOWN THE BACK SIDE WITH 150 sx (30.7 bbls.)SAME CEMENT, NO CEMENT RETURNS TO SURFACE. SHUT DOWN AND WASH UP. WAIT 1.5 HOURS ON CEMENT, CEMENT DOWN BACKSIDE W/ 150 sx (30.7 bbls.) SAME CEMENT, 3 BBLS CEMENT RETURNS TO SURFACE. RIG DOWN CEMENTERS. (CEMENT JOB FINISHED @ 05/15/2012 15:00)

US ROCKIES REGION

Operation Summary Report

Well: NBU 1022-12P1BS YELLOW		Spud Date: 5/14/2013	
Project: UTAH-UINTAH	Site: NBU 1022-12P PAD		Rig Name No: PROPETRO 12/12, PIONEER 54/54
Event: DRILLING	Start Date: 5/1/2013		End Date: 7/2/2013
Active Datum: RKB @5,281.00usft (above Mean Sea Level)	UWI: SE/SE/0/10/S/22/E/12/0/0/26/PM/S/1109/E/0/461/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
6/29/2013	12:00 - 12:30	0.50	MIRU3	01	C	P	2355	SKID RIG BACK 10' TO THE NBU 1022-12P1BS, N/U & R/U, CENTER & LEVEL RIG
	12:30 - 13:00	0.50	PRPSPD	01	B	P	2355	R/U,N/U BOPE
	13:00 - 17:00	4.00	PRPSPD	15	A	P	2355	HELD SAFETY MEETING WITH RIG CREW & B & C TESTER, R/U & TEST BOPE, TEST PIPE RAMS, BLIND RAMS, INNER-OUTER BOP VALVES, CHOKE VALVES, FLOOR VALVES FOR 5 MIN 250 LOW,10 MIN 5000 HIGH, ANN 5 MIN 250- 10 MIN 2500, SURFACE CASING 1500 FOR 30 MIN'S
	17:00 - 17:30	0.50	PRPSPD	07	A	P	2355	SERVICE RIG
	17:30 - 18:00	0.50	PRPSPD	08	A	P	2355	CHANGE OUT SAVER SUB
	18:00 - 18:30	0.50	PRPSPD	14	B		2355	INSTALL WEAR BUSHING,TIGHTEN TURN BUCKLES, PRE-SPUD INSPECTION
	18:30 - 20:00	1.50	PRPSPD	06	A	P	2355	P/U & SCRIBE DIR TOOLS, TRIP IN TO TOP OF CEMENT @ 2167'
	20:00 - 21:00	1.00	DRLPRC	02	F	P	2355	DRILL CEMENT, F/E & OPEN HOLE TO 2355, BAFFLE @ 2277, SHOE @ 2322'
	21:00 - 0:00	3.00	DRLPRC	02	B	P	2355	CLOSED LOOP SYSTEM DRILL F/ 2355 TO 3210', 855' @ 285" PH WOB / 20-24 RPM TOP DRIVE 55-60, MM 135 (2 PUMPS) - SPM 200 GPM 586 MW 8.6 PPG VIS 31 TRQ ON/OFF = 7/5 K PSI ON /OFF 1800/1400 , DIFF 300-500 PU/SO/RT = 100-80-90 K SLIDE = 13 ROT = 842 NOV / 2-DEWATERING 5' N & 13' W OF TARGET CENTER DRILL FLARE, 0 CONN FLARE 0
6/30/2013	0:00 - 8:00	8.00	DRLPRV	02	B	P	3210	CLOSED LOOP SYSTEM DRILL F/ 3210' TO 5060', 1850' @ 231.2' PH WOB / 20-24 RPM TOP DRIVE 55-60, MM 135 (2 PUMPS) - SPM 200 GPM 586 MW 8.8 PPG VIS 32 TRQ ON/OFF = 9/7 K PSI ON /OFF 2100/1700 , DIFF 300-500 PU/SO/RT = 140-110-125 K SLIDE = 53' ROT = 1797 NOV / 2-DEWATERING 14' N & 6' W OF TARGET CENTER DRILL FLARE, 0 CONN FLARE 0

US ROCKIES REGION

Operation Summary Report

Well: NBU 1022-12P1BS YELLOW		Spud Date: 5/14/2013	
Project: UTAH-UINTAH	Site: NBU 1022-12P PAD		Rig Name No: PROPETRO 12/12, PIONEER 54/54
Event: DRILLING	Start Date: 5/1/2013		End Date: 7/2/2013
Active Datum: RKB @5,281.00usft (above Mean Sea Level)	UWI: SE/SE/0/10/S/22/E/12/0/0/26/PM/S/1109/E/0/461/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	8:00 - 17:30	9.50	DRLPRV	02	B	P	5060	CLOSED LOOP SYSTEM DRILL F/ 5060 TO 6896', 1836' @ 193.3' PH WOB / 20-24 RPM TOP DRIVE 55-60, MM 135 (2 PUMPS) - SPM 200 GPM 586 MW 8.8 PPG VIS 32 TRQ ON/OFF = 10/8 K PSI ON /OFF 2100/1700 , DIFF 300-500 PU/SO/RT = 165-135-125 K SLIDE = 20' ROT = 1816' NOV / 2-DEWATERING 7' N & 5' E OF TARGET CENTER DRILL FLARE, 0 CONN FLARE 0
	17:30 - 18:00	0.50	DRLPRV	07	A	P	6896	SERVICE RIG
	18:00 - 0:00	6.00	DRLPRV	02	B	P	6896	CLOSED LOOP SYSTEM DRILL F/ 6896 TO 7651',755' @ 125.8' PH WOB / 20-24 RPM TOP DRIVE 55-60, MM 135 (2 PUMPS) - SPM 200 GPM 586 MW 8.7 PPG VIS 32 TRQ ON/OFF = 10/8 K PSI ON /OFF 2300/1800 , DIFF 300-500 PU/SO/RT = 175-145-135 K SLIDE = 51' ROT = 704' NOV / 2-DEWATERING 4'N & 3' W OF TARGET CENTER DRILL FLARE, 0 CONN FLARE 0
7/1/2013	0:00 - 6:00	6.00	DRLPRV	02	B	P	7651	CLOSED LOOP SYSTEM DRILL F/ 7651 TO 8415', 764' @ 127.3' PH WOB / 20-24 RPM TOP DRIVE 55-60, MM 135 (2 PUMPS) - SPM 200 GPM 586 MW 8.7 PPG VIS 32 TRQ ON/OFF = 10/8 K PSI ON /OFF 2300/1800 , DIFF 300-500 PU/SO/RT = 175-145-135 K SLIDE = 0 ROT = 100% NOV / 2-DEWATERING, BYPASS @ 8300' 12' S & 2.5 W OF TARGET CENTER DRILL FLARE,10 CONN FLARE 30 0 FLARE AFTER DISPLACEMENT
	6:00 - 7:30	1.50	DRLPRV	05	C	P	7651	CIRC & COND WELL FOR SHORT TRIP
	7:30 - 8:00	0.50	DRLPRV	06	E	P	8415	SHORT TRIP 10 STDS & BACK, NO PROBLEMS, NO FLARE
	8:00 - 9:30	1.50	DRLPRV	05	C	P	8415	CIRC & COND WELL TO LAYDOWN DRILL PIPE
	9:30 - 17:30	8.00	CSGPRO	06	A	P	8415	HELD SAFETY MEETING WITH RIG & KIMZEY CASING CREWS, R/U & LAYDOWN DRILL STRING & DIR TOOLS
	17:30 - 19:00	1.50	CSGPRO	08	A	Z	8415	***ST-80 KEPT OVER HEATING FOR A TOTAL OF 1.5 HRS WHILE LAYING DOWN DRILL PIPE

US ROCKIES REGION

Operation Summary Report

Well: NBU 1022-12P1BS YELLOW		Spud Date: 5/14/2013	
Project: UTAH-UINTAH	Site: NBU 1022-12P PAD		Rig Name No: PROPETRO 12/12, PIONEER 54/54
Event: DRILLING	Start Date: 5/1/2013		End Date: 7/2/2013
Active Datum: RKB @5,281.00usft (above Mean Sea Level)	UWI: SE/SE/0/10/S/22/E/12/0/0/26/PM/S/1109/E/0/461/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	19:00 - 0:00	5.00	CSGPRO	12	C	P	8415	HELD SAFETY MEETING WITH KIMZEY CASING & RIG CREWS, R/U & RAN / 187 TOTAL JOINTS OF CASING(76 JOINTS OF 4.5"/11.6#/I-80 + 1 MARKER) +(112 JOINTS OF 4.5"/11.6#/I-80/DQX) + (1-DQX CROSSOVER)/LANDED SHOE @ 8403'/FLOAT COLLOR @ 8357'/MEASA VERDE MARKER @ 6238'/DQX / X 8 RND LT&C X-OVER JOINT @ 5025'
7/2/2013	0:00 - 3:00	3.00	CSGPRO	12	C	P	8415	HELD SAFETY MEETING WITH KIMZEY CASING & RIG CREWS, R/U & RAN / 187 TOTAL JOINTS OF CASING(76 JOINTS OF 4.5"/11.6#/I-80 + 1 MARKER) +(112 JOINTS OF 4.5"/11.6#/I-80/DQX) + (1-DQX CROSSOVER)/LANDED SHOE @ 8403'/FLOAT COLLOR @ 8357'/MEASA VERDE MARKER @ 6238'/DQX / X 8 RND LT&C X-OVER JOINT @ 5025'
	3:00 - 4:00	1.00	CSGPRO	05	D	P	8415	CIRC OUT GAS TO CEMENT
	4:00 - 7:30	3.50	CSGPRO	12	E	P	8415	HELD SAFETY MEETING WITH RIG & BJ CEMENTING CREWS, TEST LINES TO, DROP BOTTOM PLUG, PUMP 25 BBLS WATER SPACER, LEAD 15% EXCESS, 158.94 BBLS (450) SACKS 12.5 PPG 1.98 YLD,PLII +6%GELL +5#skKS +.4%FL52 +.2%SMS +.4% R-3+ 5#/blndSF + 1/4#skCF TAIL 15% EXCESS, 225.56 BBLS (960) SACKS 14.3 PPG 1.32 YLD,50/50 50/50 poz+2%gell+0.55% R-3 + 10%salt+5#/blnd S.F.75%SMS SHUT DOWN CLEAN LINES, DROP TOP PLUG & DISPLACE WITH 130. BBLS CLAYCARE WATER, BUMP PLUG @2550 PSI, 500 OVER FINAL LIFT OF 2000 PSI, FLOATS HELD, FULL RETURNS THRU OUT JOB WITH 5 BBLS SPACER BACK TO SURFACE NO CEMENT, 1.5 BBLS BACK TO TRUCK, EST TOP OF TAIL 3599', LEAD-150', FLUSH LINES & STACK , R/D
	7:30 - 9:00	1.50	CSGPRO	01	E	P	8415	RIG DOWN LANDING JOINT,SET PACK OFF WITH CAMERON AND RELOAD HANGER,NIPPLE DOWN BOP,SAVE MUD AND PREPARE TO MOVE TO THE NBU 1022-1204CS,RELEASE RIG 7/2/13 09:00

1 General

1.1 Customer Information

Company	US ROCKIES REGION
Representative	
Address	

1.2 Well/Wellbore Information

Well	NBU 1022-12P1BS YELLOW	Wellbore No.	OH
Well Name	NBU 1022-12P1BS	Wellbore Name	NBU 1022-12P1BS
Report No.	1	Report Date	9/4/2013
Project	UTAH-UINTAH	Site	NBU 1022-12P PAD
Rig Name/No.		Event	COMPLETION
Start Date	8/6/2013	End Date	9/9/2013
Spud Date	5/14/2013	Active Datum	RKB @5,281.00usft (above Mean Sea Level)
UWI	SE/SE/0/10/S/22/E/12/0/0/26/PM/S/1109/E/0/461/0/0		

1.3 General

Contractor		Job Method		Supervisor	
Perforated Assembly		Conveyed Method			

1.4 Initial Conditions

Fluid Type		Fluid Density	
Surface Press		Estimate Res Press	
TVD Fluid Top		Fluid Head	
Hydrostatic Press		Press Difference	
Balance Cond	NEUTRAL		

1.5 Summary

Gross Interval	5,507.0 (usft)-8,252.0 (usft	Start Date/Time	9/4/2013 12:00AM
No. of Intervals	66	End Date/Time	9/4/2013 12:00AM
Total Shots	264	Net Perforation Interval	86.00 (usft)
Avg Shot Density	3.07 (shot/ft)	Final Surface Pressure	
		Final Press Date	

2 Intervals

2.1 Perforated Interval

Date	Formation/ Reservoir	CCL@ (usft)	CCL-TS (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diameter (in)	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
9/4/2013 12:00AM	WASATCH/			5,507.0	5,509.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (usft)	CCL-TS (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diameter (in)	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
9/4/2013 12:00AM	WASATCH/			5,626.0	5,628.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
9/4/2013 12:00AM	WASATCH/			5,654.0	5,656.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
9/4/2013 12:00AM	WASATCH/			5,690.0	5,692.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
9/4/2013 12:00AM	WASATCH/			5,726.0	5,728.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
9/4/2013 12:00AM	WASATCH/			5,738.0	5,740.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
9/4/2013 12:00AM	WASATCH/			5,822.0	5,824.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
9/4/2013 12:00AM	WASATCH/			5,889.0	5,891.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
9/4/2013 12:00AM	WASATCH/			5,940.0	5,942.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
9/4/2013 12:00AM	WASATCH/			6,058.0	6,060.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
9/4/2013 12:00AM	WASATCH/			6,090.0	6,092.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
9/4/2013 12:00AM	WASATCH/			6,166.0	6,168.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
9/4/2013 12:00AM	MESAVERDE/			6,212.0	6,214.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
9/4/2013 12:00AM	MESAVERDE/			6,228.0	6,230.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
9/4/2013 12:00AM	MESAVERDE/			6,438.0	6,440.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
9/4/2013 12:00AM	MESAVERDE/			6,468.0	6,470.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
9/4/2013 12:00AM	MESAVERDE/			6,528.0	6,529.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
9/4/2013 12:00AM	MESAVERDE/			6,546.0	6,547.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
9/4/2013 12:00AM	MESAVERDE/			6,594.0	6,595.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
9/4/2013 12:00AM	MESAVERDE/			6,606.0	6,607.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
9/4/2013 12:00AM	MESAVERDE/			6,630.0	6,631.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
9/4/2013 12:00AM	MESAVERDE/			6,780.0	6,781.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (usft)	CCL-TS (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diameter (in)	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
9/4/2013 12:00AM	MESAVERDE/			6,836.0	6,837.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
9/4/2013 12:00AM	MESAVERDE/			6,858.0	6,859.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
9/4/2013 12:00AM	MESAVERDE/			6,874.0	6,875.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
9/4/2013 12:00AM	MESAVERDE/			6,940.0	6,941.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
9/4/2013 12:00AM	MESAVERDE/			6,972.0	6,973.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
9/4/2013 12:00AM	MESAVERDE/			7,010.0	7,011.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
9/4/2013 12:00AM	MESAVERDE/			7,040.0	7,041.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
9/4/2013 12:00AM	MESAVERDE/			7,059.0	7,060.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
9/4/2013 12:00AM	MESAVERDE/			7,170.0	7,171.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
9/4/2013 12:00AM	MESAVERDE/			7,194.0	7,195.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
9/4/2013 12:00AM	MESAVERDE/			7,210.0	7,211.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
9/4/2013 12:00AM	MESAVERDE/			7,258.0	7,259.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
9/4/2013 12:00AM	MESAVERDE/			7,284.0	7,285.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
9/4/2013 12:00AM	MESAVERDE/			7,296.0	7,297.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
9/4/2013 12:00AM	MESAVERDE/			7,308.0	7,309.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
9/4/2013 12:00AM	MESAVERDE/			7,330.0	7,331.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
9/4/2013 12:00AM	MESAVERDE/			7,372.0	7,373.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
9/4/2013 12:00AM	MESAVERDE/			7,410.0	7,411.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
9/4/2013 12:00AM	MESAVERDE/			7,430.0	7,431.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
9/4/2013 12:00AM	MESAVERDE/			7,444.0	7,445.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
9/4/2013 12:00AM	MESAVERDE/			7,460.0	7,461.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	

2.1 Perforated Interval (Continued)

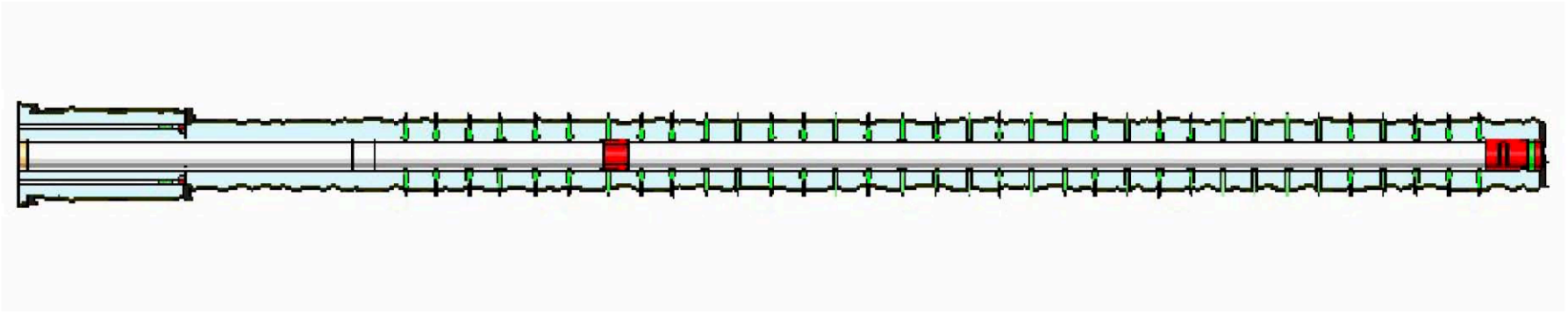
Date	Formation/ Reservoir	CCL@ (usft)	CCL-TS (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diameter (in)	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
9/4/2013 12:00AM	MESAVERDE/			7,494.0	7,495.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
9/4/2013 12:00AM	MESAVERDE/			7,516.0	7,517.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
9/4/2013 12:00AM	MESAVERDE/			7,530.0	7,531.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
9/4/2013 12:00AM	MESAVERDE/			7,570.0	7,571.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
9/4/2013 12:00AM	MESAVERDE/			7,580.0	7,581.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
9/4/2013 12:00AM	MESAVERDE/			7,608.0	7,609.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
9/4/2013 12:00AM	MESAVERDE/			7,622.0	7,623.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
9/4/2013 12:00AM	MESAVERDE/			7,636.0	7,637.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
9/4/2013 12:00AM	MESAVERDE/			7,655.0	7,656.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
9/4/2013 12:00AM	MESAVERDE/			7,670.0	7,671.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
9/4/2013 12:00AM	MESAVERDE/			7,700.0	7,701.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
9/4/2013 12:00AM	MESAVERDE/			7,756.0	7,757.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
9/4/2013 12:00AM	MESAVERDE/			7,768.0	7,769.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
9/4/2013 12:00AM	MESAVERDE/			7,784.0	7,785.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
9/4/2013 12:00AM	MESAVERDE/			7,807.0	7,808.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
9/4/2013 12:00AM	MESAVERDE/			7,830.0	7,831.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
9/4/2013 12:00AM	MESAVERDE/			7,878.0	7,879.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
9/4/2013 12:00AM	MESAVERDE/			7,920.0	7,921.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
9/4/2013 12:00AM	MESAVERDE/			7,944.0	7,945.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
9/4/2013 12:00AM	MESAVERDE/			7,990.0	7,992.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
9/4/2013 12:00AM	MESAVERDE/			8,129.0	8,131.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (usft)	CCL-TS (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diameter (in)	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
9/4/2013 12:00AM	MESAVERDE/			8,142.0	8,144.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
9/4/2013 12:00AM	MESAVERDE/			8,250.0	8,252.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	

3 Plots

3.1 Wellbore Schematic



US ROCKIES REGION

Operation Summary Report

Well: NBU 1022-12P1BS YELLOW		Spud Date: 5/14/2013	
Project: UTAH-UINTAH	Site: NBU 1022-12P PAD		Rig Name No: MILES 3/3
Event: COMPLETION	Start Date: 8/6/2013		End Date: 9/9/2013
Active Datum: RKB @5,281.00usft (above Mean Sea Level)	UWI: SE/SE/0/10/S/22/E/12/0/0/26/PM/S/1109/E/0/461/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
7/16/2013	-							
8/6/2013	9:00 - 10:00	1.00	SUBSPR	52	B	P		FILL SURFACE CSG. MIRU CAMERON QUICK TEST. PRESSURE TEST CSG & FRAC VALVES 1ST PSI TEST T/ 7000 PSI. HELD FOR 15 MIN LOST 100 PSI. NO COMMUNICATION OR MIGRATION WITH SURFACE CSG BLEED OFF PSI. PRESSURE TEST 8 5/8 X 4 1/2 TO 521 PSI HELD FOR 5 MIN LOST -83 PSI,BLED PSI OFF, REINSTALLED POP OFF SWIFN NO PRESSURE ON SURFACE CASING FILLED SURFACE WITH 3 BBL H2O
8/9/2013	7:00 - 7:15	0.25	SUBSPR	48		P		HSM, REVIEW RIGGING UP
	7:15 - 7:15	0.00	SUBSPR	37	B	P		MIRU CASED HOLE SOLUTIONS, P/U RIH W/ PERF GUN AND GOT STUCK @=3,770', WORKED FREE, PULLED OUT OF HOLE AND HUNG UP @=2,754, DID NOT 1ST SHOOT
8/10/2013	8:00 - 13:00	5.00	SUBSPR	41		P		RU HALLIBURTON, RIN WITH MULTI-FINGER CALIPER LOG RAN LOG FROM 4000' TO 2000' FOUND BAD PIPE AS BELOW CSG COLLAR @ 2710 SLIGHT DAMAGE @ 2708-09 CSG COLLAR @ 2755 SEVERE DAMAGE @ 2753-54 MIN ID 3.3 ID, MAX ID 3.4 ID, AVG ID 3.38 CSG COLLAR @ 3770 SEVERE DAMAGE @ 3770 MIN ID 3.3 ID, MAX ID 3.6 ID, AVG ID 3.55 POOH, RD WL, WAIT FOR RIG TO SWEDGE CSG
8/26/2013	7:00 - 7:30	0.50	SUBSPR	48		P		HSM, PICKING UP SWEGING TOOLS.
	7:30 - 17:00	9.50	SUBSPR	31	B	P		SICP 800 PSI, BLEW WELL DWN ND WH, NU BOPS, RU FLOOR, TALLY & PU 3.750 SWEDGE, & DRAIN SUB, 2- 31/8 COLLARS , BS, JARS, 2- 31/8 COLLARS, INTENSIFIRE, 4-31/8 COLLARS, X/O, 77 JTS 23/8 L-80.NEVER TAGGED FIRST SPOT @ 2710' RIH TAG UP @ 2758' SWEDGED TROUGH RIH TO 2828', L/D 4 JTS, POOH W/ 76 JTS & BHA.PU 3.875 OD SWEDGE, RIH W/ BHA & 77 JTS TAG UP @ 2716' SWEDGED TROUGH, RIH SWEDGED TROUGH SPOT @ 2758' WORKED SWEDGE TROUGH BOTH SPOTS SEVERAL TIMES SLIGHT DRAG, PULLED ABOVE TO SPOT SWI SDFN.
8/27/2013	7:00 - 7:30	0.50	SUBSPR	48		P		HSM, TRIPPING TBG.

RECEIVED: Oct. 07, 2013

US ROCKIES REGION

Operation Summary Report

Well: NBU 1022-12P1BS YELLOW		Spud Date: 5/14/2013	
Project: UTAH-UINTAH	Site: NBU 1022-12P PAD		Rig Name No: MILES 3/3
Event: COMPLETION	Start Date: 8/6/2013		End Date: 9/9/2013
Active Datum: RKB @5,281.00usft (above Mean Sea Level)	UWI: SE/SE/0/10/S/22/E/12/0/0/26/PM/S/1109/E/0/461/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	7:30 - 17:30	10.00	SUBSPR	31	B	P		SICP 150 PSI BLEW WELL DWN. WORKED 3.875 SWEDGE TROUGH TIGHT SPOTS @ 2716' & 2758', SLIGHT DRAG ON SPOT @ 2758' POOH PU 3 1/4 SWEDGE ADDED 2 MORE 31/8 COLLARS TO BHA & RIH, TAG UP @ 3761' 108 JTS & BHA IN HOLE, WORKED SWEDGE TROUGH W/ SLIGHT DRAG, POOH PU 3.750 SWEDGE RIH TAG UP @ 3761' WORKED SWEDGE TROUGH, POOH L/D 3.750 SWEDGE, ND TBG SPOOL & NU BOPS ON CSG, RIH W/ 3.875 SWEDGE & BHA & TBG TAG UP @ 3761' SWEDGED TROUGH & WORKED SEDGE TROUGH SPOT SEVERAL TIMES, PULLED ABOVE 3761' SWI SDFN.
8/28/2013	7:00 - 7:30	0.50	SUBSPR	48		P		HSM, WORKING W/ SWEDGEING EQUIP.
	7:30 - 16:30	9.00	SUBSPR	31	B	P		N.SICP O, WORKED SWEDGE TROUGH TIGHT SPOT @ 3761' SEVERAL TIMES SLIGHT DRAG, POOH WORK SWEDGE TROUGH SPOTS @ 2758' & 2716' SLIGHT DRAG STILL, POOH, RU CUTTERS WL, RIH W/ 3.70 GAUGE RING TAGGED UP @ 4168', POOH REMOVED GR, RIH W/ 31/8 CCL & WEIGHT BAR, TAGGED UP @ 4168' AGAIN. CALLED FOR SMALLER CCLS. RIH W/ 2.750 GR GOT TROUGH COLLAR @ 4168' RIH TO 5071' INTO LTC CSG, POOH RD CUTTERS. PU RIH W/ 31/4 SWEDGE BHA & 121 JTS TAG UP @ 4168', GOT SWEDGE TROUGH & WORKED UP & DWN SEVERAL TIMES, POOH L/D 31/4 SWEDGE, SWI SDFN.
8/29/2013	7:00 - 7:30	0.50	SUBSPR	48		P		HSM, WORKING W/ LOGGING TRUCK.
	7:30 - 15:30	8.00	SUBSPR	34		P		SICP 50, RU HALIBURTON, RIH RAN CALIPER LOG F/ 8300' UP TO 2500', ABOVE ALL BAD SPOTS, NO BAD SPOTS BELOW 4168 SEEN. RD WL.
	15:30 - 17:30	2.00	SUBSPR	31	B	P		PU RIH 3.750 SWEDGE ,BHA & 121 JTS TBG TAG UP @ 4168', SWEDGED TROUGH @ 4168', WORKED UP & DWN SEVERAL TIMES,RIH TO 4348' NOTHING TAGGED, PULL ABOVE TIGHT SPOT @ 4168' SWI SDFN.
8/30/2013	7:00 - 7:30	0.50	SUBSPR	48		P		HSM, TRIPPING SWEDGING TOOLS.
	7:30 - 18:30	11.00	SUBSPR	31	B	P		SICP 0, WORKED 3.750 SWEDGE TROUGH SPOT @ 4168' NO DRAG, POOH, PU 3.875 SWEDGE RIH SWEDGE TROUGH SPOT @ 4168', RIH TO 4348' NOTHING TAGGED. POOH. RU CUTTERS RIH W/ 3.70 GAUGE RING TO 8300' NOTHING TAGGED.POOH RD WL.RIH W/ BHA & L/D SAME.RIH W/ 37/8 BIT & 133 JTS EOT @ 4230 ' NOTHING TAGGED. POOH L/D 133 JTS & BIT. ND BOPS NU FV.RU CAMERON TEST CSG TO 6200 PSI FOR 15 MIN.LOST 47 PSI GOOD TEST. SWI, RD CAMERON SDFWE TIGHT SPOTS SWEDGED TO 3.875 2716' 2758' 3761' 4168'

US ROCKIES REGION

Operation Summary Report

Well: NBU 1022-12P1BS YELLOW		Spud Date: 5/14/2013	
Project: UTAH-UINTAH	Site: NBU 1022-12P PAD		Rig Name No: MILES 3/3
Event: COMPLETION	Start Date: 8/6/2013		End Date: 9/9/2013
Active Datum: RKB @5,281.00usft (above Mean Sea Level)	UWI: SE/SE/0/10/S/22/E/12/0/0/26/PM/S/1109/E/0/461/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
8/31/2013	9:00 - 11:00	2.00	SUBSPR	37		P		PERF STG 1)PU 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. RIH PERFWELL, AS PER PERF DESIGN. POOH. SWIFW
9/4/2013	6:45 - 7:00	0.25	FRAC	48		P		HELD SAFETY MEETING : HIGH PRESSURE

RECEIVED: Oct. 07, 2013

US ROCKIES REGION

Operation Summary Report

Well: NBU 1022-12P1BS YELLOW		Spud Date: 5/14/2013	
Project: UTAH-UINTAH	Site: NBU 1022-12P PAD		Rig Name No: MILES 3/3
Event: COMPLETION	Start Date: 8/6/2013		End Date: 9/9/2013
Active Datum: RKB @5,281.00usft (above Mean Sea Level)	UWI: SE/SE/0/10/S/22/E/12/0/0/26/PM/S/1109/E/0/461/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	7:00 - 18:00	11.00	FRAC	36	B	P		49.8PRESURE TEST TO 7222 PSI LOST 742 PSI 15 MIN GOOD FRAC STG 1)WHP 1560 PSI, BRK 3699 PSI @ 2.8 BPM. ISIP 2985 PSI, FG .83 CALC HOLES OPEN @ 45.5 BPM @ 5407 PSI = 100% HOLES OPEN. (24/24 HOLES OPEN) ISIP 2593 PSI, FG .78, NPI -392 PSI. MP 5771 PSI, MR 51.8 BPM, AP 4868 PSI, AR 38.5 BPM PUMPED 30/50 OTTAWA SAND IN THIS STAGE X-OVER FOR W L PERF STG 2)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 7,975' P/U PERF AS PER PERF DESIGN. POOH. X-OVER FOR FRAC CREW FRAC STG 2)WHP 2344 PSI, BRK 2930 PSI @ 2.5 BPM. ISIP 2108 PSI, FG .70. CALC HOLES OPEN @ 49.1 BPM @ 4860 PSI = 83% HOLES OPEN. (20/24 HOLES OPEN) ISIP 2490 PSI, FG .75, NPI 382 PSI. MP 5566 PSI, MR 50.9 BPM, AP 4674 PSI, AR 48.0 BPM PUMPED 30/50 OTTAWA SAND IN THIS STAGE X-OVER FOR W L PERF STG 3)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 7,731' P/U PERF AS PER PERF DESIGN. POOH. X-OVER FOR FRAC CREW FRAC STG 3)WHP 454 PSI, BRK 3215 PSI @ 3.7 BPM. ISIP 2453 PSI, FG .75. CALC HOLES OPEN @ 49.4 BPM @ 5145 PSI = 88% HOLES OPEN. (21/24 HOLES OPEN) ISIP 2033 PSI, FG .70, NPI -420 PSI. MP 5632 PSI, MR 50.9 BPM, AP 4614 PSI, AR 47.9 BPM PUMPED 30/50 OTTAWA SAND IN THIS STAGE X-OVER FOR W L PERF STG 4)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 7,551' P/U PERF AS PER PERF DESIGN. POOH. X-OVER FOR FRAC CREW FRAC STG 4)WHP 1707 PSI, BRK 2051 PSI @ 3.9 BPM. ISIP 1744 PSI, FG .67. CALC HOLES OPEN @ 51.4 BPM @ 4678 PSI = 83% HOLES OPEN. (20/24 HOLES OPEN) ISIP 2095 PSI, FG .71, NPI 351 PSI. MP 4827 PSI, MR 51.7 BPM, AP 4038 PSI, AR 50.1 BPM PUMPED 30/50 OTTAWA SAND IN THIS STAGE

US ROCKIES REGION

Operation Summary Report

Well: NBU 1022-12P1BS YELLOW		Spud Date: 5/14/2013	
Project: UTAH-UINTAH	Site: NBU 1022-12P PAD		Rig Name No: MILES 3/3
Event: COMPLETION	Start Date: 8/6/2013		End Date: 9/9/2013
Active Datum: RKB @5,281.00usft (above Mean Sea Level)	UWI: SE/SE/0/10/S/22/E/12/0/0/26/PM/S/1109/E/0/461/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
								X-OVER FOR W L PERF STG 5)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 7,346' P/U PERF AS PER PERF DESIGN. POOH. X-OVER FOR FRAC CREW FRAC STG 5)WHP 1875 PSI, BRK 2424 PSI @ 4.9 BPM. ISIP 1967 PSI, FG .70. CALC HOLES OPEN @ 51.6 BPM @ 4546 PSI = 96% HOLES OPEN. (23/24 HOLES OPEN) ISIP 2068 PSI, FG .72, NPI 101 PSI. MP 4841 PSI, MR 53.1 BPM, AP 4072 PSI, AR BPM PUMPED 30/50 OTTAWA SAND IN THIS STAGE X-OVER FOR W L PERF STG 6)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 7,090' P/U PERF AS PER PERF DESIGN. POOH. X-OVER FOR FRAC CREW FRAC STG 6)WHP 1308 PSI, BRK 2274 PSI @ 2.6 BPM. ISIP 1583 PSI, FG .66. CALC HOLES OPEN @ 50.0 BPM @ 4416 PSI = 83% HOLES OPEN. (20/24 HOLES OPEN) ISIP 2025 PSI, FG .72, NPI 442 PSI. MP 4735 PSI, MR 52.0 BPM, AP 4031 PSI, AR 49.7 BPM PUMPED 30/50 OTTAWA SAND IN THIS STAGE X-OVER FOR W L PERF STG 7)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 6,811' P/U PERF AS PER PERF DESIGN. POOH. X-OVER FOR FRAC CREW FRAC STG 7)WHP 99 PSI, BRK 1867 PSI @ 3.1 BPM. ISIP 1440 PSI, FG .65. CALC HOLES OPEN @ 51.3 BPM @ 4417 PSI = 79% HOLES OPEN. (19/24 HOLES OPEN) ISIP 2125 PSI, FG .75, NPI 685 PSI. MP 4918 PSI, MR 51.8 BPM, AP 4102 PSI, AR 48.2 BPM PUMPED 30/50 OTTAWA SAND IN THIS STAGE, SWIFN
9/5/2013	6:30 - 6:45	0.25	FRAC	48		P		HELD SAFETY MEETING , RD MOVE OFF LOCATION

US ROCKIES REGION

Operation Summary Report

Well: NBU 1022-12P1BS YELLOW		Spud Date: 5/14/2013	
Project: UTAH-UINTAH	Site: NBU 1022-12P PAD		Rig Name No: MILES 3/3
Event: COMPLETION	Start Date: 8/6/2013		End Date: 9/9/2013
Active Datum: RKB @5,281.00usft (above Mean Sea Level)	UWI: SE/SE/0/10/S/22/E/12/0/0/26/PM/S/1109/E/0/461/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	6:45 - 15:00	8.25	FRAC	36	B	P		PERF STG 8)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 6,500' P/U PERF AS PER PERF DESIGN. POOH. X-OVER FOR FRAC CREW FRAC STG 8)WHP 285 PSI, BRK 1603 PSI @ 2.9 BPM. ISIP 1160 PSI, FG .62. CALC HOLES OPEN @ 52.0 BPM @ 3430 PSI = 100% HOLES OPEN. (24/24 HOLES OPEN) ISIP 2180 PSI, FG .78, NPI 1020 PSI. MP 4182 PSI, MR 52.4 BPM, AP 3416 PSI, AR 50.4 BPM PUMPED 30/50 OTTAWA SAND IN THIS STAGE X-OVER FOR W L PERF STG 9)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 6,198' P/U PERF AS PER PERF DESIGN. POOH. X-OVER FOR FRAC CREW FRAC STG 9)WHP 210 PSI, BRK 3276 PSI @ 2.8 BPM. ISIP 2220 PSI, FG .80. CALC HOLES OPEN @ 51.9 BPM @ 4271 PSI = 100% HOLES OPEN. (24/24 HOLES OPEN) ISIP 2016 PSI, FG .77, NPI -204 PSI. MP 4700 PSI, MR 52.1 BPM, AP 3786 PSI, AR 49.2 BPM PUMPED 30/50 OTTAWA SAND IN THIS STAGE X-OVER FOR W L PERF STG 10)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 5,894' P/U PERF AS PER PERF DESIGN. POOH. X-OVER FOR FRAC CREW FRAC STG 10)WHP 320 PSI, BRK 2510 PSI @ 3.0 BPM. ISIP 1585 PSI, FG .71. CALC HOLES OPEN @ 50.9 BPM @ 3719 PSI = 100% HOLES OPEN. (24/24 HOLES OPEN) ISIP 1556 PSI, FG .70, NPI -29 PSI. MP 4026 PSI, MR 51.5 BPM, AP 3359 PSI, AR 49.6 BPM PUMPED 30/50 OTTAWA SAND IN THIS STAGE X-OVER FOR W L PERF STG 11)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 5,707' P/U PERF AS PER PERF DESIGN. POOH. X-OVER FOR FRAC CREW FRAC STG 11)WHP 935 PSI, BRK 1690 PSI @ 2.9 BPM. ISIP 1327 PSI, FG .67. CALC HOLES OPEN @ 52.0 BPM @ 3974 PSI = 80% HOLES OPEN. (20/24 HOLES OPEN) ISIP 1491 PSI, FG .70, NPI 164 PSI. MP 4004 PSI, MR 52.1 BPM, AP 3328 PSI, AR 48.9

US ROCKIES REGION

Operation Summary Report

Well: NBU 1022-12P1BS YELLOW		Spud Date: 5/14/2013	
Project: UTAH-UINTAH	Site: NBU 1022-12P PAD		Rig Name No: MILES 3/3
Event: COMPLETION	Start Date: 8/6/2013		End Date: 9/9/2013
Active Datum: RKB @5,281.00usft (above Mean Sea Level)	UWI: SE/SE/0/10/S/22/E/12/0/0/26/PM/S/1109/E/0/461/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
								BPM PUMPED 30/50 OTTAWA SAND IN THIS STAGE X-OVER FOR W L PU HALCO 8K CBP, RIH SET KILL PLUG @ 5,457 POOH RD FRAC & WL CREWS SWIFN TOTAL SAND= 305,100 # 30/50 OTTAWA TOTAL CLFL= 13,419 BBLS
9/6/2013	11:00 - 13:00	2.00	DRLOUT	30	A	P		MIRU F/ BON 1023-7J2AS.ND WH NU BOPS & WTR BOWL.
	13:00 - 17:00	4.00	DRLOUT	31	I	P		TALLY & PU 37/8 BIT, POBS, 1.875 X/N & 79 JTS 23/8 J-55, SWI, SDFWE
9/9/2013	7:00 - 7:30	0.50	DRLOUT	48		P		HSM, D/O CBPS WATCHING FOR LEAKS,
	7:30 - 10:30	3.00	DRLOUT	31	I	P		SICP 0, PU REM 71 JTS 23/8 J-55, 6' L80 PUP, 32 JTS 23/8 L-80,TAG UP @ 5427', RU DRLG EQUIP, BROKE CIRC CONV, TEST BOPS TO 3,000 PSI.

RECEIVED: Oct. 07, 2013

US ROCKIES REGION

Operation Summary Report

Well: NBU 1022-12P1BS YELLOW		Spud Date: 5/14/2013	
Project: UTAH-UINTAH	Site: NBU 1022-12P PAD		Rig Name No: MILES 3/3
Event: COMPLETION	Start Date: 8/6/2013		End Date: 9/9/2013
Active Datum: RKB @5,281.00usft (above Mean Sea Level)	UWI: SE/SE/0/10/S/22/E/12/0/0/26/PM/S/1109/E/0/461/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	10:30 - 17:30	7.00	DRLOUT	44	C	P		RIH C/O 30' SAND TAG 1ST PLUG @ 5457' DRL PLG IN 7 MIN, 0 PSI INCREASE RIH. C/O 20' SAND TAG 2ND PLUG @ 5707' DRL PLG IN 3 MIN, 100 PSI INCREASE RIH. C/O 35' SAND TAG 3RD PLUG @ 5921' DRL PLG IN 2 MIN, 100 PSI INCREASE RIH. C/O 35' SAND TAG 4TH PLUG @ 6198' DRL PLG IN 2 MIN, 200 PSI INCREASE RIH. C/O 35' SAND TAG 5TH PLUG @ 6500' DRL PLG IN 4 MIN, 300 PSI INCREASE RIH. C/O 25' SAND TAG 6TH PLUG @ 6811' DRL PLG IN 3 MIN, 400 PSI INCREASE RIH. C/O 35' SAND TAG 7TH PLUG @ 7090' DRL PLG IN 4 MIN, 0 PSI INCREASE RIH. C/O 30' SAND TAG 8TH PLUG @ 7346' DRL PLG IN 4 MIN, 300 PSI INCREASE RIH. C/O 20' SAND TAG 9TH PLUG @ 7551' DRL PLG IN 2 MIN, 0 PSI INCREASE RIH. C/O 35' SAND TAG 10TH PLUG @ 7731' DRL PLG IN 3 MIN, 400 PSI INCREASE RIH. C/O 25' SAND TAG 11TH PLUG @ 7975' DRL PLG IN 4 MIN, 300 PSI INCREASE RIH. C/O TO 8352, CIRC CLN, RD SWIVEL, L/D 20 JTS, LAND TBG, ND BOPS NU WH, TEST FLOW LINE TO 3,000 PSI, PUMPED OFF BIT, TURN WELL TO FB CREW.RIG DWN SDFN. KB = 19' 41/16 HANGER = .83' (SURFACE VALVE OPEN & LOCKED) 103 JTS 23/8 L-80 = 3267.21' SICP 1500 100 FTP 6' L-80 PUP JT = 6.13' 150 JTS 23/8 J-55 = 4432.85' POBS W/ 1.875 X/N = 2.20' EOT @ 7728.22' TWTR 13,739 BBLS TWR 1200 BBLS TWLTR 12,539 BBLS 315 JT HAULED OUT, 150 J-55, 165 L-80. 253 LANDED

US ROCKIES REGION

Operation Summary Report

Well: NBU 1022-12P1BS YELLOW		Spud Date: 5/14/2013	
Project: UTAH-UINTAH	Site: NBU 1022-12P PAD		Rig Name No: MILES 3/3
Event: COMPLETION	Start Date: 8/6/2013		End Date: 9/9/2013
Active Datum: RKB @5,281.00usft (above Mean Sea Level)	UWI: SE/SE/0/10/S/22/E/12/0/0/26/PM/S/1109/E/0/461/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
								62 TO RETURN, L-80
	17:30 - 17:30	0.00	DRLOUT	50				WELL TURNED TO SALES @ 1700 HR ON 9/9/2013. 1700 MCFD, 1560 BWPD, FCP 1800#, FTP 1600#, 20/64" CK.

RECEIVED: Oct. 07, 2013

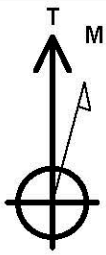
API Well Number: 43047519680000

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

Scientific Drilling

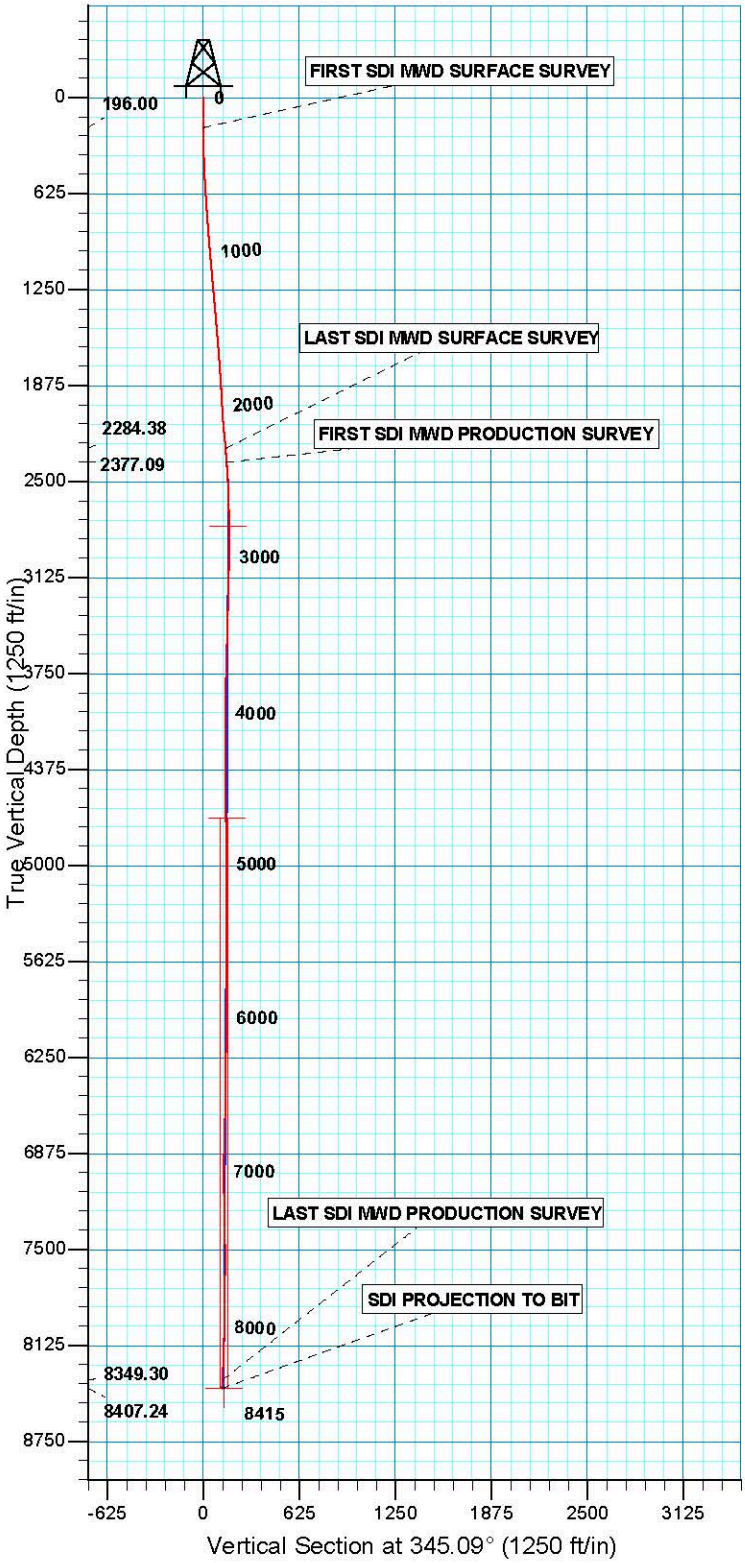
Anadarko Petroleum Corporation

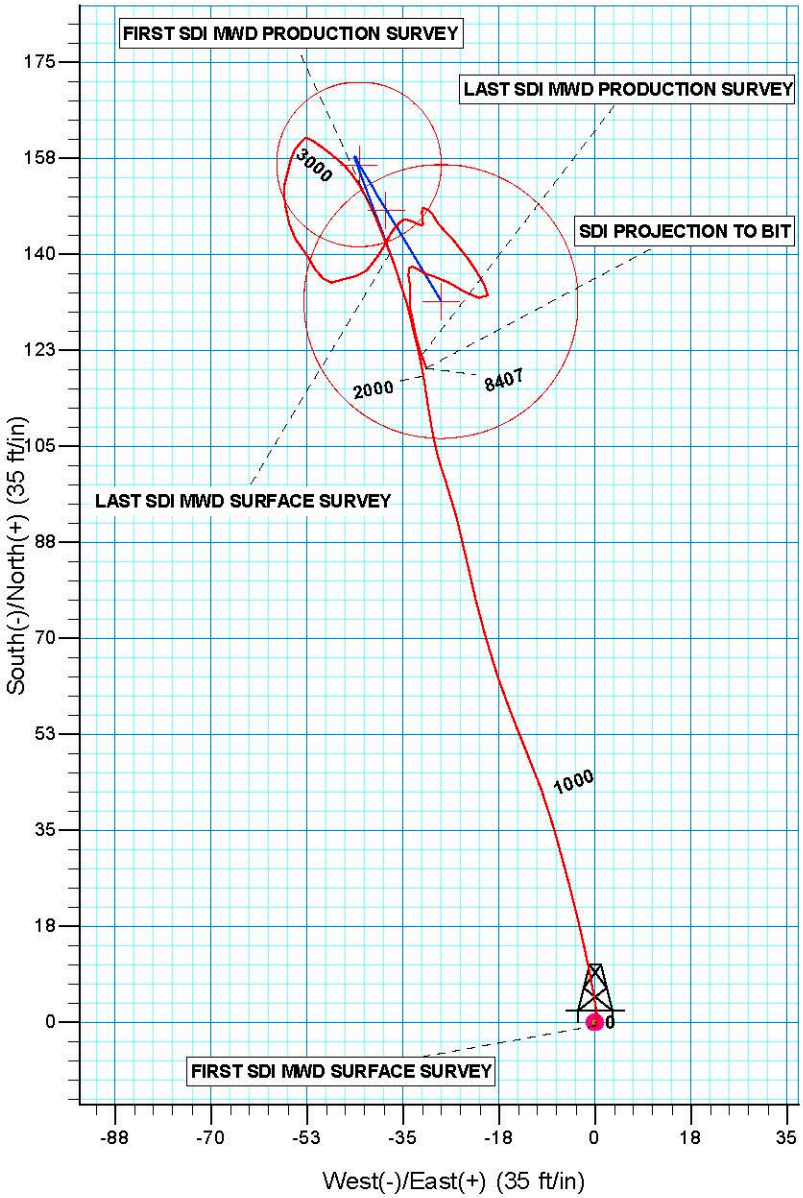
WELL DETAILS: NBU 1022-12P1BS					
GL 5262 & KB 4 @ 5281.00ft (PIONEER 54)					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	14515330.73	2094437.90	39.959254	-109.379834



Azimuths to True North
Magnetic North: 11.00°

Magnetic Field
Strength: 52303.4snT
Dip Angle: 65.85°
Date: 08/19/2011
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 12 T10S R22E
System Datum:	Mean Sea Level

Design: OH (NBU 1022-12P1BS/OH)
Created By: Gabe Kendall Date: 12:54, July 23 2013

API Well Number: 43047519680000

Scientific Drilling

US ROCKIES REGION PLANNING

UTAH - UTM (feet), NAD27, Zone 12N
NBU 1022-12P PAD
NBU 1022-12P1BS

OH

Design: OH

Standard Survey Report

23 July, 2013

Anadarko Petroleum Corporation

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Scientific Drilling

SDI
Survey Report

Anadarko Petroleum Corporation

Company:	US ROCKIES REGION PLANNING	**Local Co-ordinate Reference:**	Well NBU 1022-12P1BS
Project:	UTAH - UTM (feet), NAD27, Zone 12N	**TVD Reference:**	GL 5262 & KB 4 @ 5281.00ft (PIONEER 54)
Site:	NBU 1022-12P PAD	**MD Reference:**	GL 5262 & KB 4 @ 5281.00ft (PIONEER 54)
Well:	NBU 1022-12P1BS	**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 1022-12P PAD, SECTION 12 T10S R22E				
Site Position:		**Northing:**	14,515,334.19 usft	**Latitude:**	39.959263
From:	Lat/Long	**Easting:**	2,094,447.37 usft	**Longitude:**	-109.379800
Position Uncertainty:	0.00 ft	**Slot Radius:**	13.200 in	**Grid Convergence:**	1.04 °

Well	NBU 1022-12P1BS, 1109 FSL 461 FEL				
Well Position	**+N/-S** 0.00 ft	**Northing:**	14,515,330.74 usft	**Latitude:**	39.959254
	+E/-W 0.00 ft	**Easting:**	2,094,437.90 usft	**Longitude:**	-109.379834
Position Uncertainty	0.00 ft	**Wellhead Elevation:**	ft	**Ground Level:**	5,262.00 ft

Wellbore	OH				
Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	IGRF2010	08/19/11	11.00	65.85	52,303

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	345.09

Survey Program **Date** 07/23/13

From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
15.00	2,290.00	Survey #1 SDI MWD SURFACE (OH)	SDI MWD	SDI MWD - Standard ver 1.0.1
2,383.00	8,415.00	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
15.00	0.00	0.00	15.00	0.00	0.00	0.00	0.00	0.00	0.00
196.00	0.35	165.55	196.00	-0.54	0.14	-0.55	0.19	0.19	0.00
FIRST SDI MWD SURFACE SURVEY									
283.00	0.55	28.66	283.00	-0.43	0.40	-0.52	0.97	0.23	-157.34
370.00	1.68	352.33	369.98	1.20	0.43	1.05	1.47	1.30	-41.76
463.00	2.55	350.21	462.92	4.59	-0.10	4.46	0.94	0.94	-2.28
553.00	3.52	348.01	552.79	9.27	-1.01	9.22	1.09	1.08	-2.44
643.00	4.23	347.93	642.58	15.22	-2.28	15.29	0.79	0.79	-0.09
733.00	4.48	345.55	732.32	21.87	-3.85	22.12	0.34	0.28	-2.64

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SDI
Survey Report

Anadarko Petroleum Corporation

Company:	US ROCKIES REGION PLANNING	**Local Co-ordinate Reference:**	Well NBU 1022-12P1BS
Project:	UTAH - UTM (feet), NAD27, Zone 12N	**TVD Reference:**	GL 5262 & KB 4 @ 5281.00ft (PIONEER 54)
Site:	NBU 1022-12P PAD	**MD Reference:**	GL 5262 & KB 4 @ 5281.00ft (PIONEER 54)
Well:	NBU 1022-12P1BS	**North Reference:**	True
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	EDM 5000.1 Single User Db

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
823.00	4.52	345.41	822.05	28.70	-5.62	29.18	0.05	0.04	-0.16
913.00	4.47	343.66	911.77	35.50	-7.50	36.24	0.16	-0.06	-1.94
1,003.00	4.75	340.01	1,001.48	42.37	-9.76	43.45	0.45	0.31	-4.06
1,093.00	4.98	337.21	1,091.15	49.47	-12.55	51.04	0.37	0.26	-3.11
1,183.00	4.75	339.22	1,180.83	56.56	-15.39	58.61	0.32	-0.26	2.23
1,273.00	4.45	341.11	1,270.54	63.34	-17.84	65.80	0.37	-0.33	2.10
1,363.00	4.66	345.73	1,360.26	70.19	-19.87	72.94	0.47	0.23	5.13
1,453.00	4.48	344.49	1,449.97	77.12	-21.71	80.11	0.23	-0.20	-1.38
1,543.00	4.96	348.91	1,539.66	84.33	-23.40	87.51	0.67	0.53	4.91
1,633.00	5.41	345.32	1,629.30	92.25	-25.22	95.63	0.62	0.50	-3.99
1,723.00	4.84	340.54	1,718.94	99.93	-27.56	103.66	0.79	-0.63	-5.31
1,813.00	3.78	349.33	1,808.68	106.43	-29.38	110.40	1.38	-1.18	9.77
1,903.00	2.99	350.65	1,898.52	111.66	-30.31	115.70	0.88	-0.88	1.47
1,993.00	3.96	350.82	1,988.36	117.04	-31.19	121.13	1.08	1.08	0.19
2,083.00	4.69	347.47	2,078.10	123.70	-32.48	127.90	0.86	0.81	-3.72
2,173.00	4.84	344.41	2,167.79	130.95	-34.30	135.37	0.33	0.17	-3.40
2,263.00	4.84	340.45	2,257.47	138.19	-36.59	142.95	0.37	0.00	-4.40
2,290.00	4.66	339.48	2,284.38	140.29	-37.35	145.18	0.73	-0.67	-3.59
LAST SDI MWD SURFACE SURVEY									
2,383.00	4.40	336.66	2,377.09	147.10	-40.09	152.46	0.37	-0.28	-3.03
FIRST SDI MWD PRODUCTION SURVEY									
2,478.00	3.25	328.40	2,471.87	152.74	-42.95	158.65	1.34	-1.21	-8.69
2,572.00	2.46	311.87	2,565.76	156.36	-45.85	162.89	1.21	-0.84	-17.59
2,667.00	1.93	307.57	2,660.69	158.69	-48.63	165.86	0.58	-0.56	-4.53
2,761.00	1.93	304.14	2,754.63	160.55	-51.20	168.32	0.12	0.00	-3.65
2,856.00	0.44	231.37	2,849.61	161.22	-52.81	169.38	1.95	-1.57	-76.60
2,951.00	0.97	223.63	2,944.61	160.41	-53.65	168.81	0.57	0.56	-8.15
3,046.00	0.88	218.01	3,039.59	159.25	-54.65	167.95	0.13	-0.09	-5.92
3,140.00	1.23	196.56	3,133.58	157.72	-55.38	166.65	0.56	0.37	-22.82
3,235.00	1.67	189.71	3,228.55	155.37	-55.91	164.53	0.50	0.46	-7.21
3,330.00	1.85	198.41	3,323.50	152.55	-56.62	161.99	0.34	0.19	9.16
3,425.00	2.29	163.43	3,418.44	149.28	-56.57	158.81	1.38	0.46	-36.82
3,520.00	2.37	170.98	3,513.37	145.52	-55.72	154.96	0.33	0.08	7.95
3,616.00	1.41	135.83	3,609.32	142.71	-54.58	151.95	1.52	-1.00	-36.61
3,711.00	1.23	147.52	3,704.29	141.01	-53.22	149.96	0.34	-0.19	12.31
3,806.00	1.23	147.87	3,799.27	139.29	-52.13	148.01	0.01	0.00	0.37
3,900.00	1.49	150.95	3,893.24	137.37	-51.00	145.87	0.29	0.28	3.28
3,995.00	1.32	128.71	3,988.21	135.60	-49.55	143.79	0.60	-0.18	-23.41
4,090.00	0.88	87.22	4,083.20	134.96	-47.97	142.75	0.93	-0.46	-43.67
4,185.00	1.67	69.56	4,178.17	135.47	-45.94	142.73	0.92	0.83	-18.59
4,281.00	1.32	82.65	4,274.14	136.10	-43.53	142.72	0.51	-0.36	13.64
4,375.00	1.58	43.63	4,368.11	137.18	-41.56	143.26	1.06	0.28	-41.51
4,469.00	1.67	32.47	4,462.08	139.27	-39.93	144.86	0.35	0.10	-11.87

RECEIVED: Oct. 07, 2013

Scientific Drilling

SDI
Survey Report

Anadarko Petroleum Corporation

Company:	US ROCKIES REGION PLANNING	**Local Co-ordinate Reference:**	Well NBU 1022-12P1BS
Project:	UTAH - UTM (feet), NAD27, Zone 12N	**TVD Reference:**	GL 5262 & KB 4 @ 5281.00ft (PIONEER 54)
Site:	NBU 1022-12P PAD	**MD Reference:**	GL 5262 & KB 4 @ 5281.00ft (PIONEER 54)
Well:	NBU 1022-12P1BS	**North Reference:**	True
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	EDM 5000.1 Single User Db

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,563.00	1.32	32.82	4,556.04	141.34	-38.61	146.52	0.37	-0.37	0.37
4,658.00	0.97	24.03	4,651.02	142.99	-37.69	147.88	0.41	-0.37	-9.25
4,753.00	1.06	36.95	4,746.01	144.43	-36.84	149.05	0.26	0.09	13.60
4,847.00	0.62	44.16	4,840.00	145.49	-35.96	149.84	0.48	-0.47	7.67
4,942.00	0.44	43.72	4,935.00	146.12	-35.35	150.30	0.19	-0.19	-0.46
5,037.00	0.44	85.99	5,029.99	146.41	-34.73	150.42	0.33	0.00	44.49
5,132.00	0.53	110.78	5,124.99	146.28	-33.96	150.09	0.24	0.09	26.09
5,227.00	0.44	102.52	5,219.99	146.05	-33.19	149.67	0.12	-0.09	-8.69
5,322.00	0.97	125.37	5,314.98	145.50	-32.18	148.88	0.62	0.56	24.05
5,416.00	0.35	15.68	5,408.97	145.32	-31.45	148.52	1.21	-0.66	-116.69
5,511.00	0.09	63.85	5,503.97	145.63	-31.31	148.78	0.31	-0.27	50.71
5,606.00	0.97	347.38	5,598.97	146.45	-31.42	149.60	1.00	0.93	-80.49
5,700.00	0.44	5.84	5,692.96	147.58	-31.55	150.73	0.61	-0.56	19.64
5,795.00	0.44	9.62	5,787.96	148.31	-31.46	151.41	0.03	0.00	3.98
5,890.00	0.18	130.82	5,882.96	148.57	-31.28	151.61	0.58	-0.27	127.58
5,985.00	0.53	109.20	5,977.96	148.33	-30.75	151.24	0.39	0.37	-22.76
6,080.00	0.35	131.87	6,072.95	147.99	-30.12	150.76	0.26	-0.19	23.86
6,175.00	0.79	152.00	6,167.95	147.22	-29.60	149.87	0.50	0.46	21.19
6,270.00	1.32	145.67	6,262.93	145.73	-28.67	148.20	0.57	0.56	-6.66
6,366.00	1.23	132.05	6,358.91	144.13	-27.29	146.30	0.33	-0.09	-14.19
6,460.00	0.97	134.07	6,452.89	142.90	-25.96	144.77	0.28	-0.28	2.15
6,555.00	1.41	146.73	6,547.87	141.36	-24.75	142.97	0.54	0.46	13.33
6,650.00	1.49	139.70	6,642.84	139.45	-23.31	140.75	0.21	0.08	-7.40
6,744.00	1.67	149.63	6,736.80	137.33	-21.82	138.32	0.35	0.19	10.56
6,839.00	2.11	147.08	6,831.75	134.67	-20.17	135.33	0.47	0.46	-2.68
6,934.00	0.88	202.63	6,926.72	132.53	-19.50	133.08	1.86	-1.29	58.47
7,029.00	1.67	282.43	7,021.70	132.15	-21.14	133.14	1.84	0.83	84.00
7,122.00	2.02	299.13	7,114.66	133.24	-23.89	134.90	0.69	0.38	17.96
7,216.00	1.85	303.00	7,208.60	134.87	-26.61	137.18	0.23	-0.18	4.12
7,311.00	1.58	279.71	7,303.56	135.93	-29.19	138.86	0.78	-0.28	-24.52
7,405.00	1.14	301.94	7,397.53	136.64	-31.26	140.09	0.72	-0.47	23.65
7,499.00	0.70	306.07	7,491.52	137.48	-32.52	141.21	0.47	-0.47	4.39
7,593.00	0.44	266.08	7,585.52	137.79	-33.34	141.73	0.49	-0.28	-42.54
7,686.00	0.53	215.55	7,678.52	137.42	-33.95	141.52	0.45	0.10	-54.33
7,780.00	1.06	166.85	7,772.51	136.22	-34.00	140.38	0.87	0.56	-51.81
7,874.00	0.79	177.40	7,866.49	134.72	-33.77	138.88	0.34	-0.29	11.22
7,968.00	1.49	181.44	7,960.48	132.85	-33.78	137.07	0.75	0.74	4.30
8,061.00	1.23	176.87	8,053.45	130.65	-33.75	134.93	0.30	-0.28	-4.91
8,155.00	1.67	163.69	8,147.42	128.32	-33.31	132.58	0.58	0.47	-14.02
8,249.00	1.85	172.65	8,241.37	125.51	-32.73	129.70	0.35	0.19	9.53
8,343.00	2.46	156.75	8,335.31	122.15	-31.74	126.20	0.90	0.65	-16.91
8,357.00	2.46	161.67	8,349.30	121.59	-31.53	125.60	1.51	0.00	35.14
LAST SDI MWD PRODUCTION SURVEY									
8,415.00	2.46	161.67	8,407.24	119.22	-30.75	123.12	0.00	0.00	0.00

RECEIVED: Oct. 07, 2013

Scientific Drilling

SDI
Survey Report

Anadarko Petroleum Corporation

Company:	US ROCKIES REGION PLANNING	**Local Co-ordinate Reference:**	Well NBU 1022-12P1BS
Project:	UTAH - UTM (feet), NAD27, Zone 12N	**TVD Reference:**	GL 5262 & KB 4 @ 5281.00ft (PIONEER 54)
Site:	NBU 1022-12P PAD	**MD Reference:**	GL 5262 & KB 4 @ 5281.00ft (PIONEER 54)
Well:	NBU 1022-12P1BS	**North Reference:**	True
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	EDM 5000.1 Single User Db

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
SDI PROJECTION TO BIT									

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
DTGT_NBU 1022-12P1I	0.00	0.00	2,792.15	156.48	-43.03	14,515,486.41	2,094,392.03	39.959684	-109.379988
- actual wellpath misses target center by 10.15ft at 2798.34ft MD (2791.96 TVD, 161.08 N, -52.08 E)									
- Circle (radius 15.00)									
TOC @ 4693.00 (NBU 1	0.00	0.00	4,693.00	148.17	-38.04	14,515,478.19	2,094,397.17	39.959661	-109.379970
- actual wellpath misses target center by 4.58ft at 4700.04ft MD (4693.06 TVD, 143.64 N, -37.36 E)									
- Point									
PBHL_NBU 1022-12P1E	0.00	0.00	8,407.00	131.48	-28.03	14,515,461.69	2,094,407.49	39.959615	-109.379934
- actual wellpath misses target center by 12.54ft at 8414.30ft MD (8406.54 TVD, 119.25 N, -30.76 E)									
- Circle (radius 25.00)									

Design Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
196.00	196.00	-0.54	0.14	FIRST SDI MWD SURFACE SURVEY
2,290.00	2,284.38	140.29	-37.35	LAST SDI MWD SURFACE SURVEY
2,383.00	2,377.09	147.10	-40.09	FIRST SDI MWD PRODUCTION SURVEY
8,357.00	8,349.30	121.59	-31.53	LAST SDI MWD PRODUCTION SURVEY
8,415.00	8,407.24	119.22	-30.75	SDI PROJECTION TO BIT

Checked By: _____ Approved By: _____ Date: _____

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

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5.LEASE DESIGNATION AND SERIAL NUMBER: UT ST UO 01197-

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 1022-12P1BS

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

9. API NUMBER: 43047519680000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER: 720 929-6526

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1109 FSL 0461 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESE Section: 12 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

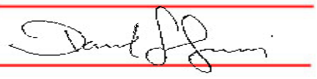
TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
✓ SUBSEQUENT REPORT Date of Work Completion: 11/26/2013	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ DRILLING REPORT Report Date:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	✓ OTHER	OTHER: ACTS PIT

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

FINISHED DRILLING TO 8415 ON 7/1/2013. CEMENTED PRODUCTION CASING. RELEASED PIONEER 54 RIG ON 7/2/2013. DETAILS OF CASING AND CEMENT WAS INCLUDED WITH THE WELL COMPLETION REPORT. THE PIT ON THIS LOCATION WILL BE REFURBISHED AND UTILIZED AS PART OF THE ACTS SYSTEM.

Approved by the Utah Division of Oil, Gas and Mining

Date: January 09, 2014

By: 

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Teena Paulo	720 929-6236	Staff Regulatory Specialist
SIGNATURE N/A		**DATE** 11/26/2013

RECEIVED: Nov. 26, 2013

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

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER:
UT ST UO 01197-

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 1022-12P1BS

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

9. API NUMBER:
43047519680000

3. ADDRESS OF OPERATOR:
PO BOX 173779 , DENVER, CO, 802173779

PHONE NUMBER:
720-929-6485

9. FIELD and POOL or WILDCAT:
NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE:
1109 FSL 461 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
Qtr/Qtr: SESE Section: 12 Township: 10S Range: 22E 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		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
✓ SUBSEQUENT REPORT Date of Work Completion: 7/12/2017	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ DRILLING REPORT Report Date:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	✓ OTHER	OTHER: WELLBORE CLEANOUT

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

A WELLBORE CLEANOUT HAS BEEN COMPLETED ON THE NBU 1022-12P1BS WELL. PLEASE SEE THE ATTACHED OPERATIONS SUMMARY REPORT FOR DETAILS.

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY
July 26, 2017

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Teisha Black	435 781-9724	Engineering Specialist
SIGNATURE		**DATE**
N/A		7/14/2017

RECEIVED: Jul. 14, 2017

US ROCKIES REGION

Operation Summary Report

Well: NBU 1022-12P1BS YELLOW		Spud date: 5/14/2013	
Project: UTAH-UINTAH	Site: NBU 1022-12P PAD		Rig name no.: ROCKY MOUNTAIN WELL SERVICE 3/3
Event: WELL WORK EXPENSE	Start date: 7/10/2017		End date: 7/12/2017
Active datum: RKB @5,281.00usft (above Mean Sea Level)	UWI: SE/SE/0/10/S/22/E/12/0/0/26/PM/S/1109/E/0/461/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD from (usft)	Operation
7/10/2017	6:45 - 7:00	0.25	MAINT	48	B	P		HSM, JSA
	7:00 - 9:00	2.00	MAINT	30	A	P		RU RIG & SPOT RIG EQ.
	9:00 - 14:00	5.00	MAINT	31	S	P		FWP = 60#, BWD, PUMP 10 BBL DWN TBG & CSG. NDWH, UNLAND TBG (TBG NOT STUCK), RELAND TBG, NU BOP, RU RIG FLOOR & TBG EQ. UNLAND TBG, LD 4 1/16 CMRN TBG HNGR. MIRU SCAN TECH, SCAN OOH W/ 253 JTS TBG (103 JTS L-80 & 150 JTS J-55) (9 L-80 JTS BAD & 145 J-55 JTS BAD) FOUND 99 YB, 154 RB, LITE OD SCL F/ 3780' - 5670', MED OD SCL F/ 5670' - 7728' EOT, JTS 252 & 253 PLUGGED, HOLE FOUND IN JT 251 = 7630', RDMO SCAN TECH.
	14:00 - 17:00	3.00	MAINT	31	R	P		PREP & TALLY YB TBG. PU 3 7/8 MILL, POBS, 1.875 XN, RIH W/ 137 JTS 2 3/8 J-55 YB. SWIFN. EOT @ 4347'.
7/11/2017	6:45 - 7:00	0.25	MAINT	48	B	P		HSM, JSA
	7:00 - 15:00	8.00	MAINT	31	R	P		SICP = 340#, BWD, PUMP 20 BBL DWN TBG T/ CONT WELL. CONT PU & RIH W/ SPLIT STRING TBG. TAG SCALE W/ 243 JTS TBG @ 7716' = 640' T/ C/O. LD 1 JT, RU DRL EQ. EOT @ 7685', SWI, SDFN.
7/12/2017	6:45 - 7:00	0.25	MAINT	48	B	P		HSM, JSA
	7:00 - 12:00	5.00	MAINT	44	D	P		SICP = 380#, BWD, BRK CONV CIRC W/ FU/N2 (1HR 20MIN T/ GET RETURNS). C/O F/ 7716' - 7780' FELL FREE. SB DRL EQ, RIH & TAG @ 7900', REGAIN CIRC, C/O F/ 7900' - 8000', FELL FREE, CONT RIH TAG @ 8252', C/O T/ 8356' PBTD (104' BLW BTM PERF). CIRC WELL CLN. RD DRL EQ.
	12:00 - 17:00	5.00	MAINT	31	Q	P		PUMP 10 BBL DWN TBG. POOH LD 20 JTS EXCESS TBG. PU 4 1/2 CMRN TBG HNGR & LAND TBG W/ 101 JTS 2 3/8 L-80, 6' L-80 PUP JT, 142 JTS 2 3/8 YB J-55 W/ 1.875 XN, EOT @ 7726'. RU BRCH EQ, RIH BRCH TBG T/ XN (ALL TBG BROACH GOOD), POOH RD BRCH EQ. RD TBG EQ & RIG FLOOR. NDBOP, NUWH, DROP BALL, HOOK UP FU/N2, PUMP BIT OFF @ 1350#, UNLOAD WELL. RACK OUT RIG EQ, RDMO RIG, ROAD RIG T/ NBU 1022-11A1CS.

RECEIVED: Jul. 14, 2017

Division of Oil, Gas and Mining
Operator Change/Name Change Worksheet-for State use only

Effective Date: 6/30/2020

FORMER OPERATOR:	NEW OPERATOR:
Kerr-McGee Oil and Gas Onshore, L.P.	Caerus Uinta, LLC
Groups: 10/9/2020 sent list to operators to review.	

WELL INFORMATION:

Well Name	API Number	Town	Dir	Range	Dir	Sec	Entity Number	Type	Status
See Attached list									

see operator file

Total Well Count: 3508
Pre-Notice Completed: 11/10/2020

OPERATOR CHANGES DOCUMENTATION:

1. Sundry or legal documentation was received from the **FORMER** operator on: 8/11/2020
2. Sundry or legal documentation was received from the **NEW** operator on: 8/11/2020
3. New operator Division of Corporations Business Number: 11801118-0161

REVIEW:

Receipt of Acceptance of Drilling Procedures for APD on: 10/16/2020
Reports current for Production/Disposition & Sundries: 11/10/2020
OPS/SI/TA well(s) reviewed for full cost bonding: Approved by Dustin 11/9/2020
UIC5 on all disposal/injection/storage well(s) Approved on: Approved by Dayne 10/16/2020
Surface Facility(s) included in operator change:

East Bench
Archie Bench
Bonanza
Bridge
Goat Pasture
Goat Pasture Manifold
Morgan State 921-36P
Morgan States
NBU 1022-14B
NBU 921-25A
NBU 922-29J
NBU 922-32N
Pipeline
Sage Grouse
Sand Wash

NEW OPERATOR BOND VERIFICATION:

State/fee well(s) covered by Bond Number(s): 6135000111
LPM9344488-Shut-In Bond

DATA ENTRY:

Well(s) update in the RBDMS on: 11/19/2020
Group(s) update in RDBMS on: 11/19/2020
Surface Facilities update in RBDMS on: 11/19/2020
Entities Updated in RBDMS on: 11/19/2020

COMMENTS: Shut-In Wells that were reviewed.
CIGE 236 4304732861
CIGE 42 4304730492
CIGE 55 4304730512
Love 1121-16N 4304736256
Morgan State 16-36 4304733093
NBU 341-29E 4304733055
NBU 691-29E 4304750027
NBU 921-33F 4304736391
NBU 99 4304731745
Ouray SWD 1 4304733449
State 1022-32O 4304735315
State 921-32M 4304734872

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

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5. LEASE DESIGNATION AND SERIAL NUMBER: U-02278-ST

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES

1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☑ OTHER

8. WELL NAME and NUMBER: CIGE 20

2. NAME OF OPERATOR: CAERUS UINTA LLC

9. API NUMBER: 43047304850000

3. ADDRESS OF OPERATOR: 1001 17TH ST. STE 1600 CITY DENVER STATE CO ZIP 80202

PHONE NUMBER: 303-565-4600

10. FIELD AND POOL, OR WILDCAT:

4. LOCATION OF WELL

FOOTAGES AT SURFACE: 1162 FSL 1365 FWL

COUNTY: UINTAH

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SESW 20 10S 21E S

STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
☑ NOTICE OF INTENT (Submit in Duplicate)	☐ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
Approximate date work will start: 06/30/2020	☐ ALTER CASING	☐ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARILY ABANDON
	☐ CHANGE TO PREVIOUS PLANS	☑ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLARE
☐ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
Date of work completion:	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☒ OTHER: Transfer remediation liabilities
	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	

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

Effective June 30, 2020, operation of the following wells was taken over by:
Caerus Uinta LLC
1001 17th Street, Suite 1600
Denver, CO 80202
303-565-4600

The previous Operator was Kerr-McGee Oil & Gas Onshore LP
PO Box 173779
Denver, CO 80217-3779

William C. Irons
Attorney-in-Fact

Please see the attached wells for a complete list that will be transferred upon approval. As the Attorney-in-Fact for Kerr-McGee Oil & Gas Onshore LP I ask that you accept this letter as Kerr-McGee's official resignation and request to transfer operating rights to Caerus Uinta LLC, whose operator number is 105039. UDOGM Bond# 6135000111 and BLM Bond# COB000387.

Kerr-McGee will be transferring cleanup/soils remediation to Caerus Uinta LLC for Incident #5772. The new contact for Caerus is Grizz Oleen, EHS Field Lead (435) 790-9669.

NAME (PLEASE PRINT) Aubree Besant TITLE Director of Land

SIGNATURE DATE

(This space for State use only)

APPROVED

By: Rachel Medina
Utah Division of
Oil, Gas, and Mining

RECEIVED

AUG 11 2020

DIV OF OIL, GAS & MINING

(5/2000) (See Instructions on Reverse Side)

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

FORM 9

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4. LOCATION OF WELL FOOTAGES AT SURFACE: 1162 FSL 1365 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SESW 20 10S 21E S	COUNTY: UINTAH STATE: UTAH

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NAME (PLEASE PRINT) Aubree Besant TITLE Director of Land

SIGNATURE Aubree Besant DATE July 17, 2020

RECEIVED

(This space for State use only)

APPROVED

By: Rachel Medina
Utah Division of
Oil, Gas, and Mining

AUG 11 2020

DIV OF OIL, GAS & MINING

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