

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

FORM 3

AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL		1. WELL NAME and NUMBER NBU 922-30F1BS
2. TYPE OF WORK DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>		3. FIELD OR WILDCAT NATURAL BUTTES
4. TYPE OF WELL Gas Well Coalbed Methane Well: NO		5. UNIT or COMMUNITIZATION AGREEMENT NAME NATURAL BUTTES
6. NAME OF OPERATOR KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. OPERATOR PHONE 720 929-6515
8. ADDRESS OF OPERATOR P.O. Box 173779, Denver, CO, 80217		9. OPERATOR E-MAIL julie.jacobson@anadarko.com
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) UTU463	11. MINERAL OWNERSHIP FEDERAL <input checked="" type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>	
12. SURFACE OWNERSHIP FEDERAL <input checked="" type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>		13. NAME OF SURFACE OWNER (if box 12 = 'fee')
14. SURFACE OWNER PHONE (if box 12 = 'fee')		15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')
16. SURFACE OWNER E-MAIL (if box 12 = 'fee')		17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')
18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input checked="" type="checkbox"/> (Submit Commingling Application) NO <input type="checkbox"/>		19. SLANT VERTICAL <input type="checkbox"/> DIRECTIONAL <input checked="" type="checkbox"/> HORIZONTAL <input type="checkbox"/>

20. LOCATION OF WELL	FOOTAGES	QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN
LOCATION AT SURFACE	1249 FNL 654 FWL	NWNW	30	9.0 S	22.0 E	S
Top of Uppermost Producing Zone	1238 FNL 1154 FWL	NENW	30	9.0 S	22.0 E	S
At Total Depth	1238 FNL 1154 FWL	NENW	30	9.0 S	22.0 E	S

21. COUNTY UINTAH	22. DISTANCE TO NEAREST LEASE LINE (Feet) 1154	23. NUMBER OF ACRES IN DRILLING UNIT 551
24. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 676	25. PROPOSED DEPTH MD: 9647 TVD: 9579	
26. ELEVATION - GROUND LEVEL 4925	27. BOND NUMBER WYB000291	28. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE 43-8496

Hole, Casing, and Cement Information

String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement	Sacks	Yield	Weight
SURF	11	8.625	0 - 2570	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 - 9647	11.6	I-80 LT&C	12.5	Premium Lite High Strength	320	3.38	11.0
							50/50 Poz	1290	1.31	14.3

ATTACHMENTS

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

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

NAME Laura Abrams	TITLE Regulatory Analyst II	PHONE 720 929-6356
SIGNATURE	DATE 06/16/2011	EMAIL Laura.Abrams@anadarko.com
API NUMBER ASSIGNED 43047516830000	APPROVAL  Permit Manager	

Kerr-McGee Oil & Gas Onshore. L.P.**NBU 922-30F1BS**

Surface: 1249 FNL / 654 FWL NWNW
 BHL: 1238 FNL / 1154 FWL NENW

Section 30 T9S R22E

Uintah County, Utah
 Mineral Lease: USA UTU 0463

ONSHORE ORDER NO. 1**DRILLING PROGRAM**

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

<u>Formation</u>	<u>Depth</u>	<u>Resource</u>
Uinta	0 - Surface	
Green River	1436	
Birds Nest	1756	Water
Mahogany	2118	Water
Wasatch	4712	Gas
Mesaverde	7335	Gas
MVU2	8280	Gas
MVL1	8781	Gas
TVD	9553	
TD	9647	

3. **Pressure Control Equipment** (Schematic Attached)

Please refer to the attached Drilling Program

4. **Proposed Casing & Cementing Program:**

Please refer to the attached Drilling Program

5. **Drilling Fluids Program:**

Please refer to the attached Drilling Program

6. **Evaluation Program:**

Please refer to the attached Drilling Program

7. Abnormal Conditions:

Maximum anticipated bottom hole pressure calculated at 9579' TVD, approximately equals
 6,117 psi (0.64 psi/ft = actual bottomhole gradient)

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

Maximum anticipated surface pressure equals approximately 3,999 psi (bottom hole pressure
 minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot, per Onshore Order No. 2).

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

8. Anticipated Starting Dates:

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

9. Variances:

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

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

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

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

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

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

Background

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

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

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

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

Variance for BOPE Requirements

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

Variance for Mud Material Requirements

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

Variance for Special Drilling Operation (surface equipment placement) Requirements

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

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

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

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

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

Conclusion

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

10. **Other Information:**

Please refer to the attached Drilling Program.



KERR-McGEE OIL & GAS ONSHORE LP
DRILLING PROGRAM

CASING PROGRAM

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS			
						BURST	COLLAPSE	LTC	BTC
CONDUCTOR	14"	0-40'							
						3,390	1,880	348,000	N/A
SURFACE	8-5/8"	0 to 2,570	28.00	IJ-55	LTC	2.10	1.56	5.52	N/A
						7,780	6,350	279,000	367,000
PRODUCTION	4-1/2"	0 to 9,647	11.60	I-80	LTC/BTC	1.11	1.02	3.08	4.05

Surface Casing:

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

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

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

Production casing:

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

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

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE	LEAD	500'	Premium cmt + 2% CaCl + 0.25 pps flocele	180	60%	15.80	1.15
Option 1	TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt + 2% CaCl + 0.25 pps flocele	270	0%	15.80	1.15
SURFACE	Option 2	NOTE: If well will circulate water to surface, option 2 will be utilized					
	LEAD	2,070'	65/35 Poz + 6% Gel + 10 pps gilsonite + 0.25 pps Flocele + 3% salt BWOW	190	35%	11.00	3.82
	TAIL	500'	Premium cmt + 2% CaCl + 0.25 pps flocele	150	35%	15.80	1.15
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.80	1.15
PRODUCTION	LEAD	4,207'	Premium Lite II +0.25 pps celloflake + 5 pps gilsonite + 10% gel + 0.5% extender	320	20%	11.00	3.38
	TAIL	5,440'	50/50 Poz/G + 10% salt + 2% gel + 0.1% R-3	1,290	35%	14.30	1.31

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

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

FLOAT EQUIPMENT & CENTRALIZERS

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

ADDITIONAL INFORMATION

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

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

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

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

DRILLING ENGINEER:

Nick Spence / Emile Goodwin

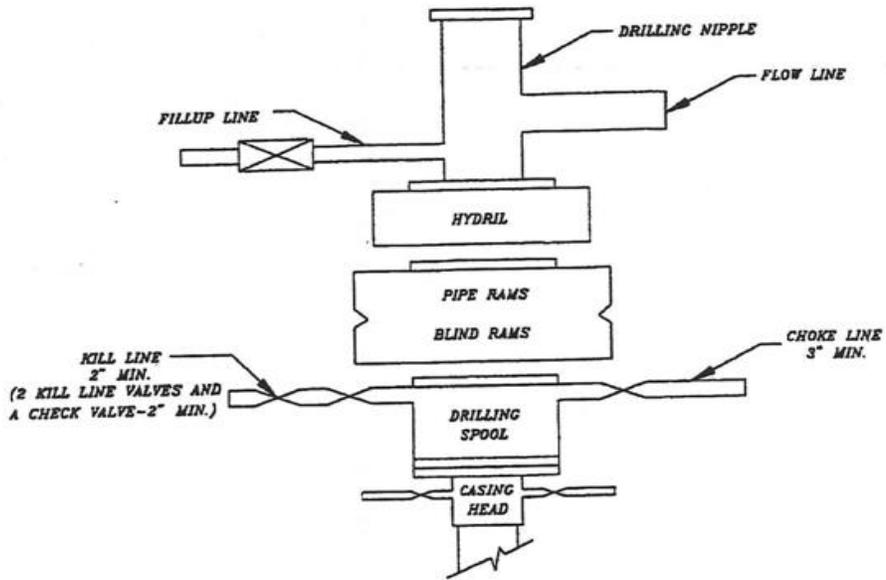
DATE:

DRILLING SUPERINTENDENT:

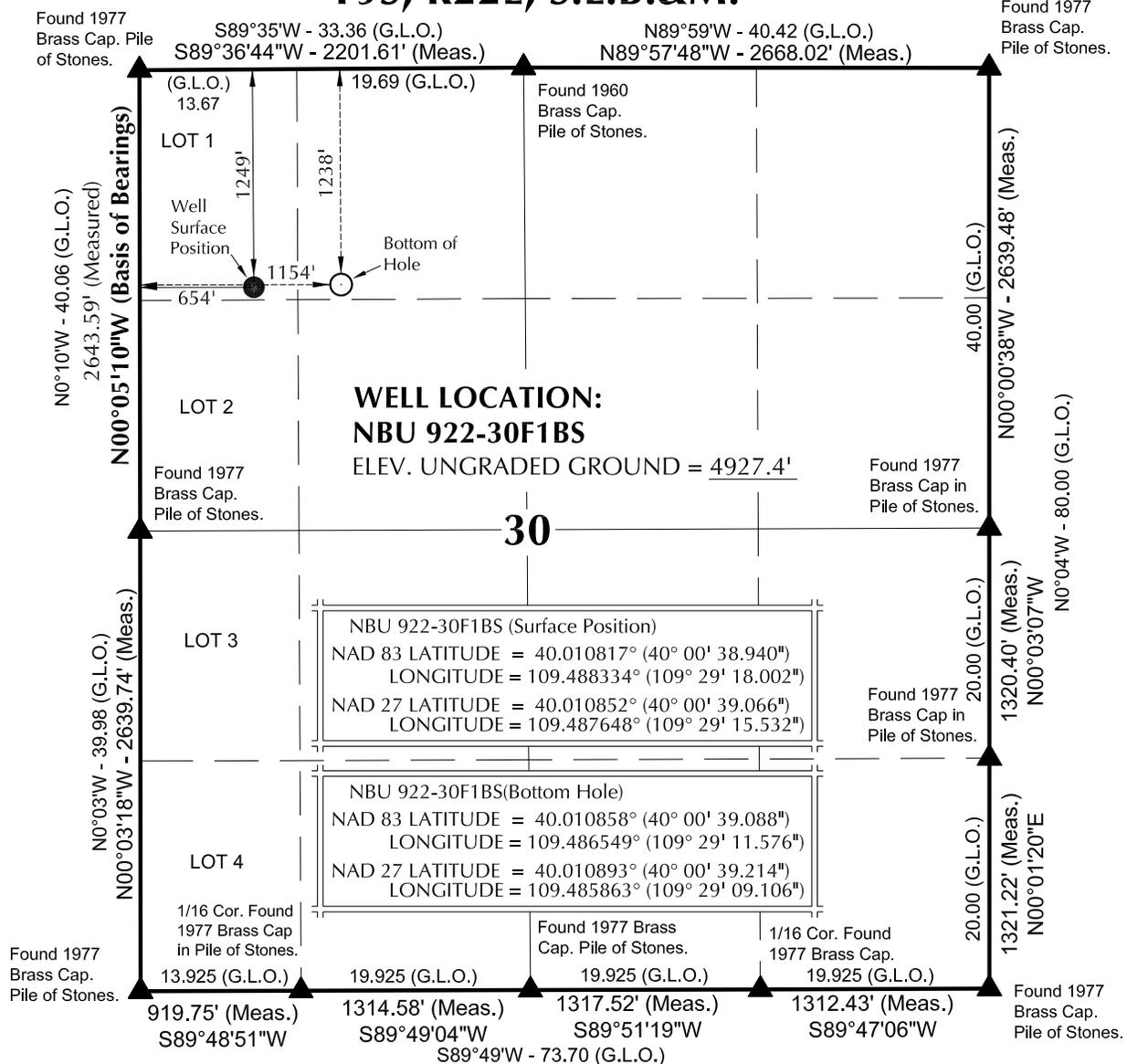
Kenny Gathings / Lovel Young

DATE:

EXHIBIT A
NBU 922-30F1BS



T9S, R22E, S.L.B.&M.



NOTES:

- ▲ = Section Corners Located
- 1. Well footages are measured at right angles to the Section Lines.
- 2. G.L.O. distances are shown in feet or chains.
1 chain = 66 feet.
- 3. The Bottom of hole bears N88°17'43"E 500.36' from the Surface Position.
- 4. Bearings are based on Global Positioning Satellite observations.
- 5. Basis of elevation is Tri-Sta "Two Water" located in the NW ¼ of Section 1, T10S, R21E, S.L.B.&M. The elevation of this Tri-Sta is shown on the Big Pack Mtn NE 7.5 Min. Quadrangle as being 5238'.



SURVEYOR'S CERTIFICATE

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

6-9-11
 No. 6028691
 JOHN R. GAUGH
 PROFESSIONAL LAND SURVEYOR
 REGISTRATION No. 6028691
 STATE OF UTAH

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

WELL PAD: NBU 922-30D

**NBU 922-30F1BS
 WELL PLAT
 1238' FNL, 1154' FWL (Bottom Hole)
 NE ¼ NW ¼ OF SECTION 30, T9S, R22E,
 S.L.B.&M., UTAH COUNTY, UTAH.**

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

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

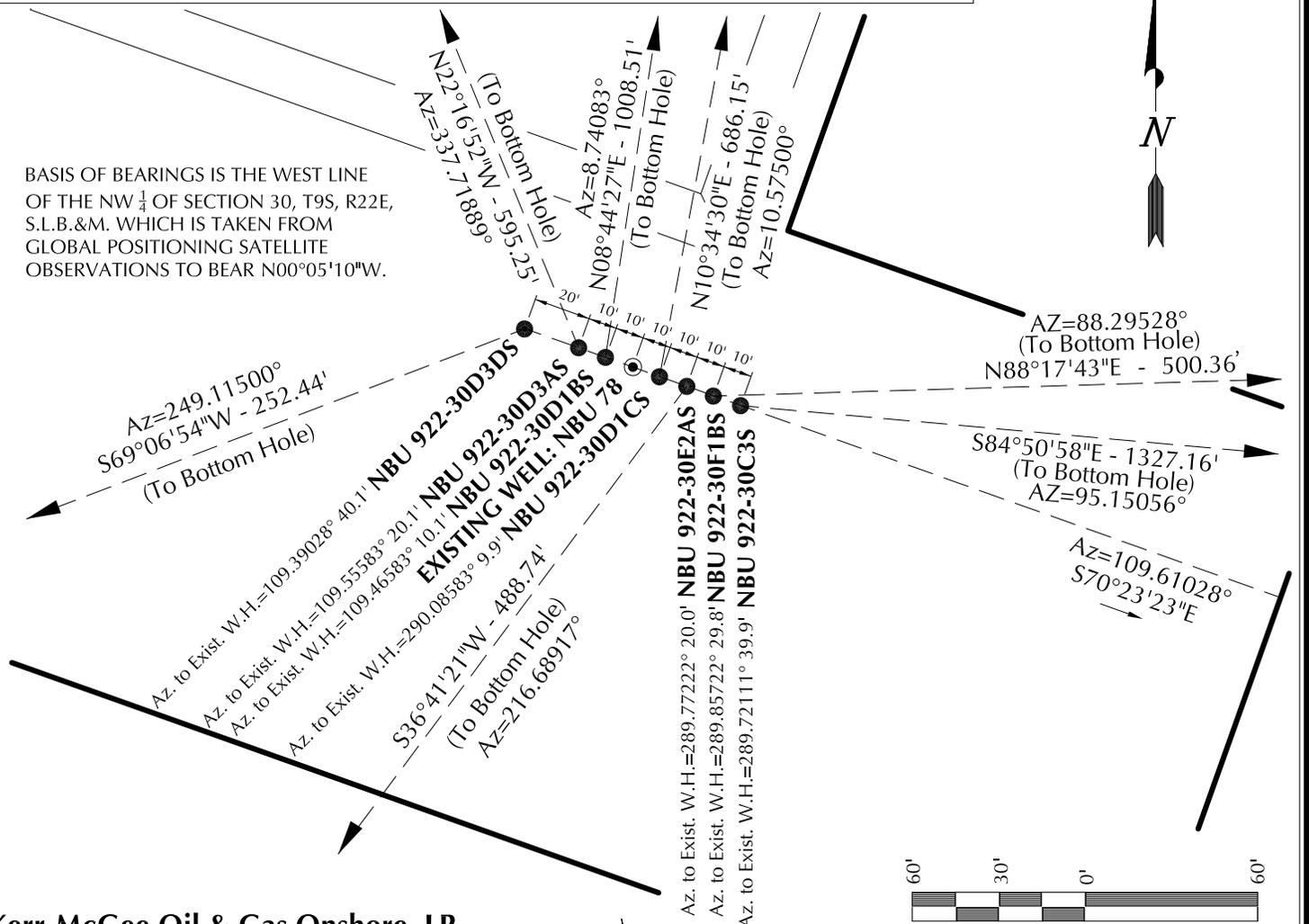
DATE SURVEYED: 10-13-10	SURVEYED BY: M.S.B.	SHEET NO: 2
DATE DRAWN: 10-15-10	DRAWN BY: E.M.S.	
SCALE: 1" = 1000'		2 OF 19

WELL NAME	SURFACE POSITION					BOTTOM HOLE				
	NAD83		NAD27		FOOTAGES	NAD83		NAD27		FOOTAGES
	LATITUDE	LONGITUDE	LATITUDE	LONGITUDE		LATITUDE	LONGITUDE	LATITUDE	LONGITUDE	
NBU 922-30C3S	40°00'38.907"	109°29'17.879"	40°00'39.033"	109°29'15.409"	1253' FNL	40°00'37.733"	109°29'00.896"	40°00'37.859"	109°28'58.427"	1381' FNL
NBU 922-30F1BS	40.010807°	109.488300°	40.010842°	109.487614°	663' FWL	40.010481°	109.483582°	40.010516°	109.482896°	1985' FWL
NBU 922-30E2AS	40°00'38.940"	109°29'18.002"	40°00'39.066"	109°29'15.532"	1249' FNL	40°00'39.088"	109°29'11.576"	40°00'39.214"	109°29'09.106"	1238' FNL
NBU 922-30D1CS	40.010817°	109.488334°	40.010852°	109.487648°	654' FWL	40.010858°	109.486549°	40.010893°	109.485863°	1154' FWL
NBU 922-30D1BS	40°00'38.973"	109°29'18.121"	40°00'39.099"	109°29'15.651"	1246' FNL	40°00'35.100"	109°29'21.871"	40°00'35.226"	109°29'19.401"	1636' FNL
NBU 922-30D3AS	40.010826°	109.488367°	40.010861°	109.487681°	645' FWL	40.009750°	109.489409°	40.009785°	109.488723°	352' FWL
NBU 922-30D3DS	40°00'39.006"	109°29'18.243"	40°00'39.133"	109°29'15.773"	1243' FNL	40°00'45.671"	109°29'16.628"	40°00'45.797"	109°29'14.158"	569' FNL
NBU 922-30D3S	40.010835°	109.488401°	40.010870°	109.487715°	635' FWL	40.012686°	109.487952°	40.012721°	109.487266°	762' FWL
NBU 922-30D1BS	40°00'39.073"	109°29'18.485"	40°00'39.199"	109°29'16.015"	1236' FNL	40°00'48.922"	109°29'16.520"	40°00'49.048"	109°29'14.050"	240' FNL
NBU 922-30D3AS	40.010854°	109.488468°	40.010889°	109.487782°	616' FWL	40.013589°	109.487922°	40.013624°	109.487236°	771' FWL
NBU 922-30D3AS	40°00'39.106"	109°29'18.606"	40°00'39.232"	109°29'16.136"	1232' FNL	40°00'44.547"	109°29'21.508"	40°00'44.674"	109°29'19.037"	680' FNL
NBU 922-30D3DS	40.010863°	109.488502°	40.010898°	109.487816°	607' FWL	40.012374°	109.489308°	40.012409°	109.488622°	382' FWL
NBU 922-30D3DS	40°00'39.171"	109°29'18.849"	40°00'39.297"	109°29'16.379"	1226' FNL	40°00'38.281"	109°29'21.878"	40°00'38.408"	109°29'19.408"	1314' FNL
NBU 78	40.010881°	109.488569°	40.010916°	109.487883°	588' FWL	40.010634°	109.489411°	40.010669°	109.488725°	352' FWL
NBU 78	40°00'39.040"	109°29'18.362"	40°00'39.166"	109°29'15.892"	1239' FNL					
NBU 78	40.010844°	109.488434°	40.010879°	109.487748°	626' FWL					

RELATIVE COORDINATES - From Surface Position to Bottom Hole

WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST
NBU 922-30C3S	-119.1'	1,321.8'	NBU 922-30F1BS	14.9'	500.1'	NBU 922-30E2AS	-391.9'	-292.0'	NBU 922-30D1CS	674.5'	125.9'
NBU 922-30D1BS	996.8'	153.3'	NBU 922-30D3AS	550.8'	-225.7'	NBU 922-30D3DS	-90.0'	-235.9'			

BASIS OF BEARINGS IS THE WEST LINE OF THE NW ¼ OF SECTION 30, T9S, R22E, S.L.B.&M. WHICH IS TAKEN FROM GLOBAL POSITIONING SATELLITE OBSERVATIONS TO BEAR N00°05'10"W.



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

WELL PAD - NBU 922-30D

WELL PAD INTERFERENCE PLAT
WELLS - NBU 922-30C3S, NBU 922-30F1BS,
NBU 922-30E2AS, NBU 922-30D1CS,
NBU 922-30D1BS, NBU 922-30D3AS
& NBU 922-30D3DS
LOCATED IN SECTION 30, T9S, R22E,
S.L.B.&M., Uintah County, Utah.



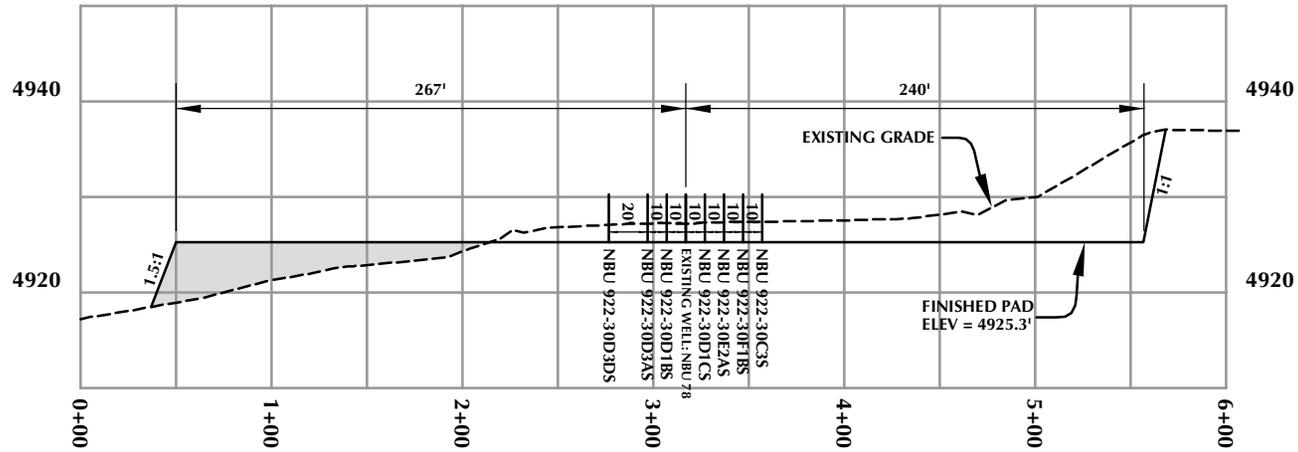
CONSULTING, LLC
2155 North Main Street
Sheridan WY 82801
Phone 307-674-0609
Fax 307-674-0182

TIMBERLINE

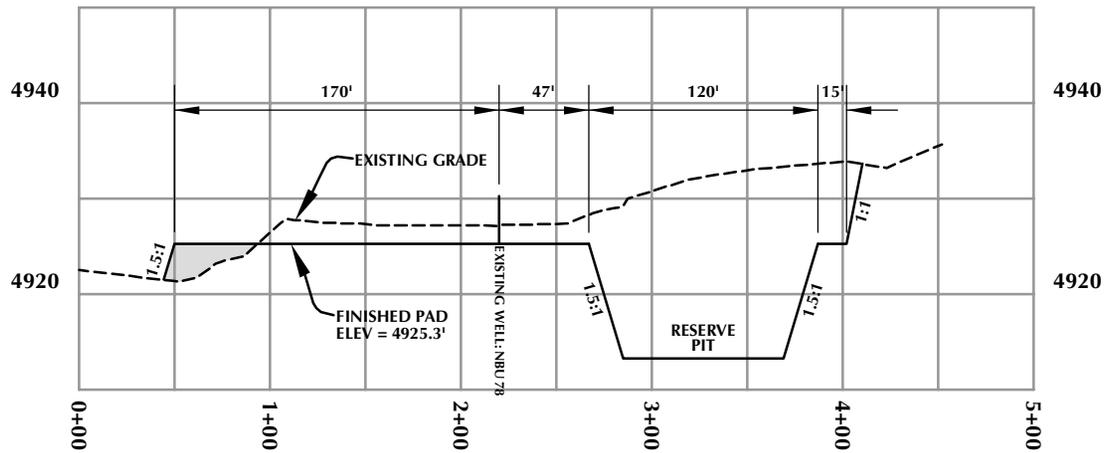
ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

(435) 789-1365

DATE SURVEYED: 10-13-10	SURVEYED BY: M.S.B.	SHEET NO: 8
DATE DRAWN: 10-15-10	DRAWN BY: E.M.S.	
SCALE: 1" = 60'	Date Last Revised: 06-09-11 C.T.C.	8 OF 19



CROSS SECTION A-A'



CROSS SECTION B-B'

NOTE: CROSS SECTION B-B' DEPICTS MAXIMUM RESERVE PIT DEPTH.

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

WELL PAD - NBU 922-30D

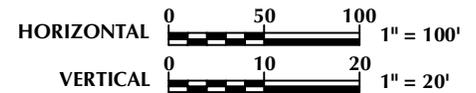
WELL PAD - CROSS SECTIONS
NBU 922-30C3S, NBU 922-30F1BS,
NBU 922-30E2AS, NBU 922-30D1CS,
NBU 922-30D1BS, NBU 922-30D3AS
& NBU 922-30D3DS
LOCATED IN SECTION 30, T9S, R22E,
S.L.B.&M., UINTAH COUNTY, UTAH



CONSULTING, LLC
2155 North Main Street
Sheridan, WY 82801
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TIMBERLINE
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209 NORTH 300 WEST - VERNAL, UTAH 84078

(435) 789-1365



Scale: 1"=100'

Date: 1/14/11

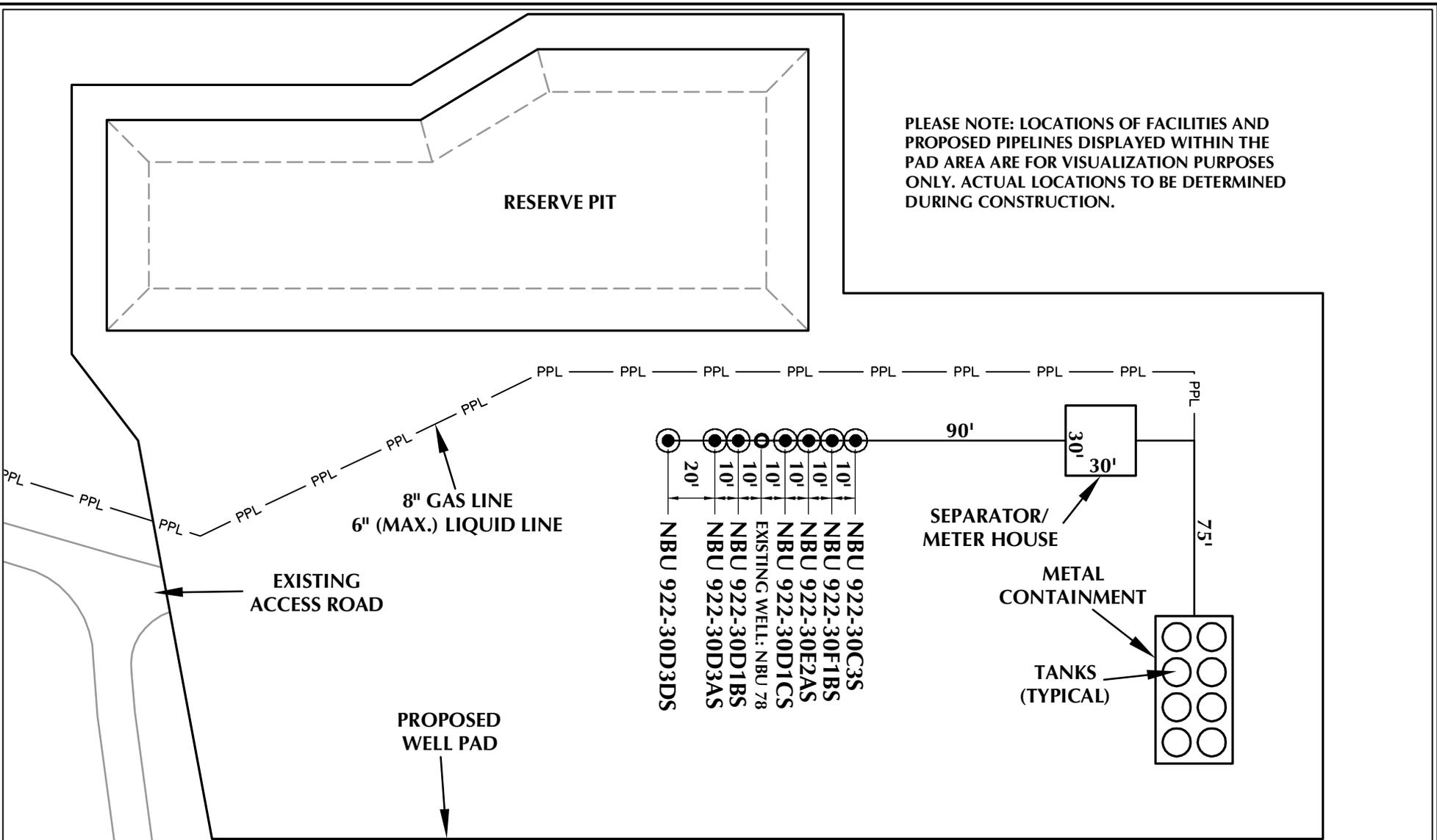
SHEET NO:

REVISED:

TAR
5/18/11

10 10 OF 19

RECEIVED: June 16, 2011



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

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

WELL PAD - NBU 922-30D

WELL PAD - FACILITIES DIAGRAM
NBU 922-30C3S, NBU 922-30F1BS,
NBU 922-30E2AS, NBU 922-30D1CS,
NBU 922-30D1BS, NBU 922-30D3AS
& NBU 922-30D3DS
LOCATED IN SECTION 30, T9S, R22E,
S.L.B.&M., UINTAH COUNTY, UTAH



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

WELL PAD LEGEND

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



HORIZONTAL 0 30' 60' 1" = 60'

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

(435) 789-1365

Scale: 1"=60'

Date: 1/14/11

SHEET NO:

REVISED:

TAR
5/13/11

11 11 OF 19

RECEIVED: June 16, 2011

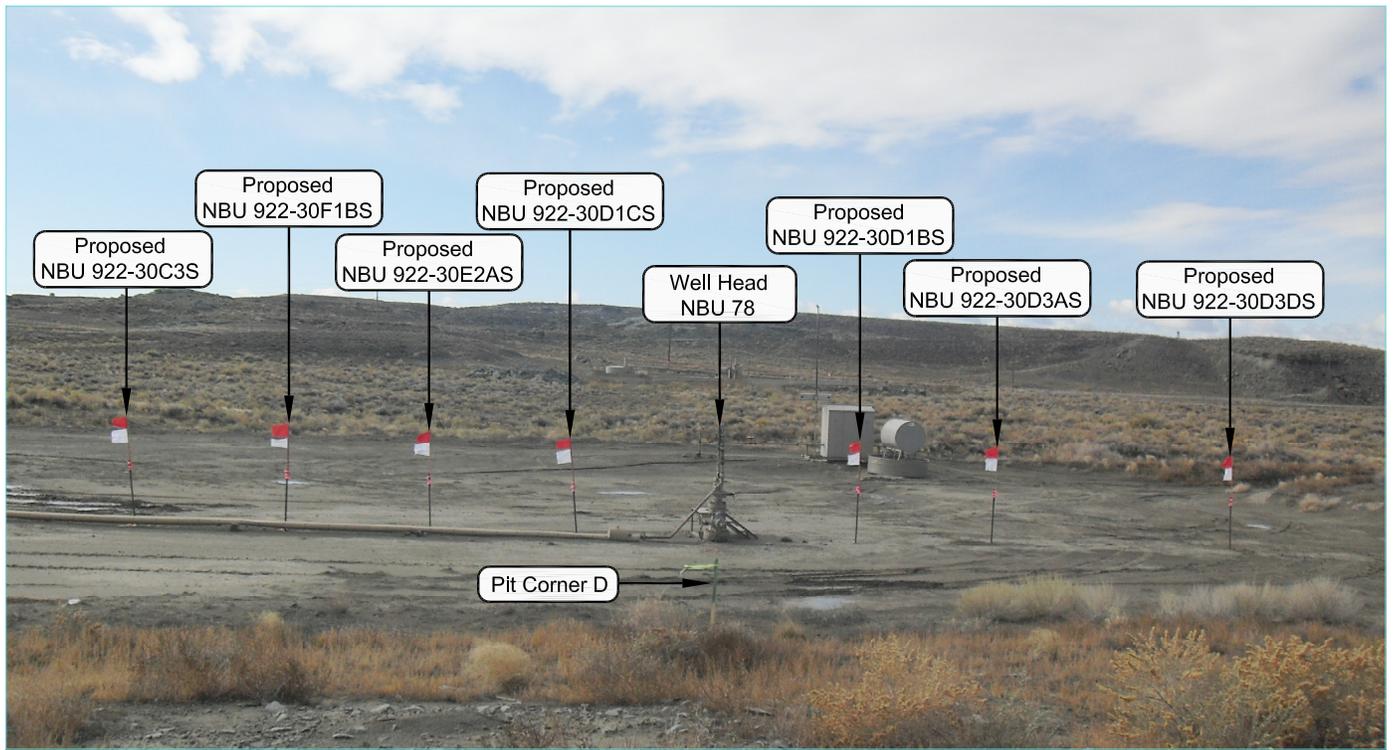


PHOTO VIEW: FROM PIT CORNER D TO LOCATION STAKE

CAMERA ANGLE: SOUTHWESTERLY



PHOTO VIEW: FROM EXISTING ACCESS ROAD

CAMERA ANGLE: SOUTHEASTERLY

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

WELL PAD - NBU 922-30D

LOCATION PHOTOS
 NBU 922-30C3S, NBU 922-30F1BS,
 NBU 922-30E2AS, NBU 922-30D1CS,
 NBU 922-30D1BS, NBU 922-30D3AS &
 NBU 922-30D3DS
 LOCATED IN SECTION 30, T9S, R22E,
 S.L.B.&M., UINTAH COUNTY, UTAH.



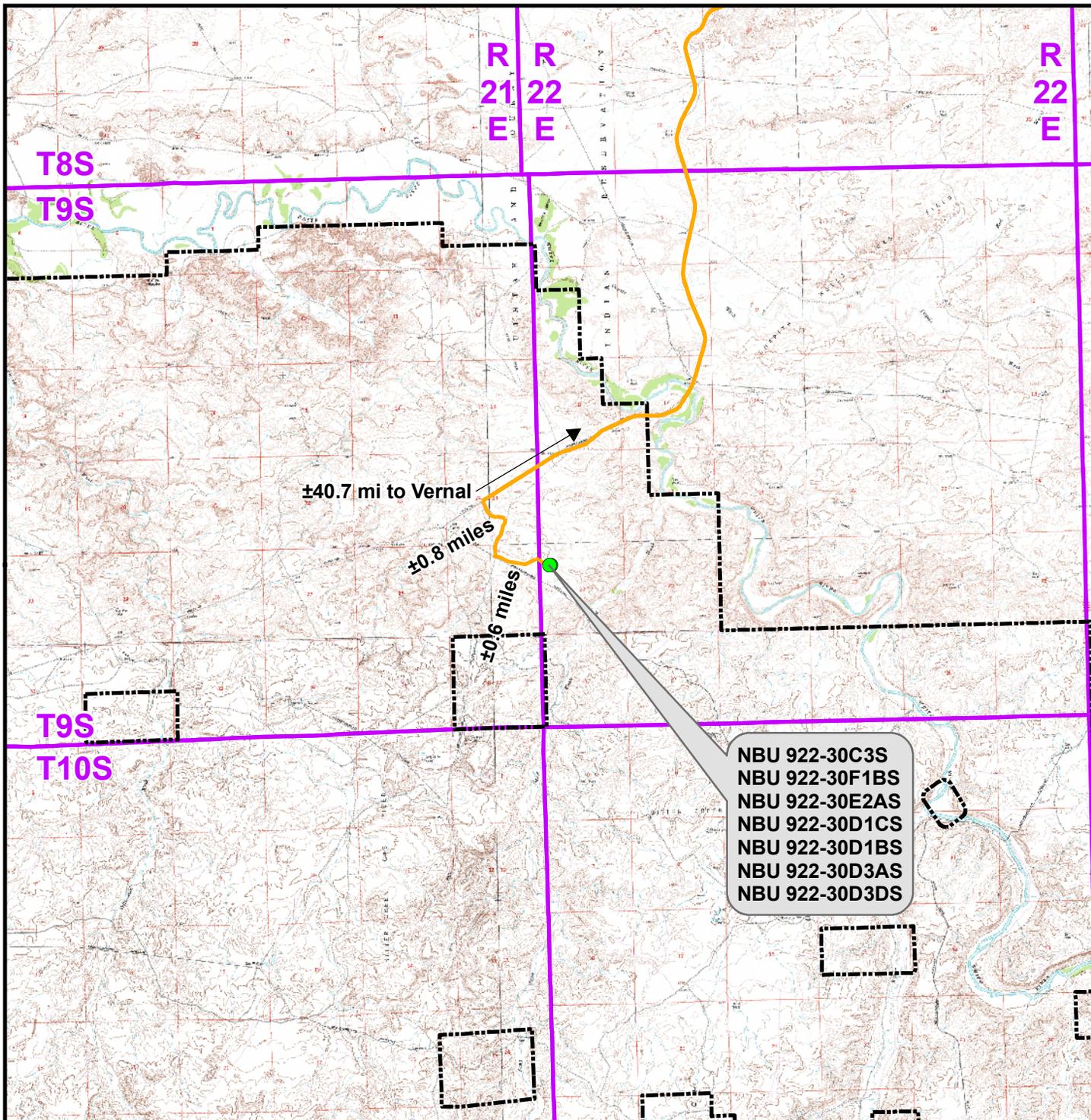
CONSULTING, LLC
 2155 North Main Street
 Sheridan WY 82801
 Phone 307-674-0609
 Fax 307-674-0182

TIMBERLINE

(435) 789-1365

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

DATE PHOTOS TAKEN: 10-13-10	PHOTOS TAKEN BY: M.S.B.	SHEET NO: 12
DATE DRAWN: 10-15-10	DRAWN BY: E.M.S.	
Date Last Revised: 10-28-10 E.M.S.		12 OF 19



Legend

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

Distance From Well Pad - NBU 922-30D To Unit Boundary: ±4,088ft

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

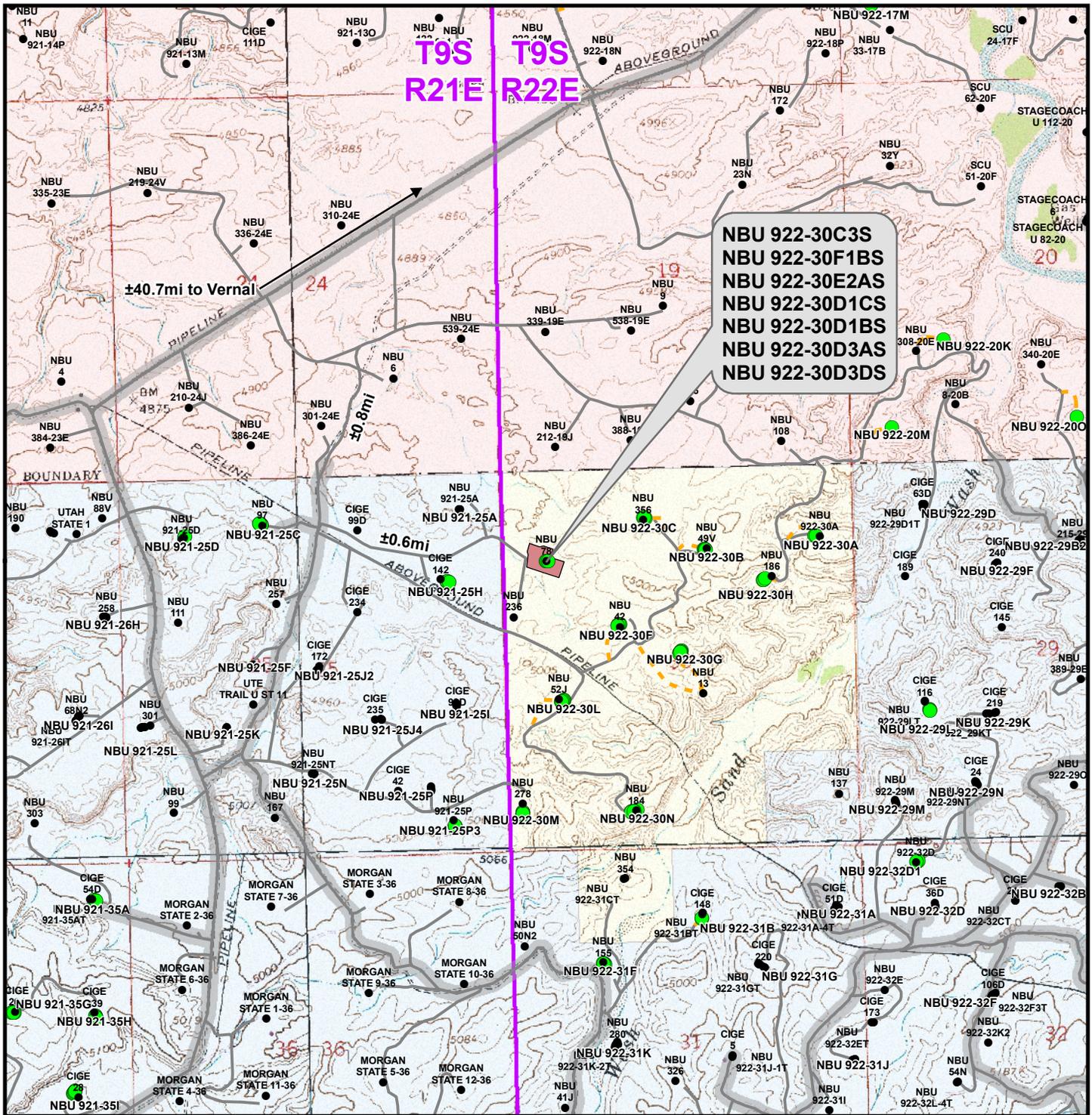
WELL PAD - NBU 922-30D

TOPO A
 NBU 922-30C3S, NBU 922-30F1BS,
 NBU 922-30E2AS, NBU 922-30D1CS,
 NBU 922-30D1BS, NBU 922-30D3AS
 & NBU 922-30D3DS
 LOCATED IN SECTION 30, T9S, R22E,
 S.L.B.&M., UTAH COUNTY, UTAH

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



Scale: 1:100,000	NAD83 USP Central	Sheet No:
Drawn: TL	Date: 14 Jan 2011	13
Revised: TL	Date: 13 May 2011	



**NBU 922-30C3S
 NBU 922-30F1BS
 NBU 922-30E2AS
 NBU 922-30D1CS
 NBU 922-30D1BS
 NBU 922-30D3AS
 NBU 922-30D3DS**

Legend

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

Total Proposed Road Length: ±0ft

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

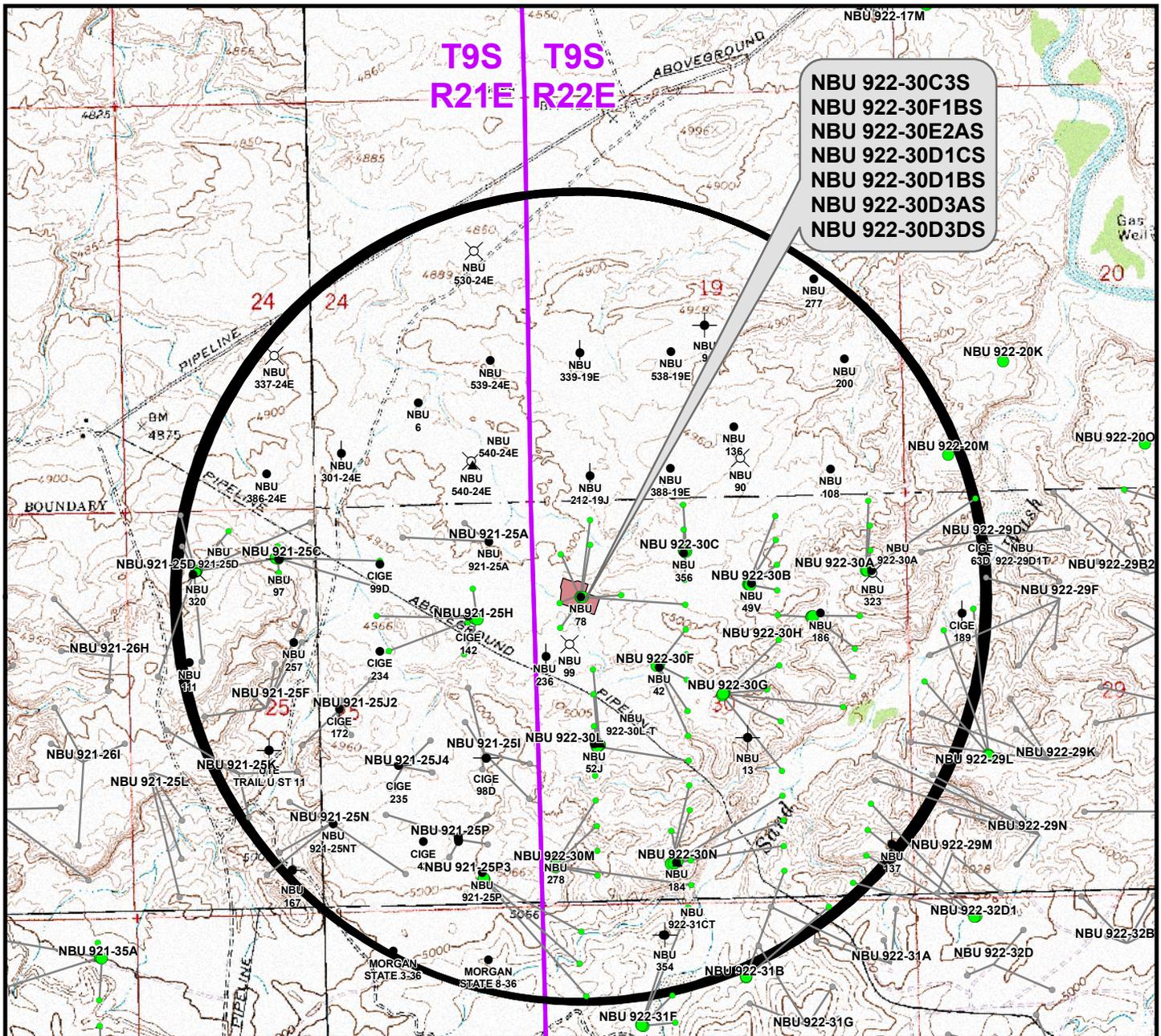
WELL PAD - NBU 922-30D

TOPO B
 NBU 922-30C3S, NBU 922-30F1BS,
 NBU 922-30E2AS, NBU 922-30D1CS,
 NBU 922-30D1BS, NBU 922-30D3AS
 & NBU 922-30D3DS
 LOCATED IN SECTION 30, T9S, R22E,
 S.L.B.&M., UTAH COUNTY, UTAH

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



Scale: 1" = 2,000ft	NAD83 USP Central	Sheet No:	14
Drawn: TL	Date: 14 Jan 2011	14 of 19	
Revised: TL	Date: 13 May 2011		



NBU 922-30C3S
 NBU 922-30F1BS
 NBU 922-30E2AS
 NBU 922-30D1CS
 NBU 922-30D1BS
 NBU 922-30D3AS
 NBU 922-30D3DS

Proposed Well	Nearest Well Bore	Footage
NBU 922-30C3S	NBU 78	528ft
NBU 922-30F1BS	NBU 356	676ft
NBU 922-30E2AS	NBU 236	421ft
NBU 922-30D1CS	NBU 78	685ft

Proposed Well	Nearest Well Bore	Footage
NBU 922-30D1BS	NBU 212-19J	578ft
NBU 922-30D3AS	NBU 78	609ft
NBU 922-30D3DS	NBU 78	284ft

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

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

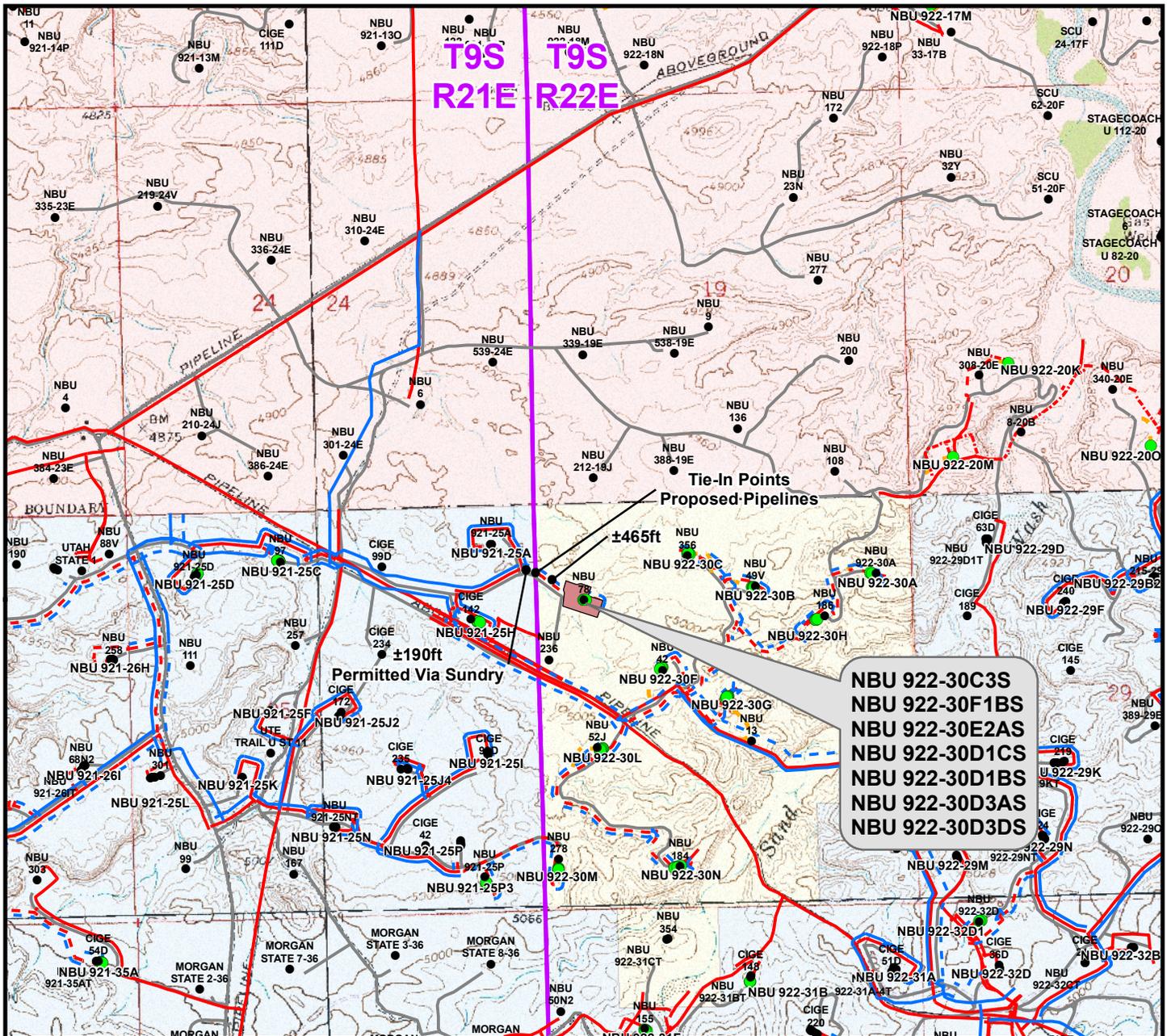
WELL PAD - NBU 922-30D

TOPO C
 NBU 922-30C3S, NBU 922-30F1BS,
 NBU 922-30E2AS, NBU 922-30D1CS,
 NBU 922-30D1BS, NBU 922-30D3AS
 & NBU 922-30D3DS
 LOCATED IN SECTION 30, T9S, R22E,
 S.L.B.&M., UTAH COUNTY, UTAH

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 CONSULTING, LLC
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Scale: 1" = 2,000ft	NAD83 USP Central	Sheet No:
Drawn: TL	Date: 14 Jan 2011	15
Revised: TL	Date: 13 May 2011	



Proposed Liquid Pipeline	Length	Proposed Gas Pipeline	Length
Buried 6" (Max.) (Meter House to Edge of Pad)	±530ft	Buried 8" (Meter House to Edge of Pad)	±530ft
Buried 6" (Max.) (Edge of Pad to West Line of Section 30)	±465ft	Buried 8" (Edge of Pad to West Line of Section 30)	±465ft
TOTAL PROPOSED LIQUID PIPELINE =	±995ft	TOTAL PROPOSED GAS PIPELINE =	±995ft

Legend

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

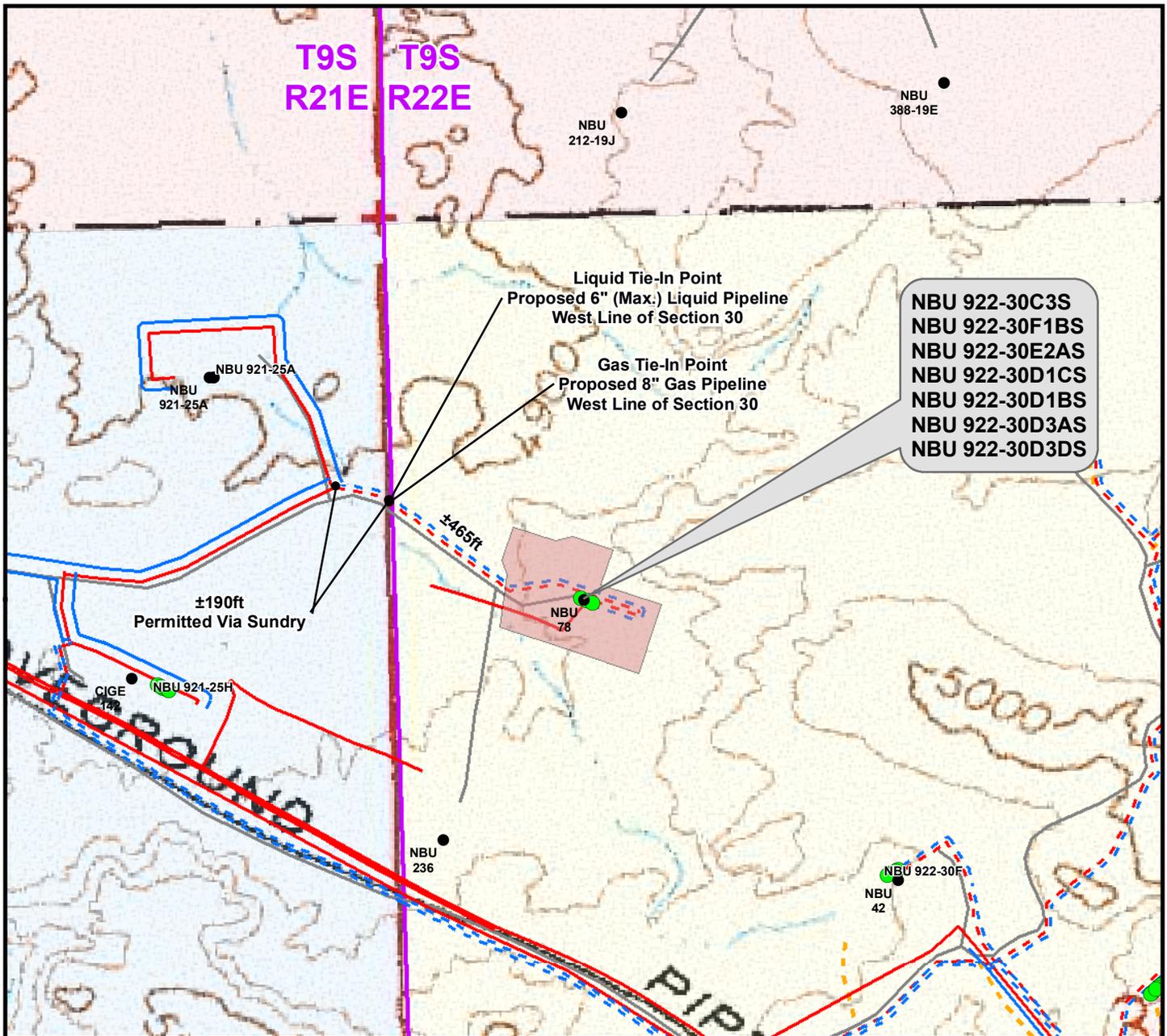
Kerr-McGee Oil & Gas Onshore, LP
 1099 18th Street, Denver, Colorado 80202

WELL PAD - NBU 922-30D
TOPO D
 NBU 922-30C3S, NBU 922-30F1BS,
 NBU 922-30E2AS, NBU 922-30D1CS,
 NBU 922-30D1BS, NBU 922-30D3AS
 & NBU 922-30D3DS
 LOCATED IN SECTION 30, T9S, R22E,
 S.L.B.&M., UTAH COUNTY, UTAH

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

Scale: 1" = 2,000ft	NAD83 USP Central	Sheet No:
Drawn: TL	Date: 14 Jan 2011	16
Revised: TL	Date: 13 May 2011	

16 of 19



NBU 922-30C3S
 NBU 922-30F1BS
 NBU 922-30E2AS
 NBU 922-30D1CS
 NBU 922-30D1BS
 NBU 922-30D3AS
 NBU 922-30D3DS

Proposed Liquid Pipeline	Length
Buried 6" (Max.) (Meter House to Edge of Pad)	±530ft
Buried 6" (Max.) (Edge of Pad to West Line of Section 30)	±465ft
TOTAL PROPOSED LIQUID PIPELINE =	±995ft

Proposed Gas Pipeline	Length
Buried 8" (Meter House to Edge of Pad)	±530ft
Buried 8" (Edge of Pad to West Line of Section 30)	±465ft
TOTAL PROPOSED GAS PIPELINE =	±995ft

Legend

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

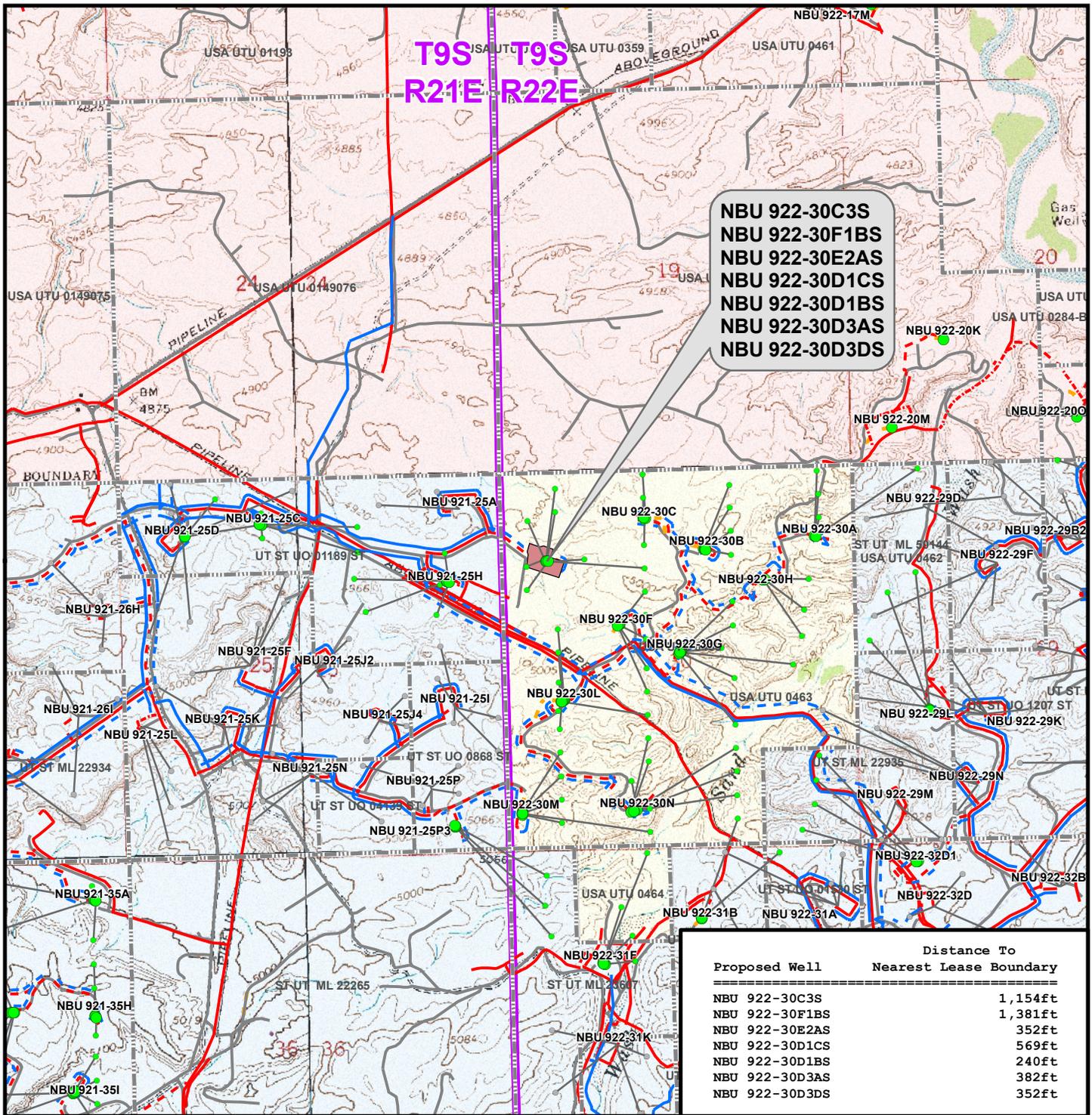
Kerr-McGee Oil & Gas Onshore, LP
 1099 18th Street, Denver, Colorado 80202

WELL PAD - NBU 922-30D
 TOPO D2 (PAD & PIPELINE DETAIL)
 NBU 922-30C3S, NBU 922-30F1BS,
 NBU 922-30E2AS, NBU 922-30D1CS,
 NBU 922-30D1BS, NBU 922-30D3AS
 & NBU 922-30D3DS
 LOCATED IN SECTION 30, T9S, R22E,
 S.L.B.&M., UTAH COUNTY, UTAH

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



Scale: 1" = 500ft	NAD83 USP Central	Sheet No:
Drawn: TL	Date: 14 Jan 2011	17
Revised: TL	Date: 13 May 2011	
		17 of 19



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

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

WELL PAD - NBU 922-30D

TOPO E
NBU 922-30C3S, NBU 922-30F1BS,
NBU 922-30E2AS, NBU 922-30D1CS,
NBU 922-30D1BS, NBU 922-30D3AS
& NBU 922-30D3DS
LOCATED IN SECTION 30, T9S, R22E,
S.L.B.&M., UINTAH COUNTY, UTAH

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

Scale: 1" = 2,000ft	NAD83 USP Central	Sheet No:
Drawn: TL	Date: 14 Jan 2011	18
Revised: TL	Date: 13 May 2011	

**Kerr-McGee Oil & Gas Onshore, LP
WELL PAD – NBU 922-30D
WELLS – NBU 922-30C3S, NBU 922-30F1BS,
NBU 922-30E2AS, NBU 922-30D1CS,
NBU 922-30D1BS, NBU 922-30D3AS
& NBU 922-30D3DS
Section 30, T9S, R22E, S.L.B.&M.**

From the intersection of U.S. Highway 40 and 500 East Street in Vernal, Utah, proceed in an easterly, then southerly direction along U.S. Highway 40 approximately 3.3 miles to the junction of State Highway 45. Exit right and proceed in a southerly direction along State Highway 45 approximately 20.2 miles to the junction of the Glen Bench Road (County B Road 3260). Exit right and proceed in a southwesterly direction along the Glen Bench Road approximately 17.2 miles to a service road to the southeast. Exit left and proceed in a southeasterly, then easterly, then southerly direction along the service road approximately 0.8 miles to a second service road to the southeast. Exit left and proceed in a southeasterly direction along the second service road approximately 0.6 miles to the proposed well location.

Total distance from Vernal, Utah to the proposed well location is approximately 42.1 miles in a southerly direction.



Project: Uintah County, UT UTM12
 Site: NBU 922-30D PAD
 Well: NBU 922-30F1BS
 Wellbore: OH
 Design: PLAN #1 PRELIMINARY



WELL DETAILS: NBU 922-30F1BS					
GL 4925' & KB 9' @ 4934.00ft (ASSUMED)					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	14533589.83	2063904.98	40° 0' 39.067 N	109° 29' 15.533 W

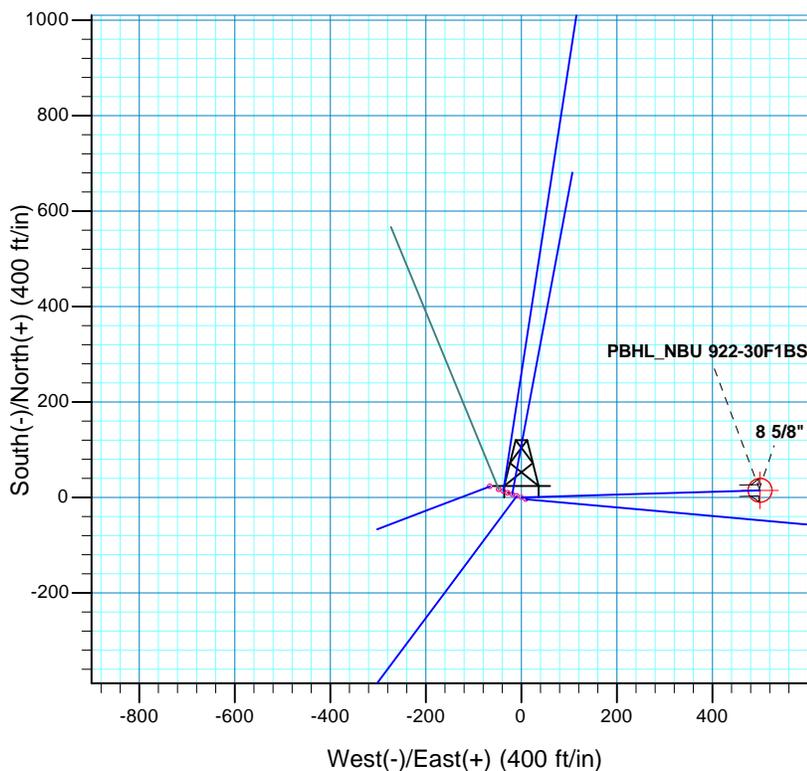
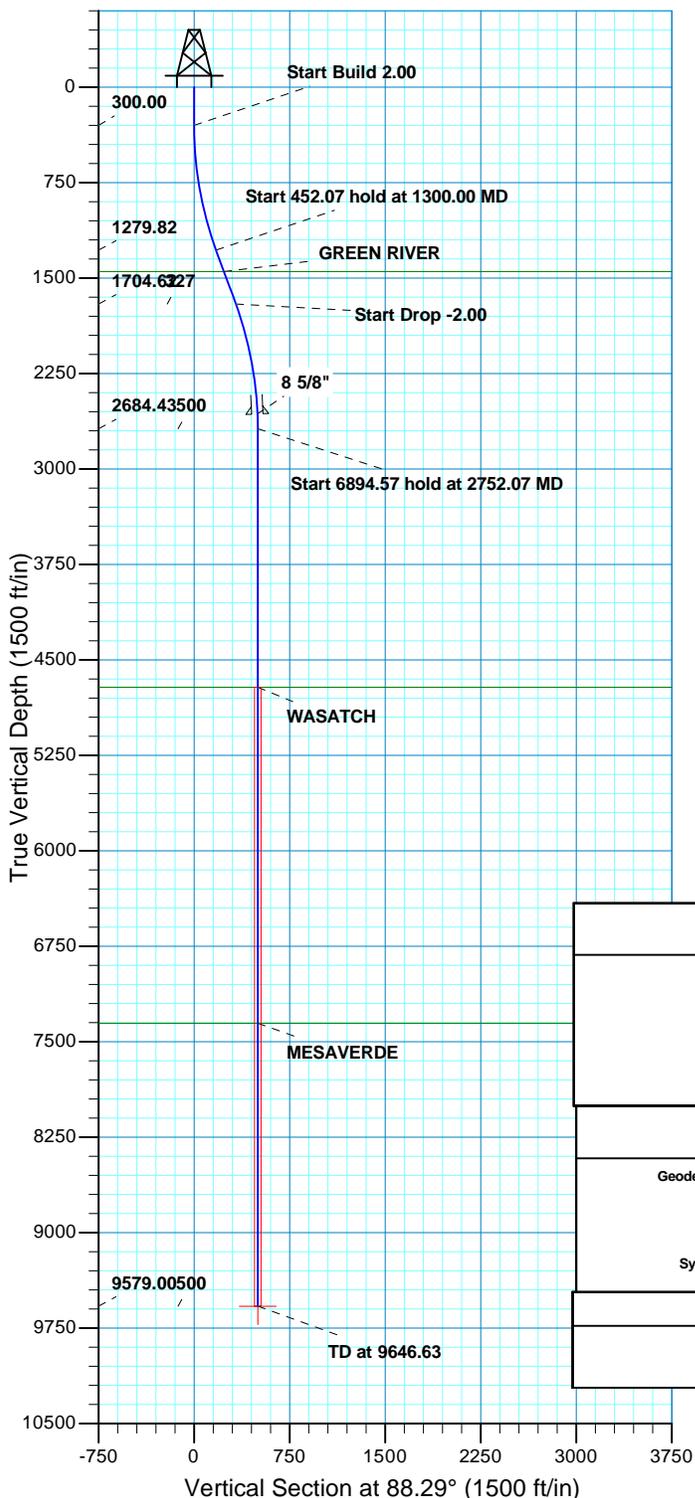
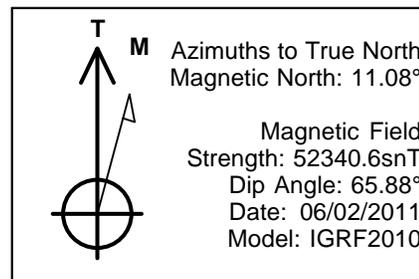
DESIGN TARGET DETAILS								
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
PBHL	9579.00	14.94	499.93	14533613.25	2064404.58	40° 0' 39.215 N	109° 29' 9.107 W	Circle (Radius: 25.0)
- plan hits target center								

FORMATION TOP DETAILS				CASING DETAILS			
TVDPATH	MDPATH	FORMATION		TVD	MD	NAME	SIZE
1449.00	1480.04	GREEN RIVER	0.00	2568.00	2635.60	8 5/8"	8.625
4715.00	4782.63	WASATCH	0.00				
7355.00	7422.63	MESAVERDE	0.00				

SECTION DETAILS										
	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	
	1300.00	20.00	88.29	1279.82	5.16	172.69	2.00	88.29	172.77	
	1752.07	20.00	88.29	1704.62	9.78	327.24	0.00	0.00	327.38	
	2752.07	0.00	0.00	2684.43	14.94	499.93	2.00	180.00	500.15	
	9646.63	0.00	0.00	9579.00	14.94	499.93	0.00	0.00	500.15	PBHL_NBU 922-30F1BS

PROJECT DETAILS: Uintah County, UT UTM12
Geodetic System: Universal Transverse Mercator (US Survey Feet) Datum: NAD 1927 - Western US Ellipsoid: Clarke 1866 Zone: Zone 12N (114 W to 108 W) Location: SECTION 30 T9S R22E System Datum: Mean Sea Level

WELL DETAILS: NBU 922-30F1BS						
GL 4925' & KB 9' @ 4934.00ft (ASSUMED)						
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	
0.00	0.00	14533589.83	2063904.98	40° 0' 39.067 N	109° 29' 15.533 W	
DESIGN TARGET DETAILS						
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude
PBHL	9579.00	14.94	499.93	14533613.25	2064404.58	40° 0' 39.215 N
						Longitude
						109° 29' 9.107 W
						Shape
						Circle (Radius: 25.00)
						- plan hits target center



SECTION DETAILS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	
1300.00	20.00	88.29	1279.82	5.16	172.69	2.00	88.29	172.77	
1752.07	20.00	88.29	1704.62	9.78	327.24	0.00	0.00	327.38	
2752.07	0.00	0.00	2684.43	14.94	499.93	2.00	180.00	500.15	
9646.63	0.00	0.00	9579.00	14.94	499.93	0.00	0.00	500.15	PBHL_NBU 922-30F1BS
PROJECT DETAILS: Uintah County, UT UTM12							FORMATION TOP DETAILS		
Geodetic System: Universal Transverse Mercator (US Survey Feet)							TVDPath	MDPath	Formation
Datum: NAD 1927 - Western US							1449.00	1480.04	GREEN RIVER
Ellipsoid: Clarke 1866							4715.00	4782.63	WASATCH
Zone: Zone 12N (114 W to 108 W)							7355.00	7422.63	MESAVERDE
Location: SECTION 30 T9S R22E									
System Datum: Mean Sea Level									
CASING DETAILS									
	TVD	MD	Name	Size					
	2568.00	2635.60	8 5/8"	8.625					



Kerr McGee Oil and Gas Onshore LP

**Uintah County, UT UTM12
NBU 922-30D PAD
NBU 922-30F1BS**

OH

Plan: PLAN #1 PRELIMINARY

Standard Planning Report

06 June, 2011





SDI
Planning Report



Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 922-30F1BS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 4925' & KB 9' @ 4934.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 4925' & KB 9' @ 4934.00ft (ASSUMED)
Site:	NBU 922-30D PAD	North Reference:	True
Well:	NBU 922-30F1BS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1 PRELIMINARY		

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

Site	NBU 922-30D PAD, SECTION 30 T9S R22E				
Site Position:		Northing:	14,533,586.35 usft	Latitude:	40° 0' 39.031 N
From:	Lat/Long	Easting:	2,063,914.56 usft	Longitude:	109° 29' 15.410 W
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence:	0.97 °

Well	NBU 922-30F1BS, 1249 FNL 654 FWL					
Well Position	+N/-S	3.64 ft	Northing:	14,533,589.83 usft	Latitude:	40° 0' 39.067 N
	+E/-W	-9.52 ft	Easting:	2,063,904.98 usft	Longitude:	109° 29' 15.533 W
Position Uncertainty		0.00 ft	Wellhead Elevation:		Ground Level:	4,925.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	06/02/2011	11.08	65.88	52,341

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	88.29

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,300.00	20.00	88.29	1,279.82	5.16	172.69	2.00	2.00	0.00	88.29	
1,752.07	20.00	88.29	1,704.62	9.78	327.24	0.00	0.00	0.00	0.00	
2,752.07	0.00	0.00	2,684.43	14.94	499.93	2.00	-2.00	0.00	180.00	
9,646.63	0.00	0.00	9,579.00	14.94	499.93	0.00	0.00	0.00	0.00	PBHL_NBU 922-30F1



SDI
Planning Report



Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 922-30F1BS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 4925' & KB 9' @ 4934.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 4925' & KB 9' @ 4934.00ft (ASSUMED)
Site:	NBU 922-30D PAD	North Reference:	True
Well:	NBU 922-30F1BS	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	88.29	399.98	0.05	1.74	1.75	2.00	2.00	0.00	
500.00	4.00	88.29	499.84	0.21	6.98	6.98	2.00	2.00	0.00	
600.00	6.00	88.29	599.45	0.47	15.69	15.69	2.00	2.00	0.00	
700.00	8.00	88.29	698.70	0.83	27.87	27.88	2.00	2.00	0.00	
800.00	10.00	88.29	797.47	1.30	43.50	43.52	2.00	2.00	0.00	
900.00	12.00	88.29	895.62	1.87	62.57	62.60	2.00	2.00	0.00	
1,000.00	14.00	88.29	993.06	2.54	85.06	85.10	2.00	2.00	0.00	
1,100.00	16.00	88.29	1,089.64	3.31	110.93	110.98	2.00	2.00	0.00	
1,200.00	18.00	88.29	1,185.27	4.19	140.15	140.21	2.00	2.00	0.00	
1,300.00	20.00	88.29	1,279.82	5.16	172.69	172.77	2.00	2.00	0.00	
Start 452.07 hold at 1300.00 MD										
1,400.00	20.00	88.29	1,373.78	6.18	206.88	206.97	0.00	0.00	0.00	
1,480.04	20.00	88.29	1,449.00	7.00	234.24	234.35	0.00	0.00	0.00	
GREEN RIVER										
1,500.00	20.00	88.29	1,467.75	7.20	241.06	241.17	0.00	0.00	0.00	
1,600.00	20.00	88.29	1,561.72	8.22	275.25	275.37	0.00	0.00	0.00	
1,700.00	20.00	88.29	1,655.69	9.25	309.44	309.58	0.00	0.00	0.00	
1,752.07	20.00	88.29	1,704.62	9.78	327.24	327.38	0.00	0.00	0.00	
Start Drop -2.00										
1,800.00	19.04	88.29	1,749.80	10.26	343.25	343.40	2.00	-2.00	0.00	
1,900.00	17.04	88.29	1,844.88	11.18	374.20	374.37	2.00	-2.00	0.00	
2,000.00	15.04	88.29	1,940.98	12.01	401.82	402.00	2.00	-2.00	0.00	
2,100.00	13.04	88.29	2,037.98	12.73	426.07	426.26	2.00	-2.00	0.00	
2,200.00	11.04	88.29	2,135.78	13.35	446.92	447.12	2.00	-2.00	0.00	
2,300.00	9.04	88.29	2,234.24	13.87	464.35	464.56	2.00	-2.00	0.00	
2,400.00	7.04	88.29	2,333.25	14.29	478.33	478.55	2.00	-2.00	0.00	
2,500.00	5.04	88.29	2,432.69	14.61	488.85	489.07	2.00	-2.00	0.00	
2,600.00	3.04	88.29	2,532.44	14.82	495.90	496.12	2.00	-2.00	0.00	
2,635.60	2.33	88.29	2,568.00	14.87	497.56	497.78	2.00	-2.00	0.00	
8 5/8"										
2,700.00	1.04	88.29	2,632.37	14.92	499.46	499.68	2.00	-2.00	0.00	
2,752.07	0.00	0.00	2,684.43	14.94	499.93	500.15	2.00	-2.00	0.00	
Start 6894.57 hold at 2752.07 MD										
2,800.00	0.00	0.00	2,732.37	14.94	499.93	500.15	0.00	0.00	0.00	
2,900.00	0.00	0.00	2,832.37	14.94	499.93	500.15	0.00	0.00	0.00	
3,000.00	0.00	0.00	2,932.37	14.94	499.93	500.15	0.00	0.00	0.00	
3,100.00	0.00	0.00	3,032.37	14.94	499.93	500.15	0.00	0.00	0.00	
3,200.00	0.00	0.00	3,132.37	14.94	499.93	500.15	0.00	0.00	0.00	
3,300.00	0.00	0.00	3,232.37	14.94	499.93	500.15	0.00	0.00	0.00	
3,400.00	0.00	0.00	3,332.37	14.94	499.93	500.15	0.00	0.00	0.00	
3,500.00	0.00	0.00	3,432.37	14.94	499.93	500.15	0.00	0.00	0.00	
3,600.00	0.00	0.00	3,532.37	14.94	499.93	500.15	0.00	0.00	0.00	
3,700.00	0.00	0.00	3,632.37	14.94	499.93	500.15	0.00	0.00	0.00	
3,800.00	0.00	0.00	3,732.37	14.94	499.93	500.15	0.00	0.00	0.00	
3,900.00	0.00	0.00	3,832.37	14.94	499.93	500.15	0.00	0.00	0.00	
4,000.00	0.00	0.00	3,932.37	14.94	499.93	500.15	0.00	0.00	0.00	
4,100.00	0.00	0.00	4,032.37	14.94	499.93	500.15	0.00	0.00	0.00	
4,200.00	0.00	0.00	4,132.37	14.94	499.93	500.15	0.00	0.00	0.00	



SDI
Planning Report



Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 922-30F1BS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 4925' & KB 9' @ 4934.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 4925' & KB 9' @ 4934.00ft (ASSUMED)
Site:	NBU 922-30D PAD	North Reference:	True
Well:	NBU 922-30F1BS	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)
4,300.00	0.00	0.00	4,232.37	14.94	499.93	500.15	0.00	0.00	0.00
4,400.00	0.00	0.00	4,332.37	14.94	499.93	500.15	0.00	0.00	0.00
4,500.00	0.00	0.00	4,432.37	14.94	499.93	500.15	0.00	0.00	0.00
4,600.00	0.00	0.00	4,532.37	14.94	499.93	500.15	0.00	0.00	0.00
4,700.00	0.00	0.00	4,632.37	14.94	499.93	500.15	0.00	0.00	0.00
4,782.63	0.00	0.00	4,715.00	14.94	499.93	500.15	0.00	0.00	0.00
WASATCH									
4,800.00	0.00	0.00	4,732.37	14.94	499.93	500.15	0.00	0.00	0.00
4,900.00	0.00	0.00	4,832.37	14.94	499.93	500.15	0.00	0.00	0.00
5,000.00	0.00	0.00	4,932.37	14.94	499.93	500.15	0.00	0.00	0.00
5,100.00	0.00	0.00	5,032.37	14.94	499.93	500.15	0.00	0.00	0.00
5,200.00	0.00	0.00	5,132.37	14.94	499.93	500.15	0.00	0.00	0.00
5,300.00	0.00	0.00	5,232.37	14.94	499.93	500.15	0.00	0.00	0.00
5,400.00	0.00	0.00	5,332.37	14.94	499.93	500.15	0.00	0.00	0.00
5,500.00	0.00	0.00	5,432.37	14.94	499.93	500.15	0.00	0.00	0.00
5,600.00	0.00	0.00	5,532.37	14.94	499.93	500.15	0.00	0.00	0.00
5,700.00	0.00	0.00	5,632.37	14.94	499.93	500.15	0.00	0.00	0.00
5,800.00	0.00	0.00	5,732.37	14.94	499.93	500.15	0.00	0.00	0.00
5,900.00	0.00	0.00	5,832.37	14.94	499.93	500.15	0.00	0.00	0.00
6,000.00	0.00	0.00	5,932.37	14.94	499.93	500.15	0.00	0.00	0.00
6,100.00	0.00	0.00	6,032.37	14.94	499.93	500.15	0.00	0.00	0.00
6,200.00	0.00	0.00	6,132.37	14.94	499.93	500.15	0.00	0.00	0.00
6,300.00	0.00	0.00	6,232.37	14.94	499.93	500.15	0.00	0.00	0.00
6,400.00	0.00	0.00	6,332.37	14.94	499.93	500.15	0.00	0.00	0.00
6,500.00	0.00	0.00	6,432.37	14.94	499.93	500.15	0.00	0.00	0.00
6,600.00	0.00	0.00	6,532.37	14.94	499.93	500.15	0.00	0.00	0.00
6,700.00	0.00	0.00	6,632.37	14.94	499.93	500.15	0.00	0.00	0.00
6,800.00	0.00	0.00	6,732.37	14.94	499.93	500.15	0.00	0.00	0.00
6,900.00	0.00	0.00	6,832.37	14.94	499.93	500.15	0.00	0.00	0.00
7,000.00	0.00	0.00	6,932.37	14.94	499.93	500.15	0.00	0.00	0.00
7,100.00	0.00	0.00	7,032.37	14.94	499.93	500.15	0.00	0.00	0.00
7,200.00	0.00	0.00	7,132.37	14.94	499.93	500.15	0.00	0.00	0.00
7,300.00	0.00	0.00	7,232.37	14.94	499.93	500.15	0.00	0.00	0.00
7,400.00	0.00	0.00	7,332.37	14.94	499.93	500.15	0.00	0.00	0.00
7,422.63	0.00	0.00	7,355.00	14.94	499.93	500.15	0.00	0.00	0.00
MESAVERDE									
7,500.00	0.00	0.00	7,432.37	14.94	499.93	500.15	0.00	0.00	0.00
7,600.00	0.00	0.00	7,532.37	14.94	499.93	500.15	0.00	0.00	0.00
7,700.00	0.00	0.00	7,632.37	14.94	499.93	500.15	0.00	0.00	0.00
7,800.00	0.00	0.00	7,732.37	14.94	499.93	500.15	0.00	0.00	0.00
7,900.00	0.00	0.00	7,832.37	14.94	499.93	500.15	0.00	0.00	0.00
8,000.00	0.00	0.00	7,932.37	14.94	499.93	500.15	0.00	0.00	0.00
8,100.00	0.00	0.00	8,032.37	14.94	499.93	500.15	0.00	0.00	0.00
8,200.00	0.00	0.00	8,132.37	14.94	499.93	500.15	0.00	0.00	0.00
8,300.00	0.00	0.00	8,232.37	14.94	499.93	500.15	0.00	0.00	0.00
8,400.00	0.00	0.00	8,332.37	14.94	499.93	500.15	0.00	0.00	0.00
8,500.00	0.00	0.00	8,432.37	14.94	499.93	500.15	0.00	0.00	0.00
8,600.00	0.00	0.00	8,532.37	14.94	499.93	500.15	0.00	0.00	0.00
8,700.00	0.00	0.00	8,632.37	14.94	499.93	500.15	0.00	0.00	0.00
8,800.00	0.00	0.00	8,732.37	14.94	499.93	500.15	0.00	0.00	0.00
8,900.00	0.00	0.00	8,832.37	14.94	499.93	500.15	0.00	0.00	0.00
9,000.00	0.00	0.00	8,932.37	14.94	499.93	500.15	0.00	0.00	0.00
9,100.00	0.00	0.00	9,032.37	14.94	499.93	500.15	0.00	0.00	0.00
9,200.00	0.00	0.00	9,132.37	14.94	499.93	500.15	0.00	0.00	0.00



Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 922-30F1BS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 4925' & KB 9' @ 4934.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 4925' & KB 9' @ 4934.00ft (ASSUMED)
Site:	NBU 922-30D PAD	North Reference:	True
Well:	NBU 922-30F1BS	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)
9,300.00	0.00	0.00	9,232.37	14.94	499.93	500.15	0.00	0.00	0.00
9,400.00	0.00	0.00	9,332.37	14.94	499.93	500.15	0.00	0.00	0.00
9,500.00	0.00	0.00	9,432.37	14.94	499.93	500.15	0.00	0.00	0.00
9,600.00	0.00	0.00	9,532.37	14.94	499.93	500.15	0.00	0.00	0.00
9,646.63	0.00	0.00	9,579.00	14.94	499.93	500.15	0.00	0.00	0.00
TD at 9646.63 - PBHL_NBU 922-30F1BS									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PBHL_NBU 922-30F1BS - hit/miss target - Shape - Circle (radius 25.00)	0.00	0.00	9,579.00	14.94	499.93	14,533,613.26	2,064,404.58	40° 0' 39.215 N	109° 29' 9.107 W

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)	
2,635.60	2,568.00	8 5/8"	8.625	11.000	

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,480.04	1,449.00	GREEN RIVER		0.00	
4,782.63	4,715.00	WASATCH		0.00	
7,422.63	7,355.00	MESAVERDE		0.00	

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Comment	
300.00	300.00	0.00	0.00	Start Build 2.00	
1,300.00	1,279.82	5.16	172.69	Start 452.07 hold at 1300.00 MD	
1,752.07	1,704.62	9.78	327.24	Start Drop -2.00	
2,752.07	2,684.43	14.94	499.93	Start 6894.57 hold at 2752.07 MD	
9,646.63	9,579.00	14.94	499.93	TD at 9646.63	

Kerr-McGee Oil & Gas Onshore. L.P.**NBU 922-30D Pad**

<u>API #4304750644</u>	<u>NBU 922-30C3S</u>			
	Surface:	1253 FNL / 663 FWL	NWNW	Lot 1
	BHL:	1381 FNL / 1985 FWL	SENW	Lot
<u>API #</u>	<u>NBU 922-30D1BS</u>			
	Surface:	1236 FNL / 616 FWL	NWNW	Lot 1
	BHL:	240 FNL / 771 FWL	NWNW	Lot 1
<u>API #</u>	<u>NBU 922-30D1CS</u>			
	Surface:	1243 FNL / 635 FWL	NWNW	Lot 1
	BHL:	569 FNL / 762 FWL	NWNW	Lot 1
<u>API #4304750645</u>	<u>NBU 922-30D3AS</u>			
	Surface:	1232 FNL / 607 FWL	NWNW	Lot 1
	BHL:	680 FNL / 382 FWL	NWNW	Lot 1
<u>API #4304750655</u>	<u>NBU 922-30D3DS</u>			
	Surface:	1226 FNL / 588 FWL	NWNW	Lot 1
	BHL:	1314 FNL / 352 FWL	NWNW	Lot 1
<u>API #4304750656</u>	<u>NBU 922-30E2AS</u>			
	Surface:	1246 FNL / 645 FWL	NWNW	Lot 1
	BHL:	1636 FNL / 352 FWL	SWNW	Lot 2
<u>API #</u>	<u>NBU 922-30F1BS</u>			
	Surface:	1249 FNL / 654 FWL	NWNW	Lot 1
	BHL:	1238 FNL / 1154 FWL	NENW	Lot

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

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

An on-site meeting was held on May 5, 2011. Present were:

- David Gordon, Melissa Wardle, Karl Wright and Dan Emmett - BLM; and
- John Slaugh and Mitch Batty - Timberline Engineering & Land Surveying, Inc.; and
- Jacob Dunham - 609 Consulting, LLC; and
- Andy Lytle, Charles Chase, Ken Gathings, Roger Parry, Grizz Oleen, and Sheila Wopsock - Kerr-McGee

A. Existing Roads:

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

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

Roads, gathering lines and electrical distribution lines will occupy common disturbance corridors where possible. Where available, roadways will be used as the staging area and working space for installation of gathering lines. All disturbances located in the same corridor will overlap each other to the maximum extent possible, while maintaining safe and sound construction and installation practices. Unless otherwise approved or requested in site specific documents, in no case will the maximum disturbance widths of the access road and utility corridors exceed the widths specified in Part D of this document.

Please refer to Topo B, for existing roads.

No segments require a ROW.

B. New or Reconstructed Access Roads:

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

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

As applicable, Kerr-McGee may use unimproved and/or two-track roads for lease operations, to lessen total disturbance.

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

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

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

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

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

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

There are no new roads to be constructed.

C. Location of Existing Wells:

A) Refer to Topo Map C.

D. Location of Existing and/or Proposed Facilities:

This pad will expand the existing pad for the NBU 78, which is a producing gas well according to Utah Division of Oil, Gas and Mining (UDOGM) records on June 2, 2011. Gathering (pipeline) infrastructure will be utilized to collect and transport gas and fluids from the wells which are owned and operated by Kerr McGee Oil and Gas Onshore LP (Kerr-McGee).

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

GAS GATHERING

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

The gas gathering pipeline material: Steel line pipe. Surface = Bare pipe. Buried = Coated with fusion bonded epoxy coating (or equivalent). The total gas gathering pipeline distance from the meter to the tie in point is $\pm 995'$ and the individual segments are broken up as follows:

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

- ±530' (0.10 miles) – Section 30 T09S R22E (NW/4 NW/4) – On-lease UTU0463, BLM surface, New 8" buried gas gathering pipeline from the meter to the edge of the pad. Please refer to Topo D2 - Pad and Pipeline Detail.
- ±465' (0.09 miles) – Section 30 T09S R22E (NW/4 NW/4) – On-lease UTU0463, BLM surface, New 8" buried gas gathering pipeline from the edge of the pad to the West Line of Section 30. Please refer to Exhibit A, Line 18.

LIQUID GATHERING

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

The total liquid gathering pipeline distance from the separator to the tie in point is ±995' and the individual segments are broken up as follows:

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

- ±530' (0.10 miles) – Section 30 T09S R22E (NW/4 NW/4) – On-lease UTU0463, BLM surface, New 6" buried liquid gathering pipeline from the separator to the edge of the pad. Please refer to Topo D2 - Pad and Pipeline Detail.
- ±465' (0.09 miles) – Section 30 T09S R22E (NW/4 NW/4) – Lease UTU0463, BLM surface, New 6" buried liquid gathering pipeline from the edge of the pad to the West Line of Section 30. Please refer to Exhibit B, Line 21.

Pipeline Gathering Construction

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

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

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

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

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

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

If pipelines or roads encounter a drainage that could be subject to flooding or surface water during extreme precipitation events, Kerr-McGee will apply all applicable Army Corps mandates as well as the BLM's Hydraulic Considerations for Pipeline Crossings of Stream Channels (BLM Technical Note 423, April 2007). In addition, all stream and drainage crossings will be evaluated to determine the need for stream alteration permits from the State of Utah Division of Water Rights and if necessary, required permits will be secured. Similarly, where a road or pipeline crossing exists the pipe will be butt welded and buried to a depth between 24 and 48 inches or more. Dirt roads will be cut and restored to a condition equivalent to the existing condition. All Uintah County road encroachment and crossing permits, where applicable, will be obtained prior to crossing construction. In no case will pressure testing of pipelines result in discharge of liquids to the surface. Please see site specific PODs and/or mapping materials for location of related facilities such as cathodic protection wells or pumping stations. Pipeline signs will be installed along the route to indicate the pipeline proximity, ownership, and to provide emergency contact phone numbers. Above ground valves, lateral T's, and/or cathodic protection wells will be installed at various locations for production integrity and safety purposes.

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

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

The Anadarko Completions Transportation System (ACTS) information:

Please refer to Exhibit C for ACTs Lines

Upon completion of the wells on this pad, Kerr-McGee is also requesting to utilize the pit on this the proposed location as an Anadarko Completion Transport System (ACTS) staging pit which will be utilized for other completion operations in the area. The ACTS process will reduce the amount of truck traffic on a field-wide basis, also reducing vehicle emissions and fugitive dust generation.

Kerr-McGee will use ACTS to optimize the completion processes for multiple pads across the project area which may include up to a section of development. ACTS will facilitate management of frac fluids by utilizing existing reserve pits and temporary, surface-laid aluminum liquids transfer lines between frac locations. The pit will be refurbished as follows: mix and pile up drill cuttings with dry dirt, bury the original liner in the pit, walk bottom of pit with cat. Kerr-McGee will reline the pit with a 30 mil liner and double felt padding. The refurbished pit will be the same size or smaller as specified in the originally approved ROW/APD. The pit refurb will be done in a normal procedure and there will be no modification to the pit. Hog fence panels (5' X 16') will be built and painted shadow gray and will be put up on the work side of the pit. Polypropylene netting will be installed over all pits.

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

ACTS will require temporarily laying multiple 6" aluminum pipe water transfer lines on the surface between either existing or refurbished reserve pits. Please see the attached ACTS exhibit C for placement of the proposed temporary lines. The temporary aluminum transfer lines will be utilized to transport frac fluid being injected and/or recovered during the

completion process and will be laid adjacent to existing access roads or pipeline corridors. Upon completion of the frac operation, the liquids transfer lines will be flushed with fresh water and purged with compressed air. The contents of the transfer lines will be flushed into a water truck for delivery to another ACTS location or a reserve pit.

The volume of frac fluid transported through a water transfer line will vary, but volume is projected to be approximately 1.75 bbls per 50-foot joint. Although the maximum working pressure is 125 psig, the liquids transfer lines will be operated at a pressure of approximately 30 to 40 psig. Kerr-McGee requests to keep the netted pit open for one year from first production. During this time the surrounding well location completion fluids may be recycled in this pit and utilized for other frac jobs in the area. After one year Kerr-McGee will backfill the pit and reclaim. Kerr-McGee understands that due to the temporary nature of this system BLM considers this a casual use situation; therefore, no permanent ROW or temporary use plan will need to be issued by the BLM.

E. Location and Types of Water Supply:

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

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

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

No water well is to be drilled on this lease.

F. Construction Materials:

Construction operations will typically be completed with native materials found on location. Construction materials that must be imported to the site (mineral material aggregate, soils or materials suitable for fill/surfacing) will be obtained from a nearby permitted source (described in site-specific documents). No construction materials will be removed from federal lands without prior approval from the BLM. A source location other than an on-location construction site will be designated either via a map or narrative within the project specific materials provided to the BLM.

G. Methods for Handling Waste:

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

Any accidental release, such as a leak or spill in excess of the reportable quantity, as established by 40 CFR Part 117.3, will be reported as per the requirements of CERCLA, Section 102 B. If a release involves petroleum hydrocarbons or produced liquids, Kerr-McGee will comply with the notification requirements of NTL-3A. Drill cuttings and/or drilling fluids will be contained in the reserve/frac pit. Cuttings will be buried in pit(s) upon closure. Unless specifically approved by the BLM, no oil or other oil-based drilling additives, chromium/metals-based, or saline muds will be used during drilling. Only fresh water (as specified above), biodegradable polymer soap, bentonite clay, and/or non-toxic additives will be used in the mud system.

Pits will be constructed to minimize the accumulation of surface precipitation runoff into the pit (via appropriate placement of subsoil/topsoil storage areas and/or construction of berms, ditches, etc). Should unexpected liquid petroleum hydrocarbons (crude oil or condensate) be encountered during drilling, completions or well testing, liquid petroleum hydrocarbons will either be contained in test tanks on the well site or evacuated by vacuum trucks and transported to an approved disposal/sales facility. Should petroleum hydrocarbons unexpectedly be released into a pit, they will be removed as soon as practical but in no case will they remain longer than 72 hours unless approved by the BLM. Should timely removal not be feasible, the pit will be netted as soon as practical. Similarly, hydrocarbon removal will take place prior to the closure of the pit, unless authorization is provided for disposal via alternate pit closure methods (e.g. solidification).

The reserve and/or fracture stimulation pit will be lined with an impermeable liner. The liner will be a synthetic material 30 mil or thicker. The bottom and side walls of the pit will be void of any sharp rocks that could puncture the liner. The liner will be installed over smooth fill subgrade that is free of pockets, loose rocks, or other materials (i.e. sand, sifted dirt, bentonite, straw, etc.) that could damage the liner. After evaporation and when dry, the reserve pit liners will be cut off, ripped and/or folded back (as safety considerations allow) as near to the mud surface as possible and buried on location or hauled to a landfill prior to backfilling the pit with a minimum of five feet of soil material.

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

Any additional pits necessary for subsequent operations, such as temporary flare or workover pits, will be contained within the originally approved well pad and disturbance boundaries. Such temporary pits will be backfilled and reclaimed within 180 days of completion of work at a well location.

Pits containing drilling cuttings, mud, and/or completions fluids will be allowed to dry. Any free fluids remaining after 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.

No garbage or non-exempt substances as defined by Resource Conservation and Recovery Act (RCRA) subtitle C will be placed in the reserve pit. All refuse (trash and other solid waste including cans, paper, cable, etc.) generated during construction, drilling, completion, and well testing activities will be contained in an enclosed receptacle, removed from the drill locations promptly, and transported to an approved disposal facility. Immediately after removal of the drilling rig, all debris and other waste materials not contained within trash receptacles will be collected and removed from the well location.

For the protection of livestock and wildlife, all open pits (excluding flare pits) will be fenced to prevent wildlife or livestock entry. Total height of pit fencing will be at least 42 inches and corner posts will be cemented and/or braced in such a manner as to keep the fence tight at all times. Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any 2 fence posts shall be no greater than 16 feet. Siphons, catchments, and absorbent pads will be installed to keep hydrocarbons produced by the drilling rig or other equipment on location from entering the reserve pit. Hydrocarbons, contaminated pads, and/or soils will be disposed of in accordance with state and federal requirements.

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

Materials Management

Hazardous materials above reportable quantities will not be produced by drilling or completing proposed wells or constructing the pipelines/facilities. The term "hazardous materials" as used here means: (1) any substance, pollutant, or containment listed as hazardous under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) of 1980, as amended 42 U.S.C. 9601 et seq., and the regulations issued under CERCLA; and (2) any hazardous waste as defined in RCRA of 1976, as amended. In addition, no extremely hazardous substance, as defined in 40 CFR 355, in threshold planning quantities, would be used, produced, stored, transported, or disposed of while producing any well.

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

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

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

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

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

RNI in Sec. 5 T9S R22E
NBU #159 in Sec. 35 T9S R21E
Ace Oilfield in Sec. 2 T6S R20E
MC&MC in Sec. 12 T6S R19E
Pipeline Facility in Sec. 36 T9S R20E
Goat Pasture Evaporation Pond in SW/4 Sec. 16 T10S R22E
Bonanza Evaporation Pond in Sec. 2 T10S R23E

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

NBU 159 SWD in Sec. 35 T9S R21E
CIGE 112D SWD in Sec. 19 T9S R21E
CIGE 114 SWD in Sec. 34 T9S R21E
NBU 921-34K SWD in Sec. 34 T9S R21E
NBU 921-33F SWD in Sec. 34 T9S R21E

H. Ancillary Facilities:

No additional ancillary facilities are planned for this location.

I. Well Site Layout:

The location, orientation and aerial extent of each drill pad; reserve/completion/flare pit; 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.

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

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

Where produced liquids tanks are utilized, the tanks will be constructed, maintained, and operated to prevent unauthorized surface or subsurface discharges of liquids. The tanks will be fenced or capped to prevent livestock or wildlife entry. The tanks will be kept reasonably free from surface accumulations of liquid hydrocarbons. The tanks are not to be used for disposal of liquids from additional sources without the prior approval of the BLM.

J. Plans for Surface Reclamation:

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

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

Interim Reclamation

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

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

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

Final Reclamation

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

After plugging, all wellhead equipment that is no longer needed will be removed, and the well site will be reclaimed. Final contouring will blend with and follow as closely as practical the natural terrain and contours of the original site and surrounding areas. After re-contouring the site to the approximate contour that existed prior to pad construction, final grading will be conducted over the entire surface of the well site and access road. The area will be ripped to a depth of 18 to 24" on 18 to 24" centers, where practical. The surface soil material will be pitted with small depressions to form longitudinal depressions 12 to 18" deep, where practical. The entire area will be uniformly covered with the depressions constructed perpendicular to the natural flow of water.

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

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

Measures Common to Interim and Final Reclamation

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

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

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

Shadescale Mix	e Live Seed lbs/acre
Indian Ricegrass (Nezpar)	3
Sandberg bluegrass	0.75
Bottlebrush squirreltail	1
Great Basin Wildrye	0.5
Crested wheatgrass (Ephraim)	1.5
Winterfat	0.25
Shadscale	1.5
Four-wing saltbush	0.75
Forage Kochia	0.25
Total	9.5

Additional soil amendments and/or stabilization may be required on sites with poor soils and/or excessive erosion potential. Where severe erosion can become a problem and/or the use of machinery is not practical, seed will be hand broadcast and raked with twice the specified amount of seed. Slopes will be stabilized using materials specifically designed to prevent erosion on steep slopes and hold seed in place so vegetation can become permanently established. These materials will include, but are not limited to: erosion control blankets, hydro-mulch, and/or bonded fiber matrix at a rate to achieve a minimum of 80 percent soil coverage. Soil amendments such as “Sustain” (an organic fertilizer that will be applied at the rate 1,800 – 2,100 lbs/acre with seed) may also be dry broadcast or applied with hydro-seeding equipment.

Weed Control

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

Monitoring

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

All monitoring reports will be submitted electronically to the Vernal BLM in the form of a geo-database no later than March 31, of the calendar year following the data collection.

K. Surface/Mineral Ownership:

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

L. Other Information:**Onsite Specifics:**

- Construction: 30 Mil Double Felt
- Existing surface gas gathering pipeline will be removed from location if no longer in service

Cultural and Paleontological Resources

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

Resource Reports:

A Class I literature survey was completed on February 11, 2011, by Montgomery Archaeological Consultants, Inc (MOAC). For additional details please refer to report MOAC 10-243b.

A paleontological reconnaissance survey was completed on February 02, 2011, by Intermountain Paleo-Consulting. For additional details please refer to report IPC #10-31.

Biological field survey was completed on June 22, 2010, by Grasslands Consulting, Inc (GCI). For additional details please refer to report GCI-396.

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

Laura Abrams
Regulatory Analyst II
Kerr-McGee Oil & Gas Onshore LP
PO Box 173779
Denver, CO 80217-3779
(720) 929-6356

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

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

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

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

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

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

 Laura Abrams

 June 2, 2011
Date



Kerr-McGee Oil & Gas Onshore LP
PO Box 173779
DENVER, CO 80217-3779

April 4, 2011

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

Re: Directional Drilling R649-3-11
NBU 922-30F1BS
T9S-R22E
Section 30 NWNW (Surf), SENW (Bottom)
Surface: 1249' FNL, 654' FWL
Bottom Hole: 1238' FNL, 1154' FWL
Uintah County, Utah

Dear Ms. Mason:

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

- Kerr-McGee's NBU 922-30F1BS 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 roads and pipelines in the area.
- Furthermore, Kerr-McGee certifies that it is the sole working interest owner within 460 feet of the entire directional well bore.

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

Sincerely,

KERR-MCGEE OIL & GAS ONSHORE LP

A handwritten signature in blue ink that reads 'Joe Matney'.

Joe Matney
Sr. Staff Landman

RECEIVED: June 16, 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)

June 20, 2011

Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

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

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

API #	WELL NAME	LOCATION
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(Proposed PZ WASATCH-MESA VERDE)

NBU 922-30A PAD

43-047-51666	NBU 922-29D1BS	Sec 30 T09S R22E 0990 FNL 0492 FEL
	BHL	Sec 29 T09S R22E 0088 FNL 0925 FWL

43-047-51667	NBU 922-30A4BS	Sec 30 T09S R22E 0987 FNL 0502 FEL
	BHL	Sec 30 T09S R22E 0732 FNL 0457 FEL

43-047-51668	NBU 922-30A1CS	Sec 30 T09S R22E 0985 FNL 0512 FEL
	BHL	Sec 30 T09S R22E 0406 FNL 0457 FEL

43-047-51670	NBU 922-30A1BS	Sec 30 T09S R22E 0982 FNL 0521 FEL
	BHL	Sec 30 T09S R22E 0083 FNL 0469 FEL

NBU 922-30B PAD

43-047-51669	NBU 922-30B1CS	Sec 30 T09S R22E 1135 FNL 2047 FEL
	BHL	Sec 30 T09S R22E 0570 FNL 1682 FEL

43-047-51671	NBU 922-30B1BS	Sec 30 T09S R22E 1130 FNL 2056 FEL
	BHL	Sec 30 T09S R22E 0251 FNL 1682 FEL

43-047-51673	NBU 922-30B4BS	Sec 30 T09S R22E 1141 FNL 2039 FEL
	BHL	Sec 30 T09S R22E 0896 FNL 1681 FEL

43-047-51674	NBU 922-30B4CS	Sec 30 T09S R22E 1146 FNL 2030 FEL
	BHL	Sec 30 T09S R22E 1222 FNL 1680 FEL

NBU 922-30C PAD

43-047-51672	NBU 922-30C1BS	Sec 30 T09S R22E 0684 FNL 2012 FWL
	BHL	Sec 30 T09S R22E 0083 FNL 1991 FWL

RECEIVED: June 21, 2011

API #	WELL NAME	LOCATION
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(Proposed PZ WASATCH-MESA VERDE)

NBU 922-30C PAD

43-047-51675	NBU 922-30C1CS	Sec 30 T09S R22E 0680 FNL 1982 FWL
	BHL	Sec 30 T09S R22E 0405 FNL 1988 FWL

43-047-51676	NBU 922-30C4BS	Sec 30 T09S R22E 0681 FNL 1992 FWL
	BHL	Sec 30 T09S R22E 0730 FNL 1987 FWL

43-047-51677	NBU 922-30C4CS	Sec 30 T09S R22E 0683 FNL 2002 FWL
	BHL	Sec 30 T09S R22E 1056 FNL 1986 FWL

NBU 922-30D PAD

43-047-51678	NBU 922-30D1BS	Sec 30 T09S R22E 1236 FNL 0616 FWL
	BHL	Sec 30 T09S R22E 0240 FNL 0771 FWL

43-047-51681	NBU 922-30D1CS	Sec 30 T09S R22E 1243 FNL 0635 FWL
	BHL	Sec 30 T09S R22E 0569 FNL 0762 FWL

43-047-51683	NBU 922-30F1BS	Sec 30 T09S R22E 1249 FNL 0654 FWL
	BHL	Sec 30 T09S R22E 1238 FNL 1154 FWL

NBU 922-30F PAD

43-047-51679	NBU 922-30F1CS	Sec 30 T09S R22E 2144 FNL 1622 FWL
	BHL	Sec 30 T09S R22E 1706 FNL 1984 FWL

43-047-51680	NBU 922-30F4BS	Sec 30 T09S R22E 2149 FNL 1614 FWL
	BHL	Sec 30 T09S R22E 2032 FNL 1983 FWL

43-047-51682	NBU 922-30F4CS	Sec 30 T09S R22E 2154 FNL 1605 FWL
	BHL	Sec 30 T09S R22E 2357 FNL 1982 FWL

43-047-51684	NBU 922-30K1BS	Sec 30 T09S R22E 2159 FNL 1596 FWL
	BHL	Sec 30 T09S R22E 2523 FSL 1980 FWL

43-047-51685	NBU 922-30K1CS	Sec 30 T09S R22E 2164 FNL 1588 FWL
	BHL	Sec 30 T09S R22E 2198 FSL 1979 FWL

This office has no objection to permitting the wells at this time.

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

MCoulthard:mc:6-20-11

WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 6/16/2011**API NO. ASSIGNED:** 43047516830000**WELL NAME:** NBU 922-30F1BS**OPERATOR:** KERR-MCGEE OIL & GAS ONSHORE, L.P. (N2995)**PHONE NUMBER:** 720 929-6356**CONTACT:** Laura Abrams**PROPOSED LOCATION:** NWNW 30 090S 220E**Permit Tech Review:** **SURFACE:** 1249 FNL 0654 FWL**Engineering Review:** **BOTTOM:** 1238 FNL 1154 FWL**Geology Review:** **COUNTY:** UINTAH**LATITUDE:** 40.01084**LONGITUDE:** -109.48762**UTM SURF EASTINGS:** 629082.00**NORTHINGS:** 4429846.00**FIELD NAME:** NATURAL BUTTES**LEASE TYPE:** 1 - Federal**LEASE NUMBER:** UTU463**PROPOSED PRODUCING FORMATION(S):** WASATCH-MESA VERDE**SURFACE OWNER:** 1 - Federal**COALBED METHANE:** NO**RECEIVED AND/OR REVIEWED:**

- PLAT**
- Bond:** FEDERAL - WYB000291
- Potash**
- Oil Shale 190-5**
- Oil Shale 190-3**
- Oil Shale 190-13**
- Water Permit:** 43-8496
- RDCC Review:**
- Fee Surface Agreement**
- Intent to Commingle**

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
- 4 - Federal Approval - dmason
- 15 - Directional - dmason
- 17 - Oil Shale 190-5(b) - dmason

RECEIVED: August 17, 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 922-30F1BS
API Well Number: 43047516830000
Lease Number: UTU463
Surface Owner: FEDERAL
Approval Date: 8/17/2011

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:

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

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

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

Notification Requirements:

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

- Within 24 hours following the spudding of the well – contact Carol Daniels at 801-538-5284 (please leave a voicemail message if not available)
OR
submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website at <http://oilgas.ogm.utah.gov>

Reporting Requirements:

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

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

Approved By:



For John Rogers
Associate Director, Oil & Gas

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

UNITED STATES JUL 05 2011
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
BLM, Vernal Utah
APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. UTU463
1b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name
2. Name of Operator KERR-MCGEE OIL & GAS ONSHORE LP		7. If Unit or CA Agreement, Name and No. UTU63047A
3a. Address P.O. BOX 173779 DENVER, CO 80202-3779		8. Lease Name and Well No. NBU 922-30FIBS
3b. Phone No. (include area code) Laura Abrams 720-929-6356		9. API Well No. 43 047 51683
4. Location of well (Report location clearly and in accordance with any State requirements. *) At surface NWNW 1249' 654' Lot 1 FNL FWL Lat. 40.010817 Long. -109.488334 At proposed prod. zone NENW 1238' 1154' FNL FWL Lat. 40.010858 Long. -109.486549		10. Field and Pool, or Exploratory NATURAL BUTTES
14. Distance in miles and direction from the nearest town or post office* Approximately 42.1 miles south of Vernal, UT		11. Sec., T., R., M., or Blk. and Survey or Area 30 T 9S R 22E
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drlg. unit line, if any) 1381'	16. No. of acres in lease 551	12. County or Parish UINTAH
17. Spacing Unit dedicated to this well	13. State UTAH	
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 676'	19. Proposed Depth 9647'	20. BLM/ BIA Bond No. on file WYB000291
21. Elevations (Show whether DF, RT, GR, etc.) 4927' GR	22. Approximate date work will start* 12/1/2011	23. Estimated duration 60-90 Days

24. Attachments

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

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

25. Signature 	Name (Printed/ Typed) Laura Abrams	Date 6/30/2011
Title Regulatory Analyst II		

Approved By (Signature) 	Name (Printed/ Typed) Jerry Kenczka	Date OCT 03 2011
Title Assistant Field Manager Lands & Mineral Resources	Office VERNAL FIELD OFFICE	

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached. **CONDITIONS OF APPROVAL ATTACHED**

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

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(Continued on page 2)

NOTICE OF APPROVAL 2 2011
* (Instructions on page 2)





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

170 South 500 East VERNAL, UT 84078 (435) 781-4401



CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company:	Kerr McGee Oil & Gas Onshore, LP	Location:	Lot 1, Sec. 30, T9S, R22E (S) NENW, Sec. 30, T9S, R22E (B)
Well No:	NBU 922-30F1BS	Lease No:	UTU-463
API No:	43-047-51683	Agreement:	Natural Buttes Unit

OFFICE NUMBER: (435) 781-4400

OFFICE FAX NUMBER: (435) 781-3420

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

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

NOTIFICATION REQUIREMENTS

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

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

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

SITE SPECIFIC COAs

- Kerr McGee will adhere to all applicant committed conservation measures and conservation recommendations that are stated in the USFWS's "Final Biological Opinion for the Anadarko Petroleum Corporation Natural Buttes Unit and Bonanza Area Natural Gas Development Project.
- The operator will follow the Green River District Reclamation Guidelines for Reclamation.
- The operator will control noxious weeds along the well pad, access road, and the pipeline route by spraying or mechanical removal. On BLM administered land, a Pesticides Use Proposal (PUP) will be submitted and approved prior to the application of herbicides or pesticides or possibly hazardous chemicals.

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

SITE SPECIFIC DOWNHOLE COAs:

- A copy of Kerr McGee's Standard Operating Practices (SOP version: dated 7/17/08 and approved 7/28/08) shall be on location.

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

DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

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

- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.
- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- **Please submit an electronic copy of all other logs run on this well in LAS format to UT_VN_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.**
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

OPERATING REQUIREMENT REMINDERS:

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

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

BLM - Vernal Field Office - Notification Form

Operator KERR-McGEE OIL & GAS Rig Name/# BUCKET RIG
Submitted By SHEILA WOPSOCK Phone Number 435.781.7024
Well Name/Number NBU 922-30F1BS
Qtr/Qtr NWNW Section 30 Township 9S Range 22E
Lease Serial Number UTU-463
API Number 4304751683

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

Date/Time 12/20/2011 1400 HRS AM PM

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

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

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DEC 15 2011

DIV. OF OIL, GAS & MINING

Date/Time 01/22/2011 0800 HRS AM PM

BOPE

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

Date/Time _____ AM PM

Remarks ESTIMATED DATE AND TIME. PLEASE CONTACT
LOVEL YOUNG AT 435.781.7051 FOR MORE

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

FORM 6

ENTITY ACTION FORM

Operator: KERR MCGEE OIL & GAS ONSHORE LP Operator Account Number: N 2995
Address: 1368 SOUTH 1200 EAST
city VERNAL
state UT zip 84078 Phone Number: (435) 781-7024

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304751681	NBU 922-30D1CS		NWNW	30	9S	22E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
B	99999	2900	12/20/2011			12/28/11	
Comments: MIRU PETE MARTIN BUCKET RIG. <i>WSTMVD</i> SPUD WELL ON 12/20/2011 AT 0800 HRS <i>BHL = NWNW</i>							

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304750656	NBU 922-30E2AS		NWNW	30	9S	22E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
B	99999	2900	12/21/2011			12/28/11	
Comments: MIRU PETE MARTIN BUCKET RIG. <i>WSTMVD</i> SPUD WELL ON 12/21/2011 AT 1530 HRS <i>BHL = SWNW</i>							

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304751683	NBU 922-30F1BS		NWNW	30	9S	22E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
B	99999	2900	12/21/2011			12/28/11	
Comments: MIRU PETE MARTIN BUCKET RIG. <i>WSTMVD</i> SPUD WELL ON 12/21/2011 AT 1800 HRS. <i>BHL = NENW</i>							

ACTION CODES:

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

SHEILA WOPSOCK

Name (Please Print)

Signature

REGULATORY ANALYST

12/22/2011

Title

Date

(5/2000)

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DEC 27 2011

DIV. OF OIL, GAS & MINING

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: UTU463
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: 7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: NBU 922-30F1BS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047516830000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6514 9. FIELD and POOL or WILDCAT: NATURAL BUTTES
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1249 FNL 0654 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNW Section: 30 Township: 09.0S Range: 22.0E Meridian: S	COUNTY: UINTAH STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 1/17/2012 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input checked="" type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>

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

The operator requests approval to deepen the well to the Blackhawk formation (part of the Mesaverde Group). The Operator also requests approval for a FIT wavier, closed loop drilling option, and a production casing change. All other aspects of the previously approved drilling plan will not change. Please see the attachment. Thank you.

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

January 23, 2012

Date: _____

By: _____

NAME (PLEASE PRINT) Jaime Scharnowske	PHONE NUMBER 720 929-6304	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 1/17/2012	

Kerr-McGee Oil & Gas Onshore. L.P.**NBU 922-30F1BS**

Surface: 1249 FNL / 654 FWL NWNW
 BHL: 1238 FNL / 1154 FWL NENW

Section 30 T9S R22E

Unitah County, Utah
 Mineral Lease: USA UTU 0463

ONSHORE ORDER NO. 1**DRILLING PROGRAM**

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

<u>Formation</u>	<u>Depth</u>	<u>Resource</u>
Uinta	0 - Surface	
Green River	1,447'	
Birds Nest	1,751'	Water
Mahogany	2,244'	Water
Wasatch	4,688'	Gas
Mesaverde	7,320'	Gas
Sego	9,506'	Gas
Castlegate	9,601'	Gas
Blackhawk	10,021'	Gas
TVD	10,667'	
TD	10,709'	

3. **Pressure Control Equipment** (Schematic Attached)

Please refer to the attached Drilling Program

4. **Proposed Casing & Cementing Program:**

Please refer to the attached Drilling Program

5. **Drilling Fluids Program:**

Please refer to the attached Drilling Program

6. Evaluation Program:

Please refer to the attached Drilling Program

7. Abnormal Conditions:

Maximum anticipated bottom hole pressure calculated at 10667' TVD, approximately equals
7,040 psi (0.66 psi/ft = actual bottomhole gradient)

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

Maximum anticipated surface pressure equals approximately 4,742 psi (bottom hole pressure
minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot, per Onshore Order No. 2).

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

8. Anticipated Starting Dates:

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

9. Variances:

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

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

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

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

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

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

Background

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

Before the surface air rig is mobilized, a rathole rig is utilized to set and cement conductor pipe through a competent surface formation. Generally, the conductor is set at 40 feet. In some cases, conductor may

be set deeper in areas that the surface formation is not found competent. This rig also drills the rat and mouse holes in preparation for the surface casing and production string drilling operations.

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

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

Variance for BOPE Requirements

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

Variance for Mud Material Requirements

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

Variance for Special Drilling Operation (surface equipment placement) Requirements

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

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

Typically the air rig compressors are required to be located in the opposite direction from the blooie line and a minimum of 100 feet from the well bore. At the KMG locations, the air rig compressors are approximately 40 feet from the well bore and approximately 60 feet from the blooie line discharge due to the unique air rig design. The air compressors (see attachment) are located on the rig (1250 cfm) and on a standby trailer (1170 cfm). A booster sits between the two compressors and boosts the output from 350 psi to 2000 psi. The design does put the booster and standby compressor opposite from the blooie line.

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

Variance for FIT Requirements

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

Conclusion

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

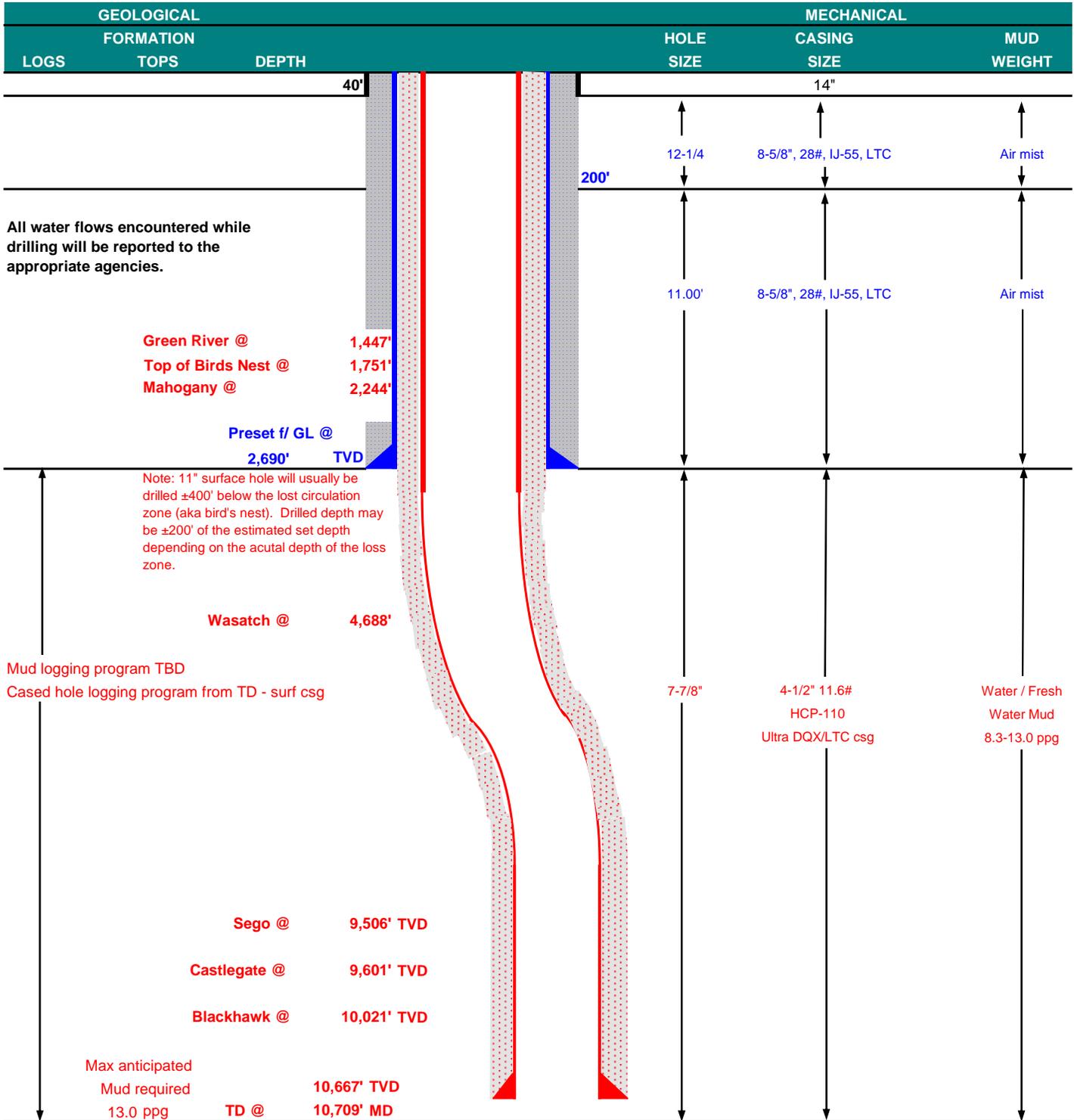
10. Other Information:

Please refer to the attached Drilling Program.



KERR-McGEE OIL & GAS ONSHORE LP DRILLING PROGRAM

COMPANY NAME	KERR-McGEE OIL & GAS ONSHORE LP		DATE	January 16, 2012	
WELL NAME	NBU 922-30F1BS		TD	10,667'	TVD 10,709' MD
FIELD	Natural Buttes	COUNTY	Uintah	STATE	Utah
				FINISHED ELEVATION	4,925'
SURFACE LOCATION	NWNW	1249 FNL	654 FWL	Sec 30 T 9S R 22E	
	Latitude:	40.010817	Longitude:	-109.488334	NAD 83
BTM HOLE LOCATION	NENW	1238 FNL	1154 FWL	Sec 30 T 9S R 22E	
	Latitude:	40.010858	Longitude:	-109.485655	NAD 83
OBJECTIVE ZONE(S)	BLACKHAWK (Part of the Mesaverde Group)				
ADDITIONAL INFO	Regulatory Agencies: BLM (Minerals), BLM (Surface), UDOGM Tri-County Health Dept.				





KERR-McGEE OIL & GAS ONSHORE LP
DRILLING PROGRAM

CASING PROGRAM

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS			
						BURST	COLLAPSE	LTC	DQX
								TENSION	
CONDUCTOR	14"	0-40'				3,390	1,880	348,000	N/A
SURFACE	8-5/8"	0 to 2,690	28.00	IJ-55	LTC	2.00	1.49	5.28	N/A
PRODUCTION	4-1/2"	0 to 5,000	11.60	HCP-110	DQX	10,690	8,650	279,000	367,174
	4-1/2"	5,000 to 10,709'	11.60	HCP-110	LTC	1.19	1.20	5.26	3.69

Surface casing:

(Burst Assumptions: TD = 13.0 ppg) 0.73 psi/ft = frac gradient @ surface shoe
 Fracture at surface shoe with 0.1 psi/ft gas gradient above
 (Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

Production casing:

(Burst Assumptions: Pressure test with 8.4ppg @ 9000 psi) 0.66 psi/ft = bottomhole gradient
 (Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

CEMENT PROGRAM

	FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE Option 1	LEAD 500'	Premium cmt + 2% CaCl + 0.25 pps flocele	180	60%	15.80	1.15
	TOP OUT CMT (6 jobs) 1,200'	20 gals sodium silicate + Premium cmt + 2% CaCl + 0.25 pps flocele	270	0%	15.80	1.15
NOTE: If well will circulate water to surface, option 2 will be utilized						
SURFACE Option 2	LEAD 2,190'	65/35 Poz + 6% Gel + 10 pps gilsonite + 0.25 pps Flocele + 3% salt BWOW	200	35%	11.00	3.82
	TAIL 500'	Premium cmt + 2% CaCl + 0.25 pps flocele	150	35%	15.80	1.15
	TOP OUT CMT as required	Premium cmt + 2% CaCl	as req.		15.80	1.15
PRODUCTION	LEAD 4,179'	Premium Lite II +0.25 pps celloflake + 5 pps gilsonite + 10% gel + 0.5% extender	330	35%	12.00	3.38
	TAIL 6,530'	50/50 Poz/G + 10% salt + 2% gel + 0.1% R-3	1,540	35%	14.30	1.31

*Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained
 *Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained

FLOAT EQUIPMENT & CENTRALIZERS

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe
PRODUCTION	Float shoe, 1 jt, float collar. 15 centralizers for a Mesaverde and 20 for a Blackhawk well. 1 centralizer on the first 3 joints and one every third joint thereafter.

ADDITIONAL INFORMATION

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

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

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

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

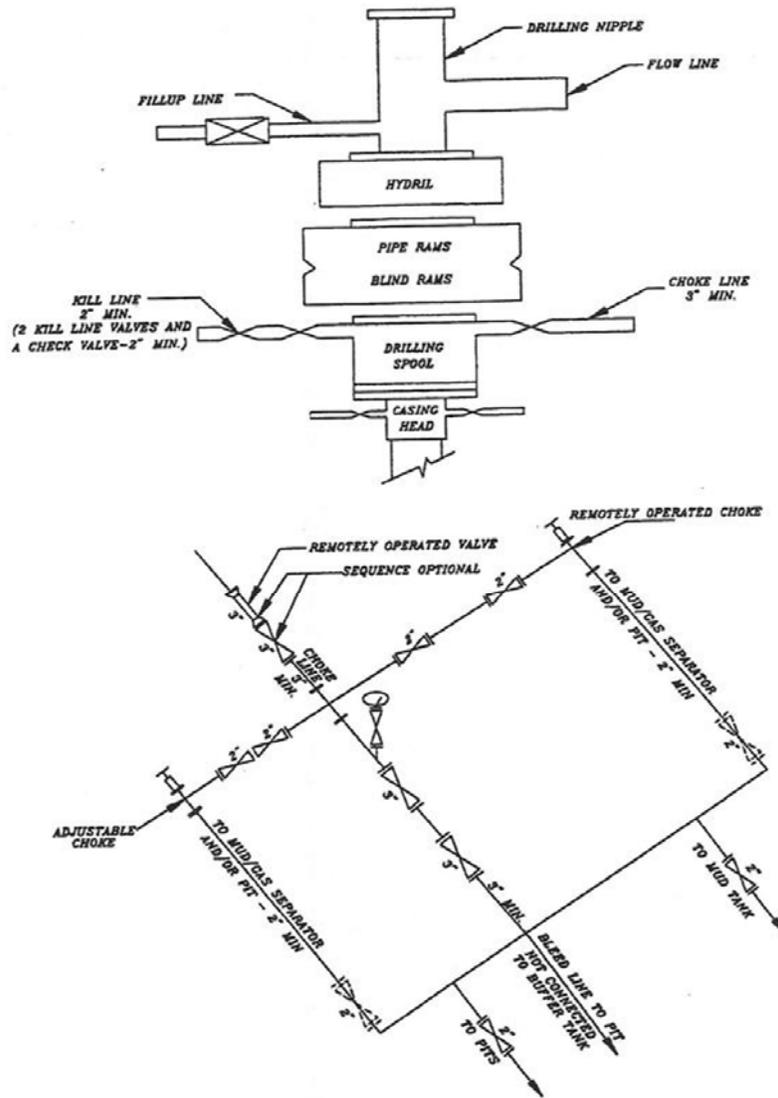
DRILLING ENGINEER: _____
 Nick Spence / Danny Showers / Chad Loesel

DATE: _____

DRILLING SUPERINTENDENT: _____
 Kenny Gathings / Lovel Young

DATE: _____

EXHIBIT A
NBU 922-30F1BS



SCHEMATIC DIAGRAM OF 5,000 PSI BOP STACK

Requested Drilling Options:

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

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

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
5. LEASE DESIGNATION AND SERIAL NUMBER: UTU463	
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:	
7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES	
8. WELL NAME and NUMBER: NBU 922-30F1BS	
9. API NUMBER: 43047516830000	
9. FIELD and POOL or WILDCAT: NATURAL BUTTES	
COUNTY: UINTAH	
STATE: UTAH	

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

1. TYPE OF WELL Gas Well	
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6511
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1249 FNL 0654 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNW Section: 30 Township: 09.0S Range: 22.0E Meridian: S	

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 1/22/2012	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

MIRU AIR RIG ON JAN. 20, 2012. DRILLED SURFACE HOLE TO 2770'. RAN SURFACE CASING AND CEMENTED. WELL IS WAITING ON ROTARY RIG. DETAILS OF CEMENT JOB WILL BE INCLUDED WITH WELL COMPLETION REPORT.

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

FOR RECORD ONLY

January 23, 2012

NAME (PLEASE PRINT) Jaime Scharnowske	PHONE NUMBER 720 929-6304	TITLE Regularatory Analyst
SIGNATURE N/A	DATE 1/23/2012	

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

FORM 9

5. LEASE DESIGNATION AND SERIAL NUMBER:
UTU463

SUNDRY NOTICES AND REPORTS ON WELLS

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

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:
NATURAL BUTTES

1. TYPE OF WELL
Gas Well

8. WELL NAME and NUMBER:
NBU 922-30F1BS

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

9. API NUMBER:
43047516830000

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

9. FIELD and POOL or WILDCAT:
NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE:
1249 FNL 0654 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
Qtr/Qtr: NWNW Section: 30 Township: 09.0S Range: 22.0E Meridian: S

COUNTY:
UINTAH

STATE:
UTAH

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<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input checked="" type="checkbox"/> SPUD REPORT Date of Spud: 12/21/2011	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
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	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input type="text"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.
MIRU PETE MARTIN BUCKET RIG. DRILLED 20" CONDUCTOR HOLE TO 40'.
RAN 14" 36.7# SCHEDULE 10 PIPE. CMT W/28 SX READY MIX. SPUD WELL ON
12/21/2011 AT 1800 HRS.

NAME (PLEASE PRINT) Sheila Wopsock	PHONE NUMBER 435 781-7024	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 12/22/2011	

BLM - Vernal Field Office - Notification Form

Operator ANADARKO Rig Name/# ENSIGN 139
Submitted By KENNY MORRIS Phone Number 435- 828-0984
Well Name/Number NBU 922-30F1BS
Qtr/Qtr NW/NW Section 30 Township 9S Range 22E
Lease Serial Number UTU 463
API Number 43-047-51683

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

Date/Time _____ AM PM

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

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

Date/Time ____ _ AM PM

RECEIVED

MAR 14 2012

DIV. OF OIL, GAS & MINING

BOPE

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

Date/Time 3/15/2012 06:00 AM PM

Remarks SKIDDING TO NBU922-30F1BS & WILL BE TESTING B.O.P'S

BLM - Vernal Field Office - Notification Form

Operator ANADARKO Rig Name/# ENSIGN 139
Submitted By KENNY MORRIS Phone Number 435- 828 - 0984
Well Name/Number NBU922-30F1BS

Qtr/Qtr NW/NW Section 30 Township 9S Range 22E
Lease Serial Number UTU463
API Number 4304751683

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

Date/Time _____ AM PM

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

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

Date/Time 3/23/2012 15:00 AM PM

BOPE

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

RECEIVED

MAR 22 2012

DIV. OF OIL, GAS & MINING

Date/Time _____ AM PM

Remarks WILL RUN 4.5 PROD CSG 3/23/2012 IN AFTERNOON

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU463
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:
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1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: NBU 922-30F1BS	
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047516830000	
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4. LOCATION OF WELL FOOTAGES AT SURFACE: 1249 FNL 0654 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNW Section: 30 Township: 09.0S Range: 22.0E Meridian: S	COUNTY: UINTAH	
	STATE: UTAH	
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start: <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input checked="" type="checkbox"/> DRILLING REPORT Report Date: 3/25/2012	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	
	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.		
<p>MIRU ROTARY RIG. FINISHED DRILLING FROM 2,770' TO 10,660' ON MARCH 23, 2012. RAN 4-1/2" 11.6# P-110 PRODUCING CASING. CEMENTED PRODUCTION CASING. RELEASED ENSIGN 139 RIG ON MARCH 25, 2012 @ 06:00 HRS. DETAILS OF CEMENT JOB WILL BE INCLUDED WITH THE WELL COMPLETION REPORT. WELL IS WAITING ON FINAL COMPLETION ACTIVITIES.</p>		
<p>Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY March 28, 2012</p>		
NAME (PLEASE PRINT) Jaime Scharnowske	PHONE NUMBER 720 929-6304	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 3/26/2012	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
5. LEASE DESIGNATION AND SERIAL NUMBER: UTU463	
SUNDRY NOTICES AND REPORTS ON WELLS	
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:	
7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES	
1. TYPE OF WELL Gas Well	
8. WELL NAME and NUMBER: NBU 922-30F1BS	
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	
9. API NUMBER: 43047516830000	
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779 PHONE NUMBER: 720 929-6511	
9. FIELD and POOL or WILDCAT: NATURAL BUTTES	
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1249 FNL 0654 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNW Section: 30 Township: 09.0S Range: 22.0E Meridian: S	
COUNTY: UINTAH	
STATE: UTAH	

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 6/27/2012	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

NO ACTIVITY.

**Accepted by the
 Utah Division of
 Oil, Gas and Mining
 FOR RECORD ONLY
 June 27, 2012**

NAME (PLEASE PRINT) Cara Mahler	PHONE NUMBER 720 929-6029	TITLE Regulatory Analyst I
SIGNATURE N/A	DATE 6/27/2012	

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: UTU463
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: 7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		8. WELL NAME and NUMBER: NBU 922-30F1BS
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		9. API NUMBER: 43047516830000
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1249 FNL 0654 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNW Section: 30 Township: 09.0S Range: 22.0E Meridian: S		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
5. PHONE NUMBER: 720 929-6511		COUNTY: UINTAH
STATE: UTAH		
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> ALTER CASING	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR	
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 6/28/2012	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
	<input type="checkbox"/> CHANGE TUBING	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input type="checkbox"/> CONVERT WELL TYPE	
	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> FRACTURE TREAT	
	<input type="checkbox"/> NEW CONSTRUCTION	
	<input type="checkbox"/> OPERATOR CHANGE	
	<input type="checkbox"/> PLUG AND ABANDON	
	<input type="checkbox"/> PLUG BACK	
	<input checked="" type="checkbox"/> PRODUCTION START OR RESUME	
	<input type="checkbox"/> RECLAMATION OF WELL SITE	
	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> TEMPORARY ABANDON	
	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> VENT OR FLARE	
	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input type="checkbox"/> OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. THE SUBJECT WELL WAS PLACED ON PRODUCTION ON JUNE 28, 2012 AT 3:00 P.M. 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 July 09, 2012
NAME (PLEASE PRINT) Jaime Scharnowske	PHONE NUMBER 720 929-6304	TITLE Regularatory Analyst
SIGNATURE N/A	DATE 7/9/2012	

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.
UTU463

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

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.
UTU63047A

2. Name of Operator
KERR MCGEE OIL & GAS ONSHORE
Contact: CARA MAHLER
Mail: cara.mahler@anadarko.com

8. Lease Name and Well No.
NBU 922-30F1BS

3. Address 1099 18TH STREET, SUITE 1800
DENVER, CO 80202

3a. Phone No. (include area code)
Ph: 720-929-6029

9. API Well No.
43-047-51683

4. Location of Well (Report location clearly and in accordance with Federal requirements)*

At surface NWNW Lot 1 1249FNL 654FWL 40.010817 N Lat, 109.488334 W Lon

At top prod interval reported below NENW 1218FNL 1151FWL

At total depth NENW ¹²¹⁵1223FNL 1189FWL *BHL by HSM*

10. Field and Pool, or Exploratory
NATURAL BUTTES

11. Sec., T., R., M., or Block and Survey
or Area Sec 30 T9S R22E Mer SLB

12. County or Parish
UINTAH

13. State
UT

14. Date Spudded
12/21/2011

15. Date T.D. Reached
03/23/2012

16. Date Completed
 D & A Ready to Prod.
06/28/2012

17. Elevations (DF, KB, RT, GL)*
4925 GL

18. Total Depth: MD 10660
TVD 10619

19. Plug Back T.D.: MD 10610
TVD 10569

20. Depth Bridge Plug Set: MD
TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
CBL/GR/COLLARS-RCBL/GRCL

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

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

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
20.000	14.000 STL	36.7	0	40		28			
11.000	8.625 IJ-55	28.0	0	2756		670		0	
7.875	4.500 P-110	11.6	0	10655		1802		100	

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.375	10165							

25. Producing Intervals

26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) WASATCH	7350	7351	7350 TO 7351	0.360	3	OPEN
B) MESAVERDE	7393	10420	7393 TO 10420	0.360	261	OPEN
C)						
D)						

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

Depth Interval	Amount and Type of Material
7350 TO 10420	PUMP 15,347 BBL S LICK H2O & 361,800 LBS 30/50 OTTAWA SAND

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
06/28/2012	07/04/2012	24	→	0.0	3050.0	361.0			FLows FROM WELL
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
20/64	SI 2448	3090.0	→	0	3050	361		PGW	

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						AUG 21 2012
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
	SI		→						DIV. OF OIL, GAS & MINING

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

ELECTRONIC SUBMISSION #145829 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

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

28b. Production - Interval C

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

28c. Production - Interval D

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

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

30. Summary of Porous Zones (Include Aquifers):

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

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
				GREEN RIVER	1435
				BIRD'S NEST	1761
				MAHOGANY	2272
				WASATCH	4757
				MESAVERDE	7375

32. Additional remarks (include plugging procedure):

The first 210' of the surface hole was drilled with a 12 ?? bit. The remainder of surface hole was drilled with an 11? bit. P-110 DQX csg was run from surface to 5026'; LTC P-110 csg was run from 5026? to 10,655'. Attached is the chronological well history, perforation report & final survey.

33. Circle enclosed attachments:

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

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

**Electronic Submission #145829 Verified by the BLM Well Information System.
For KERR MCGEE OIL & GAS ONSHORE L, sent to the Vernal**

Name (please print) CARA MAHLER Title AUTHORIZED REPRESENTATIVE

Signature (Electronic Submission) Date 08/14/2012

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

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

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 922-30F1BS BLACK

Spud Date: 1/20/2012

Project: UTAH-UINTAH

Site: NBU 922-30D PAD

Rig Name No: ENSIGN 139/139, PROPETRO 12/12

Event: DRILLING

Start Date: 11/21/2011

End Date: 3/25/2012

Active Datum: RKB @4,939.00usft (above Mean Sea Level)

UWI: NW/NW/0/9/S/22/E/30/0/0/26/PM/N/1249/W/0/654/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
1/20/2012	10:30 - 12:30	2.00	MIRU	01	C	P		SKID RIG TO THE NBU 922-30F1BS (WELL 6 OF 7), LEVEL LOCATION, INSTALL DIVERTER HEAD AND BLOWIE LINE, BUILD DITCH, SPOT IN RIG, CATWALK AND PIPE RACKS. RIG UP PIT PUMP. RIG UP HOLE PUMP. PRIME PUMP. INSPECT RIG.
	12:30 - 15:00	2.50	PRPSPD	01	B	P		HELD PJSM. P/U 8" 1.83 BEND .17 RPG MUD MOTOR (1 ST RUN) (SN 775-77428). M/U QD507 12.25" BIT (19 TH RUN) (SN 7137067). PU NEW SHOCK SUB SN (160-80488). TRIP IN CONDUCTOR TO SPUD.
	15:00 - 17:00	2.00	DRLSUR	02	D	P		SPUD 01/20/2012 15:00. DRILL 12.25" HOLE 44'-210' (166', 140'/HR). GPM 400. DH RPM 68 RPM=45, WOB 5-15 Kips. PSI ON/OFF 600/400. UP/DOWN/ ROT 20/20/20 K. DRAG 0 Kips . CIRC RESERVE W. 8.4 ppg WATER. DRILL DOWN TO 210' W/ 6" COLLARS.
	17:00 - 18:30	1.50	DRLSUR	06	A	P		TRIP OUT. LAY DOWN 6" DRILL COLLARS, 12 1/4 BIT. CHECK BIT AND MOTOR. PICK UP Q506 11" BIT (1 st RUN) (SN 7024523) SCRIBE MOTOR. P/U 8" DIRECTIONAL ASSEMBLY AND SCRIBE. INSTALL EM TOOL. TRIP IN TO 210' TO DRILL AHEAD.
	18:30 - 19:30	1.00	DRLSUR	02	D	P		DRILL 11" HOLE 210'-380', CIRC RESERVE W. 8.3 ppg WATER. SWIVEL PACKING LEAKING. PULL TO CONDUCTOR.
	19:30 - 20:00	0.50	DRLSUR	07	A	S		RIG SERVICE
	20:00 - 22:00	2.00	DRLSUR	08	A	S		CHANGE OUT SWIVEL PACKING
	22:00 - 0:00	2.00	DRLSUR	02	D	P		TIH, DRILL FROM 380' TO 800'
1/21/2012	0:00 - 5:30	5.50	DRLSUR	02	D	P		DRILL 11" HOLE ROTATE/SLIDE 800'-1450' (DH RPM 83 RPM=55, WOB 15-20K. PSI ON/OFF 1,240/1,140. UP/DOWN/ ROT 67/49/59 K. DRAG 8 K. CIRC RESERVE W. 8.3# WATER.
	5:30 - 6:00	0.50	DRLSUR	07	A	P		RIG SERVICE
	6:00 - 8:00	2.00	DRLSUR	08	A	S		REPAIR AIR HOSE TO DRILLER'S CONSOLE
	8:00 - 0:00	16.00	DRLSUR	02	D	P		DRILL 11" HOLE ROTATE/SLIDE 1,450'-2,480' . DH RPM 83 RPM=55, WOB 15-20K. PSI ON/OFF 1,590/1,320. UP/DOWN/ ROT 78/54/69 K. DRAG 9 K. CIRC RESERVE W. 8.3# WATER.
1/22/2012	0:00 - 2:30	2.50	DRLSUR	02	D	P		DRILL TO TD AT 2770 ft.
	2:30 - 4:30	2.00	DRLSUR	05	A	P		CIRCULATE AND CLEAN HOLE, PREPARE FOR TOOH.
	4:30 - 6:00	1.50	DRLSUR	06	D	P		LDDS FOR CASING RUN
	6:00 - 9:00	3.00	DRLSUR	06	D	P		LAY DOWN DIRECTIONAL TOOLS. PULL MOTOR AND BREAK BIT. LAY DOWN MOTOR.
	9:00 - 10:00	1.00	DRLSUR	12	A	P		MOVE PIPE RACKS AND CATWALK. PULL DIVERTER HEAD. RIG UP TO RUN CASING.

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 922-30F1BS BLACK

Spud Date: 1/20/2012

Project: UTAH-UINTAH

Site: NBU 922-30D PAD

Rig Name No: ENSIGN 139/139, PROPETRO 12/12

Event: DRILLING

Start Date: 11/21/2011

End Date: 3/25/2012

Active Datum: RKB @4,939.00usft (above Mean Sea Level)

UWI: NWNW/0/9/S/22/E/30/0/0/26/PM/N/1249/W/0/654/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	10:00 - 13:30	3.50	DRLSUR	12	C	P		HOLD SAFETY MEETING. RUN 62 JNT'S OF 8-5/8" 28# J-55 LTC CSG. LAND FLOAT SHOE @ 2746' KB. LAND BAFFLE PLATE @ 2700' KB. MADE FLOAT SHOE UP WITH THREAD LOCK. RAN 5 TOTAL CENTRALIZERS. RIG UP AND PUMP DOWN LANDING JOINT.
	13:30 - 14:00	0.50	DRLSUR	12	B	P		HOLD SAFETY MEETING, RUN 200' OF 1". RIG DOWN RIG MOVE OFF WELL, REBUILD DITCH. RIG UP CEMENT TRUCK, 2" HARD LINES, CEMENT HEAD, LOAD PLUG.
	14:00 - 15:00	1.00	DRLSUR	12	E	P		PRESSURE TEST LINES TO 2500 PSI. PUMP 150 BBLS OF WATER AHEAD. MIX AND PUMP 30 BBLS OF 8.3# GEL WATER AHEAD. MIX AND PUMP (220 SX) 149.6 BBLS OF 11# 3.82 YD 23 GAL/SK HI FILL LEAD CEMENT. MIX AND PUMP (175 SX) 35.8 BBLS OF 15.8# 1.15 YD 5 GAL/SK PREMIUM CEMENT W/ 2% CALC. DROP PLUG ON FLY. DISPLACE W/ 166.5 BBLS OF H2O. FULL CIRCULATION THROUGH OUT. FINAL LIFT OF 560 PSI AT 4 BBL/MIN. BUMP PLUG AT DISPLACEMENT VOLUME. LAND THE PLUG WITH 1100 PSI. SHUT DOWN HELD 900 PSI FOR 5 MIN. TESTED FLOAT AND FLOAT HELD. ABOUT 30 BBLS TO SURFACE BEFORE FALL BACK.
	15:00 - 19:00	4.00	DRLSUR	12	E	P		MIX AND PUMP (175 SX) 35.8 BBLS OF SAME TAIL CEMENT WITH 4% CALC DOWN 1" PIPE. SHUT DOWN AND CLEAN TRUCK. 5 BBL'S CEMENT TO SURFACE. CEMENT FELL BACK. WAIT 1.0 HOUR, MIX AND PUMP (100 SX) 20.4 BBLS OF SAME TAIL CEMENT DOWN THE BACK SIDE WITH 5 BBLS CEMENT TO SURFACE. CEMENT HELD AT SURFACE. SHUT DOWN CLEAN TRUCK AND RIG DOWN CEMENT CREW. RELEASE RIG @ 01/22/2012 1900 hrs.
3/15/2012	6:00 - 7:00	1.00	MIRU	01	C	P		SKID ON
	7:00 - 7:30	0.50	MIRU	14	A	P		NUBOP,SET STACK DOWN
	7:30 - 9:00	1.50	PRPSPD	09	A	P		CUT & SLIP 95' DRLG LINE
	9:00 - 13:00	4.00	PRPSPD	15	A	P		TEST BOP RAMS,CHOKELINE,KILLINE,MANIFOLD,FLOOR VALVES 5000,ANNULAR 2500,CSG 1500 FOR 30 MIN,250 LOWS,CHOKE VALVE 500
	13:00 - 17:30	4.50	PRPSPD	06	A	P		INSTALL WEARBUSHING,P/U BHA #1 SCRIBE DIR TOOLS,TIH LEVEL DERRICK,INSTALL ROT RUBBER
	17:30 - 18:00	0.50	DRLPRO	02	F	P		DRILL CEMENT & SHOE TRACK TO 2780'
	18:00 - 22:30	4.50	DRLPRO	02	D	P		DIRDRILL F/2780 TO 3600'=820 AVG 182,WOB 18-20,RPM 39/118,105 STKS,
	22:30 - 0:00	1.50	DRLPRO	05	A	P		POLY TEST ON PHPA RUNNING OVER SHAKER SCREENS 70 & 100 MESH,HAD TO CIRC OUT WITH SLOW PUMP RATE TILL OUT OF SYSTEM
3/16/2012	0:00 - 0:30	0.50	DRLPRO	05	A	P		FINISH CIRC,BLINDING OFF SCREENS

US ROCKIES REGION
Operation Summary Report

Well: NBU 922-30F1BS BLACK

Spud Date: 1/20/2012

Project: UTAH-UINTAH

Site: NBU 922-30D PAD

Rig Name No: ENSIGN 139/139, PROPETRO 12/12

Event: DRILLING

Start Date: 11/21/2011

End Date: 3/25/2012

Active Datum: RKB @4,939.00usft (above Mean Sea Level)

UWI: NWN/NW/0/9/S/22/E/30/0/0/26/PM/N/1249/W/0/654/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	0:30 - 12:00	11.50	DRLPRO	02	D	P		DIR DRILL F/ 3600 TO 5383 =1783 AVG 155 WOB 16/20 RPM 40/120 = 160 SPM 105 GPM 520 RPG .23 TORQ 5/9 PSI 1200/1750 DIFF 500 SLIDE 4.8% ROT 95% 19 NW OF CENTER MUD WT 8.5 VIS 27 NOV DEWATERING WITH BOTH CENTRIFUGES,5-10'FLARE BOP DRILL
	12:00 - 12:30	0.50	DRLPRO	07	A	P		RIG SERVICE
	12:30 - 14:00	1.50	DRLPRO	02	D	P		DIR DRILL F/5383 TO 5565 =182 AVG 121 WOB 16/20 RPM 40/120 = 160 SPM 105 GPM 520 RPG .23 TORQ 5/9 PSI 1200/1750 DIFF 500 SLIDE 8% MUD WT 8.5 VIS 27 NOV DEWATERING WITH BOTH CENTRIFUGES
	14:00 - 16:30	2.50	DRLPRO	22	G	S		LOST RETURNS PUMP LCM SWEEPS,BYPASS SHAKERS W/8% LCM TO REGAIN,TOTAL LOST 580 BBLs
	16:30 - 0:00	7.50	DRLPRO	02	D	P		DIR DRILL F/5565 TO 6350 =785 AVG 104 WOB 18/20 RPM 40/112 = 152 SPM 96 GPM 471 RPG .23 TORQ 7/10 PSI 1200/1750 DIFF 500 PU 178ROT 158SO 147 SLIDE 0 ROT 100% 13'NW OF CENTER MUD WT 9.4/ VIS 34 3%LCM NOV BYPASS
3/17/2012	0:00 - 13:30	13.50	DRLPRO	02	D	P		DIR DRILL F/6350 TO 7103 =753 AVG 55 WOB 18/20 RPM 40/112 = 152 SPM 96 GPM 471 RPG .23 TORQ 7/10 PSI 1200/1750 DIFF 500 PU 178ROT 158SO 147 SLIDE 9% ROT 91% 11' N 4 W OF CENTER MUD WT 9.4/ VIS 34 3%LCM NOV BYPASS
	13:30 - 14:00	0.50	DRLPRO	07	A	P		RIG SERVICE

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 922-30F1BS BLACK

Spud Date: 1/20/2012

Project: UTAH-UINTAH

Site: NBU 922-30D PAD

Rig Name No: ENSIGN 139/139, PROPETRO 12/12

Event: DRILLING

Start Date: 11/21/2011

End Date: 3/25/2012

Active Datum: RKB @4,939.00usft (above Mean Sea Level)

UWI: NWNW/0/9/S/22/E/30/0/0/26/PM/N/1249/W/0/654/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	14:00 - 0:00	10.00	DRLPRO	02	D			DIR DRILL F/7103 TO 7680 =577 AVG 57 WOB 18/20 RPM 40/112 = 152 SPM 96 GPM 471 RPG .23 TORQ 7/10 PSI 1700/2000 DIFF 300 PU 200ROT 170 SO 154 SLIDE 10 % ROT 90 % 17' N 1 W OF CENTER MUD WT 10.1/ VIS 36 0%LCM NOV BYPASS
3/18/2012	0:00 - 14:00	14.00	DRLPRO	02	D	P		DIR DRILL F/7680 TO 8461 =781 AVG 55 WOB 18/20 RPM 40/112 = 152 SPM 96 GPM 471 RPG .23 TORQ 7/10 PSI 1700/2000 DIFF 300 PU 210ROT 180 SO 154 SLIDE 2.5% ROT 97 % 16' N 6W OF CENTER MUD WT 10.9/ VIS 36 0%LCM NOV BYPASS
	14:00 - 14:30	0.50	DRLPRO	07	A	P		RIG SERVICE
	14:30 - 20:30	6.00	DRLPRO	02	D	P		DIR DRILL F/8461 TO 8772 =311AVG 52 WOB 18/20 RPM 40/112 = 152 SPM 96 GPM 471 RPG .23 TORQ 7/10 PSI 1800/2150 DIFF 350 PU 220ROT 194 SO 183 SLIDE 0% ROT 100 % 17' N 5' W OF CENTER MUD WT 11.3 VIS 36 18%LCM NOV BYPASS
	20:30 - 0:00	3.50	DRLPRO	22	G	X		LOST FULL RETURNS,MIX LCM BUILD VOLUME,TOTAL LOST 750
3/19/2012	0:00 - 10:00	10.00	DRLPRO	02	D	P		DIR DRILL F/8772 TO 9094 =322 AVG 32 WOB 18/20 RPM 40/102 = 142 SPM 90 GPM 440 RPG .23 TORQ 6/12 PSI 1900/2400 DIFF 350 PU 220 ROT 194 SO 183 SLIDE 0% ROT 100 % 17' N 5' W OF CENTER MUD WT 11.8 VIS 36 20%LCM NOV BYPASS
	10:00 - 18:00	8.00	DRLPRO	06	A	S		PUMP OUT 3 STNDS,STRAIGHT PULL 40K OVER,PUMPPILL TOOH F/ BIT & MTR,tight spots 5570,4687
	18:00 - 0:00	6.00	DRLPRO	06	A	P		P/U BIT & MTR,TRIP IN BREAK CIRC AT SHOE & 5800',CAN NOT CIRC AT 5780',START OUT WET TOOH W/ PLUGGED STRING,HOLE TOOK RIGHT FILL TO 4190',TOOK 60 BBL KICK @2742',SHUT IN WELL,MONITOR & CALL
3/20/2012	0:00 - 4:00	4.00	ALL	22	O	S		

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 922-30F1BS BLACK Spud Date: 1/20/2012
 Project: UTAH-UINTAH Site: NBU 922-30D PAD Rig Name No: ENSIGN 139/139, PROPETRO 12/12
 Event: DRILLING Start Date: 11/21/2011 End Date: 3/25/2012
 Active Datum: RKB @4,939.00usft (above Mean Sea Level) UWI: NWNW0/9/S/22/E/30/O/0/26/PM/N/1249/W/O/654/O/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	4:00 - 7:00	3.00	ALL	22	C	X		SICP 700 HIGH,BUILD & BULLHEAD #15 MUD TO KILL WELL WITH 76 BBLs TOTAL,25' FLARE WHILE PUMPING & BLEEDING OFF
	7:00 - 11:00	4.00	ALL	22	C	X		LOST 150 BBLs AFTER KILLING WELL, BUILD & PUMP 30% LCM 12#/38 VIS SWEEPS DOWN BACK SIDE,54 BBLs TOTAL HOLE FULL NO CSG PRESSURE OPEN ANNULAR AND CIRCULATE ACROSS TOP TO MONITOR WELL FOR GAS AND LOSSES,,FLOW CHECK / NO FLOW OR FLARE
	11:00 - 14:00	3.00	ALL	22	O	X		FINISH TRIP OUT WITH PLUGGED PIPE FROM 2740',MONITOR WELL EVERY 5 STNDS,DISPLACED 46 BBLs TO FILL,HOLE STATIC
	14:00 - 16:30	2.50	ALL	22	O	X		FLUSH PLUGGED PIPE OF CUTTING ON FLOAT AND BIT JETS,CHANGE BIT & MTR,SCRIBE DIR TOOLS ,TIH WITH BHA
	16:30 - 17:00	0.50	ALL	22	O	S		CIRC BHA HAD EXCESS PRESSURE
	17:00 - 19:00	2.00	ALL	22	O	S		TOOH UNPLUG 3-JETS,SHALE & BLUE CERAMIC
	19:00 - 0:00	5.00	DRLPRO	06	A	P		BLOW OUT CHOKE & KILLLINE,STAGE IN HOLE EVERY 1000' - WITH BIT #2
3/21/2012	0:00 - 11:30	11.50	DRLPRO	06	A	P		STAGE IN HOLE EVERY 1000',10-30' FLARE ON BTMS UP EACH TIME,25' FILL,PRECAUTIONARY REAM LAST 225' TO 9094'
	11:30 - 12:30	1.00	DRLPRO	05	A	P		CIRC BTMS UP ,12.4/40 VIS 18% LCM 25' FLARE FOR 10 MIN,
	12:30 - 14:00	1.50	DRLPRO	02	D	P		DIR DRILL F/9094 TO 9184 =90 AVG 60 WOB 18 RPM 35/75 =110 SPM 90 GPM 440 RPG .17 TORQ 6/10 PSI 2020/2400 DIFF 300/400 PU 220 ROT 194 SO 183 SLIDE 0% ROT 100 % 12'N 1'E OF CENTER MUD WT 12.4 VIS 40 18%LCM NOV BYPASS SPR 20-150/40-480/ 60-1020 RIG SERVICE
	14:00 - 14:30	0.50	DRLPRO	07	A	P		
	14:30 - 0:00	9.50	DRLPRO	02	D	P		DIR DRILL F/9184 TO 9746 =562 AVG 59 WOB 18 RPM 35/75 =110 SPM 90 GPM 440 RPG .17 TORQ 6/10 PSI 2020/2400 DIFF 300/400 PU 220 ROT 194 SO 183 SLIDE 0% ROT 100 % 11'S 16'EAST OF CENTER MUD WT 12.7/ VIS 40 22%LCM NOV BYPASS

US ROCKIES REGION
Operation Summary Report

Well: NBU 922-30F1BS BLACK

Spud Date: 1/20/2012

Project: UTAH-UINTAH

Site: NBU 922-30D PAD

Rig Name No: ENSIGN 139/139, PROPETRO 12/12

Event: DRILLING

Start Date: 11/21/2011

End Date: 3/25/2012

Active Datum: RKB @4,939.00usft (above Mean Sea Level)

UWI: NWNW/0/9/S/22/E/30/0/0/26/PM/N/1249/W/0/654/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
3/22/2012	0:00 - 16:00	16.00	DRLPRO	02	D	P		DIR DRILL F/9746 TO 10089=343 AVG 21 WOB 18 RPM 35/75 =110 SPM 88 GPM 420 RPG .17 TORQ 6/10 PSI 2150/2400 DIFF 250 PU 230 ROT 205 SO 190 SLIDE 0% ROT 100 % 22 'EAST 18 SOUTH OF CENTER MUD WT 12.6+/ VIS 41 22%LCM NOV BYPASS
	16:00 - 16:30	0.50	DRLPRO	07	A	P		DAILY SERVICE
	16:30 - 0:00	7.50	DRLPRO	02	D	P		DIR DRILL F/10089 TO 10335=246 AVG 32 WOB 18 RPM 35/75 =110 SPM 84 GPM 420 RPG .17 TORQ 6/10 PSI 2200/2400 DIFF 200 PU 258 ROT 210 SO 193 SLIDE 0% ROT 100 % 28 'EAST 28 SOUTH OF CENTER MUD WT 12.6+/ VIS 46 22%LCM NOV BYPASS
3/23/2012	0:00 - 12:00	12.00	DRLPRO	02	D	P		DIR DRILL F/10335 TO 10660=325 AVG 27 WOB 18 RPM 35/75 =110 SPM 84 GPM 420 RPG .17 TORQ 6/10 PSI 2200/2400 DIFF 200 PU 258 ROT 210 SO 193 SLIDE 0% ROT 100 % 41'EAST 36 SOUTH OF CENTER MUD WT 12.6+/ VIS 46 22%LCM NOV BYPASS
	12:00 - 12:30	0.50	DRLPRO	07	A	P		DAILY SERVICE
	12:30 - 13:30	1.00	DRLPRO	05	A	P		FINAL SURVEY@10603=2.59 DEG 151 AZI IS 41' SOUTH 36' EAST OF CENTER, FLOWCHECK /NO FLOW,, CIRC BTMS UP NO FLARE
	13:30 - 17:30	4.00	DRLPRO	06	E	P		SHORTTRIP 20 STNDS BACK TO 8820', BREAK CIRC TIH WASH 90' TO BTM ,10' FILL CIRC BTMS UP TWICE ,,NO FLARE
	17:30 - 20:00	2.50	DRLPRO	05	C	P		TOOH FOR CSG RUN, PUMP OUT 15 STNDS, PUMP PILL,, TOOH TO 6700', SPOT PILL IN ANNULAR, POOH
	20:00 - 0:00	4.00	DRLPRO	06	A	P		TRIP OUT , STND BACK DIR TOOLS
3/24/2012	0:00 - 7:00	7.00	DRLPRO	06	A	P		PULL WEARBUSHING
	7:00 - 7:30	0.50	CSG	14	B	P		PJSM, RUN 251 JTS & 2 MARKERS TO SHOE DEPTH 10640, FC 10598,, FILL 840, 2710, 5780'
	7:30 - 19:00	11.50	CSG	12	C	P		TORQ TURN DQX, TSI ON LOCATION CIRC AND CONDITION FOR CEMENT
	19:00 - 20:30	1.50	CSG	05	D	P		SAFETY MEET W/BJ, PRESSURE TEST TO 5K, PUMP 25 BBLs SPACER, 575 SX LEAD #13 1.77YLD, 1227 SX TAIL#14.3 1.31YLD, DROP PLUG, DISPLACE 164BBLs CLAYFIX, FINALLIFT 3150 ,BUMPLUG 500 OVER, 5 BBLs CEMENT TO RES PIT
	20:30 - 23:00	2.50	CSG	12	E	P		

US ROCKIES REGION
Operation Summary Report

Well: NBU 922-30F1BS BLACK

Spud Date: 1/20/2012

Project: UTAH-UINTAH

Site: NBU 922-30D PAD

Rig Name No: ENSIGN 139/139, PROPETRO 12/12

Event: DRILLING

Start Date: 11/21/2011

End Date: 3/25/2012

Active Datum: RKB @4,939.00usft (above Mean Sea Level)

UWI: NW/NW/0/9/S/22/E/30/0/0/26/PM/N/1249/W/0/654/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
3/25/2012	0:00 - 6:00	6.00	RDMO	01	E	P		CLEAN PITS,PREP F/ SKID RIG RELEASE @ 6AM 3/25/2012 TO NBU922-30C3S

1 General

1.1 Customer Information

Company	US ROCKIES REGION
Representative	
Address	

1.2 Well/Wellbore Information

Well	NBU 922-30F1BS BLACK	Wellbore No.	OH
Well Name	NBU 922-30F1BS	Wellbore Name	NBU 922-30F1BS
Report No.	1	Report Date	5/25/2012
Project	UTAH-UINTAH	Site	NBU 922-30D PAD
Rig Name/No.		Event	COMPLETION
Start Date	5/25/2012	End Date	6/28/2012
Spud Date	1/20/2012	Active Datum	RKB @4,939.00usft (above Mean Sea Level)
UWI	NW/NW/0/9/S/22/E/30/0/0/26/PM/N/1249/W/0/654/0/0		

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	7,350.0 (usft)-10,420.0 (us)	Start Date/Time	5/25/2012 12:00AM
No. of Intervals	54	End Date/Time	5/25/2012 12:00AM
Total Shots	264	Net Perforation Interval	88.00 (usft)
Avg Shot Density	3.00 (shot/ft)	Final Surface Pressure	
		Final Press Date	

2 Intervals

2.1 Perforated Interval

Date	Formation/Reservoir	CCL@ (usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diameter (in)	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
5/25/2012 12:00AM	WASATCH/			7,350.0	7,351.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO	N

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diamete r (in)	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
5/25/2012 12:00AM	MESAVERDE/			7,393.0	7,394.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
5/25/2012 12:00AM	MESAVERDE/			7,428.0	7,431.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
5/25/2012 12:00AM	MESAVERDE/			7,467.0	7,468.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
5/25/2012 12:00AM	MESAVERDE/			7,485.0	7,486.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
5/25/2012 12:00AM	MESAVERDE/			7,502.0	7,503.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
5/25/2012 12:00AM	MESAVERDE/			7,550.0	7,552.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
5/25/2012 12:00AM	MESAVERDE/			7,616.0	7,618.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
5/25/2012 12:00AM	MESAVERDE/			7,650.0	7,652.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
5/25/2012 12:00AM	MESAVERDE/			7,686.0	7,688.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
5/25/2012 12:00AM	MESAVERDE/			7,814.0	7,815.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
5/25/2012 12:00AM	MESAVERDE/			7,821.0	7,822.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
5/25/2012 12:00AM	MESAVERDE/			7,843.0	7,846.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
5/25/2012 12:00AM	MESAVERDE/			7,929.0	7,932.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
5/25/2012 12:00AM	MESAVERDE/			7,983.0	7,985.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
5/25/2012 12:00AM	MESAVERDE/			8,012.0	8,013.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
5/25/2012 12:00AM	MESAVERDE/			8,027.0	8,028.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
5/25/2012 12:00AM	MESAVERDE/			8,049.0	8,050.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
5/25/2012 12:00AM	MESAVERDE/			8,092.0	8,093.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
5/25/2012 12:00AM	MESAVERDE/			8,202.0	8,204.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
5/25/2012 12:00AM	MESAVERDE/			8,340.0	8,342.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
5/25/2012 12:00AM	MESAVERDE/			8,447.0	8,448.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	

2.1 Perforated Interval (Continued)

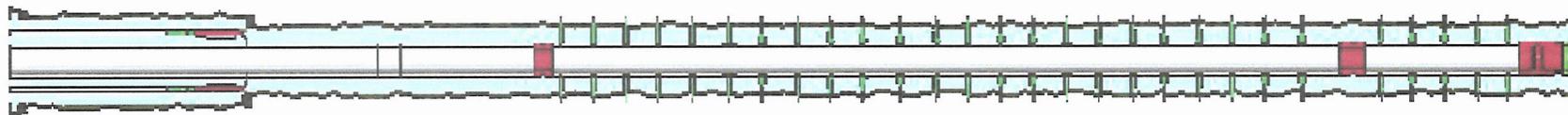
Date	Formation/ Reservoir	CCL@ (usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diamete r (in)	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
5/25/2012 12:00AM	MESAVERDE/			8,469.0	8,470.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
5/25/2012 12:00AM	MESAVERDE/			8,504.0	8,506.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
5/25/2012 12:00AM	MESAVERDE/			8,523.0	8,525.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
5/25/2012 12:00AM	MESAVERDE/			8,626.0	8,627.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
5/25/2012 12:00AM	MESAVERDE/			8,643.0	8,644.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
5/25/2012 12:00AM	MESAVERDE/			8,678.0	8,680.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
5/25/2012 12:00AM	MESAVERDE/			8,698.0	8,699.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
5/25/2012 12:00AM	MESAVERDE/			8,719.0	8,722.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
5/25/2012 12:00AM	MESAVERDE/			8,770.0	8,773.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
5/25/2012 12:00AM	MESAVERDE/			8,790.0	8,792.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
5/25/2012 12:00AM	MESAVERDE/			8,816.0	8,819.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
5/25/2012 12:00AM	MESAVERDE/			8,882.0	8,884.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
5/25/2012 12:00AM	MESAVERDE/			8,902.0	8,903.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
5/25/2012 12:00AM	MESAVERDE/			8,922.0	8,924.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
5/25/2012 12:00AM	MESAVERDE/			8,950.0	8,951.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
5/25/2012 12:00AM	MESAVERDE/			8,991.0	8,993.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
5/25/2012 12:00AM	MESAVERDE/			9,050.0	9,051.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
5/25/2012 12:00AM	MESAVERDE/			9,064.0	9,065.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
5/25/2012 12:00AM	MESAVERDE/			9,078.0	9,079.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
5/25/2012 12:00AM	MESAVERDE/			9,126.0	9,128.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
5/25/2012 12:00AM	MESAVERDE/			9,185.0	9,186.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diamete r (in)	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
5/25/2012 12:00AM	MESAVERDE/			9,232.0	9,233.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
5/25/2012 12:00AM	MESAVERDE/			9,350.0	9,351.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
5/25/2012 12:00AM	MESAVERDE/			10,204.0	10,206.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
5/25/2012 12:00AM	MESAVERDE/			10,222.0	10,224.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
5/25/2012 12:00AM	MESAVERDE/			10,254.0	10,256.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
5/25/2012 12:00AM	MESAVERDE/			10,272.0	10,274.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
5/25/2012 12:00AM	MESAVERDE/			10,298.0	10,299.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
5/25/2012 12:00AM	MESAVERDE/			10,320.0	10,321.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
5/25/2012 12:00AM	MESAVERDE/			10,370.0	10,372.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
5/25/2012 12:00AM	MESAVERDE/			10,384.0	10,386.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
5/25/2012 12:00AM	MESAVERDE/			10,418.0	10,420.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	

3 Plots

3.1 Wellbore Schematic



**US ROCKIES REGION
Operation Summary Report**

Well: NBU 922-30F1BS BLACK

Spud Date: 1/20/2012

Project: UTAH-UINTAH

Site: NBU 922-30D PAD

Rig Name No: MILES 2/2, MILES 2/2

Event: COMPLETION

Start Date: 5/25/2012

End Date: 6/28/2012

Active Datum: RKB @4,939.00usft (above Mean Sea Level)

UWI: NW/NW/0/9/S/22/E/30/0/0/26/PM/N/1249/W/0/654/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
1/20/2012	-							
1/21/2012	-							
5/25/2012	9:30 - 11:30	2.00	COMP	33		P		FILL SURFACE CSG. MIRU B&C QUICK TEST. PSI TEST T/ 1000 PSI. HELD FOR 15 MIN LOST 25 PSI. PSI TEST T/ 3500 PSI. HELD FOR 15 MIN LOST 37 PSI. 1ST PSI TEST T/ 9000 PSI. HELD FOR 30 MIN LOST 94 PSI. NO COMMUNICATION OR MIGRATION WITH SURFACE CSG BLEED OFF PSI. MOVE T/ NEXT WELL. SWMFW
5/26/2012	-							
6/1/2012	8:30 - 8:45	0.25	COMP	48		P		HSM & JSA W/CASED HOLE SOLUTIONS.
	13:00 - 14:05	1.08	COMP	37	B	P		WHP 0 PSI. MIRU CASED HOLE SOLUTIONS. STG 1) P/U 3 1/8" EXP GNS, 23 gm, 0.36 HOLE, 24 HOLES. PERF THE L.M.V. AS PER DESIGN. POOH W/TOOLS & TIE BACK LUB. SWM - SDFWE
6/4/2012	6:30 - 7:00	0.50	COMP	48		P		HSM & JSA W/HALLIBURTON & CASED HOLE SOLUTIONS.
	10:01 - 11:06	1.08	COMP	36	E	P		MIRU HALCO FRAC EQUIP. PT SURFACE EQUIP TO 8800 PSI. FRAC STG 1) WHP 1761 PSI. BRK DWN PERF 4.8 BPM @ 4635 PSI. ISIP 4064 PSI. FG. 0.83. EST INJ RATE 49.5 BPM @ 5755 PSI. 24/24 PERFS OPEN - 100%. MP 7487 PSI, MR 50.2 BPM, AP 5643 PSI, AR 49.9 BPM. ISIP 3831 PSI, FG. 0.80, NPI (-233) PSI. PMP'D 2951 BBLS SLK WTR, 82,200 LBS 30/50 SND. X-OVER FOR WL.
	11:11 - 12:11	1.00	COMP	37	B	P		PERF STG 2) P/U HALCO 8K CBP & 3 1/8" EXP GNS, 23 GRM, 0.36 HOLE, 120 DEG PHSG. RIH SET CBP @ 10,284'. PERF LOWER MESA VERDE AS PER PERF DESIGN. POOH & HANG BACK LUB. X-OVER FOR FRAC
	14:17 - 15:15	0.97	COMP	36	E	P		FRAC STG 2) WHP 3337 PSI. BRK DWN PERF 4.8 BPM @ 4270 PSI. ISIP 3851 PSI. FG. 0.81. EST INJ RATE 55.1 BPM @ 6148 PSI. 24/24 PERFS OPEN - 100%. MP 6135 PSI, MR 55.5 BPM, AP 5801 PSI, AR 50.8 BPM. ISIP 3854 PSI, FG. 0.81, NPI 3 PSI. PMP'D 2784 BBLS SLK WTR, 82,700 LBS 30/50 SND. X-OVER FOR WL.
	15:20 - 16:20	1.00	COMP	37	B	P		PERF STG 3) P/U HALCO 8K CBP & 3 1/8" EXP GNS, 23 GRM, 0.36 HOLE, 120 DEG PHSG. RIH SET CBP @ 9401'. PERF MESA VERDE AS PER PERF DESIGN. POOH & HANG BACK LUB. X-OVER FOR FRAC - SWM - SDFN
6/5/2012	6:15 - 6:30	0.25	COMP	48		P		HSM & JSA W/HALLIBURTON & CASED HOLE SOLUTIONS

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 922-30F1BS BLACK

Spud Date: 1/20/2012

Project: UTAH-UINTAH

Site: NBU 922-30D PAD

Rig Name No: MILES 2/2, MILES 2/2

Event: COMPLETION

Start Date: 5/25/2012

End Date: 6/28/2012

Active Datum: RKB @4,939.00usft (above Mean Sea Level)

UWI: NWNW/0/9/S/22/E/30/0/0/26/PM/N/1249/W/0/654/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	6:42 - 7:03	0.35	COMP	36	E	P		FRAC STG 3) WHP 1729 PSI. BRK DWN PERF 4.6 BPM @ 3198 PSI. ISIP 2763 PSI. FG. 0.73. EST INJ RATE 45.3 BPM @ 5024 PSI. 22/24 PERFS OPEN - 92%. MP 5107 PSI, MR 50.2 BPM, AP 2593 PSI, AR 50.4 BPM. ISIP 2836 PSI, FG. 0.74, NPI 73 PSI. PMP'D 892 BBLS SLK WTR, 15,800 LBS 30/50 SND. X-OVER FOR WL.
	7:08 - 8:08	1.00	COMP	37	B	P		PERF STG 4) P/U HALCO 8K CBP & 3 1/8" EXP GNS, 23 GRM, 0.36 HOLE, 120 DEG PHSG. RIH SET CBP @ 9023'. PERF MESA VERDE AS PER PERF DESIGN. POOH & HANG BACK LUB. X-OVER FOR FRAC
	9:16 - 9:42	0.43	COMP	36	E	P		FRAC STG 4) WHP 1523 PSI. BRK DWN PERF 4.8 BPM @ 2944 PSI. ISIP 2477 PSI. FG. 0.67. EST INJ RATE 49.9 BPM @ 4516 PSI. 22/24 PERFS OPEN - 92%. MP 4437 PSI, MR 50.2 BPM, AP 4227 PSI, AR 49.8 BPM. ISIP 2749 PSI, FG. 0.74, NPI 272 PSI. PMP'D 1148 BBLS SLK WTR, 21,600 LBS 30/50 SND. X-OVER FOR WL.
	9:47 - 10:47	1.00	COMP	37	B	P		PERF STG 5) P/U HALCO 8K CBP & 3 1/8" EXP GNS, 23 GRM, 0.36 HOLE, 120 DEG PHSG. RIH SET CBP @ 8849'. PERF MESA VERDE AS PER PERF DESIGN. POOH & HANG BACK LUB. X-OVER FOR FRAC
	11:34 - 11:57	0.38	COMP	36	E	P		FRAC STG 5) WHP 2222 PSI. BRK DWN PERF 4.8 BPM @ 2772 PSI. ISIP 2496 PSI. FG. 0.72. EST INJ RATE 49.2 BPM @ 4235 PSI. 24/24 PERFS OPEN - 100%. MP 4249 PSI, MR 51.1 BPM, AP 4193 PSI, AR 50.7 BPM. ISIP 2657 PSI, FG. 0.74, NPI 161 PSI. PMP'D 983 BBLS SLK WTR, 18,800 LBS 30/50 SND. -OVER FOR WL
	12:02 - 13:02	1.00	COMP	37	B	P		PERF STG 6) P/U HALCO 8K CBP & 3 1/8" EXP GNS, 23 GRM, 0.36 HOLE, 120 DEG PHSG. RIH SET CBP @ 8752'. PERF MESA VERDE AS PER PERF DESIGN. POOH & HANG BACK LUB. X-OVER FOR FRAC
	13:36 - 13:58	0.37	COMP	36	E	P		FRAC STG 6) WHP 1373 PSI. BRK DWN PERF 4.9 BPM @ 2741 PSI. ISIP 2461 PSI. FG. 0.72. EST INJ RATE 49.4 BPM @ 4061 PSI. 24/24 PERFS OPEN - 100%. MP 6082 PSI, MR 49.7 BPM, AP 3907 PSI, AR 49.3 BPM. ISIP 2488 PSI, FG. 0.72, NPI 27 PSI. PMP'D 971 BBLS SLK WTR, 18400 LBS 30/50 SND. X-OVER FOR WL.
	14:03 - 15:03	1.00	COMP	37	B	P		PERF STG 7) P/U HALCO 8K CBP & 3 1/8" EXP GNS, 23 GRM, 0.36 HOLE, 120 DEG PHSG. RIH SET CBP @ 8575'. PERF MESA VERDE AS PER PERF DESIGN. POOH & HANG BACK LUB. X-OVER FOR FRAC

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 922-30F1BS BLACK

Spud Date: 1/20/2012

Project: UTAH-UINTAH

Site: NBU 922-30D PAD

Rig Name No: MILES 2/2, MILES 2/2

Event: COMPLETION

Start Date: 5/25/2012

End Date: 6/28/2012

Active Datum: RKB @4,939.00usft (above Mean Sea Level)

UWI: NWNW/O/9/S/22/E/30/O/0/26/PM/N/1249/W/O/654/O/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	15:40 - 16:08	0.47	COMP	36	E	P		FRAC STG 7) WHP 1804 PSI. BRK DWN PERF 4.5 BPM @ 2570 PSI. ISIP 2349 PSI. FG. 0.71. EST INJ RATE 50.6 BPM @ 4244 PSI. 23/24 PERFS OPEN - 96%. MP 4244 PSI, MR 50.6 BPM, AP 4032 PSI, AR 50.5 BPM. ISIP 2649 PSI, FG. 0.75, NPI 300 PSI. PMP'D 1246 BBLS SLK WTR, 19,400 LBS 30/50 SND. X-OVER FOR WL.
	16:13 - 17:13	1.00	COMP	37	B	P		PERF STG 8) P/U HALCO 8K CBP & 3 1/8" EXP GNS, 23 GRM, 0.36 HOLE, 120 DEG PHSG. RIH SET CBP @ 8254'. PERF MESA VERDE AS PER PERF DESIGN. POOH & HANG BACK LUB. X-OVER FOR FRAC
	18:06 - 18:32	0.43	COMP	36	E	P		FRAC STG 8) WHP 1571 PSI. BRK DWN PERF 4.8 BPM @ 2462 PSI. ISIP 2273 PSI. FG. 0.71. EST INJ RATE 48.4 BPM @ 3729 PSI. 24/24 PERFS OPEN - 100%. MP 4178 PSI, MR 51.9 BPM, AP 3871 PSI, AR 50.6 BPM. ISIP 2584 PSI, FG. 0.75, NPI 311 PSI. PMP'D 1069 BBLS SLK WTR, 21,100 LBS 30/50 SND. X-OVER FOR WL. SWI - SDFN.
6/6/2012	6:00 - 6:15	0.25	COMP	48		P		HSM & JSA W/HALLIBURTON & CASED HOLE SOLUTIONS.
	6:30 - 7:35	1.08	COMP	37	B	P		PERF STG 9) P/U HALCO 8K CBP & 3 1/8" EXP GNS, 23 GRM, 0.36 HOLE, 120 DEG PHSG. RIH SET CBP @ 7962'. PERF MESA VERDE AS PER PERF DESIGN. POOH & HANG BACK LUB. X-OVER FOR FRAC
	8:36 - 8:53	0.28	COMP	36	E	P		FRAC STG 9) WHP 1628 PSI. BRK DWN PERF 5 BPM @ 2534 PSI. ISIP 1848 PSI. FG. 0.67. EST INJ RATE 49.7 BPM @ 3856 PSI. 24/24 PERFS OPEN - 100%. MP 3945 PSI, MR 50 BPM, AP 3834 PSI, AR 49.9 BPM. ISIP 2296 PSI, FG. 0.72, NPI 448 PSI. PMP'D 651 BBLS SLK WTR, 11,800 LBS 30/50 SND. X-OVER FOR WL.
	8:58 - 9:58	1.00	COMP	37	B	P		PERF STG 10) P/U HALCO 8K CBP & 3 1/8" EXP GNS, 23 GRM, 0.36 HOLE, 120 DEG PHSG. RIH SET CBP @ 7738'. PERF MESA VERDE AS PER PERF DESIGN. POOH & HANG BACK LUB. X-OVER FOR FRAC
	10:32 - 10:58	0.43	COMP	36	E	P		FRAC STG 10) WHP 280 PSI. BRK DWN PERF 5 BPM @ 2516 PSI. ISIP 1362 PSI. FG. 0.61. EST INJ RATE 49.9 BPM @ 3360 PSI. 24/24 PERFS OPEN - 100%. MP 3395 PSI, MR 49.9 BPM, AP 3277 PSI, AR 49.8 BPM. ISIP 2031 PSI, FG. 0.70, NPI 669 PSI. PMP'D 1152 BBLS SLK WTR, 23,300 LBS 30/50 SND. X-OVER FOR WL.
	11:03 - 12:03	1.00	COMP	37	B	P		PERF STG 11) P/U HALCO 8K CBP & 3 1/8" EXP GNS, 23 GRM, 0.36 HOLE, 120 DEG PHSG. RIH SET CBP @ 7533'. PERF WASATCH & MESA VERDE AS PER PERF DESIGN. POOH & HANG BACK LUB. X-OVER FOR FRAC

US ROCKIES REGION
Operation Summary Report

Well: NBU 922-30F1BS BLACK

Spud Date: 1/20/2012

Project: UTAH-UINTAH

Site: NBU 922-30D PAD

Rig Name No: MILES 2/2, MILES 2/2

Event: COMPLETION

Start Date: 5/25/2012

End Date: 6/28/2012

Active Datum: RKB @4,939.00usft (above Mean Sea Level)

UWI: NW/NW/0/9/S/22/E/30/0/0/26/PM/N/1249/W/0/654/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	13:30 - 14:03	0.55	COMP	36	E	P		FRAC STG 11) WHP 1225 PSI. BRK DWN PERF 4.9 BPM @ 1876 PSI. ISIP 1197 PSI. FG. 0.59. EST INJ RATE 50.3 BPM @ 3252 PSI. 24/24 PERFS OPEN - 100%. MP 3512 PSI, MR 50.3 BPM, AP 3246 PSI, AR 50.1 BPM. ISIP 1863 PSI, FG. 0.68, NPI 666 PSI. PMP'D 1,499 BBLS SLK WTR, 47,100 LBS 30/50 SND. X-OVER FOR WL.
	14:30 - 15:15	0.75	COMP	34	I	P		KILL PLUG) RIH W/HALCO 8K CBP & SET @ 7300'. POOH & L/D TOOLS. R/D WIRELINE & FRAC CREW. SWI - SDFN.
								TOTAL WTR USED 15,347 BBLS TOTAL 30/50 SAND 361,800 LBS TOTAL SI 0,000 GAL TOTAL BIO 0,000 GAL
6/27/2012	7:00 - 7:15	0.25	COMP	48		P		JSA-SAFETY MEETING
	7:15 - 9:45	2.50	COMP	30	A	P		MIRU UNIT, N/D WH, N/U BOPS AND TBG EQUIP,
	9:45 - 15:00	5.25	COMP	31	I	P		P/U 3 7/8" BIT AND POBS, RIH W/ 2 3/8" P-110 TBG, TAG @ 7289', PREPARE TO DRILL OUT IN AM, SDFN,
6/28/2012	7:00 - 7:15	0.25	COMP	48		P		JSA-SAFETY MEETING

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 922-30F1BS BLACK

Spud Date: 1/20/2012

Project: UTAH-UINTAH

Site: NBU 922-30D PAD

Rig Name No: MILES 2/2, MILES 2/2

Event: COMPLETION

Start Date: 5/25/2012

End Date: 6/28/2012

Active Datum: RKB @4,939.00usft (above Mean Sea Level)

UWI: NWNW/0/9/S/22/E/30/0/0/26/PM/N/1249/W/0/654/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	7:15 - 15:00	7.75	COMP	44	C	P		<p>NO PRESSURE ON WELL, PRESSURE TEST HAL 9000 TO 2500#, OK, PRESSURE TEST CSG AND BOP TO 2500# OK, ESTB CIRC DN TBG OUT CSG, DRLG CBP #1) 7300', DRILL OUR HALLIBURTON CBP IN 5 MIN, 300# DIFF, RIH TAG @ 7503 ', C/O 30 ' SAND, FCP = 50 #,</p> <p>DRLG CBP #2) 7533', DRILL OUR HALLIBURTON CBP IN 6 MIN, 200# DIFF, RIH TAG @ 7708 ', C/O 30 ' SAND, FCP = 100 #,</p> <p>DRLG CBP #3) 7738', DRILL OUR HALLIBURTON CBP IN 8 MIN, 300 # DIFF, RIH TAG @ 7932 ', C/O 30 ' SAND, FCP = 100 #,</p> <p>DRLG CBP #4) 7962', DRILL OUR HALLIBURTON CBP IN 7 MIN, 400# DIFF, RIH TAG @ 8234 ', C/O 30 ' SAND, FCP = 300 #,</p> <p>DRLG CBP #5) 8254', DRILL OUR HALLIBURTON CBP IN 7 MIN, 500# DIFF, RIH TAG @ 8545 ', C/O 30 ' SAND, FCP = 300 #,</p> <p>DRLG CBP #6) 8575', DRILL OUR HALLIBURTON CBP IN 7 MIN, 500# DIFF, RIH TAG @ 8722 ', C/O 30 ' SAND, FCP = 400 #,</p> <p>DRLG CBP #7) 8752', DRILL OUR HALLIBURTON CBP IN 6 MIN, 300# DIFF, RIH TAG @ 8819 ', C/O 30 ' SAND, FCP = 400 #,</p> <p>DRLG CBP #8) 8849', DRILL OUR HALLIBURTON CBP IN 7 MIN, 200# DIFF, RIH TAG @ 8993 ', C/O 30 ' SAND, FCP = 500 #,</p> <p>DRLG CBP #9) 9023', DRILL OUR HALLIBURTON CBP IN 8 MIN, 600# DIFF, RIH TAG @ 9321 ', C/O 80 ' SAND, FCP = 500 #,</p> <p>DRLG CBP #10) 9401', DRILL OUR HALLIBURTON CBP IN 7 MIN, 500# DIFF, RIH TAG @ 10254 ', C/O 30 ' SAND, FCP = 500 #</p> <p>DRLG CBP #11) 10284', DRILL OUR HALLIBURTON CBP IN 11 MIN, 0 # DIFF, RIH TAG @ 10411 ', C/O 172 ' SAND TO PBTD @ 10583 ', FCP = 450 #,</p> <p>CIRC WELL CLEAN, R/D POWER SWIVEL, POOH LAY DN 13 JTS ON TRAILER, LAND TBG W/ HANGER W/ 320 JTS 2 3/8" P-110 TBG, EOT @ 10164.74', N/D BOPS, DROP BALL DN TBG, N/U WH, PUMP BIT OFF @ 1400 #., WAIT 30 MIN FOR BIT TO FALL, TURN WELL OVER TO FLOWBACK CREW W/ 2350 # ON CSG AND 850 # ON TBG, HAVE 13,597 BBLs WATER LEFT TO RECOVER,</p>

US ROCKIES REGION
Operation Summary Report

Well: NBU 922-30F1BS BLACK

Spud Date: 1/20/2012

Project: UTAH-UINTAH

Site: NBU 922-30D PAD

Rig Name No: MILES 2/2, MILES 2/2

Event: COMPLETION

Start Date: 5/25/2012

End Date: 6/28/2012

Active Datum: RKB @4,939.00usft (above Mean Sea Level)

UWI: NWNW/0/9/S/22/E/30/0/0/26/PM/N/1249/W/0/654/0/0

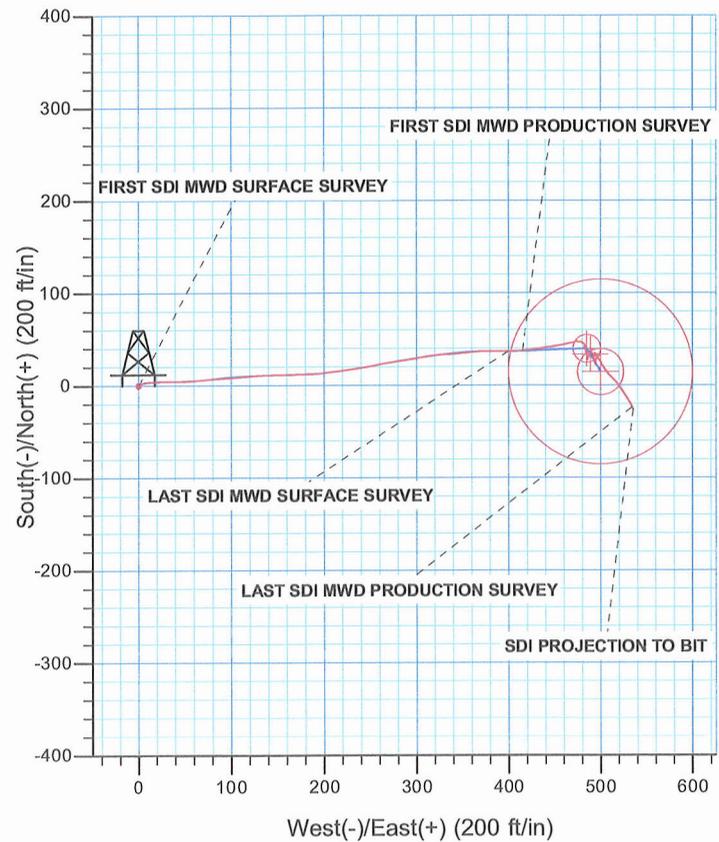
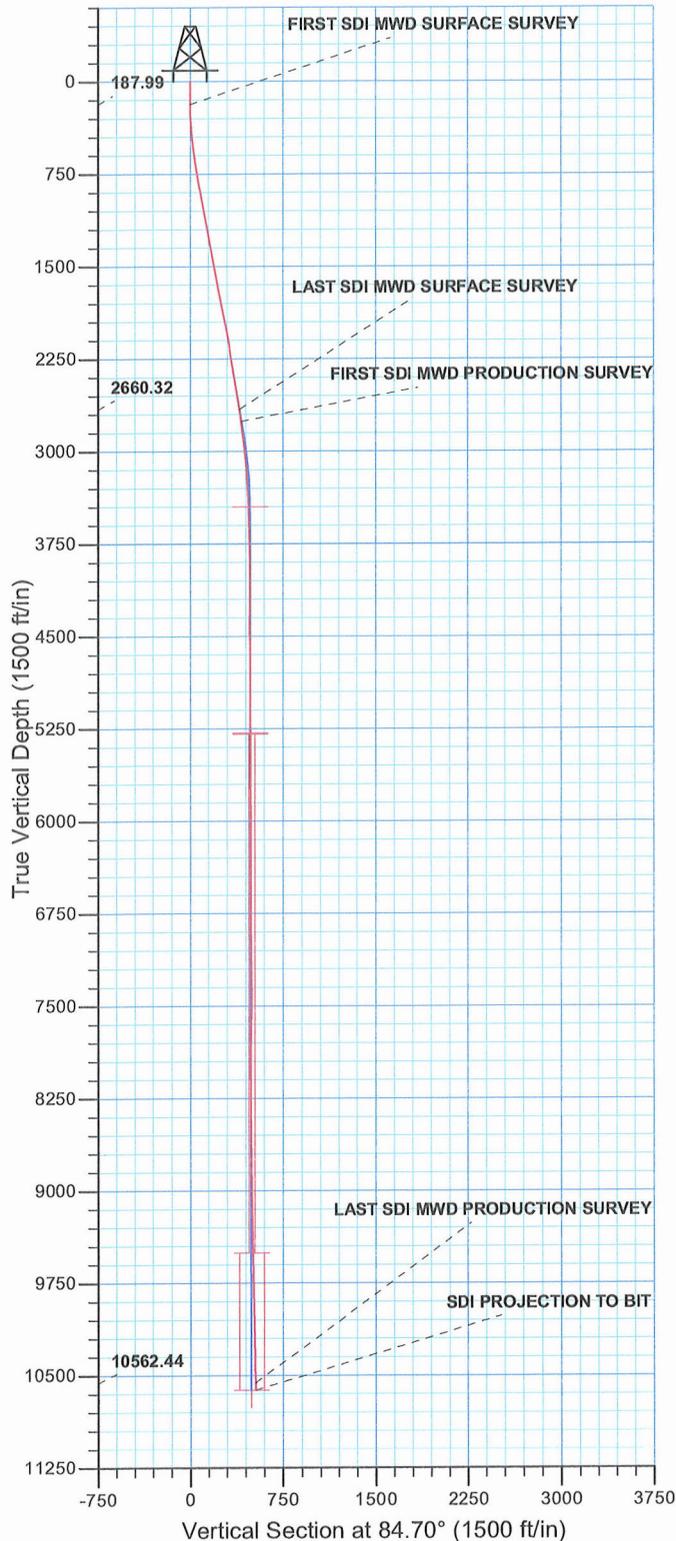
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
								KB = 14.00'
								HANGER 10K = .83'
								320 JTS 2 3/8" P-110 TBG = 10147.71'
								POBS XN-NIPPLE 1.875" = 2.20'
								EOT = 10164.74'
	15:00 - 15:00	0.00	COMP	50				340 JTS 2 3/8" P-110 TBG DELV. 320JTS 2 3/8" P-110 TBG LANDED 20 JTS 2 3/8" P-110 TBG RETURNED WELL TURNED TO SALES @ 1500 HRS ON 6/28/2012 - 2500 MCFD, 1920 BWPD, FCP 2550#, FTP 2500#, 16/64 CK
6/29/2012	-							
6/30/2012	-							

WELL DETAILS: NBU 922-30F1BS					
GL 4925' & KB 14' @ 4939.00ft (ENSIGN 139)					
+N/-S 0.00	+E/-W 0.00	Northing 14533589.83	Easting 2063904.98	Latitude 40.010852	Longitude -109.487648



T Azimuths to True North
M Magnetic North: 11.08°

Magnetic Field
Strength: 52340.5snT
Dip Angle: 65.88°
Date: 06/02/2011
Model: IGRF2010



PROJECT DETAILS: Uintah County, UT UTM12
Geodetic System: Universal Transverse Mercator (US Survey Feet)
Datum: NAD 1927 - Western US
Ellipsoid: Clarke 1866
Zone: Zone 12N (114 W to 108 W)
Location: SECTION 30 T9S R22E
System Datum: Mean Sea Level

Design: OH (NBU 922-30F1BS/OH)
Created By: Gabe Kendall Date: 15:52, March 27 2012



Scientific Drilling
Rocky Mountain Operations

Kerr McGee Oil and Gas Onshore LP

**Uintah County, UT UTM12
NBU 922-30D PAD
NBU 922-30F1BS**

OH

Design: OH

Standard Survey Report

27 March, 2012

Anadarko 
Petroleum Corporation

Company: Kerr McGee Oil and Gas Onshore LP
Project: Uintah County, UT UTM12
Site: NBU 922-30D PAD
Well: NBU 922-30F1BS
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well NBU 922-30F1BS
TVD Reference: GL 4925' & KB 14' @ 4939.00ft (ENSIGN 139)
MD Reference: GL 4925' & KB 14' @ 4939.00ft (ENSIGN 139)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

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

Site	NBU 922-30D PAD, SECTION 30 T9S R22E				
Site Position:		Northing:	14,533,586.35 usft	Latitude:	40.010842
From:	Lat/Long	Easting:	2,063,914.56 usft	Longitude:	-109.487614
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence:	0.97 °

Well	NBU 922-30F1BS, 1249 FNL 654 FWL					
Well Position	+N/-S	0.00 ft	Northing:	14,533,589.83 usft	Latitude:	40.010852
	+E/-W	0.00 ft	Easting:	2,063,904.98 usft	Longitude:	-109.487648
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	4,925.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	06/02/11	11.08	65.88	52,341

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	84.70	

Survey Program	Date	03/27/12			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
10.00	2,695.00	Survey #1 SDI MWD SURFACE (OH)	MWD SDI	MWD - Standard ver 1.0.1	
2,792.00	10,660.00	Survey #2 SDI MWD PRODUCTION (OH)	MWD SDI	MWD - Standard ver 1.0.1	

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10.00	0.00	0.00	10.00	0.00	0.00	0.00	0.00	0.00	0.00	
188.00	0.88	39.39	187.99	1.06	0.87	0.96	0.49	0.49	0.00	
FIRST SDI MWD SURFACE SURVEY										
274.00	2.11	67.25	273.96	2.18	2.75	2.94	1.62	1.43	32.40	
355.00	3.78	83.51	354.85	3.06	6.77	7.03	2.29	2.06	20.07	
445.00	5.80	85.09	444.54	3.78	14.25	14.54	2.25	2.24	1.76	
535.00	7.39	89.93	533.94	4.18	24.57	24.85	1.87	1.77	5.38	
625.00	7.96	88.74	623.13	4.32	36.59	36.83	0.66	0.63	-1.32	
715.00	9.15	88.17	712.13	4.69	49.98	50.19	1.33	1.32	-0.63	

Company: Kerr McGee Oil and Gas Onshore LP
 Project: Uintah County, UT UTM12
 Site: NBU 922-30D PAD
 Well: NBU 922-30F1BS
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well NBU 922-30F1BS
 TVD Reference: GL 4925' & KB 14' @ 4939.00ft (ENSIGN 139)
 MD Reference: GL 4925' & KB 14' @ 4939.00ft (ENSIGN 139)
 North Reference: True
 Survey Calculation Method: Minimum Curvature
 Database: EDM 5000.1 Single User Db

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
805.00	9.23	85.36	800.97	5.50	64.32	64.55	0.51	0.09	-3.12	
895.00	10.38	84.83	889.66	6.82	79.59	79.88	1.28	1.28	-0.59	
985.00	11.08	84.30	978.08	8.40	96.27	96.64	0.79	0.78	-0.59	
1,075.00	11.17	85.62	1,066.39	9.93	113.57	114.00	0.30	0.10	1.47	
1,165.00	10.64	88.79	1,154.77	10.77	130.57	131.00	0.89	-0.59	3.52	
1,255.00	10.73	88.26	1,243.21	11.20	147.25	147.65	0.15	0.10	-0.59	
1,345.00	10.55	86.68	1,331.66	11.93	163.85	164.25	0.38	-0.20	-1.76	
1,435.00	9.50	90.28	1,420.29	12.37	179.50	179.88	1.36	-1.17	4.00	
1,525.00	10.20	84.30	1,508.96	13.13	194.86	195.24	1.38	0.78	-6.64	
1,615.00	10.99	83.07	1,597.43	14.95	211.30	211.78	0.91	0.88	-1.37	
1,705.00	12.13	81.58	1,685.60	17.37	229.18	229.80	1.31	1.27	-1.66	
1,795.00	11.26	79.73	1,773.73	20.33	247.18	248.00	1.05	-0.97	-2.06	
1,885.00	10.38	80.09	1,862.13	23.29	263.81	264.83	0.98	-0.98	0.40	
1,975.00	11.34	78.85	1,950.52	26.39	280.48	281.72	1.10	1.07	-1.38	
2,065.00	10.29	83.07	2,038.92	29.08	297.14	298.55	1.46	-1.17	4.69	
2,155.00	9.41	80.79	2,127.59	31.22	312.38	313.93	1.07	-0.98	-2.53	
2,245.00	9.15	83.42	2,216.41	33.22	326.75	328.43	0.55	-0.29	2.92	
2,335.00	9.32	85.71	2,305.25	34.59	341.13	342.87	0.45	0.19	2.54	
2,425.00	10.02	85.62	2,393.97	35.73	356.20	357.98	0.78	0.78	-0.10	
2,515.00	9.41	87.12	2,482.68	36.70	371.36	373.16	0.73	-0.68	1.67	
2,605.00	9.32	90.10	2,571.48	37.05	385.99	387.77	0.55	-0.10	3.31	
2,695.00	9.06	89.14	2,660.32	37.15	400.37	402.09	0.34	-0.29	-1.07	
LAST SDI MWD SURFACE SURVEY										
2,792.00	8.49	85.74	2,756.19	37.79	415.14	416.86	0.79	-0.59	-3.51	
FIRST SDI MWD PRODUCTION SURVEY										
2,882.00	6.16	82.69	2,845.45	38.90	426.56	428.33	2.62	-2.59	-3.39	
2,973.00	5.85	80.81	2,935.95	40.26	435.98	437.84	0.40	-0.34	-2.07	
3,063.00	5.27	78.78	3,025.52	41.80	444.56	446.52	0.68	-0.64	-2.26	
3,154.00	4.66	82.14	3,116.18	43.12	452.33	454.37	0.74	-0.67	3.69	
3,244.00	4.14	79.70	3,205.92	44.20	459.14	461.26	0.61	-0.58	-2.71	
3,334.00	3.71	79.02	3,295.71	45.34	465.20	467.40	0.48	-0.48	-0.76	
3,425.00	2.83	75.61	3,386.56	46.45	470.26	472.54	0.99	-0.97	-3.75	
3,515.00	1.99	82.13	3,476.48	47.22	473.96	476.30	0.98	-0.93	7.24	
3,606.00	1.66	100.94	3,567.43	47.19	476.82	479.14	0.75	-0.36	20.67	
3,696.00	1.32	103.62	3,657.40	46.70	479.11	481.38	0.39	-0.38	2.98	
3,787.00	1.11	122.24	3,748.38	45.98	480.88	483.07	0.49	-0.23	20.46	
3,877.00	0.73	142.05	3,838.37	45.06	481.97	484.07	0.54	-0.42	22.01	
3,967.00	1.00	153.32	3,928.36	43.91	482.67	484.66	0.35	0.30	12.52	
4,058.00	2.02	171.58	4,019.33	41.61	483.26	485.04	1.23	1.12	20.07	
4,149.00	1.07	352.97	4,110.31	40.87	483.39	485.10	3.40	-1.04	-196.27	
4,239.00	0.27	318.17	4,200.30	41.86	483.15	484.95	0.96	-0.89	-38.67	
4,330.00	0.42	252.74	4,291.30	41.92	482.69	484.50	0.43	0.16	-71.90	
4,420.00	0.77	181.81	4,381.30	41.22	482.35	484.10	0.83	0.39	-78.81	

Company: Kerr McGee Oil and Gas Onshore LP
Project: Uintah County, UT UTM12
Site: NBU 922-30D PAD
Well: NBU 922-30F1BS
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well NBU 922-30F1BS
TVD Reference: GL 4925' & KB 14' @ 4939.00ft (ENSIGN 139)
MD Reference: GL 4925' & KB 14' @ 4939.00ft (ENSIGN 139)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,510.00	1.14	166.05	4,471.29	39.74	482.55	484.16	0.50	0.41	-17.51
4,601.00	1.11	151.76	4,562.27	38.09	483.18	484.64	0.31	-0.03	-15.70
4,691.00	1.26	171.71	4,652.25	36.34	483.74	485.03	0.48	0.17	22.17
4,782.00	1.60	159.55	4,743.22	34.16	484.33	485.41	0.50	0.37	-13.36
4,872.00	1.75	165.26	4,833.18	31.66	485.12	485.97	0.25	0.17	6.34
4,963.00	1.56	172.94	4,924.15	29.08	485.62	486.23	0.32	-0.21	8.44
5,053.00	0.56	191.13	5,014.13	27.44	485.69	486.15	1.16	-1.11	20.21
5,144.00	0.45	17.20	5,105.13	27.34	485.71	486.16	1.11	-0.12	-191.13
5,234.00	1.91	21.47	5,195.11	29.07	486.36	486.97	1.62	1.62	4.74
5,325.00	1.60	19.97	5,286.06	31.68	487.35	488.19	0.34	-0.34	-1.65
5,416.00	1.23	22.57	5,377.04	33.78	488.16	489.19	0.41	-0.41	2.86
5,506.00	1.03	25.41	5,467.02	35.40	488.88	490.06	0.23	-0.22	3.16
5,596.00	0.31	134.15	5,557.01	35.96	489.40	490.63	1.30	-0.80	120.82
5,687.00	0.51	111.52	5,648.01	35.64	489.95	491.15	0.28	0.22	-24.87
5,778.00	0.21	209.60	5,739.01	35.35	490.25	491.42	0.64	-0.33	107.78
5,868.00	0.69	149.17	5,829.01	34.74	490.44	491.55	0.68	0.53	-67.14
5,959.00	0.62	142.40	5,920.00	33.88	491.02	492.05	0.11	-0.08	-7.44
6,049.00	0.69	155.38	6,010.00	33.00	491.55	492.49	0.18	0.08	14.42
6,139.00	0.88	157.43	6,099.99	31.87	492.04	492.88	0.21	0.21	2.28
6,230.00	1.15	176.18	6,190.97	30.31	492.37	493.06	0.47	0.30	20.60
6,320.00	1.47	166.42	6,280.95	28.29	492.70	493.20	0.43	0.36	-10.84
6,411.00	1.66	162.73	6,371.92	25.89	493.36	493.65	0.24	0.21	-4.05
6,502.00	1.35	162.32	6,462.88	23.61	494.08	494.15	0.34	-0.34	-0.45
6,592.00	0.41	151.36	6,552.87	22.32	494.56	494.50	1.06	-1.04	-12.18
6,682.00	0.45	348.67	6,642.87	22.38	494.64	494.59	0.94	0.04	-180.77
6,773.00	1.00	0.10	6,733.86	23.53	494.57	494.63	0.62	0.60	12.56
6,863.00	0.95	344.97	6,823.85	25.04	494.38	494.58	0.29	-0.06	-16.81
6,954.00	1.54	16.33	6,914.83	26.94	494.53	494.90	0.97	0.65	34.46
7,045.00	0.99	26.40	7,005.81	28.81	495.22	495.77	0.65	-0.60	11.07
7,135.00	0.82	46.23	7,095.80	29.96	496.03	496.68	0.39	-0.19	22.03
7,226.00	0.39	44.30	7,186.79	30.63	496.72	497.43	0.47	-0.47	-2.12
7,316.00	0.71	54.10	7,276.79	31.18	497.39	498.14	0.37	0.36	10.89
7,407.00	0.64	43.90	7,367.78	31.87	498.19	499.01	0.15	-0.08	-11.21
7,498.00	0.95	65.00	7,458.77	32.56	499.23	500.10	0.46	0.34	23.19
7,588.00	0.57	275.24	7,548.77	32.91	499.46	500.37	1.63	-0.42	-166.40
7,678.00	0.75	290.13	7,638.76	33.16	498.46	499.39	0.27	0.20	16.54
7,769.00	0.20	338.62	7,729.76	33.51	497.85	498.81	0.70	-0.60	53.29
7,859.00	0.81	277.00	7,819.76	33.73	497.16	498.15	0.82	0.68	-68.47
7,950.00	0.74	285.57	7,910.75	33.97	495.95	496.97	0.15	-0.08	9.42
8,040.00	0.61	259.40	8,000.74	34.04	494.92	495.95	0.37	-0.14	-29.08
8,131.00	0.52	313.60	8,091.74	34.23	494.15	495.20	0.57	-0.10	59.56
8,221.00	0.15	304.18	8,181.74	34.58	493.75	494.84	0.41	-0.41	-10.47
8,312.00	0.25	260.76	8,272.74	34.62	493.46	494.55	0.19	0.11	-47.71
8,403.00	0.24	203.46	8,363.74	34.41	493.19	494.26	0.26	-0.01	-62.97

Company: Kerr McGee Oil and Gas Onshore LP
Project: Uintah County, UT UTM12
Site: NBU 922-30D PAD
Well: NBU 922-30F1BS
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well NBU 922-30F1BS
TVD Reference: GL 4925' & KB 14' @ 4939.00ft (ENSIGN 139)
MD Reference: GL 4925' & KB 14' @ 4939.00ft (ENSIGN 139)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
8,493.00	0.37	161.78	8,453.73	33.96	493.20	494.23	0.28	0.14	-46.31
8,584.00	0.71	149.17	8,544.73	33.20	493.58	494.54	0.39	0.37	-13.86
8,674.00	1.05	146.91	8,634.72	32.03	494.32	495.16	0.38	0.38	-2.51
8,765.00	1.56	126.45	8,725.70	30.59	495.77	496.48	0.75	0.56	-22.48
8,855.00	1.45	136.58	8,815.66	29.04	497.54	498.09	0.32	-0.12	11.26
8,946.00	1.28	146.43	8,906.64	27.35	498.89	499.29	0.32	-0.19	10.82
9,036.00	1.58	163.39	8,996.61	25.33	499.80	500.01	0.57	0.33	18.84
9,127.00	1.72	145.82	9,087.57	23.00	500.93	500.91	0.57	0.15	-19.31
9,217.00	2.05	141.74	9,177.53	20.61	502.68	502.44	0.40	0.37	-4.53
9,308.00	2.19	151.63	9,268.46	17.81	504.52	504.01	0.43	0.15	10.87
9,398.00	2.32	140.61	9,358.39	14.89	506.49	505.70	0.50	0.14	-12.24
9,489.00	2.25	145.87	9,449.32	11.98	508.66	507.59	0.24	-0.08	5.78
9,579.00	2.48	129.75	9,539.25	9.28	511.15	509.82	0.78	0.26	-17.91
9,670.00	2.10	140.96	9,630.17	6.72	513.71	512.14	0.64	-0.42	12.32
9,760.00	1.74	134.68	9,720.12	4.48	515.72	513.93	0.46	-0.40	-6.98
9,851.00	2.18	141.72	9,811.07	2.15	517.78	515.76	0.55	0.48	7.74
9,941.00	2.00	142.11	9,901.01	-0.43	519.80	517.54	0.20	-0.20	0.43
10,032.00	2.18	144.14	9,991.95	-3.09	521.79	519.28	0.21	0.20	2.23
10,122.00	2.22	147.62	10,081.88	-5.95	523.73	520.94	0.15	0.04	3.87
10,213.00	2.43	148.38	10,172.81	-9.08	525.69	522.60	0.23	0.23	0.84
10,303.00	2.49	148.46	10,262.73	-12.37	527.71	524.31	0.07	0.07	0.09
10,394.00	2.34	148.90	10,353.64	-15.65	529.70	525.99	0.17	-0.16	0.48
10,484.00	2.59	151.74	10,443.56	-19.01	531.61	527.58	0.31	0.28	3.16
10,603.00	2.59	151.07	10,562.44	-23.73	534.19	529.71	0.03	0.00	-0.56
LAST SDI MWD PRODUCTION SURVEY									
10,660.00	2.59	151.07	10,619.38	-25.99	535.43	530.74	0.00	0.00	0.00
SDI PROJECTION TO BIT									

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
188.00	187.99	1.06	0.87	FIRST SDI MWD SURFACE SURVEY
2,695.00	2,660.32	37.15	400.37	LAST SDI MWD SURFACE SURVEY
2,792.00	2,756.19	37.79	415.14	FIRST SDI MWD PRODUCTION SURVEY
10,603.00	10,562.44	-23.73	534.19	LAST SDI MWD PRODUCTION SURVEY
10,660.00	10,619.38	-25.99	535.43	SDI PROJECTION TO BIT

Checked By: _____ Approved By: _____ Date: _____



Scientific Drilling
Rocky Mountain Operations

Kerr McGee Oil and Gas Onshore LP

**Uintah County, UT UTM12
NBU 922-30D PAD
NBU 922-30F1BS**

OH

Design: OH

Survey Report - Geographic

27 March, 2012

Anadarko 
Petroleum Corporation

Company: Kerr McGee Oil and Gas Onshore LP
Project: Uintah County, UT UTM12
Site: NBU 922-30D PAD
Well: NBU 922-30F1BS
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well NBU 922-30F1BS
TVD Reference: GL 4925' & KB 14' @ 4939.00ft (ENSIGN 139)
MD Reference: GL 4925' & KB 14' @ 4939.00ft (ENSIGN 139)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

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

Site	NBU 922-30D PAD, SECTION 30 T9S R22E				
Site Position:		Northing:	14,533,586.35 usft	Latitude:	40.010842
From:	Lat/Long	Easting:	2,063,914.56 usft	Longitude:	-109.487614
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence:	0.97 °

Well	NBU 922-30F1BS, 1249 FNL 654 FWL				
Well Position	+N/-S	0.00 ft	Northing:	14,533,589.83 usft	Latitude: 40.010852
	+E/-W	0.00 ft	Easting:	2,063,904.98 usft	Longitude: -109.487648
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level: 4,925.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	06/02/11	11.08	65.88	52,341

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	84.70	

Survey Program	Date	03/27/12			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
10.00	2,695.00	Survey #1 SDI MWD SURFACE (OH)	MWD SDI	MWD - Standard ver 1.0.1	
2,792.00	10,660.00	Survey #2 SDI MWD PRODUCTION (OH)	MWD SDI	MWD - Standard ver 1.0.1	

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.00	0.00	0.00	0.00	0.00	0.00	14,533,589.83	2,063,904.98	40.010852	-109.487648
10.00	0.00	0.00	10.00	0.00	0.00	14,533,589.83	2,063,904.98	40.010852	-109.487648
188.00	0.88	39.39	187.99	1.06	0.87	14,533,590.91	2,063,905.83	40.010855	-109.487645
FIRST SDI MWD SURFACE SURVEY									
274.00	2.11	67.25	273.96	2.18	2.75	14,533,592.06	2,063,907.69	40.010858	-109.487638
355.00	3.78	83.51	354.85	3.06	6.77	14,533,593.01	2,063,911.70	40.010860	-109.487624
445.00	5.80	85.09	444.54	3.78	14.25	14,533,593.86	2,063,919.17	40.010862	-109.487597
535.00	7.39	89.93	533.94	4.18	24.57	14,533,594.43	2,063,929.48	40.010864	-109.487561
625.00	7.96	88.74	623.13	4.32	36.59	14,533,594.78	2,063,941.49	40.010864	-109.487518
715.00	9.15	88.17	712.13	4.69	49.98	14,533,595.37	2,063,954.87	40.010865	-109.487470
805.00	9.23	85.36	800.97	5.50	64.32	14,533,596.43	2,063,969.20	40.010867	-109.487419

Company: Kerr McGee Oil and Gas Onshore LP
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North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
895.00	10.38	84.83	889.66	6.82	79.59	14,533,598.00	2,063,984.44	40.010871	-109.487364
985.00	11.08	84.30	978.08	8.40	96.27	14,533,599.87	2,064,001.09	40.010875	-109.487305
1,075.00	11.17	85.62	1,066.39	9.93	113.57	14,533,601.69	2,064,018.36	40.010879	-109.487243
1,165.00	10.64	88.79	1,154.77	10.77	130.57	14,533,602.82	2,064,035.34	40.010882	-109.487182
1,255.00	10.73	88.26	1,243.21	11.20	147.25	14,533,603.53	2,064,052.02	40.010883	-109.487123
1,345.00	10.55	86.68	1,331.66	11.93	163.85	14,533,604.55	2,064,068.60	40.010885	-109.487063
1,435.00	9.50	90.28	1,420.29	12.37	179.50	14,533,605.25	2,064,084.24	40.010886	-109.487007
1,525.00	10.20	84.30	1,508.96	13.13	194.86	14,533,606.27	2,064,099.59	40.010888	-109.486953
1,615.00	10.99	83.07	1,597.43	14.95	211.30	14,533,608.37	2,064,116.00	40.010893	-109.486894
1,705.00	12.13	81.58	1,685.60	17.37	229.18	14,533,611.10	2,064,133.82	40.010900	-109.486830
1,795.00	11.26	79.73	1,773.73	20.33	247.18	14,533,614.35	2,064,151.77	40.010908	-109.486766
1,885.00	10.38	80.09	1,862.13	23.29	263.81	14,533,617.60	2,064,168.35	40.010916	-109.486706
1,975.00	11.34	78.85	1,950.52	26.39	280.48	14,533,620.99	2,064,184.97	40.010925	-109.486647
2,065.00	10.29	83.07	2,038.92	29.08	297.14	14,533,623.95	2,064,201.58	40.010932	-109.486587
2,155.00	9.41	80.79	2,127.59	31.22	312.38	14,533,626.36	2,064,216.78	40.010938	-109.486533
2,245.00	9.15	83.42	2,216.41	33.22	326.75	14,533,628.60	2,064,231.12	40.010943	-109.486482
2,335.00	9.32	85.71	2,305.25	34.59	341.13	14,533,630.21	2,064,245.47	40.010947	-109.486430
2,425.00	10.02	85.62	2,393.97	35.73	356.20	14,533,631.60	2,064,260.52	40.010950	-109.486376
2,515.00	9.41	87.12	2,482.68	36.70	371.36	14,533,632.83	2,064,275.66	40.010953	-109.486322
2,605.00	9.32	90.10	2,571.48	37.05	385.99	14,533,633.43	2,064,290.29	40.010954	-109.486270
2,695.00	9.06	89.14	2,660.32	37.15	400.37	14,533,633.77	2,064,304.66	40.010954	-109.486219
LAST SDI MWD SURFACE SURVEY									
2,792.00	8.49	85.74	2,756.19	37.79	415.14	14,533,634.67	2,064,319.42	40.010956	-109.486166
FIRST SDI MWD PRODUCTION SURVEY									
2,882.00	6.16	82.69	2,845.45	38.90	426.56	14,533,635.97	2,064,330.82	40.010959	-109.486125
2,973.00	5.85	80.81	2,935.95	40.26	435.98	14,533,637.49	2,064,340.21	40.010963	-109.486092
3,063.00	5.27	78.78	3,025.52	41.80	444.56	14,533,639.17	2,064,348.77	40.010967	-109.486061
3,154.00	4.66	82.14	3,116.18	43.12	452.33	14,533,640.62	2,064,356.50	40.010970	-109.486033
3,244.00	4.14	79.70	3,205.92	44.20	459.14	14,533,641.82	2,064,363.30	40.010973	-109.486009
3,334.00	3.71	79.02	3,295.71	45.34	465.20	14,533,643.06	2,064,369.34	40.010977	-109.485987
3,425.00	2.83	75.61	3,386.56	46.45	470.26	14,533,644.26	2,064,374.38	40.010980	-109.485969
3,515.00	1.99	82.13	3,476.48	47.22	473.96	14,533,645.09	2,064,378.07	40.010982	-109.485956
3,606.00	1.66	100.94	3,567.43	47.19	476.82	14,533,645.11	2,064,380.93	40.010982	-109.485946
3,696.00	1.32	103.62	3,657.40	46.70	479.11	14,533,644.66	2,064,383.23	40.010980	-109.485938
3,787.00	1.11	122.24	3,748.38	45.98	480.88	14,533,643.97	2,064,385.00	40.010978	-109.485931
3,877.00	0.73	142.05	3,838.37	45.06	481.97	14,533,643.07	2,064,386.11	40.010976	-109.485927
3,967.00	1.00	153.32	3,928.36	43.91	482.67	14,533,641.93	2,064,386.83	40.010973	-109.485925
4,058.00	2.02	171.58	4,019.33	41.61	483.26	14,533,639.64	2,064,387.46	40.010966	-109.485923
4,149.00	1.07	352.97	4,110.31	40.87	483.39	14,533,638.90	2,064,387.61	40.010964	-109.485922
4,239.00	0.27	318.17	4,200.30	41.86	483.15	14,533,639.89	2,064,387.34	40.010967	-109.485923
4,330.00	0.42	252.74	4,291.30	41.92	482.69	14,533,639.94	2,064,386.88	40.010967	-109.485925
4,420.00	0.77	181.81	4,381.30	41.22	482.35	14,533,639.23	2,064,386.56	40.010965	-109.485926
4,510.00	1.14	166.05	4,471.29	39.74	482.55	14,533,637.76	2,064,386.78	40.010961	-109.485925
4,601.00	1.11	151.76	4,562.27	38.09	483.18	14,533,636.12	2,064,387.45	40.010957	-109.485923
4,691.00	1.26	171.71	4,652.25	36.34	483.74	14,533,634.38	2,064,388.03	40.010952	-109.485921
4,782.00	1.60	159.55	4,743.22	34.16	484.33	14,533,632.21	2,064,388.65	40.010946	-109.485919
4,872.00	1.75	165.26	4,833.18	31.66	485.12	14,533,629.72	2,064,389.49	40.010939	-109.485916
4,963.00	1.56	172.94	4,924.15	29.08	485.62	14,533,627.16	2,064,390.04	40.010932	-109.485914
5,053.00	0.56	191.13	5,014.13	27.44	485.69	14,533,625.51	2,064,390.13	40.010927	-109.485914
5,144.00	0.45	17.20	5,105.13	27.34	485.71	14,533,625.42	2,064,390.15	40.010927	-109.485914
5,234.00	1.91	21.47	5,195.11	29.07	486.36	14,533,627.16	2,064,390.77	40.010932	-109.485912
5,325.00	1.60	19.97	5,286.06	31.68	487.35	14,533,629.78	2,064,391.72	40.010939	-109.485908
5,416.00	1.23	22.57	5,377.04	33.78	488.16	14,533,631.89	2,064,392.49	40.010945	-109.485905
5,506.00	1.03	25.41	5,467.02	35.40	488.88	14,533,633.53	2,064,393.18	40.010949	-109.485903
5,596.00	0.31	134.15	5,557.01	35.96	489.40	14,533,634.10	2,064,393.69	40.010951	-109.485901

Company: Kerr McGee Oil and Gas Onshore LP
Project: Uintah County, UT UTM12
Site: NBU 922-30D PAD
Well: NBU 922-30F1BS
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well NBU 922-30F1BS
TVD Reference: GL 4925' & KB 14' @ 4939.00ft (ENSGN 139)
MD Reference: GL 4925' & KB 14' @ 4939.00ft (ENSGN 139)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
5,687.00	0.51	111.52	5,648.01	35.64	489.95	14,533,633.78	2,064,394.25	40.010950	-109.485899	
5,778.00	0.21	209.60	5,739.01	35.35	490.25	14,533,633.50	2,064,394.55	40.010949	-109.485898	
5,868.00	0.69	149.17	5,829.01	34.74	490.44	14,533,632.89	2,064,394.76	40.010947	-109.485897	
5,959.00	0.62	142.40	5,920.00	33.88	491.02	14,533,632.04	2,064,395.35	40.010945	-109.485895	
6,049.00	0.69	155.38	6,010.00	33.00	491.55	14,533,631.17	2,064,395.89	40.010943	-109.485893	
6,139.00	0.88	157.43	6,099.99	31.87	492.04	14,533,630.05	2,064,396.40	40.010940	-109.485891	
6,230.00	1.15	176.18	6,190.97	30.31	492.37	14,533,628.50	2,064,396.76	40.010935	-109.485890	
6,320.00	1.47	166.42	6,280.95	28.29	492.70	14,533,626.48	2,064,397.12	40.010930	-109.485889	
6,411.00	1.66	162.73	6,371.92	25.89	493.36	14,533,624.10	2,064,397.83	40.010923	-109.485887	
6,502.00	1.35	162.32	6,462.88	23.61	494.08	14,533,621.83	2,064,398.59	40.010917	-109.485884	
6,592.00	0.41	151.36	6,552.87	22.32	494.56	14,533,620.55	2,064,399.08	40.010913	-109.485882	
6,682.00	0.45	348.67	6,642.87	22.38	494.64	14,533,620.61	2,064,399.17	40.010914	-109.485882	
6,773.00	1.00	0.10	6,733.86	23.53	494.57	14,533,621.76	2,064,399.08	40.010917	-109.485882	
6,863.00	0.95	344.97	6,823.85	25.04	494.38	14,533,623.26	2,064,398.86	40.010921	-109.485883	
6,954.00	1.54	16.33	6,914.83	26.94	494.53	14,533,625.16	2,064,398.98	40.010926	-109.485883	
7,045.00	0.99	26.40	7,005.81	28.81	495.22	14,533,627.05	2,064,399.64	40.010931	-109.485880	
7,135.00	0.82	46.23	7,095.80	29.96	496.03	14,533,628.21	2,064,400.43	40.010934	-109.485877	
7,226.00	0.39	44.30	7,186.79	30.63	496.72	14,533,628.89	2,064,401.10	40.010936	-109.485875	
7,316.00	0.71	54.10	7,276.79	31.18	497.39	14,533,629.45	2,064,401.76	40.010938	-109.485872	
7,407.00	0.64	43.90	7,367.78	31.87	498.19	14,533,630.16	2,064,402.56	40.010940	-109.485869	
7,498.00	0.95	65.00	7,458.77	32.56	499.23	14,533,630.86	2,064,403.58	40.010941	-109.485866	
7,588.00	0.57	275.24	7,548.77	32.91	499.46	14,533,631.22	2,064,403.81	40.010942	-109.485865	
7,678.00	0.75	290.13	7,638.76	33.16	498.46	14,533,631.45	2,064,402.80	40.010943	-109.485869	
7,769.00	0.20	338.62	7,729.76	33.51	497.85	14,533,631.79	2,064,402.18	40.010944	-109.485871	
7,859.00	0.81	277.00	7,819.76	33.73	497.16	14,533,632.00	2,064,401.49	40.010945	-109.485873	
7,950.00	0.74	285.57	7,910.75	33.97	495.95	14,533,632.22	2,064,400.28	40.010945	-109.485877	
8,040.00	0.61	259.40	8,000.74	34.04	494.92	14,533,632.27	2,064,399.25	40.010946	-109.485881	
8,131.00	0.52	313.60	8,091.74	34.23	494.15	14,533,632.45	2,064,398.47	40.010946	-109.485884	
8,221.00	0.15	304.18	8,181.74	34.58	493.75	14,533,632.79	2,064,398.07	40.010947	-109.485885	
8,312.00	0.25	260.76	8,272.74	34.62	493.46	14,533,632.82	2,064,397.78	40.010947	-109.485886	
8,403.00	0.24	203.46	8,363.74	34.41	493.19	14,533,632.61	2,064,397.51	40.010947	-109.485887	
8,493.00	0.37	161.78	8,453.73	33.96	493.20	14,533,632.16	2,064,397.53	40.010945	-109.485887	
8,584.00	0.71	149.17	8,544.73	33.20	493.58	14,533,631.40	2,064,397.92	40.010943	-109.485886	
8,674.00	1.05	146.91	8,634.72	32.03	494.32	14,533,630.25	2,064,398.68	40.010940	-109.485883	
8,765.00	1.56	126.45	8,725.70	30.59	495.77	14,533,628.84	2,064,400.16	40.010936	-109.485878	
8,855.00	1.45	136.58	8,815.66	29.04	497.54	14,533,627.31	2,064,401.95	40.010932	-109.485872	
8,946.00	1.28	146.43	8,906.64	27.35	498.89	14,533,625.65	2,064,403.33	40.010927	-109.485867	
9,036.00	1.58	163.39	8,996.61	25.33	499.80	14,533,623.64	2,064,404.28	40.010922	-109.485864	
9,127.00	1.72	145.82	9,087.57	23.00	500.93	14,533,621.33	2,064,405.44	40.010915	-109.485860	
9,217.00	2.05	141.74	9,177.53	20.81	502.68	14,533,618.98	2,064,407.24	40.010909	-109.485853	
9,308.00	2.19	151.63	9,268.46	17.81	504.52	14,533,616.20	2,064,409.12	40.010901	-109.485847	
9,398.00	2.32	140.61	9,358.39	14.89	506.49	14,533,613.32	2,064,411.14	40.010893	-109.485840	
9,489.00	2.25	145.87	9,449.32	11.98	508.66	14,533,610.45	2,064,413.36	40.010885	-109.485832	
9,579.00	2.48	129.75	9,539.25	9.28	511.15	14,533,607.79	2,064,415.90	40.010878	-109.485823	
9,670.00	2.10	140.96	9,630.17	6.72	513.71	14,533,605.28	2,064,418.50	40.010871	-109.485814	
9,760.00	1.74	134.68	9,720.12	4.48	515.72	14,533,603.07	2,064,420.55	40.010864	-109.485807	
9,851.00	2.18	141.72	9,811.07	2.15	517.78	14,533,600.77	2,064,422.64	40.010858	-109.485800	
9,941.00	2.00	142.11	9,901.01	-0.43	519.80	14,533,598.23	2,064,424.71	40.010851	-109.485792	
10,032.00	2.18	144.14	9,991.95	-3.09	521.79	14,533,595.60	2,064,426.75	40.010844	-109.485785	
10,122.00	2.22	147.62	10,081.88	-5.95	523.73	14,533,592.78	2,064,428.73	40.010836	-109.485778	
10,213.00	2.43	148.38	10,172.81	-9.08	525.69	14,533,589.68	2,064,430.74	40.010827	-109.485771	
10,303.00	2.49	148.46	10,262.73	-12.37	527.71	14,533,586.42	2,064,432.82	40.010818	-109.485764	
10,394.00	2.34	148.90	10,353.64	-15.65	529.70	14,533,583.18	2,064,434.87	40.010809	-109.485757	
10,484.00	2.59	151.74	10,443.56	-19.01	531.61	14,533,579.85	2,064,436.84	40.010800	-109.485750	

Company: Kerr McGee Oil and Gas Onshore LP
Project: Uintah County, UT UTM12
Site: NBU 922-30D PAD
Well: NBU 922-30F1BS
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well NBU 922-30F1BS
TVD Reference: GL 4925' & KB 14' @ 4939.00ft (ENSIGN 139)
MD Reference: GL 4925' & KB 14' @ 4939.00ft (ENSIGN 139)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
10,603.00	2.59	151.07	10,562.44	-23.73	534.19	14,533,575.17	2,064,439.49	40.010787	-109.485741
LAST SDI MWD PRODUCTION SURVEY									
10,660.00	2.59	151.07	10,619.38	-25.99	535.43	14,533,572.94	2,064,440.77	40.010781	-109.485737
SDI PROJECTION TO BIT									

Design Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
188.00	187.99	1.06	0.87	FIRST SDI MWD SURFACE SURVEY
2,695.00	2,660.32	37.15	400.37	LAST SDI MWD SURFACE SURVEY
2,792.00	2,756.19	37.79	415.14	FIRST SDI MWD PRODUCTION SURVEY
10,603.00	10,562.44	-23.73	534.19	LAST SDI MWD PRODUCTION SURVEY
10,660.00	10,619.38	-25.99	535.43	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		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU463
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: NBU 922-30F1BS	
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047516830000	
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6511	9. FIELD and POOL or WILDCAT: NATURAL BUTTES
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1249 FNL 0654 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNW Section: 30 Township: 09.0S Range: 22.0E Meridian: S	COUNTY: UINTAH	
	STATE: UTAH	
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start: <input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 12/21/2012 <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PLUG BACK <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> WILDCAT WELL DETERMINATION <input checked="" type="checkbox"/> OTHER	
	OTHER: <input type="text" value="Production Enhancement"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.		
<p>The operator conducted the following workover/wellbore cleanout on the subject well on 12/21/2012. Please see the attached chronological well history for details. Thank you.</p>		
<p>Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY January 16, 2013</p>		
NAME (PLEASE PRINT) Jaime Scharnowske	PHONE NUMBER 720 929-6304	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 1/14/2013	

US ROCKIES REGION
Operation Summary Report

Well: NBU 922-30F1BS BLACK

Spud Date: 1/20/2012

Project: UTAH-UINTAH

Site: NBU 922-30D PAD

Rig Name No: MILES-GRAY 1/1

Event: WELL WORK EXPENSE

Start Date: 12/18/2012

End Date: 12/21/2012

Active Datum: RKB @4,939.00usft (above Mean Sea Level)

UWI: NW/NW/0/9/S/22/E/30/0/0/26/PM/N/1249/W/0/654/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
12/18/2012	7:00 - 9:30	2.50	MAINT	30	G	P		ROAD RIG F/ NBU 922-27C1BS TO NBU 921-30F1BS
	9:30 - 11:00	1.50	MAINT	30	A	P		SPOT RIG, MIRU.
	11:00 - 13:00	2.00	MAINT	30	F	P		FCP.184 PSI. FTP. 184 PSI. BLEW TBG DWN, CONTROL TBG W/ 20 BBLs, ND WH, NU BOP'S RU FLOOR & TBG EQUIPMENT, UNLAND TBG HANGER, PU & RIH 12 JTS. 2-3/8 P-110 TBG F/ TRAILER, TAG FILL @ 10,522', BTM PERF @ 10,420', (102' RAT HOLE) POOH & LD 12 JTS. ON TRAILER.
	13:00 - 14:00	1.00	MAINT	31	I	P		RU SCAN TECH, POOH & SCAN 220 JTS. 2-3/8 P-110 TBG, RD SCAN TECH, EOT @ 3,170', SWI, SDFN.
	14:00 - 17:00	3.00	MAINT	45	A	P		HSM, REVIEW SCANNING TBG.
12/19/2012	7:00 - 7:30	0.50	MAINT	48		P		SICP. 850 PSI. SITP. 850 PSI. BLEW TBG DWN, CONTROL TBG W/ 20 BBLs, RU SCAN TECH & CONTINUE SCANNING TBG, LD 4 JTS. 1JNT W/ BAD THREADS & 3 JTS.DUE TO PITTING, RD SCAN TECH.
	7:30 - 10:30	3.00	MAINT	45	A	P		PU 3-7/8 MILL, BIT SUB, RIH & TALLY 226 JTS. 2-3/8 P-110 TBG, EOT @ 7180', SWI, SDFN.
	10:30 - 15:00	4.50	MAINT	31	I	P		JSA-SAFETY MEETING
12/20/2012	7:00 - 7:30	0.50	MAINT	48		P		500# ON WELL BLOW DN TO PIT, RIH W/ TBG PBTD @ 10543', R/UFOAM UNIT CIRC WELL AROUND, R/D FOAM UNIT.
	7:30 - 10:30	3.00	MAINT	31	I	P		TOOH W/ TBG, LAY DN MILL,
	10:30 - 14:00	3.50	MAINT	31	I	P		P/U LSN NIPPLE RIH W/ 2 3/8" P-110 TBG, BROACH TBG IN, 176 JTS @ 5598', SHUT WELL IN DRAIN UP PUMP AND LINE, SDFN
	14:00 - 17:00	3.00	MAINT	31	I	P		JSA-SAFETY MEETING
12/21/2012	7:00 - 7:30	0.50	MAINT	48		P		5003 ON WELL BLOW DN TO PIT, RIH W/ TBG LAND TBG W/ 320 JTS 2 3/8" P-110 TBG @ 10170', N/D BOPS, N/U WH, SHUT WELL IN, TURN WELL OVER TO PRODUCTION, R/D UNIT MOVE OFF LOC,
	7:30 - 13:00	5.50	MAINT	31	I	P		

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS	
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	
1. TYPE OF WELL Gas Well	5. LEASE DESIGNATION AND SERIAL NUMBER: UTU463
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
PHONE NUMBER: 720 929-6100	8. WELL NAME and NUMBER: NBU 922-30F1BS
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1249 FNL 0654 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNW Section: 30 Township: 09.0S Range: 22.0E Meridian: S	9. API NUMBER: 43047516830000
	9. FIELD and POOL or WILDCAT: NATURAL BUTTES
	COUNTY: UINTAH
	STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 1/31/2014	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input checked="" type="checkbox"/> OTHER	OTHER: <input type="text" value="Production Enhancement"/>

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

The operator conducted the following workover/wellbore cleanout on the subject well on 1/31/2014. Please see the attached chronological well history for details. Thank you.

**Accepted by the
 Utah Division of
 Oil, Gas and Mining
 FOR RECORD ONLY
 February 21, 2014**

NAME (PLEASE PRINT) Teena Paulo	PHONE NUMBER 720 929-6236	TITLE Staff Regulatory Specialist
SIGNATURE N/A	DATE 2/20/2014	

US ROCKIES REGION
Operation Summary Report

Well: NBU 922-30F1BS BLACK

Spud Date: 1/20/2012

Project: UTAH-UINTAH

Site: NBU 922-30D PAD

Rig Name No: MILES 2/2

Event: WELL WORK EXPENSE

Start Date: 1/29/2014

End Date: 1/31/2014

Active Datum: RKB @4,939.00usft (above Mean Sea Level)

UWI: NW/NW/0/9/S/22/E/30/0/0/26/PM/N/1249/W/0/654/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
1/29/2014	13:00 - 15:00	2.00	MAINT	34	H	P		MIRU CUTTERS, RIH W/ TBG PUNCH & PUNCH TBG @ 10126' - 32', POOH, RDMO CUTTERS
	15:00 - 17:00	2.00	MAINT	30	A	P		MIRU, SPOT EQUIP, LAY HARDLINE, CONTROL WELL W/ TMAC, ND WH, NU BOP, INSTAL PUP JT & TIW VALVE IN HANGER, RU FLOOR & TBG EQUIP, PUT WELL TO SALES OFF CSG, WINTERIZE, SDFN.
1/30/2014	7:00 - 7:15	0.25	MAINT	48		P		HSM, SLIPS, TRIPS & FALLS, SCANNING TBG
	7:15 - 9:00	1.75	MAINT	31	I	P		P/T BOP TO 2,000 PSI GOOD, CONTROL WELL W/ TMAC, UNLAND TBG (STUCK) PULL UP TO 90K REMOVE HANGER, PU 1JT TBG & WORK STRING FROM 0 TO 100K 10-12 TIMES CAME FREE, RIH TAGGED @ 10510', 90' PAST BTM PERF W/ 331 JTS, L/D 11 JTS, PREP TO SCAN TBG.
	9:00 - 15:00	6.00	MAINT	45	A	P		MIRU SCAN TECH, POOH SCANNING TBG, LOOKS LIKE TBG WAS STUCK APPROX 9,220' TO 9,300' HEAVY EXTERNAL SCALE ON JTS 291, 292 & 293, SCANNED 320 JTS, 233 YELLOW, 35 BLUE, 51 RED, HEAVY INTERNAL PITTING JTS 126 TO 166, NO INTERNAL SCALE, JT 318 WAS PERFORATED, SWAB TOOLS IN JTS 319 & 320, RDMO SCAN TECH. NOTE: TBG HAD NORM IN IT
	15:00 - 17:00	2.00	MAINT	31	I	P		PU 3 7/8" USED MILL, POBS, 1.875" XN S/N, TALLY & PU 51 JTS L-80 TBG & PUP JT, RIH W P-110, SWI, WINTERIZE, SDFN.
1/31/2014	7:00 - 7:15	0.25	MAINT	48		P		HSM, SLIPS, TRIPS & FALLS, C/O W/ A/F UNIT

US ROCKIES REGION
Operation Summary Report

Well: NBU 922-30F1BS BLACK		Spud Date: 1/20/2012	
Project: UTAH-UINTAH		Site: NBU 922-30D PAD	Rig Name No: MILES 2/2
Event: WELL WORK EXPENSE		Start Date: 1/29/2014	End Date: 1/31/2014
Active Datum: RKB @4,939.00usft (above Mean Sea Level)		UWI: NW/NW/0/9/S/22/E/30/0/0/26/PM/N/1249/W/0/654/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	7:15 - 17:00	9.75	MAINT	31	I	P		<p>SICP 800 PSI, OPEN & BLEED WELL DOWN, RIH TAG @ 8390', RU P/S, INSTAL S/F & BREAK CIRC W/ A/F UNIT 1 1/2 HRS, C/O FROM 8390' TO 8,400', TOP KILL TBG, SET P/S BACK, REMOVE S/F, RIH TAGGED @ 10,505', PU P/S, INSTAL S/F & BREAK CIRC W/ A/F UNIT 2 1/2 HRS, C/O FROM 10,505' TO 10,565' PBT, 145' PAST BTM PERF @ 10,420' W/ 332 JTS 2 3/8" L-80 & P-110 TBG, LET WELL CLEAN UP 45 MIN, TOP KILL TBG, RD P/S, REMOVE S/F, LD 12 JTS, PU & STRIP IN TBG HANGER & LAND TBG W/ 320 JTS 2 3/8" TBG, EOT 10,180.98'.</p> <p>RD P/S, FLOOR & TBG EQUIP, ND BOPS, NU WH, DROP BALL & SHEAR OFF MILL, T/O TO PROD, RD, PARK RIG ON LOCATION TO MOVE TO NBU 921-20M PAD ON MONDAY.</p> <p>KB= 4' 4 1/16" WEATHERFORD HANGER= .83' TBG DELIVERED 75 JTS L-80 SAMUELS YARD (NEW) 269 JTS 2 3/8" P-110= 8,537.14' TBG USED 51 JTS 1 - 6' PUP JT L-80= 6.14' TBG RETURNED 24 JTS TO SAMUELS YARD 51 JTS 2 3/8" L-80 = 1,620.67' POBS= 2.20' EOT @ 10,180.98'</p> <p>WATER TO RECOVER APPROX 200 BBLs</p>

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: UTU463
1. TYPE OF WELL Gas Well	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	8. WELL NAME and NUMBER: NBU 922-30F1BS
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1249 FNL 0654 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNW Section: 30 Township: 09.0S Range: 22.0E Meridian: S	9. API NUMBER: 43047516830000
PHONE NUMBER: 720 929-6100	9. FIELD and POOL or WILDCAT: NATURAL BUTTES
	COUNTY: Uintah
	STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 5/2/2014	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input checked="" type="checkbox"/> OTHER	OTHER: WELLBORE CLEANOUT

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

THE OPERATOR HAS COMPLETED THE FOLLOWING
 WORKOVER/WELLBORE CLEANOUT ON THE SUBJECT WELL ON
 05/02/2014. SEE ATTACHED OPERATIONS SUMMARY REPORT.

Accepted by the
 Utah Division of
 Oil, Gas and Mining
FOR RECORD ONLY
 May 20, 2014

NAME (PLEASE PRINT) Doreen Green	PHONE NUMBER 435 781-9758	TITLE Regulatory Analyst II
SIGNATURE N/A	DATE 5/19/2014	

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 922-30F1BS BLACK		Spud Date: 1/20/2012	
Project: UTAH-UINTAH		Site: NBU 922-30D PAD	Rig Name No: ROCKY MOUNTAIN WELL SERVICE 3/3
Event: WELL WORK EXPENSE		Start Date: 5/1/2014	End Date: 5/2/2014
Active Datum: RKB @4,939.00usft (above Mean Sea Level)		UWI: NW/NW/0/9/S/22/E/30/0/0/26/PM/N/1249/W/0/654/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
5/1/2014	7:00 - 7:15	0.25	MAINT	48		P		HSM, JSA
	7:15 - 8:00	0.75	MAINT	30	G	P		ROAD RIG FROM NBU 921-25C PAD TO NBU 922-30F1BS
	8:00 - 9:00	1.00	MAINT	35	D	P		WAITE FOR DELSCO TO REMOVE PLUNGER
	9:00 - 11:00	2.00	MAINT	30	A	P		MIRU, 880# SICP, CONTROL WELL W/ 30 BBLS T-MAC, ND WH, NU BOP'S, RU FLOOR & TBG EQUIP
	11:00 - 15:30	4.50	MAINT	31	I	P		MIRU SCAN TECH, TOOH & SCAN 2-3/8" TBG, TBG SCAN SHOWED 251 YELLOW BAND, 65 BLUE BAND & 4 RED BAND, JTS 288, 289 & 290 HAD MEDIUN EXTERNAL SCALE, RD SCAN TECH
	15:30 - 17:00	1.50	MAINT	31	I	P		P/U 3-7/8" MILL, POBS & XN, TIH W/ 104 JTS 2-3/8" TBG, SHUT & LOCK RAMS, SWI, SDFN
5/2/2014	6:30 - 6:45	0.25	MAINT	48		P		HSM, JSA
	7:00 - 12:00	5.00	MAINT	31	I	P		CP=850#, TP= 0#, CNTRL WELL, TIH W/ 227 JTS 2-3/8' TBG, TAG FILL @ 10,526.43'. POOH & L/D 16 JTS, BROACH TBG, ND BOPS, NU WH, SHEAR OFF BIT, LAND TBG @ 10,019.48'. SWI. T/O TO PRODUCTION
	12:00 - 13:00	1.00	MAINT	30	C	P		55 JTS 2-3/8 L-80 = 1745.46' 260 JTS 2-3/8" P-110 = 8250.85' RDMO

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
5. LEASE DESIGNATION AND SERIAL NUMBER: UTU463	
SUNDRY NOTICES AND REPORTS ON WELLS	
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:	
7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES	
8. WELL NAME and NUMBER: NBU 922-30F1BS	
9. API NUMBER: 43047516830000	
9. FIELD and POOL or WILDCAT: NATURAL BUTTES	
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779 PHONE NUMBER: 720 929-6507	
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1249 FNL 0654 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNW Section: 30 Township: 09.0S Range: 22.0E Meridian: S	
COUNTY: UINTAH	
STATE: UTAH	

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 11/12/2015	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input checked="" type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

The NBU 922-30F1BS well was returned to production on 11/12/2015.
 Thank you.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
 November 17, 2015

NAME (PLEASE PRINT) Jennifer Thomas	PHONE NUMBER 720 929-6808	TITLE Regulatory Specialist
SIGNATURE N/A	DATE 11/17/2015	