

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 920-24P	
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 720 929-6587	
8. ADDRESS OF OPERATOR P.O. Box 173779, Denver, CO, 80217						9. OPERATOR E-MAIL mary.mondragon@anadarko.com	
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) UTU-0579			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 type="checkbox"/> INDIAN <input checked="" 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') Ute			18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input type="checkbox"/> (Submit Commingling Application) NO <input checked="" type="checkbox"/>			19. SLANT VERTICAL <input checked="" type="checkbox"/> DIRECTIONAL <input type="checkbox"/> HORIZONTAL <input type="checkbox"/>	
20. LOCATION OF WELL	FOOTAGES	QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN	
LOCATION AT SURFACE	992 FSL 462 FEL	SESE	24	9.0 S	20.0 E	S	
Top of Uppermost Producing Zone	992 FSL 462 FEL	SESE	24	9.0 S	20.0 E	S	
At Total Depth	992 FSL 462 FEL	SESE	24	9.0 S	20.0 E	S	
21. COUNTY UINTAH			22. DISTANCE TO NEAREST LEASE LINE (Feet) 462			23. NUMBER OF ACRES IN DRILLING UNIT 1920	
			25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 1500			26. PROPOSED DEPTH MD: 10300 TVD:	
27. ELEVATION - GROUND LEVEL 4840			28. BOND NUMBER WYB000291			29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE Permit #43-8496	
ATTACHMENTS							
VERIFY THE FOLLOWING ARE ATTACHED IN ACCORCANCE 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 type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)				<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP			
NAME Kevin McIntyre			TITLE Regulatory Analyst I			PHONE 720 929-6226	
SIGNATURE			DATE 09/25/2008			EMAIL Kevin.McIntyre@anadarko.com	
API NUMBER ASSIGNED 43047501480000			APPROVAL  Permit Manager				

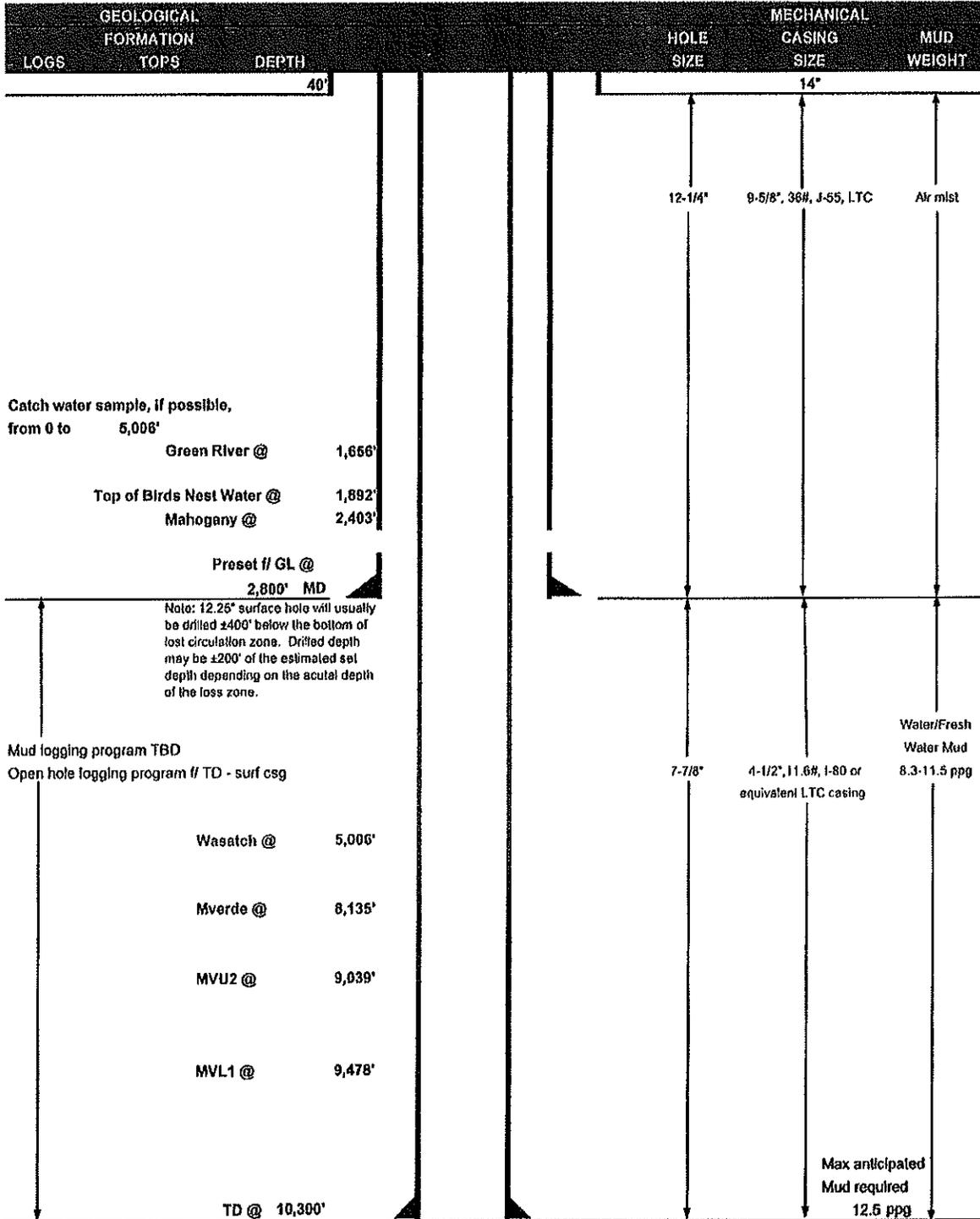
Proposed Hole, Casing, and Cement						
String	Hole Size	Casing Size	Top (MD)	Bottom (MD)		
Surf	12.25	9.625	0	2800		
Pipe	Grade	Length	Weight			
	Grade J-55 LT&C	2800	36.0			
	Cement Interval	Top (MD)	Bottom (MD)			
		0	2800			
		Cement Description	Class	Sacks	Yield	Weight
			Premium Foamed Cement	215	1.18	15.6

Proposed Hole, Casing, and Cement						
String	Hole Size	Casing Size	Top (MD)	Bottom (MD)		
Prod	7.875	4.5	0	10300		
Pipe	Grade	Length	Weight			
	Grade I-80 LT&C	10300	11.6			
	Cement Interval	Top (MD)	Bottom (MD)			
		0	10300			
		Cement Description	Class	Sacks	Yield	Weight
			Premium Lite High Strength	490	3.38	11.0
			Pozzuolanic Cement	1620	1.31	14.3



KERR-McGEE OIL & GAS ONSHORE LP DRILLING PROGRAM

COMPANY NAME	KERR-McGEE OIL & GAS ONSHORE LP	DATE	September 9, 2008
WELL NAME	NBU 920-24P	TD	10,300' MD/TVD
FIELD	Natural Buttes	COUNTY	Uimah
		STATE	Ulah
		ELEVATION	4,840' GL KB 4,855'
SURFACE LOCATION	SESE 892' FSL & 402' FEL, Sec. 24, T 9S R 20E		BHL Straight Hole
	Latitude: 40.018510	Longitude: -109.808240	NAD 27
OBJECTIVE ZONE(S)	Wasatch/Mesaverde		
ADDITIONAL INFO	Regulatory Agencies: BLM (MINERALS), BIA (SURFACE), UDOGM, Tri-County Health Dept.		



DRILLING PROGRAM

CASING PROGRAM

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS		
						BURST	COLLAPSE	TENSION
CONDUCTOR	14"	0-40'				3520	2020	453000
SURFACE	9-5/8"	0 to 2,800'	36.00	J-55	LTC	0.79 7780	1.54 6350	5.13 201000
PRODUCTION	4-1/2"	0 to 10300	11.00	I-80	LTC	1.76	0.95	1.93

- 1) Max Anticipated Surf. Press.(MASP) (Surface Casing) = (Pore Pressure at next csg point)-(0.22 psi/ft-partial evac gradient x TVD of next csg point)
 2) MASP (Prod Casing) = Pore Pressure at TD - (.22 psi/ft-partial evac gradient x TD)
 (Burst Assumptions: TD = 12.5 ppg) .22 psi/ft = gradient for partially evac wellbore
 (Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)
 MASP 4120 psi

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE Option 1	LEAD	500	Premium cmt + 2% CaCl + .25 pps flocele	216	60%	16.80	1.18
	TOP OUT CMT (1)	250	20 gals sodium silicate + Premium cmt + 2% CaCl + .25 pps flocele	100		15.60	1.18
	TOP OUT CMT (2)	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
SURFACE Option 2	LEAD	2000	NOTE: If well will circulate water to surface, option 2 will be utilized Prem cmt + 16% Gel + 10 pps gilsonite +.25 pps Flocele + 3% salt BWOC	230	35%	11.00	3.82
	TAIL	500	Premium cmt + 2% CaCl + .25 pps flocele	180	35%	15.60	1.18
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
PRODUCTION	LEAD	4,500'	Premium Lite II + 3% KCl + 0.25 pps cellulose + 5 pps gilsonite + 10% gel + 0.5% extender	490	60%	11.00	3.38
	TAIL	5,800'	50/50 Poz/G + 10% salt + 2% gel +.1% R-3	1620	60%	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 shoes, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe.
PRODUCTION	Float shoe, 1 jt, float collar. Centralize first 3 joints & every third joint to top of tail cement with bow spring centralizers.

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. Test to 5,000 psi (annular to 2,500 psi) prior to drilling out. Record on chart recorder & tour sheet. Function test rams on each trip. Maintain safety valve & inside BOP on rig floor at all times. Kelly to be equipped with upper & lower kelly valves.
 Drop Totco surveys every 2000'. Maximum allowable hole angle is 5 degrees.
 Most rigs have PVT Systems for mud monitoring. If no PVT is available, visual monitoring will be utilized.

DRILLING ENGINEER: _____ DATE: _____
 Brad Laney
 DRILLING SUPERINTENDENT: _____ DATE: _____
 Randy Bayne

**NBU 920-24P
SESE Sec. 24, T9S,R20E
UINTAH COUNTY, UTAH
UTU-0579**

ONSHORE ORDER NO. 1

DRILLING PROGRAM

1. Estimated Tops of Important Geologic Markers:

<u>Formation</u>	<u>Depth</u>
Uinta	0- Surface
Green River	1656'
Bird's Nest	1892'
Mahogany	2403'
Wasatch	5006'
Mesaverde	8135'
MVU2	9039'
MVL1	9478'
TD	10,300'

2. Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations:

<u>Substance</u>	<u>Formation</u>	<u>Depth</u>
	Green River	1656'
	Bird's Nest	1892'
	Mahogany	2403'
Gas	Wasatch	5006'
Gas	Mesaverde	8135'
Gas	MVU2	9039'
Gas	MVL1	9478'
Water	N/A	
Other Minerals	N/A	

3. Pressure Control Equipment (Schematic Attached)

Please see the Natural Buttes Unit Standard Operating Procedure (SOP).

4. Proposed Casing & Cementing Program:

Please see the Natural Buttes Unit SOP. See attached drilling diagram.

5. Drilling Fluids Program:

Please see the Natural Buttes Unit SOP.

6. Evaluation Program:

Please see the Natural Buttes Unit SOP.

7. **Abnormal Conditions:**

Maximum anticipated bottomhole pressure calculated at 10,300' TD, approximately equals 6386 psi (calculated at 0.62 psi/foot).

Maximum anticipated surface pressure equals approximately 4120 psi (bottomhole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

8. **Anticipated Starting Dates:**

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

9. **Variances:**

*Please see Natural Buttes Unit SOP 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

to just above the Bird's Nest interval with an air hammer. The hammer is then tripped and replaced with a 12-1/4 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 9-5/8 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 blowie line. The air rig does not utilize an igniter as the surface hole drilling operation does not encounter productive formations.

Conclusion

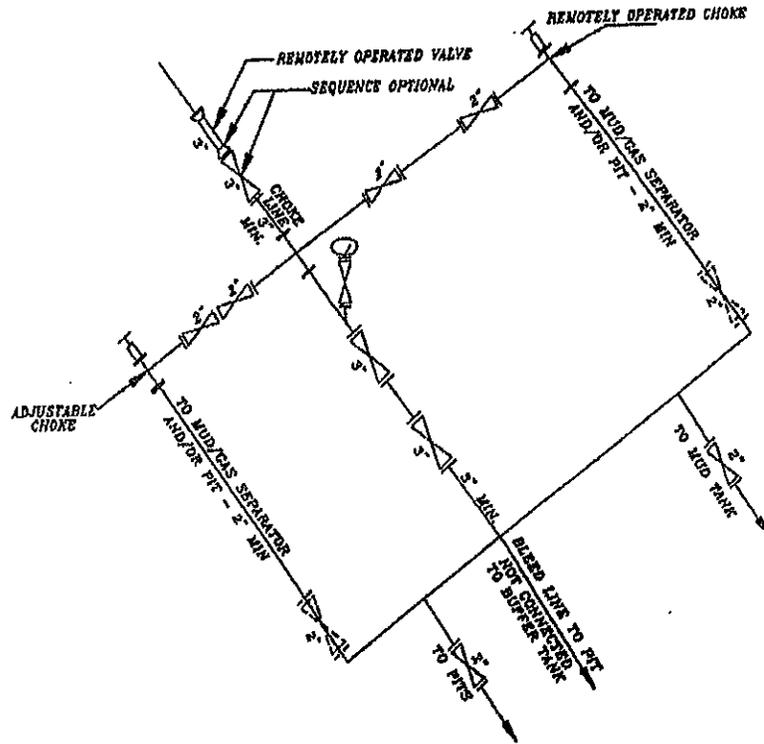
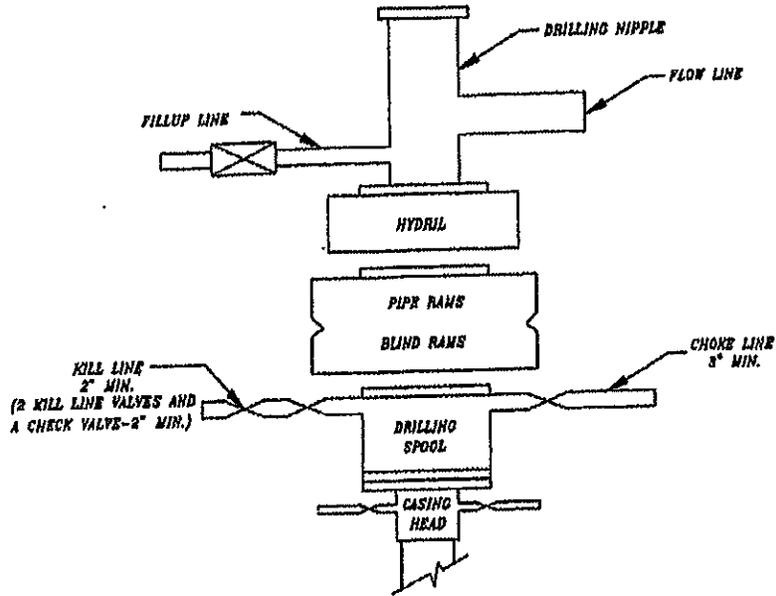
The air rig operating procedures and the attached air rig layout have effectively maintained well control while drilling the surface holes in KMG Fields. KMG respectfully requests a variance from Onshore Order 2 with respect to air drilling well control requirements as discussed above..

10. Other Information:

Please see Natural Buttes Unit SOP.

NBU 920-24P

EXHIBIT A



SCHEMATIC DIAGRAM OF 5,000 PSI BOP STACK

**NBU 920-24P
SESE Sec. 24 ,T9S,R20E
UINTAH COUNTY, UTAH
UTU-0579**

ONSHORE ORDER NO. 1

MULTI-POINT SURFACE USE & OPERATIONS PLAN

1. Existing Roads:

Refer to the attached location directions.

Refer to Topo Maps A and B for location of access roads within a 2-mile radius.

2. Planned Access Roads:

Approximately 2,400' +/- of new access road is proposed. Refer to Topo Map B.

Existence of pipelines; maximum grade; turnouts; major cut and fills, culverts, or bridges; gates, cattle guards, fence cuts, or modifications to existing facilities were determined at the on-site.

Please see the Natural Buttes Unit Standard Operating Procedure (SOP).

3. Location of Existing Wells Within a 1-Mile Radius:

Please refer to Topo Map C.

4. Location of Existing & Proposed Facilities:

Please see the Natural Buttes Unit SOP.

Refer to Topo Map D for the location of the proposed pipelines.

A right-of-way is required for the pipeline. The pipeline is approximately 6,166' in length and 30' in width. A 4" surface steel pipeline will be constructed utilizing existing disturbance where possible. The pipeline will be butt-welded together and pulled into place with a rubber tired tractor.

Variations to Best Management Practices (BMPs) Requested:

Approximately 6,166' of 4" steel pipeline will be installed on surface within the access corridor for the well location. As a Best Management Practice (BMP), the pipeline would be buried within the access road corridor if possible. The construction of pipelines requires the corridor of 30 feet.

This exception to the BMP should be granted by the BLM Authorized Officer because indurated bedrock, such as sandstone, is at or within 2 feet of the surface and the soil has a poor history for successful rehabilitation.

All facilities will be painted within six months of installation. Facilities required to comply with the Occupational Safety and Health Act (OSHA) will be excluded. The requested color is Shadow gray (2.5Y 6/2), a non-reflective earthtone.

Interim Surface Reclamation Plan:

This exception is requested due to the current twin and multi-well program. If determined that this well will not be a candidate for either twinning &/or multi-well the operator shall spread the topsoil pile on the location up to the rig anchor points. The location will be reshaped to the original contour to the extent possible. The operator will reseed the area using the BLM recommended seed mixture and reclamation methods.

5. Location and Type of Water Supply:

Please see the Natural Buttes SOP.

6. Source of Construction Materials:

Please see the Natural Buttes SOP.

7. Methods of Handling Waste Materials:

Please see the Natural Buttes SOP.

A plastic reinforced liner is to be used as discussed during on-site inspection. It will be a minimum of 20 mil thick and felt, with sufficient bedding used to cover any rocks. The liner will overlap the pit walls and be covered with dirt and/or rocks to hold it in place. No trash or scrap that could puncture the liner will be disposed of in the pit.

Any produced water from the proposed well will be contained in a water tank and will then be hauled by truck to one of the pre-approved disposal sites: RNI, Sec. 5, T9S, R22E, NBU #159, Sec. 35, T9S R21E, Ace Oilfield, Sec. 2, T6S, R20E, MC&MC, Sec. 12, T6S, R19E, Pipeline Facility Sec. 36, T9S, R20E, Goat Pasture Evaporation Pond SW/4 Sec. 16, T10S, R22E, Bonanza Evaporation Pond Sec. 2, T10S, R23E (*Request is in lieu of filing Form 3160-5, after initial production*).

8. Ancillary Facilities:

Please see the Natural Buttes SOP.

9. **Well Site Layout:** (See Location Layout Diagram)

The attached Location Layout Diagram describes drill pad cross-sections, cuts and fills, and locations of the mud tanks, reserve pit, flare pit, pipe racks, trailer parking, spoil dirt stockpile(s), and surface material stockpile(s).

Please see the attached diagram to describe rig orientation, parking areas, and access roads.

Location size may change prior to the drilling of the well due to the current rig availability. If the proposed location is not large enough to accommodate the drilling rig. The location will be re-surveyed and a form 3160-5 will be submitted.

10. **Plans for Reclamation of the Surface:**

Please see the Natural Buttes SOP.

Upon reclamation of the pit the following seed mixture will be used. A total of 12 lbs/acre will be used if the seeds are drilled (24 lbs/acre if the seeds are broadcast). The per acre requirements for *drilled* seed are:

Crested Wheatgrass 12 lbs.

Operator shall call the BLM for the seed mixture when final reclamation occurs.

11. **Surface/Mineral Ownership:**

The well pad and access road are located on lands owned by:

Ute Indian Tribe
P.O. Box 70
Fort Duchesne, Utah 84026
(435) 722-5141

The mineral ownership is listed below:

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

12. Stipulations/Notices/Mitigation:

There are no stipulations or notices for this location.

13. Other Information:

A Class III archaeological survey and a paleontological survey have been performed and will be submitted.

This location is not within 460' from the boundary of the Natural Buttes Unit, nor is it within 460' of any non-committed tract lying within the boundaries of the Unit.

14. Lessee's or Operator's Representative & Certification:

Kevin McIntyre
Regulatory Analyst
Kerr-McGee Oil & Gas Onshore LP
P.O. Box 173779
Denver, CO 80217-3779
(720) 929-6226

Randy Bayne
Drilling Manager
Kerr-McGee Oil & Gas Onshore LP
1368 South 1200 East
Vernal, UT 84078
(435) 781-7018

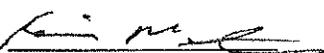
Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

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 the terms and conditions of the lease for the operations conducted upon leased lands.

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.

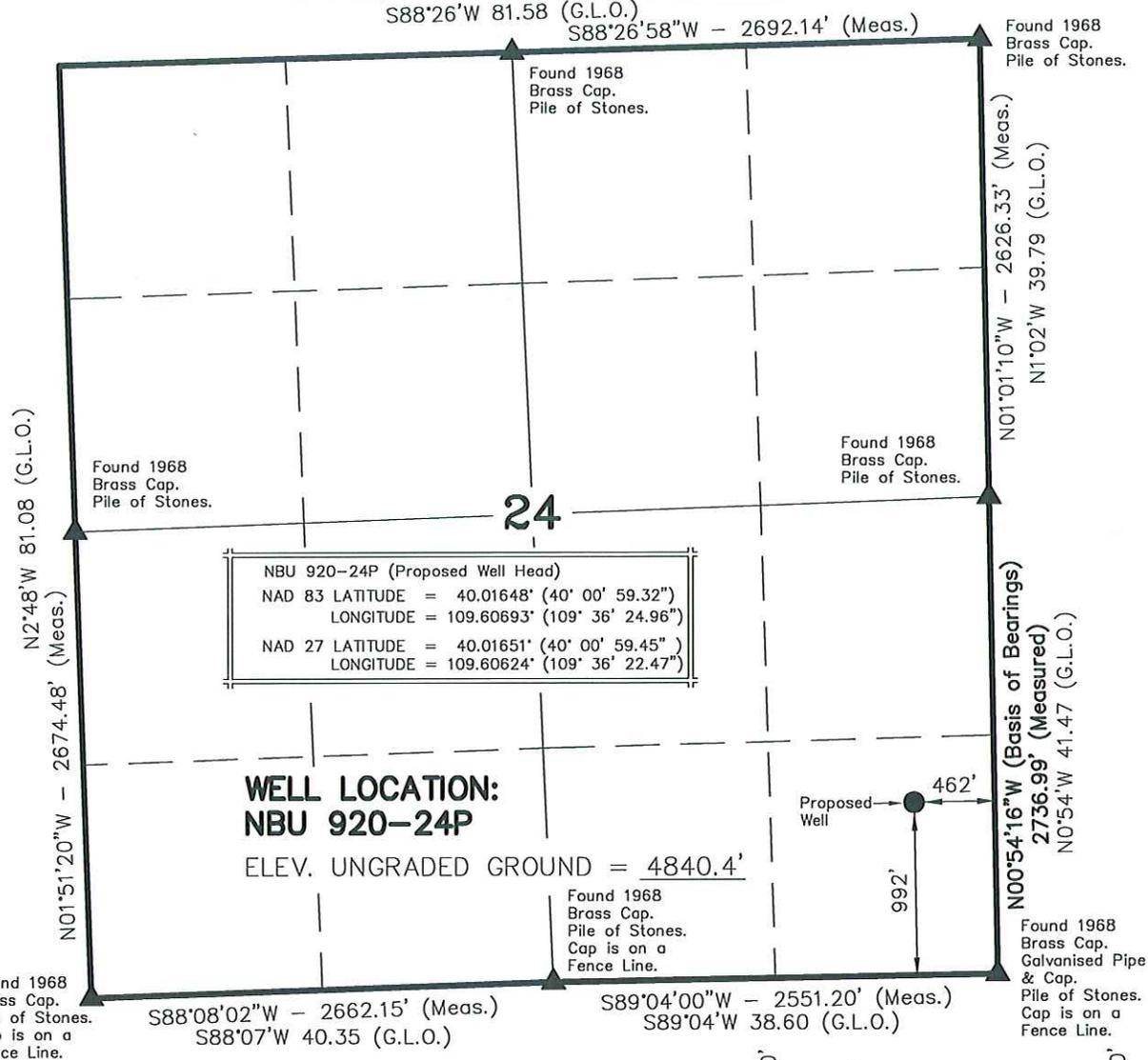
Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by Bureau of Land Management Nationwide Bond #WYB000291.

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 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 by the Operator, its contractors, and subcontractors in conformity with this plan and the terms and conditions under which it is approved.


Kevin McIntyre

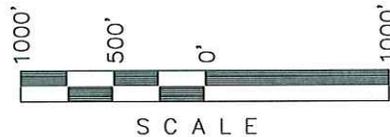
9/9/2008
Date

T9S, R20E, 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. Bearings are based on Global Positioning Satellite observations.
- 4. Basis of elevation is the Northwest Corner of Section 12, T9S, R20E, S.L.B.&M. The elevation of this Section Corner is shown on the Ouray SE 7.5 Min. Quadrangle as being 4676'.



SURVEYOR'S CERTIFICATE

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

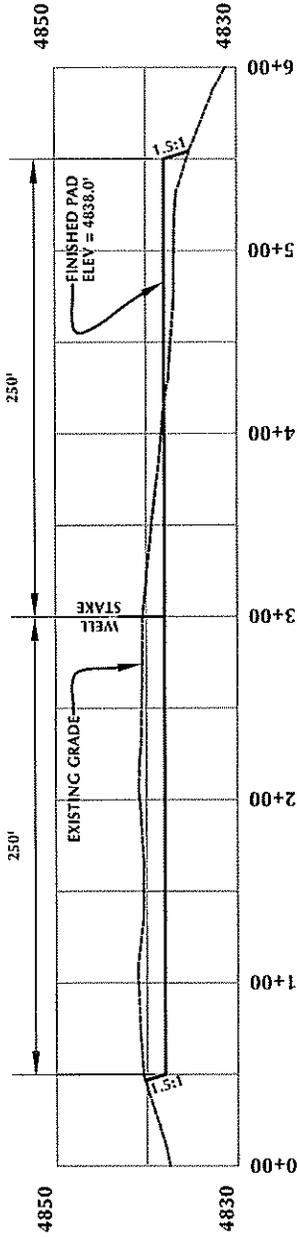
John R. Slough
 REGISTERED LAND SURVEYOR
 REGISTRATION No. 6028691
 STATE OF UTAH

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

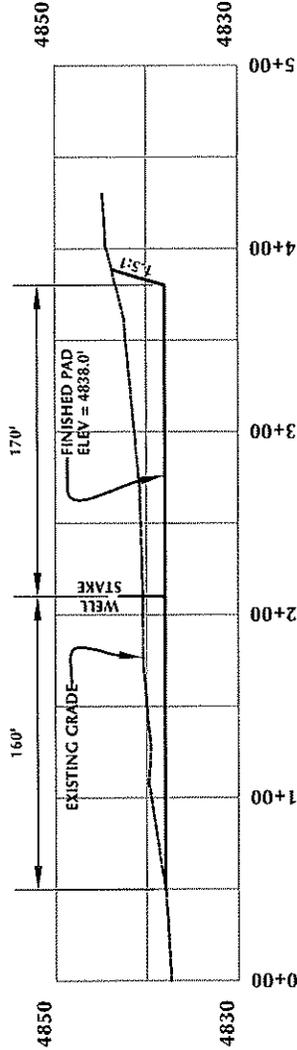
NBU 920-24P
 WELL PLAT
 992' FSL, 462' FEL
 SE ¼ SE ¼ OF SECTION 24, T9S, R20E,
 S.L.B.&M. UINTAH COUNTY, UTAH.

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

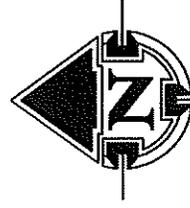
TIMBERLINE (435) 789-1365		
ENGINEERING & LAND SURVEYING, INC.		
38 WEST 100 NORTH - VERNAL, UTAH 84078		
DATE SURVEYED: 07-31-08	SURVEYED BY: M.S.B.	SHEET 1 OF 9
DATE DRAWN: 08-04-08	DRAWN BY: M.W.W.	
SCALE: 1" = 1000'	Date Last Revised:	



CROSS SECTION A-A'



CROSS SECTION B-B'



Timberline
 Engineering & Land Surveying, Inc.
 (435) 789-1365
 38 WEST 100 NORTH
 VERNAL, UTAH 84078



609 CONSULTING, LLC
 371 Coffeen Avenue
 Sheridan WY 82801
 Phone 307-674-0609
 Fax 307-674-0182

KERR-MCGEE OIL & GAS
ONSHORE L.P.
 1099 18th Street - Denver, Colorado 80202

NBU 920-24P
WELL PAD - CROSS SECTIONS
 992' FSL, 462' FEL
 SE1/4SE1/4, SECTION 24, T.9S., R.20E.
 S.L.B.&M., Uintah County, Utah

Scale: 1"=100'	Date: 8/18/08	SHEET NO:
REVISID:	BY	DATE
		3
		3 OF 9

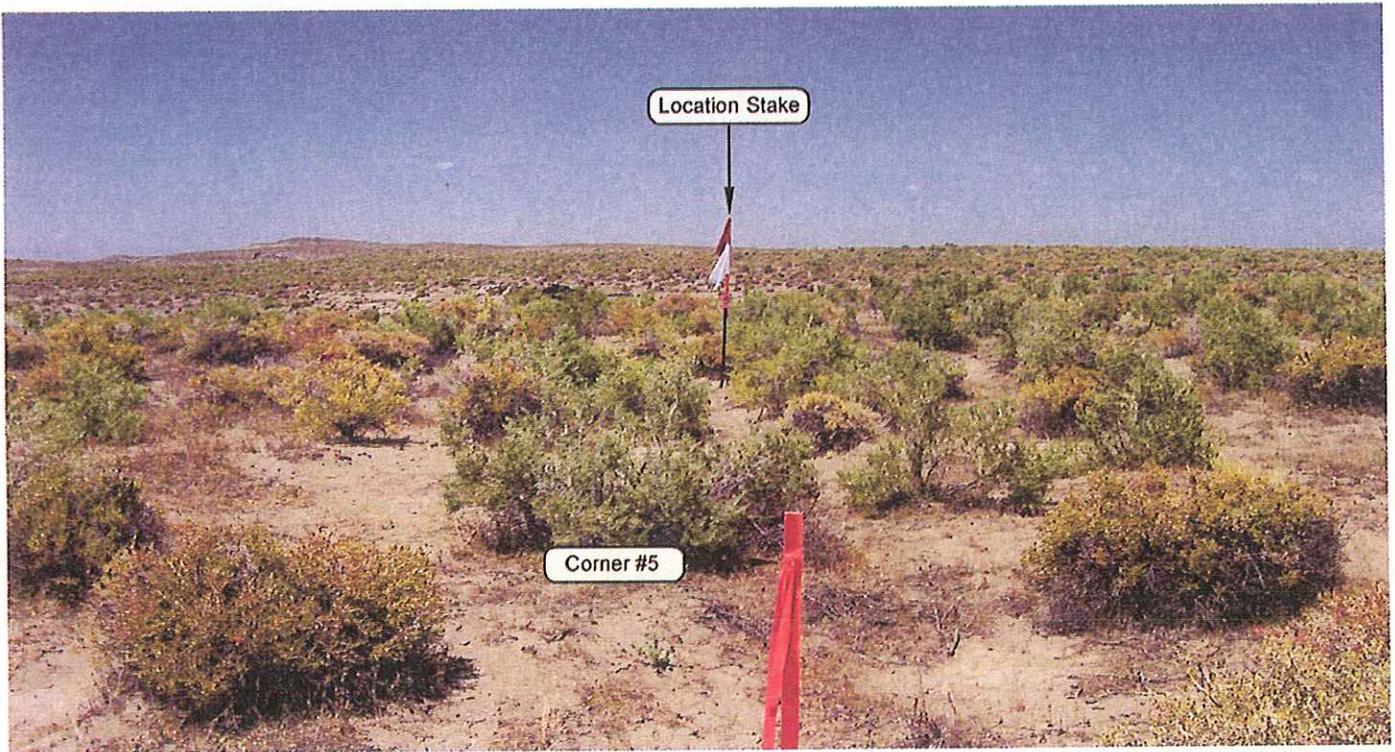


PHOTO VIEW: FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: WESTERLY

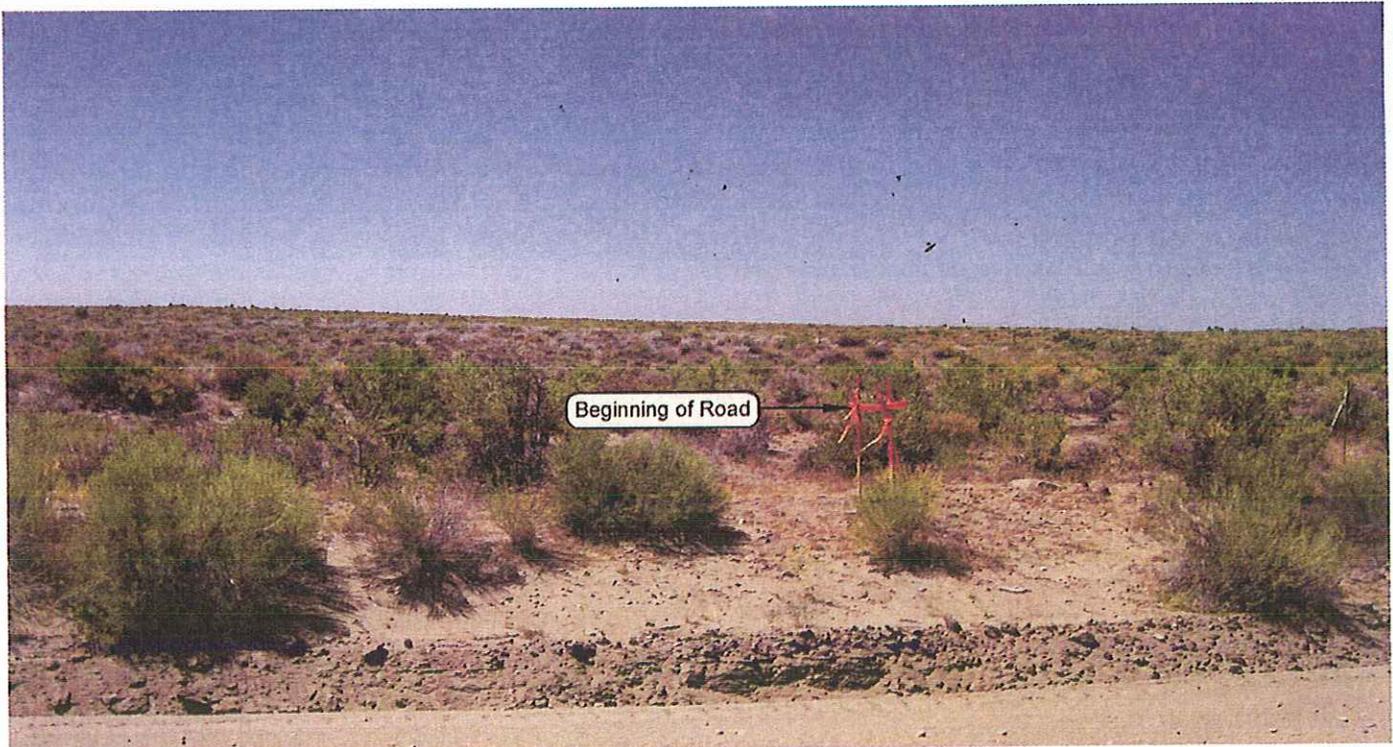


PHOTO VIEW: FROM BEGINNING OF PROPOSED ROAD

CAMERA ANGLE: SOUTHWESTERLY

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

NBU 920-24P
 992' FSL, 462' FEL
 SE 1/4 SE 1/4 OF SECTION 24, T9S, R20E,
 S.L.B.&M. UINTAH COUNTY, UTAH.



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

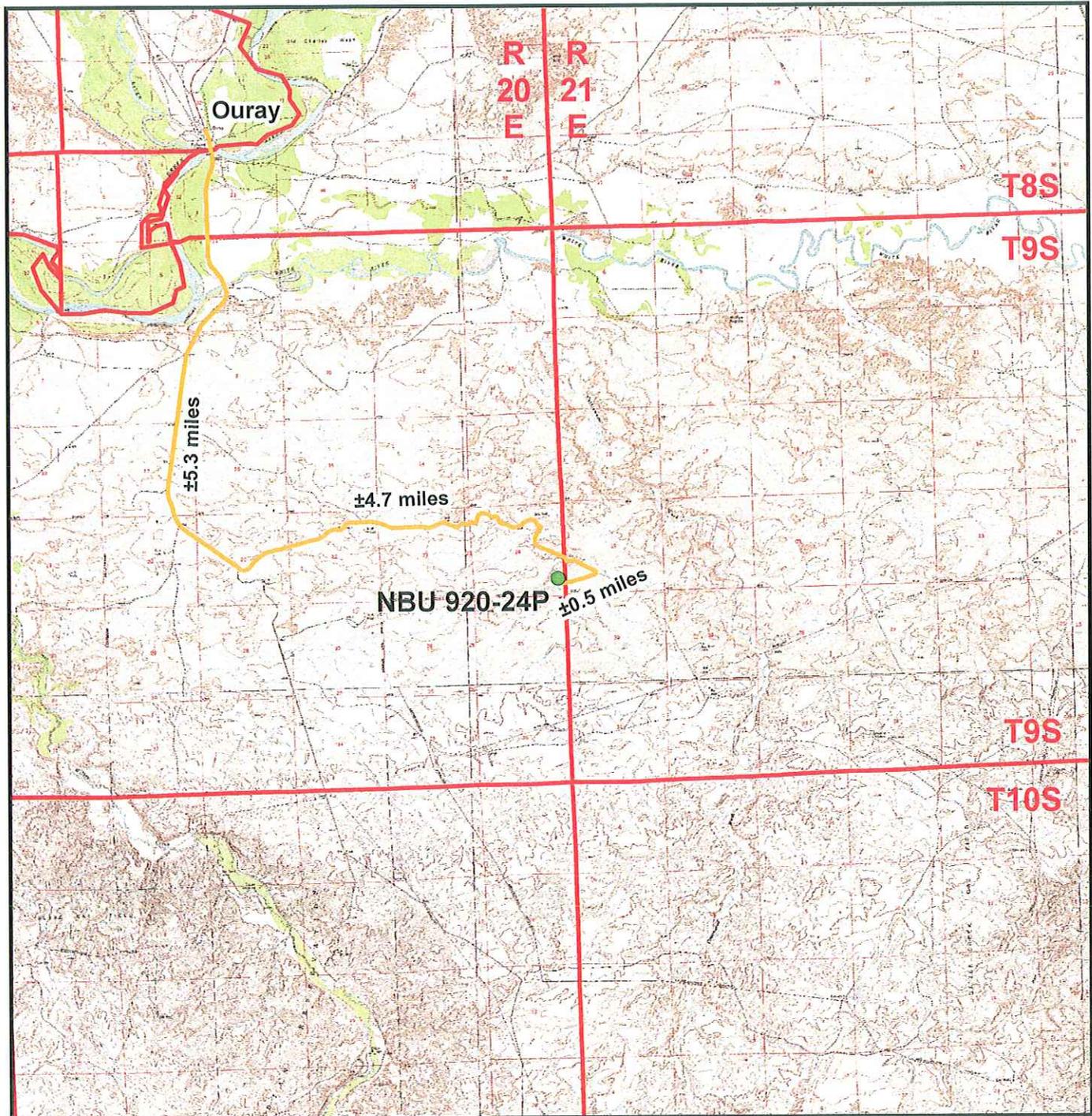
LOCATION PHOTOS		DATE TAKEN: 07-31-08
		DATE DRAWN: 08-04-08
TAKEN BY: M.S.B.	DRAWN BY: M.W.W.	REVISED:
Timberline Engineering & Land Surveying, Inc. 38 WEST 100 NORTH VERNAL, UTAH 84078		(435) 789-1365

SHEET
4
 OF 9

Kerr-McGee Oil & Gas Onshore, LP
NBU 920-24P
Section 24, T9S, R20E, S.L.B.&M.

PROCEED IN A WESTERLY DIRECTION FROM VERNAL, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 13.9 MILES TO THE JUNCTION OF STATE HIGHWAY 88. EXIT LEFT AND PROCEED IN A SOUTHERLY DIRECTION ALONG STATE HIGHWAY 88 APPROXIMATELY 16.8 MILES TO OURAY, UTAH. FROM OURAY, PROCEED IN A SOUTHERLY DIRECTION ALONG THE SEEP RIDGE ROAD (COUNTY B ROAD 2810) APPROXIMATELY 5.3 MILES TO THE INTERSECTION OF AN EXISTING ROAD TO THE EAST. EXIT LEFT AND PROCEED IN A NORTHEASTERLY THEN SOUTHEASTERLY DIRECTION ALONG EXISTING ROAD APPROXIMATELY 4.7 MILES TO THE PROPOSED ACCESS ROAD. FOLLOW ROAD FLAGS IN A SOUTHWESTERLY DIRECTION APPROXIMATELY 2,500 FEET TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 41.2 MILES IN A SOUTHERLY DIRECTION.



Legend

- Proposed NBU 920-24P Well Location
- Access Route - Proposed

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

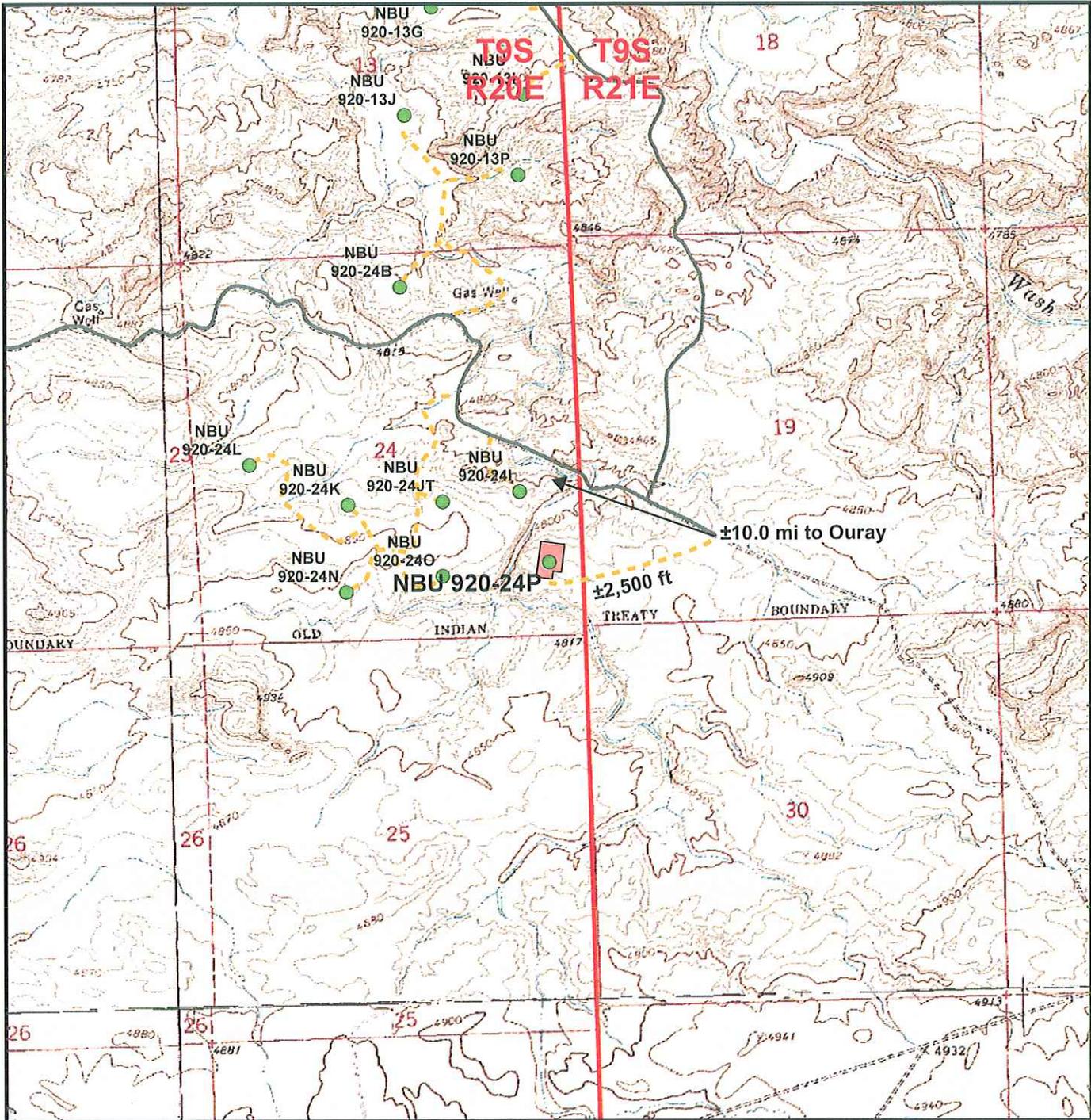
NBU 920-24P
Topo A
 992' FSL, 462' FEL
 SE¼ SE¼, Section 24, T9S, R20E
 S.L.B.&M., Uintah County, Utah



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



Scale: 1:100,000	NAD83 USP Central	Sheet No:
Drawn: JELo	Date: 18 Aug 2008	5
Revised:	Date:	



Legend

- Well - Proposed
- Well Pad
- Road - Proposed
- Road - Existing

Total Proposed Road Length = ±2,500 ft

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

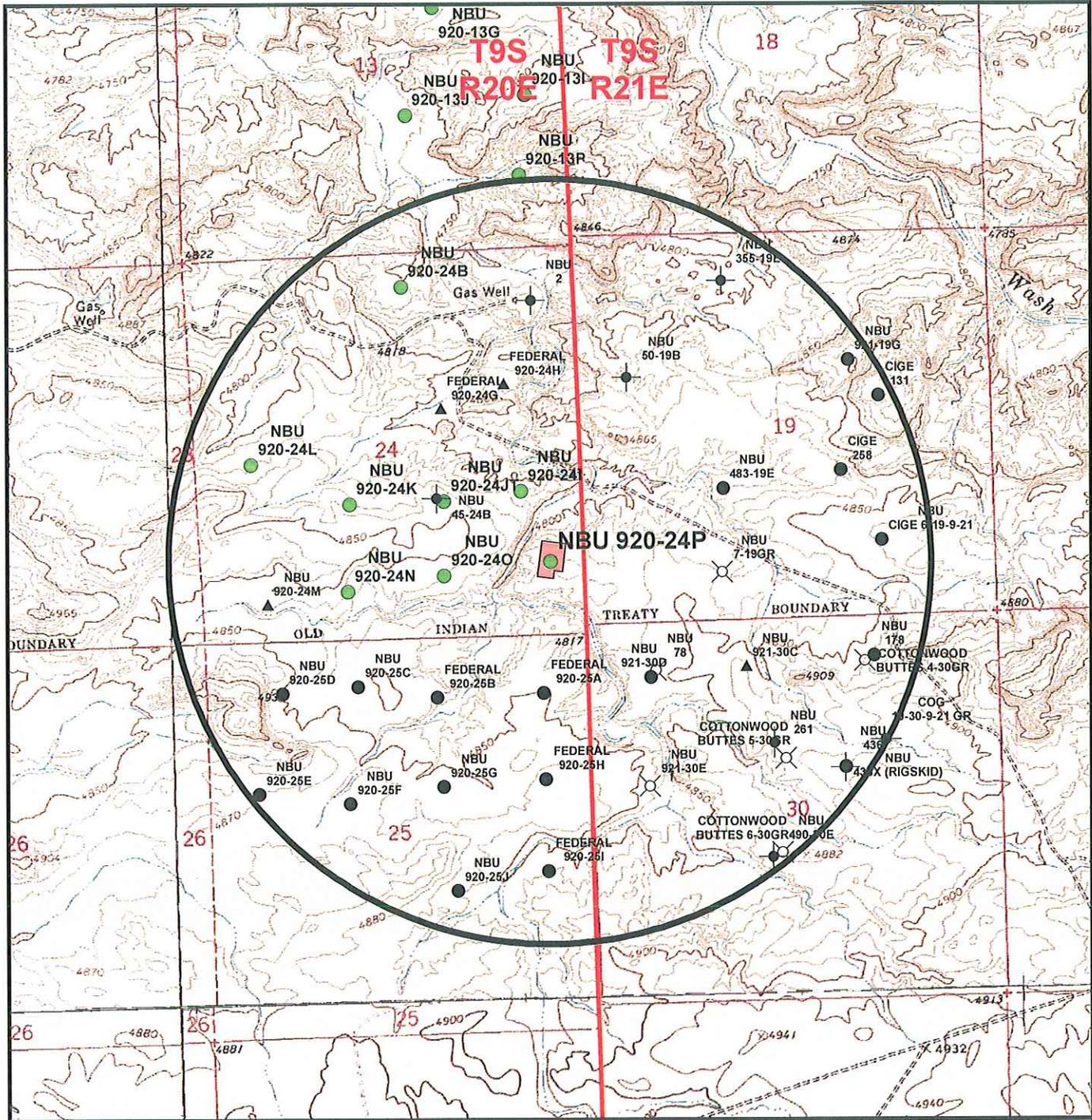
NBU 920-24P
Topo B
992' FSL, 462' FEL
SE¼ SE¼, Section 24, T9S, R20E
S.L.B.&M., Uintah County, Utah



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



Scale: 1" = 2000ft	NAD83 USP Central	Sheet No:
Drawn: JELO	Date: 18 Aug 2008	6
Revised:	Date:	6 of 9



Legend

- Well - Proposed
- Well - 1 Mile Radius
- Well Pad

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

- Producing
- ▲ Approved permit (APD); not yet spudded
- Spudded (Drilling commenced: Not yet complete)
- ⊗ Location Abandoned
- Temporarily-Abandoned
- ⊕ Plugged and Abandoned
- ⊕ Shut-In

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

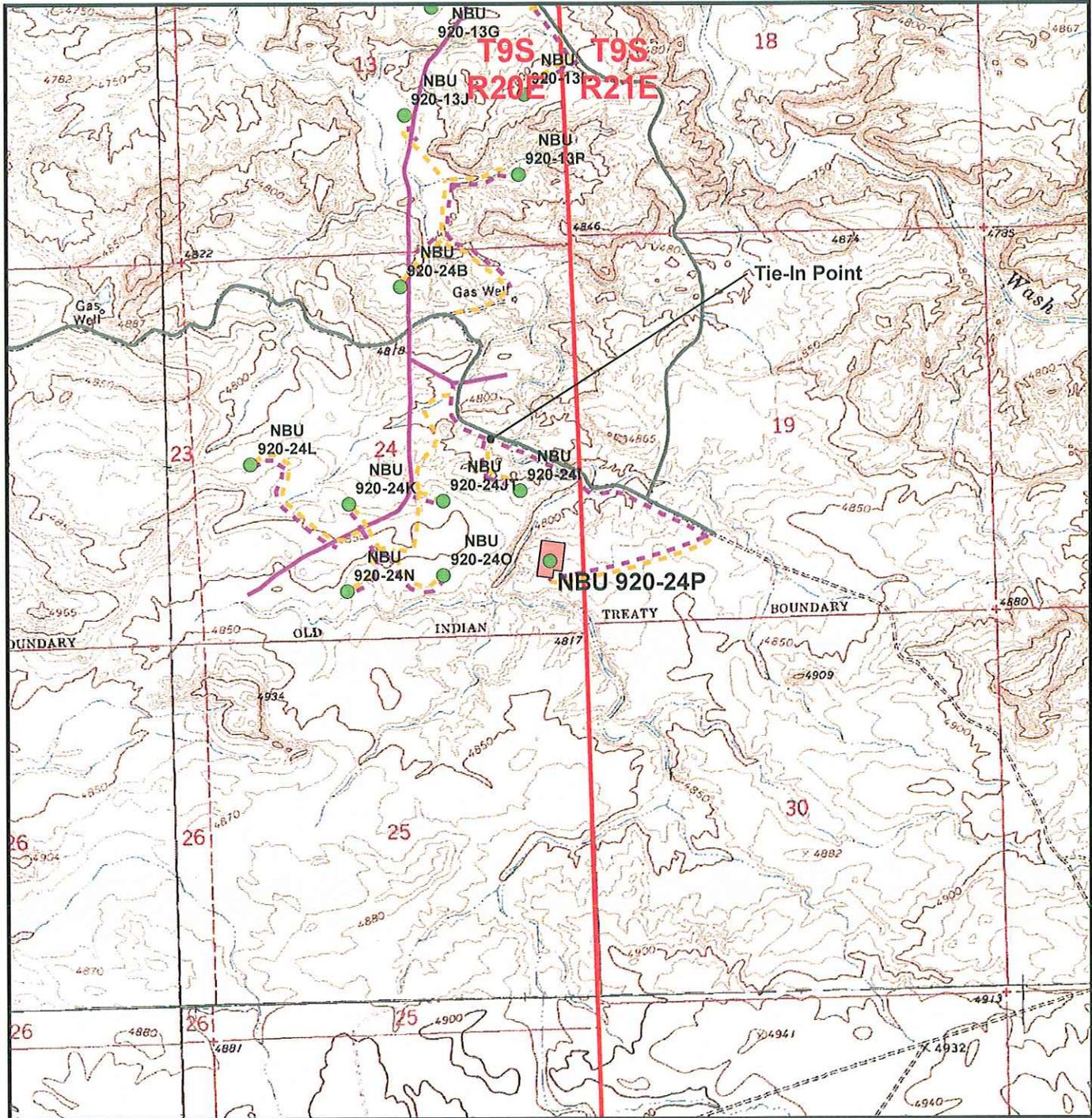
NBU 920-24P
Topo C
992' FSL, 462' FEL
SE¼ SE¼, Section 24, T9S, R20E
S.L.B.&M., Uintah County, Utah



609 CONSULTING, LLC
371 Coffeen Avenue
Sheridan, WY 82801
Phone (307) 674-0609
Fax (307) 674-0182



Scale: 1" = 2000ft	NAD83 USP Central	Sheet No:
Drawn: JELO	Date: 18 Aug 2008	7
Revised:	Date:	7 of 9



Legend

- Well - Proposed
- Well Pad
- - - Pipeline - Proposed
- - - Pipeline - Existing
- - - Road - Proposed
- - - Road - Existing

Total Proposed Pipeline Length: ±6,166ft

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

NBU 920-24P
Topo D
992' FSL, 462' FEL
SE¼ SE¼, Section 24, T9S, R20E
S.L.B.&M., Uintah County, Utah



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



Scale: 1" = 2000ft	NAD83 USP Central
Drawn: JELO	Date: 18 Aug 2008
Revised:	Date:

Sheet No: 8	8 of 9
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API Number: 4304750148

Well Name: NBU 920-24P

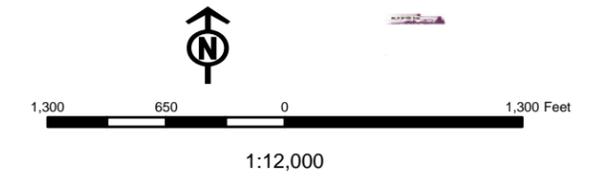
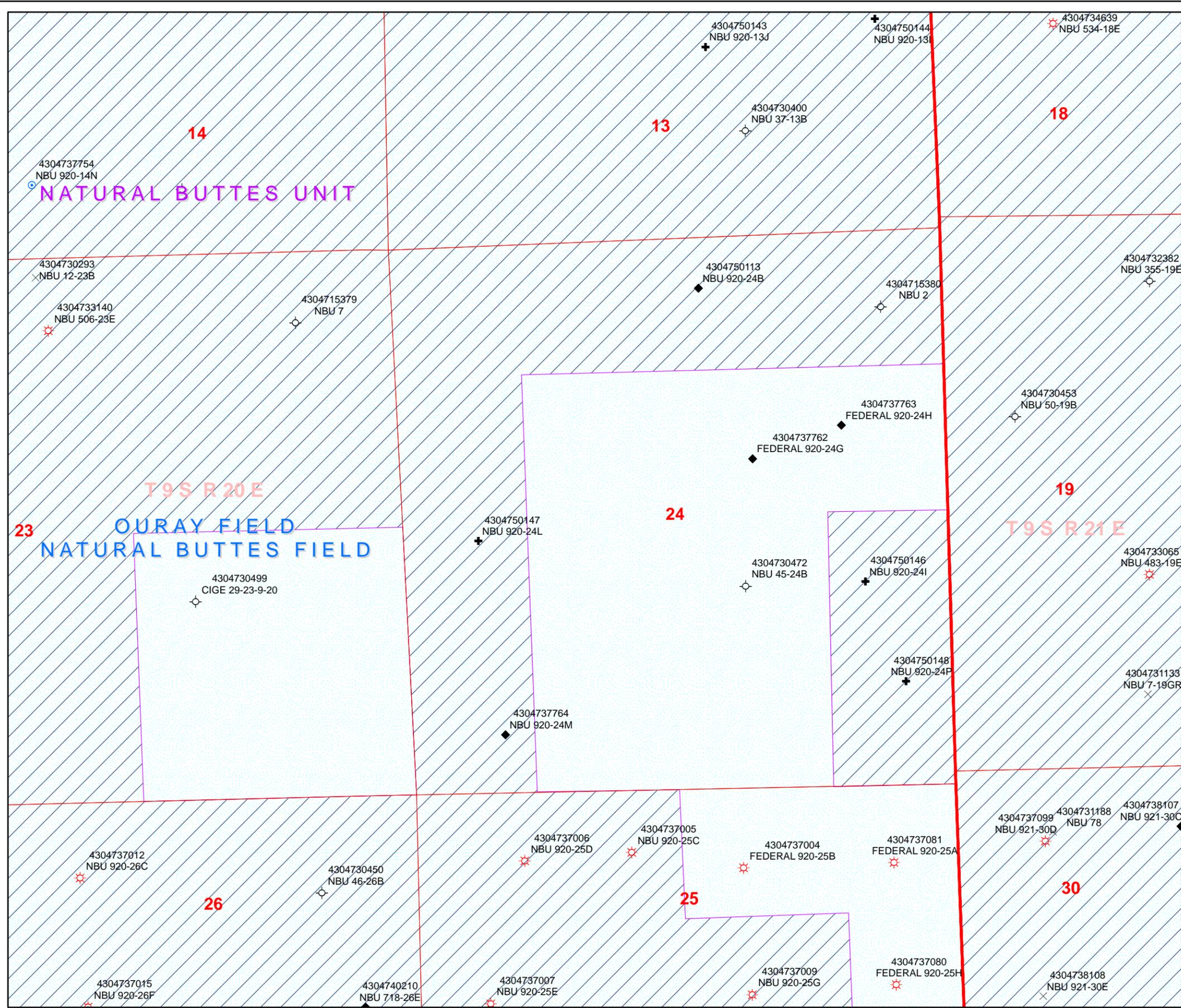
Township 09.0 S Range 20.0 E Section 24

Meridian: SLBM

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

Map Prepared:
Map Produced by Diana Mason

Units	Wells Query Events
STATUS	✕ <all other values>
ACTIVE	GIS_STAT_TYPE
EXPLORATORY	■ <Null>
GAS STORAGE	◆ APD
NF PP OIL	○ DRL
NF SECONDARY	○ GI
PI OIL	⊙ GS
PP GAS	⊙ LA
PP GEOTHERML	⊙ NEW
PP OIL	⊙ OPS
SECONDARY	⊙ PA
TERMINATED	⊙ PGW
Fields	● POW
STATUS	⊙ RET
ACTIVE	⊙ SGW
COMBINED	● SOW
Sections	○ TA
Township	○ WD
	○ WI
	● WS
	⊙ Bottom Hole Location



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office
P.O. Box 45155
Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:

3160
(UT-922)

September 25, 2008

Memorandum

To: Assistant District Manager Minerals, Vernal District
From: Michael Coulthard, Petroleum Engineer
Subject: 2008 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 2008 within the Natural Buttes Unit, Uintah County, Utah.

API # WELL NAME LOCATION

(Proposed PZ WASATCH-MESA VERDE)

43-047-50148 NBU 920-24P Sec 24 T09S R20E 0992 FSL 0462 FEL
43-047-50149 NBU 921-12AT Sec 12 T09S R21E 0643 FNL 0670 FEL
43-047-50147 NBU 920-24L Sec 24 T09S R20E 2519 FSL 0698 FWL
43-047-50146 NBU 920-24I Sec 24 T09S R20E 1983 FSL 0829 FEL

(Proposed PZ MESA VERDE)

43-047-50145 NBU 920-14D Sec 14 T09S R20E 0590 FNL 0835 FWL
43-047-50144 NBU 920-13I Sec 13 T09S R20E 2095 FSL 0549 FEL
43-047-50143 NBU 920-13J Sec 13 T09S R20E 1884 FSL 2217 FEL
43-047-50150 NBU 920-13H Sec 13 T09S R20E 1786 FNL 0658 FEL
43-047-50152 NBU 920-13B Sec 13 T09S R20E 0925 FNL 1555 FEL
43-047-50153 NBU 920-12P Sec 12 T09S R20E 0659 FSL 0471 FEL
43-047-40368 NBU 921-12DT Sec 12 T09S R21E 0905 FNL 0671 FWL

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

/s/ Michael L. Coulthard

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

MCoulthard:mc:9-25-08

**WORKSHEET
APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 9/23/2008

API NO. ASSIGNED: 43047501480000

WELL NAME: NBU 920-24P

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

PHONE NUMBER: 720 929-6226

CONTACT: Kevin McIntyre

PROPOSED LOCATION: SESE 24 090S 200E

Permit Tech Review:

SURFACE: 0992 FSL 0462 FEL

Engineering Review:

BOTTOM: 0992 FSL 0462 FEL

Geology Review:

COUNTY: UINTAH

LATITUDE: 40.01641

LONGITUDE: -109.60620

UTM SURF EASTINGS: 618951.00

NORTHINGS: 4430299.00

FIELD NAME: NATURAL BUTTES

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU-0579

PROPOSED FORMATION: WSMVD

SURFACE OWNER: 2 - Indian

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:** Permit #43-8496
- RDCC Review:**
- Fee Surface Agreement**
- Intent to Commingle**

LOCATION AND SITING:

- R649-2-3.**
Unit: NATURAL BUTTES
 - R649-3-2. General**
 - R649-3-3. Exception**
 - Drilling Unit**
Board Cause No: 173-14
Effective Date: 12/2/1999
Siting: 460' fr u bdry & uncomm. tract
 - R649-3-11. Directional Drill**
-

Comments: Presite Completed

Stipulations: 4 - Federal Approval - dmason
17 - Oil Shale 190-5(b) - dmason



JON M. HUNTSMAN, JR.
Governor

GARY R. HERBERT
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 920-24P
API Well Number: 43047501480000
Lease Number: UTU-0579
Surface Owner: INDIAN
Approval Date: 9/25/2008

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.

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

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 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:

Notify the Division with 24 hours of spudding the well.

- Contact Carol Daniels at (801) 538-5284.

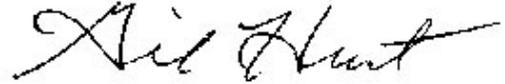
Notify the Division prior to commencing operations to plug and abandon the well.

- Contact Dustin Doucet at (801) 538-5281 office (801) 733-0983 home

Reporting Requirements:

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

Approved By:

A handwritten signature in black ink, appearing to read "Gil Hunt". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

Gil Hunt
Associate Director, Oil & Gas

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-0579
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: Ute 7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: NBU 920-24P
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047501480000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6007 Ext
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0992 FSL 0462 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESE Section: 24 Township: 09.0S Range: 20.0E Meridian: S	9. FIELD and POOL or WILDCAT: NATURAL BUTTES COUNTY: UINTAH STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 9/28/2009	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input checked="" type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: _____

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

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

Approved by the Utah Division of Oil, Gas and Mining

Date: September 30, 2009

By:

NAME (PLEASE PRINT) Danielle Piernot	PHONE NUMBER 720 929-6156	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 9/24/2009	



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43047501480000

API: 43047501480000

Well Name: NBU 920-24P

Location: 0992 FSL 0462 FEL QTR SESE SEC 24 TWP 090S RNG 200E MER S

Company Permit Issued to: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Date Original Permit Issued: 9/29/2008

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

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

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

Signature: Danielle Piernot

Date: 9/24/2009

Title: Regulatory Analyst **Representing:** KERR-MCGEE OIL & GAS ONSHORE, L.P.

Date: September 30, 2009

By: 

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-0579
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: Ute 7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: NBU 920-24P
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047501480000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6007 Ext
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0992 FSL 0462 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESE Section: 24 Township: 09.0S Range: 20.0E Meridian: S	9. FIELD and POOL or WILDCAT: NATURAL BUTTES COUNTY: UINTAH STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 9/29/2010 <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 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 checked="" 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.

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

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

Date: October 06, 2010
 By: 

NAME (PLEASE PRINT) Danielle Piernot	PHONE NUMBER 720 929-6156	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 9/29/2010	



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43047501480000

API: 43047501480000

Well Name: NBU 920-24P

Location: 0992 FSL 0462 FEL QTR SESE SEC 24 TWP 090S RNG 200E MER S

Company Permit Issued to: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Date Original Permit Issued: 9/29/2008

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- Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? Yes No
- Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location? Yes No
- Has the approved source of water for drilling changed? Yes No
- Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? Yes No
- Is bonding still in place, which covers this proposed well? Yes No

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

Signature: Danielle Piernot

Date: 9/29/2010

Title: Regulatory Analyst **Representing:** KERR-MCGEE OIL & GAS ONSHORE,

Date: October 06, 2010

By: 

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-0579
SUNDRY NOTICES AND REPORTS ON WELLS		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute
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.		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
1. TYPE OF WELL Gas Well		8. WELL NAME and NUMBER: NBU 920-24P
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		9. API NUMBER: 43047501480000
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: 0992 FSL 0462 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESE Section: 24 Township: 09.0S Range: 20.0E 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: 8/29/2011 <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 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 checked="" 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.		
<p>Kerr-McGee Oil & Gas Onshore, L.P. (Kerr-McGee) respectfully requests an extension to this APD for the maximum time allowed. Please contact the undersigned with any questions and/or comments. Thank you.</p> <div style="text-align: right;"> <p>Approved by the Utah Division of Oil, Gas and Mining</p> <p>Date: <u>08/29/2011</u></p> <p>By: </p> </div>		
NAME (PLEASE PRINT) Gina Becker	PHONE NUMBER 720 929-6086	TITLE Regulatory Analyst II
SIGNATURE N/A		DATE 8/29/2011



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43047501480000

API: 43047501480000

Well Name: NBU 920-24P

Location: 0992 FSL 0462 FEL QTR SESE SEC 24 TWP 090S RNG 200E MER S

Company Permit Issued to: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Date Original Permit Issued: 9/29/2008

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

- If located on private land, has the ownership changed, if so, has the surface agreement been updated? Yes No

- Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? Yes No

- Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? Yes No

- Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location? Yes No

- Has the approved source of water for drilling changed? Yes No

- Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? Yes No

- Is bonding still in place, which covers this proposed well? Yes No

Signature: Gina Becker

Date: 8/29/2011

Title: Regulatory Analyst II **Representing:** KERR-MCGEE OIL & GAS ONSHORE, L.P.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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VERNAL FIELD OFFICE

2008 SEP 16 AM 10:41

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. UTU-0579
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 Ute
2. Name of Operator Kerr-McGee Oil & Gas Onshore, LP		7. Unit or CA Agreement, Name and No. 08900A
3a. Address P.O. Box 173779, Denver, CO 80217-3779		8. Lease Name and Well No. NBU 920-24P
3b. Phone No. (include area code) 720.929.6226		9. API Well No. 43 047 50148
4. Location of Well (Report location clearly and in accordance with any State requirements.) At surface SESE 992' FSL & 462' FEL LAT 40.01651 LON -109.60624 (NAD 27) At proposed prod. zone N/A		10. Field and Pool, or Exploratory Natural Buttes Field
14. Distance in miles and direction from nearest town or post office* 10 miles southeast of Ouray, Utah		11. Sec., T. R. M. or Blk. and Survey or Area Sec. 24, T 9S, R 20E
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 462'	16. No. of acres in lease 1920	12. County or Parish Uintah
17. Spacing Unit dedicated to this well Unit Well	13. State UT	
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 1500'	19. Proposed Depth 10,300'	20. BLM/BIA Bond No. on file WYB000291
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 4840.4' GL	22. Approximate date work will start*	23. Estimated duration 10 days

24. Attachments

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

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

25. Signature 	Name (Printed/Typed) Kevin McIntyre	Date 09/09/2008
Title Regulatory Analyst I		
Approved by (Signature) 	Name (Printed/Typed) Jerry Kenczka	Date NOV 16 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.

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.

(Continued on page 2)

*(Instructions on page 2)

UDOGM

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NOV 28 2011

DIV. OF OIL, GAS & MINING

NOTICE OF APPROVAL
CONDITIONS OF APPROVAL ATTACHED



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

170 South 500 East

VERNAL, UT 84078

(435) 781-4400



CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company:	Kerr McGee Oil & Gas Onshore LP	Location:	SESE, Sec.24, T9S R20E
Well No:	NBU 920-24P	Lease No:	UTU-0579
API No:	43-047-50148	Agreement:	Natural Buttes

OFFICE NUMBER: (435) 781-4400

OFFICE FAX NUMBER: (435) 781-3420

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

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

NOTIFICATION REQUIREMENTS

Construction Activity
(Notify Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist)

- The Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist shall be notified at least 48 hours in advance of any construction activity. The Ute Tribal office is open Monday through Thursday.

Construction Completion
(Notify Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist)

- Upon completion of the pertinent APD/ROW construction, notify the Ute Tribe Energy & Minerals Dept. for a Tribal Technician to verify the Affidavit of Completion. Notify the BLM Environmental Scientist prior to moving on the drilling rig.

Spud Notice
(Notify BLM Petroleum Engineer)

- Twenty-Four (24) hours prior to spudding the well.

Casing String & Cementing
(Notify BLM Supv. Petroleum Tech.)

- Twenty-Four (24) hours prior to running casing and cementing all casing strings to: blm_ut_vn_opreport@blm.gov

BOP & Related Equipment Tests
(Notify BLM Supv. Petroleum Tech.)

- Twenty-Four (24) hours prior to initiating pressure tests.

First Production Notice
(Notify BLM 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.

Site-Specific Conditions of Approval:

- Paint facilities "Shadow Gray."
- Monitor location by a permitted archaeologist during the construction process.
- Monitor location by a permitted paleontologist during the construction process.
- Follow the procedures specified in the BLM's Hydraulic Considerations for Pipeline Crossings of Stream Channels where the gathering line would cross drainage (BLM, 2007a).
- In accordance with the guidelines specified in the Utah BLM Field Office Guidelines for Raptor Protection from Human and Land Use Disturbances, 2002 a raptor survey should be conducted prior to construction of the proposed location, pipeline, or access road if construction would take place during raptor nesting season (January 1 through September 30). If active raptor nests are identified during a new survey, KMG should conduct its operations according to the seasonal restrictions detailed in the Uinta Basin-specific RMP guidelines and spatial offsets specified by the USFWS Utah Raptor Guidelines (See Appendix D). The USFWS and BLM recommended a ¼-mile avoidance buffer surrounding active burrowing owl nests between March 1 and August 31.
- If project construction operations are not initiated before June 10, 2010, KMB should conduct additional biological surveys in accordance with the guidelines specified in the USFWS Rare Plant Conservation Measures for Uinta Basin hookless Cactus (See Appendix D) and conduct its operations according to its specifications.

BIA Standard Conditions of Approval:

Soil erosion will be mitigated by reseeding all disturbed areas.

- The gathering pipelines will be constructed to lie on the surface. The surface pipelines will not be bladed or cleared of vegetation. Where pipelines are constructed parallel to roads they may be welded on the road and then lifted from the road onto the right-of-way. Where pipelines do not parallel roads but cross-country between sites, they shall be welded in place at well sites or on access roads and then pulled between stations with a suitable piece of equipment. Traffic will be restricted along these areas so that the pipeline right-of-way will not be used as an access road.
- An open drilling system shall be used, unless otherwise specified in 10.0 Additional Stipulations of this document and in the Application for Permit to Drill. A closed drilling system shall be used

in all flood plain areas, and other highly sensitive areas, recommended by the Ute Tribe Technician, BIA, and other agencies involved.

- The reserve pit shall be lined with a synthetic leak proof liner. After the drilling operation is complete, excess fluids shall be removed from the reserve pit and either hauled to an approved disposal site or shall be used to drill other wells. When the fluids are removed the pit shall be backfilled a minimum of 3.0' below the soil surface elevation.
- A closed production system shall be used. This means all produced water and oil field fluid wastes shall be contained in leak proof tanks. These fluids shall be disposed of in either approved injection wells or disposal pits.
- Major low water crossings will be armored with pit run material to protect them from erosion.
- All personnel should refrain from collecting any paleontological fossils and from disturbing any fossil resources in the area.
- If fossils are exposed or identified during construction, all construction must cease and immediate notification to the Energy and Minerals Department and the Cultural Rights Protection Officer.
- Before the site is abandoned the company will be required to restore the right-of-way to near its original state. The disturbed area will be reseeded with desirable perennial vegetation. If necessary, the Bureau of Indian Affairs or Bureau of Land Management will provide a suitable seed mixture.
- Noxious weeds will be controlled on all surface disturbances within the project area. If noxious weeds spread from the project area onto adjoining land, the company will also be responsible for their control.
- If project construction operations are scheduled to occur after December 31, 2009, KMG should conduct annual raptor surveys in accordance with the guidelines specified in the Utah Field Office Guidelines for Raptor Protection from Human and Land Use Disturbances, 2002. If active raptor nest are identified during a new survey, KMG should conduct its operations according to the seasonal restrictions detailed in the Uinta basin-specific RMP guidelines and spatial offsets specified by the USFWS Utah Raptor Guidelines (See Appendix D).
- USFWS threatened and endangered plant and animal conservation measures will be followed, as appropriate to the species identified by the biological resource survey (See Appendix D).
- All personnel should refrain from collecting artifacts and from disturbing any significant cultural resources in the area.
- If artifacts or any culturally sensitive materials are exposed or identified during construction, all construction must cease and immediate notification to the Energy and Minerals Department and the Cultural Rights Protection Officer.

DOWNHOLE PROGRAM CONDITIONS OF APPROVAL (COAs)

SITE SPECIFIC DOWNHOLE COAs:

- Kerr McGee and their contractors shall strictly adhere to all operating practices in the SOP (approved July 28, 2008) along with all Oil and Gas rules and requirements listed in the Code of Federal Regulations and all Federal Onshore Oil and Gas Orders except where variances have been granted.

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

DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

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

(from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.

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

OPERATING REQUIREMENT REMINDERS:

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

performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

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

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-0579
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: Ute
		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: NBU 920-24P	
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047501480000	
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: 0992 FSL 0462 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESE Section: 24 Township: 09.0S Range: 20.0E 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 checked="" type="checkbox"/> SPUD REPORT Date of Spud: 2/1/2012 <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 type="checkbox"/> OTHER	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. MIRU TRIPPLE A BUCKET RIG. DRILLED 20" CONDUCTOR HOLE TO 40'. RAN 14" 36.7# SCHEDULE 10 PIPE. CMT W/28 SX READY MIX. SPUD WELL ON 02/01/2012 AT 0730 HRS.		
		Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY February 01, 2012
NAME (PLEASE PRINT) Sheila Wopsock	PHONE NUMBER 435 781-7024	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 2/1/2012	

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
4304750732	NBU 921-7L		NWSW	7	9S	21E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
A	99999	2900	1/31/2012		2/3/12		
Comments: <u>WSDMD</u> MIRU TRIPPLE A BUCKET RIG. SPUD WELL ON 01/31/2012 AT 0900 HRS.							

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304750731	NBU 921-7F		SENW	7	9S	21E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
A	99999	2900	1/31/2012		2/3/12		
Comments: <u>WSDMD</u> MIRU TRIPPLE A BUCKET RIG. SPUD WELL ON 01/31/2012 AT 1400 HRS							

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304750148	NBU 920-24P		SESE	24	9S	20E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
A	99999	2900	2/1/2012		2/3/12		
Comments: <u>WSDMD</u> MIRU TRIPPLE A BUCKET RIG. SPUD WELL ON 02/01/2012 AT 0730 HRS							

ACTION CODES:

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

SHEILA WOPSOCK

Name (Please Print)

Signature

REGULATORY ANALYST

2/1/2012

Title

Date

RECEIVED

FEB 01 2012

(5/2009)

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 920-24P
 Qtr/Qtr SE/SE Section 24 Township 9S Range 20E
 Lease Serial Number UTU-0579
 API Number 4304750148

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

Date/Time 02/02/2012 0800 HRS AM PM

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

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

RECEIVED
 JAN 31 2012
 DIV. OF OIL, GAS & MINING

Date/Time 03/23/2012 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 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: UTU-0579
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute
1. TYPE OF WELL Gas Well		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 920-24P
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		9. API NUMBER: 43047501480000
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0992 FSL 0462 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESE Section: 24 Township: 09.0S Range: 20.0E Meridian: S		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
		COUNTY: UINTAH
		STATE: UTAH

11.

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 3/5/2012	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input checked="" type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<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.

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.

**Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
March 12, 2012**

NAME (PLEASE PRINT) Jaime Scharnowske	PHONE NUMBER 720 929-6304	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 3/5/2012	

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

NBU 920-24P

Surface: 992 FSL / 462 FEL SESE

Section 24 T9S R20E

Unitah County, Utah
Mineral Lease: UTU-0579

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	1,624'	
Birds Nest	1,868'	Water
Mahogany	2,348'	Water
Wasatch	4,982'	Gas
Mesaverde	8,124'	Gas
Sego	10,371'	Gas
Castlegate	10,460'	Gas
Blackhawk	10,785'	Gas
TVD	11,385'	
TD	11,385'	

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 11385' TVD, approximately equals
7,514 psi (0.66 psi/ft = actual bottomhole gradient)

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

Maximum anticipated surface pressure equals approximately 5,061 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

CASING PROGRAM

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS			
						BURST	COLLAPSE	LTC	DQX
								TENSION	
CONDUCTOR	14"	0-40'							
SURFACE	8-5/8"	0 to 2,800	28.00	IJ-55	LTC	3,390	1,880	348,000	N/A
						1.92	1.43	5.07	N/A
PRODUCTION	4-1/2"	0 to 5,000	11.60	HCP-110	DQX	10,690	8,650	279,000	367,000
						1.19	1.12		3.47
	4-1/2"	5,000 to 11,385'	11.60	HCP-110	LTC	1.19	1.12	4.70	

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	2,300'	65/35 Poz + 6% Gel + 10 pps gilsonite + 0.25 pps Flocele + 3% salt BWOW	210	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	4,475'	Premium Lite II +0.25 pps celloflake + 5 pps gilsonite + 10% gel + 0.5% extender	350	35%	12.00	3.38
	TAIL	6,910'	50/50 Poz/G + 10% salt + 2% gel + 0.1% R-3	1,630	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

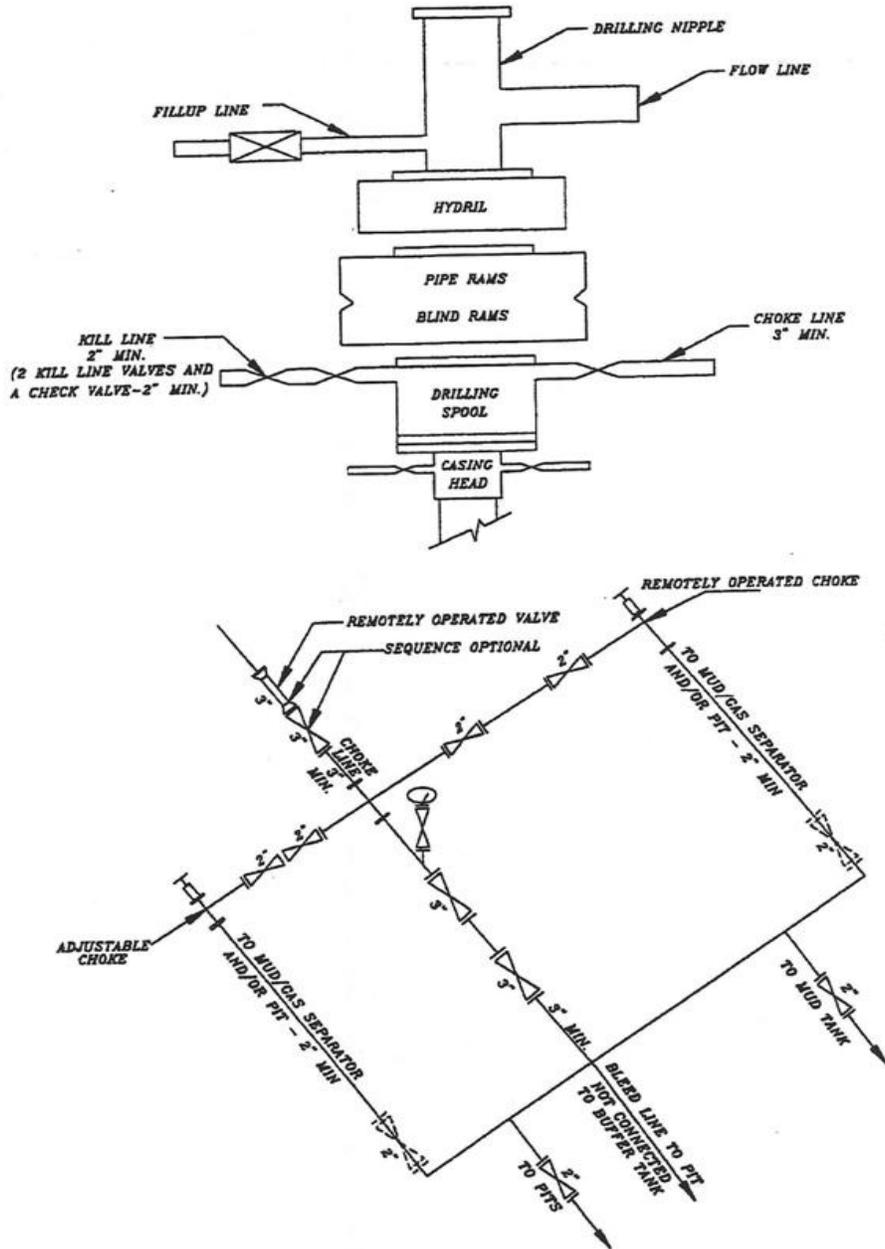
DATE: _____

DRILLING SUPERINTENDENT:

Kenny Gathings / Lovel Young

DATE: _____

EXHIBIT A
NBU 920-24P



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
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: UTU-0579
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
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PHONE NUMBER: 720 929-6514		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
COUNTY: UINTAH		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> ALTER CASING	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR	
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 3/11/2012	<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 type="checkbox"/> PRODUCTION START OR RESUME	
	<input type="checkbox"/> RECLAMATION OF WELL SITE	
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	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
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	<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. MIRU AIR RIG ON MARCH 8, 2012. DRILLED SURFACE HOLE TO 2,830'. 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 March 12, 2012		
NAME (PLEASE PRINT) Jaime Scharnowske	PHONE NUMBER 720 929-6304	TITLE Regularatory Analyst
SIGNATURE N/A	DATE 3/12/2012	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
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11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA	9. FIELD and POOL or WILDCAT: NATURAL BUTTES
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA	COUNTY: Uintah
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA	STATE: UTAH

TYPE OF SUBMISSION	TYPE OF ACTION		
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<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 3/30/2012	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
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	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

MIRU ROTARY RIG. FINISHED DRILLING FROM 2,830' TO 11,408' ON MARCH 28, 2012. RAN 4-1/2" 11.6# P-110 PRODUCING CASING. CEMENTED PRODUCTION CASING. RELEASED PIONEER 54 RIG ON MARCH 30, 2012 @ 14:00 HRS. DETAILS OF CEMENT JOB WILL BE INCLUDED WITH THE WELL COMPLETION REPORT. WELL IS WAITING ON FINAL COMPLETION ACTIVITIES.

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

FOR RECORD ONLY

April 03, 2012

NAME (PLEASE PRINT) Jaime Scharnowske	PHONE NUMBER 720 929-6304	TITLE Regularatory Analyst
SIGNATURE N/A	DATE 4/3/2012	

State of Utah - Notification Form

Operator Anadarko Petroleum Rig Name/# PIONEER 54
Submitted By STUART NEILSON Phone Number 435-790-2921
Well Name/Number NBU 920-24P
Qtr/Qtr SE SE Section 24 Township 9S Range 20E
Lease Serial Number UTU-0579
API Number 4304750148

Casing – Time casing run starts, not cementing times.

- Production Casing
 Other

Date/Time 3/29/12 6 AM PM

RECEIVED
MAR 29 2012
DIV. OF OIL, GAS & MINING

BOPE

- Initial BOPE test at surface casing point
 Other

Date/Time _____ _____ AM PM

Rig Move

Location To: NBU 921-18M

Date/Time 3/30/12 6 AM PM

Remarks

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-0579
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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: 5/7/2012	<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 checked="" 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.		
<p>THE SUBJECT WELL WAS PLACED ON PRODUCTION ON DATE 5/7/2012 AT TIME 5:30 PM THE CHRONOLOGICAL WELL HISTORY WILL BE SUBMITTED WITH THE WELL COMPLETION REPORT.</p>		
<p>Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY May 10, 2012</p>		
NAME (PLEASE PRINT) Cara Mahler	PHONE NUMBER 720 929-6029	TITLE Regulatory Analyst I
SIGNATURE N/A		DATE 5/10/2012

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. **UTU0579**

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No. **UTU63047A**

8. Lease Name and Well No. **NBU 920-24P** ✓

9. API Well No. **43-047-50148**

10. Field and Pool, or Exploratory **NATURAL BUTTES**

11. Sec., T., R., M., or Block and Survey or Area **Sec 24 T9S R20E Mer SLB**

12. County or Parish **UINTAH** 13. State **UT**

14. Date Spudded **02/01/2012** 15. Date T.D. Reached **03/28/2012** 16. Date Completed D & A Ready to Prod. **05/07/2012**

17. Elevations (DF, KB, RT, GL)* **4838 GL**

18. Total Depth: MD **11408** TVD **11404** 19. Plug Back T.D.: MD **11345** TVD **11341** 20. Depth Bridge Plug Set: MD **TVD**

21. Type Electric & Other Mechanical Logs Run (Submit copy of each) **HDL/ZDL/CNGR-BHP-RSL/SM-CBL/COLLARS/GR** **X**

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	2804		680		0	
7.875	4.500 P-110	11.6	0	11389		2290		90	

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	10925							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) MESAVERDE	8641	11240	8641 TO 11240	0.360	264	OPEN
B)						
C)						
D)						

26. Perforation Record

Depth Interval	Amount and Type of Material
8641 TO 11240	PUMP 18,207 BBLs SLICK H2O & 315,826 LBS 30/50 OTTAWA SAND

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

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
05/07/2012	05/14/2012	24	→	0.0	2962.0	360.0			FLOWS FROM WELL
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
20/64	1584	2011.0	→	0	2962	360		PGW	

28a. Production - Interval B

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

(See Instructions and spaces for additional data on reverse side)
ELECTRONIC SUBMISSION #140900 VERIFIED BY THE BLM WELL INFORMATION SYSTEM
** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED **

RECEIVED
JUN 26 2012

DIV. OF OIL, GAS & MINING

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	1689
				BIRD'S NEST	1870
				MAHOGANY	2286
				WASATCH	5020
				MESAVERDE	8146

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. DQX csg was run from surface to 5071?; LTC csg was run from 5071? to 11,389?. 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 #140900 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 06/18/2012

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 920-24P		Spud Date: 3/9/2012	
Project: UTAH-UINTAH		Site: NBU 920-24P	Rig Name No: PROPETRO 12/12, PIONEER 54/54
Event: DRILLING		Start Date: 3/1/2012	End Date: 3/30/2012
Active Datum: RKB @4,857.01ft (above Mean Sea Level)		UWI: SE/SE/0/9/S/20/E/24/0/0/26/PM/S/992/E/0/462/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
3/8/2012	18:30 - 0:00	5.50	DRLSUR	01	F	P		8 MILE MOVE. MIRU WITH JD SERVICES, MOUNTAIN WEST- MOVE RIG AND CAMPS MILES WITH 3 J D FIELD SERVICE TRUCKS. MOVE RIG WITH 3 PRO PETRO CDL DRIVERS - 5 MAN CREWS. RIG UP CAMPS WITH 2 MOUNTAIN WEST SWAMPERS AND 1 ELECTRICIAN, 2 MOUNTAIN WEST TRUCKS, 1 WATER TRUCK. 1 KNOPP MECHANIC AND TRUCK. 95 % OF RIG ON LOCATION BY 0000 hrs. (MOUNTAIN WEST HAULED CAMPS) *INSTALL CONTAINMENTS UNDER FUEL AND HOLE PUMP. SPOT IN RIG AND MUD PUMP. RIG UP CAMPS. COMPLETE RIG UP OF COMPONENTS ON LOCATION. 100% OF RIG ON LOCATION AT 0100 hrs.
3/9/2012	0:00 - 6:00	6.00	DRLSUR	01	B	P		INSTALL DIVERTER HEAD AND BLOWIE LINE, BUILD DITCH, SPOT IN RIG, CATWALK AND PIPE RACKS. RIG UP PIT PUMP. RIG UP HOLE PUMP. INSPECT RIG. PERFORM SAFETY OBSERVATION. HELD PRE JOB SAFETY MEETING.
	6:00 - 8:00	2.00	MIRU	01	B	P		PICK UP 8" 1.83 BEND .17 RPG MUD MOTOR (3 rd RUN) (SN 775-77252). M/U QD507 12.25" BIT (18 th RUN) (SN 7137066). TRIP IN CONDUCTOR TO SPUD. SPUD 03/09/2012 08:30 hrs.
	8:00 - 8:30	0.50	PRPSPD	01	B	P		DRILL 12.25" HOLE 44 ft TO 210 ft (166 FT, 111 FPH).
	8:30 - 10:00	1.50	DRLSUR	02	D	P		WOB 5-15 Kips. GPM 491. PSI ON/OFF 600/400. SURFACE RPM 55, MOTOR 83, TOTAL RPM 138. UP/DOWN/ ROT 20/20/20 K. DRAG 0 Kips . CIRCULATE RESERVE W/8.4 ppg WATER. DRILL DOWN TO 210 ft W/6 in COLLARS. CIRC 15 min. AND TRIP OUT TO CHANGE ASSEMBLY.
	10:00 - 12:00	2.00	DRLSUR	06	A	P		PRE JOB SAFETY MEETING, LAY DOWN 6 in DRILL COLLARS, 12 1/4 in BIT. MAKE UP Q506F 11 in BIT (2 nd RUN) (SN 7138966) PICK UP 8 in DIRECTIONAL ASSEMBLY. INSTALL EM TOOL. TRIP IN HOLE.
	12:00 - 0:00	12.00	DRLSUR	02	D	P		DRILL 11 in. SURFACE HOLE 210 ft TO 1720 ft, (1510 ft, 125 FPH). WOB 15-25 Kips. GPM 491. PSI ON/OFF 1430/1230. SURFACE RPM 55, MOTOR 83, TOTAL RPM 138. UP/DOWN/ ROT 64/58/61 K. DRAG 3 Kips. CIRCULATE RESERVE PIT WITH 8.5 ppg WATER. NO HOLE ISSUES. SLIDING @ 8 PERCENT FOR VERTICAL CONTROL. 3 ft NE OF CENTER AT 1720. INCLINATION < ONE HALF DEGREE.

US ROCKIES REGION
Operation Summary Report

Well: NBU 920-24P		Spud Date: 3/9/2012	
Project: UTAH-UINTAH		Site: NBU 920-24P	Rig Name No: PROPETRO 12/12, PIONEER 54/54
Event: DRILLING		Start Date: 3/1/2012	End Date: 3/30/2012
Active Datum: RKB @4,857.01ft (above Mean Sea Level)		UWI: SE/SE/0/9/S/20/E/24/0/0/26/PM/S/992/E/0/462/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
3/10/2012	0:00 - 16:00	16.00	DRLSUR	02	D	P		DRILL 11in. SURFACE HOLE 1720 ft TO 2830 ft, (1110 ft, 70 FPH). WOB 15-25 Kips. GPM 491. PSI ON/OFF 1980/1790. SURFACE RPM 55, MOTOR 83, TOTAL RPM 138. UP/DOWN/ ROT 80/70/74 K. DRAG 6 Kips. CIRC RESERVE PIT WITH 8.6 ppg WATER. BHL= 2.0 ft.' SE of CENTER @ 2830 ft. (TD)
	16:00 - 18:00	2.00	DRLSUR	05	C	P		PRE-JOB SAFETY MEETING, CIRCULATE AND CONDITION WELLBORE FOR TRIP OUT OF HOLE
	18:00 - 18:15	0.25	DRLSUR	06	D	P		BEGIN TRIP OUT OF HOLE FOR SURFACE CASING.
	18:15 - 18:30	0.25	DRLSUR	07	A	P		PRE-JOB SAFETY MEETING / RIG SERVICE
	18:30 - 21:00	2.50	DRLSUR	06	D	P		TRIP OUT OF HOLE, STOPPED WHEN WINCH LINE FAILED
	21:00 - 0:00	3.00	DRLSUR	08	A	Z		WAIT ON PARTS TO REPAIR WINCH LINE
3/11/2012	0:00 - 3:00	2.00	DRLSUR	08	A	Z		FINISH REPAIRS TO WINCH LINE, CHANGE FUEL FILTERS ON FLOOR MOTOR, SET OUT ONE COLLAR
	3:00 - 5:00	2.00	DRLSUR	06	D	P		FINISH TRIP OUT OF HOLE, LAY DOWN BOTTOM HOLE ASSEMBLY AND DIRECTIONAL TOOLS, MOTOR AND BIT. BREAK DOWN DIRECTIONAL TOOLS FOR INSPECTION. REMOVE UNRELATED- OPERATIONAL TOOLS FROM AREA.
	5:00 - 15:00	10.00	DRLSUR	12	C	P		PRE JOB SAFETY MEETING MOVE PIPE RACKS AND CATWALK. PULL DIVERTER HEAD. RIG UP TO RUN CASING. RUN 64 JOINTS OF 8-5/8 in. 28# J-55 LTC CASING. LAND FLOAT SHOE @ 2790 ft KB. LAND BAFFLE PLATE @ 2750 ft KB. RAN 5 TOTAL CENTRALIZERS. LAND CASING WHILE RIGGING UP CEMENTERS. RAN 120 ft OF 1 lin. PIPE DOWN BACK-SIDE OF CASING.
	15:00 - 15:00	0.00	DRLSUR	12	E	P		PJSM, PRESSURE TEST LINES TO 1500 PSI. PUMP 155 BBLs OF WATER AHEAD. MIX AND PUMP 20 BBLs OF 8.5# GEL WATER AHEAD. MIX AND PUMP (230 sx) 156 BBLs OF 11.8# 3.85 YIELD 5 GAL/SK HYFILL CEMENT W/ 4% CALC AS LEAD. MIX AND PUMP (200 sx) 41 BBLs OF 15.8# 1.15 YIELD 5 GAL/SK PREMIUM CEMENT W/ 4% CALC AS TAIL. DROP PLUG ON FLY. DISPLACE W/ 171 BBLs OF H2O. FULL RETURNS THROUGH OUT JOB. FINAL LIFT OF 600 PSI AT 3 BBL/MIN. BUMP PLUG AT DISPLACEMENT VOLUME. LAND THE PLUG WITH 900 PSI. SHUT DOWN HELD 900 PSI FOR 5 MIN. TESTED FLOAT AND FLOAT HELD. RETURNED 28 BBLs LEAD BACK TO PIT. CEMENT DOWN ONE INCH TREMMIE W/ 150 sx (31 bbls) SAME TAIL CEMENT WITH RETURNS TO SURFACE, TAIL CEMENT TO SURFACE. CEMENT FELL BACK.
	15:00 - 15:00	0.00	DRLSUR	12	E	P		WAIT 1.5 HOURS ON CEMENT, CEMENT DOWN BACKSIDE W/ 100 sx SAME TAIL CEMENT WITH RETURNS TO SURFACE, CEMENT TO SURFACE AND WELL TOPPED OUT. RIG DOWN CEMENTERS. (CEMENT JOB FINISHED AT 14:00 hrs. 3/11/2012) RELEASE RIG AT 14:00 hrs. 3/11/2012.

US ROCKIES REGION
Operation Summary Report

Well: NBU 920-24P		Spud Date: 3/9/2012	
Project: UTAH-UINTAH		Site: NBU 920-24P	Rig Name No: PROPETRO 12/12, PIONEER 54/54
Event: DRILLING		Start Date: 3/1/2012	End Date: 3/30/2012
Active Datum: RKB @4,857.01ft (above Mean Sea Level)		UWI: SE/SE/0/9/S/20/E/24/0/0/26/PM/S/992/E/0/462/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
3/19/2012	8:00 - 17:00	9.00	DRLPRO	01	A	P		RIG MOVE FROM NBU 920-24I, SAFETY MEETING WITH WESTROC, 2 HAUL TRUCKS, 4 BED TRUCKS, 2 SWAMPERS, 2 TRUCK PUSHERS, 1 J&C CRANE, 4 OILERS, TRUCKS AND CRANE RELEASED @1700
	17:00 - 0:00	7.00	DRLPRO	01	A	P		REPAIR WEATHERFORD WELLHEAD ADAPTER, BACK YARD RIGGED UP 100%, RIGGED UP GAS BUSTER, FLARE LINES, FLOW LINES.
3/20/2012	0:00 - 6:00	6.00	DRLPRO	01	B	P		CONTINUING TO RIG UP
	6:00 - 10:00	4.00	DRLPRO	01	B	P		SAFETY MEETING WITH WESTROC AND JC CRANE, 4 BED TRUCKS, 1 HAUL TRUCK, 1 FORKLIFT, 2 SWAMPERS, 2 TRUCK PUSHERS, 4 OILERS, 1 CRANE OPERATOR. RELEASED @1030, DERRICK RAISED@1000
	10:00 - 16:00	6.00	DRLPRO	01	B	P		RIG UP TOP DRIVE, TOP DRIVE SERVICE LOOP, RIG FLOOR
	16:00 - 17:00	1.00	DRLPRO	14	A	P		NIPPLE UP BOPE
	17:00 - 22:00	5.00	DRLPRO	15	A	P		TEST BOPE, RAMS & ALL VALVES 250 LOW 5000 HIGH, ANN 2500, SURFACE CASING 1500 FOR 30 MIN'S
	22:00 - 23:00	1.00	DRLPRO	15	A	P		TEST STRATA LINES TO 3000 PSI
	23:00 - 23:30	0.50	DRLPRO	06	A	P		INSTALL WEAR PUSHING
	23:30 - 0:00	0.50	DRLPRO	06	A	P		RIGGED UP KIMZEY LAYDOWN TRUCK AND SAFETY MEETING, PRESPUD INSPECTION
3/21/2012	0:00 - 6:00	6.00	DRLPRO	06	A	P		TRIPPING IN THE HOLE W/KIMZEY, RIG DOWN
	6:00 - 8:00	2.00	DRLPRO	02	F	P		DRILLING OUT SHOE TRACK, BAFFLE@2783', SHOE@2823', NEW HOLE@2845'
	8:00 - 17:00	9.00	DRLPRO	02	B	P		CLOSED LOOP SYSTEM DRILL F/ 2845' TO 3711', 866' @96.2' PH WOB / 15-20 RPM TOP DRIVE 55-60, MOTOR-135 SPM 120-200 - GPM 351-586 MW 8.6 VIS 29 TRQ ON/OFF = 4000-7000 K PSI ON /OFF 2100-1600, DIFF 250-500 PU/SO/RT = 96/94/95 SLIDE = ROT = 100% STRATA - ON LINE @ 3500' NOV- 2 - DEWATERING 1.6 S & 0.5 E OF TARGET CENTER 10'-15" FLARE DRILL, 10'-20' CONN FLARE
	17:00 - 17:30	0.50	DRLPRO	07	A	P		RIG SERVICE, BOP DRILL 70 SEC, FUNCTION ANN & HCR

US ROCKIES REGION

Operation Summary Report

Well: NBU 920-24P

Spud Date: 3/9/2012

Project: UTAH-UINTAH

Site: NBU 920-24P

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

Event: DRILLING

Start Date: 3/1/2012

End Date: 3/30/2012

Active Datum: RKB @4,857.01ft (above Mean Sea Level)

UWI: SE/SE/0/9/S/20/E/24/0/0/26/PM/S/992/E/0/462/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	17:30 - 0:00	6.50	DRLPRO	02	B	P		CLOSED LOOP SYSTEM DRILL F/ 3711' TO 4460', 749' @115.2' PH WOB / 20-24 RPM TOP DRIVE 60, MOTOR-135 SPM 200 - GPM 586 MW 8.9 VIS 30 TRQ ON/OFF = 4000-7000 K PSI ON /OFF 2100-1600, DIFF 250-500 PU/SO/RT = 96/94/95 SLIDE = ROT = 100% STRATA - ON LINE @ 3500' 80 PSI DRILLING, 100 PSI CONNECTION NOV- 2 - DEWATERING 27.5 S & 2.6 E OF TARGET CENTER
3/22/2012	0:00 - 6:00	6.00	DRLPRO	02	B	P		10'-15" FLARE DRILL, 10'-20' CONN FLARE CLOSED LOOP SYSTEM DRILL F/ 4460' TO 5230', 770' @128.3' PH WOB / 24 RPM TOP DRIVE 60, MOTOR-135 SPM 200 - GPM 586 MW 8.9 VIS 30 TRQ ON/OFF = 4000-7000 K PSI ON /OFF 2100-1600, DIFF 250-500 PU/SO/RT = 96/94/95 SLIDE = ROT = 100% STRATA - ON LINE @ 3500' 80 PSI DRILLING, 100 PSI CONNECTION NOV- 2 - DEWATERING 27.5 S & 2.6 E OF TARGET CENTER
	6:00 - 7:00	1.00	DRLPRO	22	O	S		10'-15" FLARE DRILL, 10'-20' CONN FLARE GAS BUSTER RETURN LINES PACKED OFF, CLEANED OUT
	7:00 - 16:30	9.50	DRLPRO	02	B	P		CLOSED LOOP SYSTEM DRILL F/ 5230' TO 6084', 854' @89.9' PH WOB / 24 RPM TOP DRIVE 60, MOTOR-135 SPM 200 - GPM 586 MW 8.9 VIS 30 TRQ ON/OFF = 4000-7000 K PSI ON /OFF 2100-1600, DIFF 250-500 PU/SO/RT = 135/120/125 SLIDE = 49' IN 0.92 HRS@53.2 PH ROT = 805' IN 8.58 HRS@93.8 PH STRATA - ON LINE @ 3500' 80 PSI DRILLING, 100 PSI CONNECTION NOV- 2 - DEWATERING 2.49 S & 8.47 W OF TARGET CENTER
	16:30 - 17:00	0.50	DRLPRO	07	A	P		10'-15" FLARE DRILL, 10'-20' CONN FLARE LUBRICATE RIG

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 920-24P Spud Date: 3/9/2012
 Project: UTAH-UINTAH Site: NBU 920-24P Rig Name No: PROPETRO 12/12, PIONEER 54/54
 Event: DRILLING Start Date: 3/1/2012 End Date: 3/30/2012
 Active Datum: RKB @4,857.01ft (above Mean Sea Level) UWI: SE/SE/0/9/S/20/E/24/0/0/26/PM/S/992/E/0/462/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	17:00 - 0:00	7.00	DRLPRO	02	B	P		CLOSED LOOP SYSTEM DRILL F/ 6084' TO 6760', 676' @96.5' PH WOB / 24 RPM TOP DRIVE 60, MOTOR-135 SPM 200 - GPM 586 MW 8.9 VIS 30 TRQ ON/OFF = 4000-7000 K PSI ON /OFF 2100-1600, DIFF 250-500 PU/SO/RT =135/120/125 SLIDE = 11' IN 0.17 HRS@64.7 PH ROT = 665' IN 6.83 HRS@97.4 PH STRATA - ON LINE @ 3500' 80 PSI DRILLING, 100 PSI CONNECTION NOV- 2 - DEWATERING 41.4 N & 11.6 W OF TARGET CENTER
3/23/2012	0:00 - 17:00	17.00	DRLPRO	02	B	P		10'-15" FLARE DRILL, 10'-20' CONN FLARE CLOSED LOOP SYSTEM DRILL F/ 6760' TO 7791', 1031' @60.6' PH WOB / 24 RPM TOP DRIVE 60, MOTOR-135 SPM 200 - GPM 586 MW 8.8 VIS 39 TRQ ON/OFF = 4000-7000 K PSI ON /OFF 2100-1600, DIFF 250-500 PU/SO/RT =170/160/165 SLIDE = 21" IN 1.38 HRS@15.2 PH ROT = 1010' IN 15.62 HRS@64.6 PH STRATA - ON LINE @ 3500' 80 PSI DRILLING, 100 PSI CONNECTION NOV- 2 - DEWATERING 68'N & 28'W OF TARGET CENTER
	17:00 - 17:30	0.50	DRLPRO	07	A	P		10'-15" FLARE DRILL, 10'-20' CONN FLARE LUBRICATE RIG, FUNCTION ANN AND HCR, BOP DRILL 70 SEC
	17:30 - 0:00	6.50	DRLPRO	02	B	P		CLOSED LOOP SYSTEM DRILL F/ 7791' TO 8105', 314' @48.3' PH WOB / 24 RPM TOP DRIVE 60, MOTOR-135 SPM 200 - GPM 586 MW 8.8 VIS 39 TRQ ON/OFF = 4000-7000 K PSI ON /OFF 2400-2100, DIFF 250-500 PU/SO/RT =170/160/165 SLIDE = 10' IN 0.42 HRS@23.8 PH ROT = 304' IN 6.08 HRS@50 PH STRATA - ON LINE @ 3500' 80 PSI DRILLING, 100 PSI CONNECTION NOV- 2 - DEWATERING 74.4'N & 35.5'W OF TARGET CENTER 10'-15" FLARE DRILL, 10'-20' CONN FLARE

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 920-24P Spud Date: 3/9/2012
 Project: UTAH-UINTAH Site: NBU 920-24P Rig Name No: PROPETRO 12/12, PIONEER 54/54
 Event: DRILLING Start Date: 3/1/2012 End Date: 3/30/2012
 Active Datum: RKB @4,857.01ft (above Mean Sea Level) UWI: SE/SE/0/9/S/20/E/24/0/0/26/PM/S/992/E/0/462/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
3/24/2012	0:00 - 17:00	17.00	DRLPRO	02	B	P		CLOSED LOOP SYSTEM DRILL F/ 8105' TO 8929', 824' @48.4' PH WOB / 25 RPM TOP DRIVE 60, MOTOR-135 SPM 200 - GPM 586 MW 8.8 VIS 38 TRQ ON/OFF = 4000-7000 K PSI ON /OFF 2400-2100, DIFF 250-500 PU/SO/RT =170/160/165 SLIDE = ROT = 100% STRATA - ON LINE @ 3500' 120-150 PSI DRILL, 150 PSI CONNECTION NOV- 2 - DEWATERING 72'N & 35'W OF TARGET CENTER 10'-15" FLARE DRILL, 10'-20' CONN FLARE LUBRICATE RIG
	17:00 - 17:30	0.50	DRLPRO	07	A	P		LUBRICATE RIG
	17:30 - 0:00	6.50	DRLPRO	02	B	P		CLOSED LOOP SYSTEM DRILL F/ 8929' TO 9245', 316' @48.6' PH WOB / 25 RPM TOP DRIVE 60, MOTOR-135 SPM 200 - GPM 586 MW 8.8 VIS 38 TRQ ON/OFF = 4000-7000 K PSI ON /OFF 2400-2100, DIFF 250-500 PU/SO/RT =195/155/170 SLIDE = ROT = 100% STRATA - ON LINE @ 3500' 120-150 PSI DRILL, 150 PSI CONNECTION NOV- 2 - DEWATERING 61'N & 32'W OF TARGET CENTER 10'-15" FLARE DRILL, 10'-20' CONN FLARE
3/25/2012	0:00 - 16:30	16.50	DRLPRO	02	B	P		CLOSED LOOP SYSTEM DRILL F/ 9245' TO 9974', 729' @44' PH WOB /20-25 RPM TOP DRIVE 60, MOTOR-135 SPM 120- 200 GPM 351- 586 MW 9.0 VIS 38 TRQ ON/OFF = 4000-7000 K PSI ON /OFF 2400-2100, DIFF 250-500 PU/SO/RT =195/155/170 SLIDE = ROT = 100% STRATA - ON LINE @ 3500' 200-250 PSI DRILL, 300 PSI CONNECTION NOV- 2 - CONVENTIONAL 61'N & 32'W OF TARGET CENTER 15'-20' FLARE DRILL, 20' CONN FLARE LUBRICATE RIG, FUNCTION ANN AND HCR, BOP DRILL 70 SEC
	16:30 - 17:00	0.50	DRLPRO	07	A	P		LUBRICATE RIG, FUNCTION ANN AND HCR, BOP DRILL 70 SEC

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 920-24P		Spud Date: 3/9/2012	
Project: UTAH-UINTAH		Site: NBU 920-24P	Rig Name No: PROPETRO 12/12, PIONEER 54/54
Event: DRILLING		Start Date: 3/1/2012	End Date: 3/30/2012
Active Datum: RKB @4,857.01ft (above Mean Sea Level)		UWI: SE/SE/0/9/S/20/E/24/0/0/26/PM/S/992/E/0/462/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	17:00 - 0:00	7.00	DRLPRO	02	B	P		CLOSED LOOP SYSTEM DRILL F/ 9974' TO 10325', 351' @50.1' PH WOB /20-25 RPM TOP DRIVE 60, MOTOR-135 SPM 120- 200 GPM 351- 586 MW 10.2 VIS 38 TRQ ON/OFF = 4000-7000 K PSI ON /OFF 2800-1300, DIFF 100-500 PU/SO/RT =195/155/170 SLIDE = ROT = 100% STRATA - ON LINE @ 3500' 150-300 PSI DRILL, 300 PSI CONNECTION NOV- 2 - CONVENTIONAL 42.2' N & 31.4' W OF TARGET CENTER
3/26/2012	0:00 - 14:30	14.50	DRLPRO	02	B	P		15'-20' FLARE DRILL, 20' CONN FLARE CLOSED LOOP SYSTEM DRILL F/ 10325' TO 10638', 313' @21.5' PH WOB /28 RPM TOP DRIVE 60, MOTOR-135 SPM 120- 200 GPM 351- 586 MW 10.5 VIS 38 TRQ ON/OFF = 4000-7000 K PSI ON /OFF 2800-1300, DIFF 100-500 PU/SO/RT =195/155/170 SLIDE = ROT = 100% STRATA - ON LINE @ 3500' 150-300 PSI DRILL, 300 PSI CONNECTION NOV- 2 - CONVENTIONAL 42.2' N & 31.4' W OF TARGET CENTER
	14:30 - 15:00	0.50	DRLPRO	07	A	P		5-10' FLARE DRILL, 10' CONN FLARE LUBRICATE RIG
	15:00 - 0:00	9.00	DRLPRO	02	B	P		CLOSED LOOP SYSTEM DRILL F/ 10638' TO 10865', 227' @25 PH WOB /28-30 RPM TOP DRIVE 60, MOTOR-135 SPM 120- 200 GPM 351- 586 MW 11.2 VIS 44 TRQ ON/OFF = 4000-7000 K PSI ON /OFF 2800-1300, DIFF 100-500 PU/SO/RT =225/170/201 SLIDE = ROT = 100% STRATA - ON LINE @ 3500' 150 PSI DRILL, 150 PSI CONNECTION NOV- 2 - CONVENTIONAL 37.6' N & 26.7' W OF TARGET CENTER 5-10' FLARE DRILL, 10' CONN FLARE

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 920-24P Spud Date: 3/9/2012
 Project: UTAH-UINTAH Site: NBU 920-24P Rig Name No: PROPETRO 12/12, PIONEER 54/54
 Event: DRILLING Start Date: 3/1/2012 End Date: 3/30/2012
 Active Datum: RKB @4,857.01ft (above Mean Sea Level) UWI: SE/SE/0/9/S/20/E/24/0/0/26/PM/S/992/E/0/462/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
3/27/2012	0:00 - 7:00	7.00	DRLPRO	02	B	P		CLOSED LOOP SYSTEM DRILL F/ 10865' TO 11017', 152'@21.7 PH WOB /28-30 RPM TOP DRIVE 60, MOTOR-135 SPM 120- 200 GPM 351- 586 MW 11.2 VIS 44 TRQ ON/OFF = 4000-7000 K PSI ON /OFF 2800-1300, DIFF 100-500 PU/SO/RT =225/170/201 SLIDE = ROT = 100% STRATA - ON LINE @ 3500' 80 PSI DRILL, 100 PSI CONNECTION NOV- 2 - CONVENTIONAL 35.9' N & 25' W OF TARGET CENTER 5-10' FLARE DRILL, 10' CONN FLARE
	7:00 - 11:30	4.50	DRLPRO	06	A	P		PUMPED PILL, TRIPPED OUT OF HOLE TO CHANGE OUT MOTOR AND BIT
	11:30 - 15:30	4.00	DRLPRO	06	A	P		TRIP IN THE HOLE
	15:30 - 16:30	1.00	DRLPRO	05	B	P		CIRCULATE OUT TRIP GAS
	16:30 - 17:00	0.50	DRLPRO	03	E	P		WASH DOWN LAST 90'
	17:00 - 0:00	7.00	DRLPRO	02	B	P		CLOSED LOOP SYSTEM DRILL F/ 11017' TO 11370', 353'@50.4 PH WOB /22 RPM TOP DRIVE 60, MOTOR-135 SPM 200 GPM 586 MW 11.2 VIS 44 TRQ ON/OFF = 4000-7000 K PSI ON /OFF 2800-1300, DIFF 100-500 PU/SO/RT =225/170/201 SLIDE = ROT = 100% STRATA - ON LINE @ 3500' 80 PSI DRILL, 100 PSI CONNECTION NOV- OFFLINE 35.9' N & 25' W OF TARGET CENTER 5-10' FLARE DRILL, 10' CONN FLARE
3/28/2012	0:00 - 1:00	1.00	DRLPRV	02	B	P		CLOSED LOOP SYSTEM DRILL F/ 11370' TO 11,408', 38' @ 38' PH WOB /22 RPM TOP DRIVE 60, MOTOR-135 SPM 200 GPM 586 MW 11.7 VIS 44 TRQ ON/OFF = 4000-7000 K PSI ON /OFF 2800-1300, DIFF 100-500 PU/SO/RT =225/178/210 SLIDE = ROT = 100% STRATA - ON OFF LINE NOV- OFFLINE 27.72 N & 14.13 W OF TARGET CENTER 0 FLARE DRILL, 10' CONN FLARE
	1:00 - 3:00	2.00	DRLPRV	05	C	P		CIRC & COND HOLE FOR SHORT TRIP
	3:00 - 10:30	7.50	DRLPRV	06	E	P		SHORT TRIP TO SHOE, TIGHT SPOTS @ 5000' & 4500' OUT, CLEAN TRIP IN

US ROCKIES REGION
Operation Summary Report

Well: NBU 920-24P		Spud Date: 3/9/2012	
Project: UTAH-UINTAH		Site: NBU 920-24P	Rig Name No: PROPETRO 12/12, PIONEER 54/54
Event: DRILLING		Start Date: 3/1/2012	End Date: 3/30/2012
Active Datum: RKB @4,857.01ft (above Mean Sea Level)		UWI: SE/SE/0/9/S/20/E/24/0/0/26/PM/S/992/E/0/462/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	10:30 - 11:00	0.50	DRLPRV	07	A	P		SERVICE RIG
	11:00 - 14:00	3.00	DRLPRV	05	C	P		PUMP 2 HIGH VIS SWEEPS & CIRC OUT, FLARE 10' FOR .25 HRS
	14:00 - 18:00	4.00	DRLPRV	06	B	P		TRIP OUT OF HOLE FOR OPEN HOLE LOGS
	18:00 - 21:30	3.50	DRLPRV	11	C	P		HELD SAFETY MEETING WITH RIG & LOGGING CREWS, RIG UP & LOG TO 4400', HIT BRIDGE @ 4400', WORK TIGHT HOLE COULD NOT GET THROUGH, LOG OUT FROM 4400', RIG DOWN
	21:30 - 23:30	2.00	DRLPRV	06	F	P		LOGGER'S LAYDOWN DIR TOOLS, PICKUP BIT & BIT SUB, TRIP IN HOLE TO SHOE
3/29/2012	23:30 - 0:00	0.50	DRLPRV	09	A	P		CUT & SLIP DRILL LINE
	0:00 - 0:30	0.50	DRLPRV	09	A	P		CUT DRILL LINE
	0:30 - 3:30	3.00	DRLPRV	06	E	P		TRIP IN HOLE
	3:30 - 4:00	0.50	DRLPRV	03	D	P		WASH & REAM FROM 11,258' TO 11,408', 10' FLARE FOR 30 MIN'S
	4:00 - 6:00	2.00	DRLPRV	05	C	P		CIRC OUT GAS & COND HOLE TO LAYDOWN DRILL PIPE
	6:00 - 8:30	2.50	DRLPRV	21	E	Z		WAIT ON KIMZEY LAYDOWN TRUCK
	8:30 - 16:00	7.50	DRLPRV	06	D	P		HELD SAFETY MEETING WITH RIG & LAYDOWN CREWS, RIG UP & LAYDOWN DRILL STRING
	16:00 - 16:30	0.50	DRLPRV	14	B	P		PULL WEAR BUSHING
	16:30 - 22:00	5.50	DRLPRV	12	C	P		HELD SAFETY MEETING WITH RIG, CASING CREWS & TSI, RIG UP CASING CREW & RUN
	22:00 - 23:00	1.00	DRLPRV	21	D	Z		WAIT ON KIMZEY TOURQUE TURN COMPUTER
3/30/2012	23:00 - 0:00	1.00	DRLPRV	12	C	P		RUN PROD CASING
	0:00 - 3:30	3.50	DRLPRV	12	C	P		FINISH RUNNING 4.5" PROD CASING, RUN 148 JTS LTC P-110, 120 JTS DQX P-110, BLACKHAWK MARKER @ 10,772', MESA MARKER @ 8,123', X/O @ 5,051', SHOE @ 11,388' FLOAT @ 11,343'
	3:30 - 6:00	2.50	DRLPRV	05	A	P		CIRC OUT GAS, 10' FLARE FOR 30 MIN'S
	6:00 - 10:30	4.50	DRLPRV	12	E	P		HELD SAFETY MEETING WITH RIG & CEMENTER'S, RIG UP & PSI TEST LINES TO 5088, PUMP 25 BBL SPACER, LEAD 490 SACKS 12# 2.26 YLD, TAIL 1800 SACKS 14.3# 1.32 YLD WITH .5% EC-1, DROP PLUG & DISPLACE WITH 176.3 BBLS CLAYCARE WATER, FULL RETURNS THOUGHOUT JOB WITH 60 BBLS CEMENT TO PITS, 2.5 BBLS BACK TO TRUCK, PLUG BACK TO 11,343', EST TOP OF TAIL 3,217', RIG DOWN
	10:30 - 11:00	0.50	DRLPRV	14	B	P		SET C-22 SLIPS WITH 125,000, MAKE ROUGH CUT ON CASING
	11:00 - 12:00	1.00	DRLPRV	14	B	P		NIPPLE DOWN STRATA
	12:00 - 14:00	2.00	DRLPRV	14	B	P		NIPPLE DOWN BOPE'S, CLEAN MUD TANKS & RELEASE RIG TO THE NBU 921-18M @ 14:00 3/30/12

1 General

1.1 Customer Information

Company	US ROCKIES REGION
Representative	
Address	

1.2 Well/Wellbore Information

Well	NBU 920-24P	Wellbore No.	OH
Well Name	NBU 920-24P	Wellbore Name	NBU 920-24P
Report No.	1	Report Date	4/10/2012
Project	UTAH-UINTAH	Site	NBU 920-24P
Rig Name/No.		Event	COMPLETION
Start Date	4/10/2012	End Date	5/7/2012
Spud Date	3/9/2012	Active Datum	RKB @4,857.01ft (above Mean Sea Level)
UWI	SE/SE/0/9/S/20/E/24/0/0/26/PM/S/992/E/0/462/0/0		

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	8,641.0 (ft)-11,240.0 (ft)	Start Date/Time	4/24/2012 12:00AM
No. of Intervals	47	End Date/Time	4/24/2012 12:00AM
Total Shots	264	Net Perforation Interval	84.00 (ft)
Avg Shot Density	3.14 (shot/ft)	Final Surface Pressure	
		Final Press Date	

2 Intervals

2.1 Perforated Interval

Date	Formation/Reservoir	CCL@ (ft)	CCL-T S (ft)	MD Top (ft)	MD Base (ft)	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
4/24/2012 12:00AM	MESAVERDE/			8,641.0	8,642.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO	N

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (ft)	CCL-T S (ft)	MD Top (ft)	MD Base (ft)	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
4/24/2012 12:00AM	MESAVERDE/			8,715.0	8,716.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/24/2012 12:00AM	MESAVERDE/			8,768.0	8,770.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/24/2012 12:00AM	MESAVERDE/			8,794.0	8,796.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/24/2012 12:00AM	MESAVERDE/			8,826.0	8,828.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/24/2012 12:00AM	MESAVERDE/			8,881.0	8,882.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/24/2012 12:00AM	MESAVERDE/			8,933.0	8,935.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/24/2012 12:00AM	MESAVERDE/			8,949.0	8,950.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/24/2012 12:00AM	MESAVERDE/			8,967.0	8,969.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/24/2012 12:00AM	MESAVERDE/			9,040.0	9,042.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/24/2012 12:00AM	MESAVERDE/			9,117.0	9,118.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/24/2012 12:00AM	MESAVERDE/			9,163.0	9,164.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/24/2012 12:00AM	MESAVERDE/			9,198.0	9,200.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/24/2012 12:00AM	MESAVERDE/			9,230.0	9,232.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/24/2012 12:00AM	MESAVERDE/			9,266.0	9,268.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/24/2012 12:00AM	MESAVERDE/			9,349.0	9,351.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
4/24/2012 12:00AM	MESAVERDE/			9,449.0	9,450.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
4/24/2012 12:00AM	MESAVERDE/			9,476.0	9,479.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
4/24/2012 12:00AM	MESAVERDE/			9,554.0	9,556.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/24/2012 12:00AM	MESAVERDE/			9,603.0	9,605.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/24/2012 12:00AM	MESAVERDE/			9,630.0	9,632.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/24/2012 12:00AM	MESAVERDE/			9,667.0	9,669.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	

2.1 Perforated Interval (Continued)

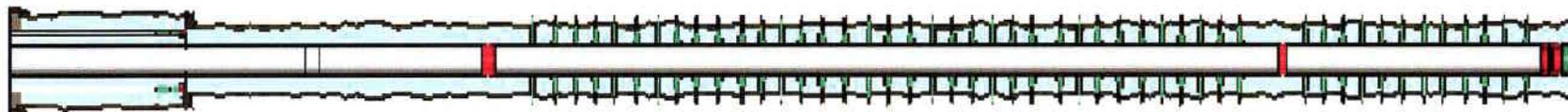
Date	Formation/ Reservoir	CCL@ (ft)	CCL-T S (ft)	MD Top (ft)	MD Base (ft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diamete r (in)	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
4/24/2012 12:00AM	MESAVERDE/			9,712.0	9,714.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
4/24/2012 12:00AM	MESAVERDE/			9,748.0	9,750.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
4/24/2012 12:00AM	MESAVERDE/			9,784.0	9,786.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
4/24/2012 12:00AM	MESAVERDE/			9,946.0	9,948.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/24/2012 12:00AM	MESAVERDE/			9,963.0	9,965.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/24/2012 12:00AM	MESAVERDE/			9,982.0	9,984.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/24/2012 12:00AM	MESAVERDE/			10,038.0	10,040.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/24/2012 12:00AM	MESAVERDE/			10,096.0	10,097.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/24/2012 12:00AM	MESAVERDE/			10,131.0	10,132.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/24/2012 12:00AM	MESAVERDE/			10,176.0	10,177.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/24/2012 12:00AM	MESAVERDE/			10,207.0	10,208.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/24/2012 12:00AM	MESAVERDE/			10,224.0	10,226.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/24/2012 12:00AM	MESAVERDE/			10,240.0	10,242.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/24/2012 12:00AM	MESAVERDE/			10,852.0	10,853.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/24/2012 12:00AM	MESAVERDE/			10,870.0	10,872.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/24/2012 12:00AM	MESAVERDE/			10,891.0	10,892.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/24/2012 12:00AM	MESAVERDE/			10,905.0	10,906.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/24/2012 12:00AM	MESAVERDE/			10,925.0	10,928.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/24/2012 12:00AM	MESAVERDE/			10,958.0	10,961.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/24/2012 12:00AM	MESAVERDE/			11,024.0	11,027.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/24/2012 12:00AM	MESAVERDE/			11,048.0	11,050.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (ft)	CCL-T S (ft)	MD Top (ft)	MD Base (ft)	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
4/24/2012 12:00AM	MESAVERDE/			11,125.0	11,127.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/24/2012 12:00AM	MESAVERDE/			11,150.0	11,152.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/24/2012 12:00AM	MESAVERDE/			11,164.0	11,166.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/24/2012 12:00AM	MESAVERDE/			11,238.0	11,240.0	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 920-24P		Spud Date: 3/9/2012	
Project: UTAH-UINTAH		Site: NBU 920-24P	Rig Name No: GWS 1/1
Event: COMPLETION		Start Date: 4/10/2012	End Date: 5/7/2012
Active Datum: RKB @4,857.01ft (above Mean Sea Level)		UWI: SE/SE/0/9/S/20/E/24/0/0/26/PM/S/992/E/0/462/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
4/10/2012	7:30 - 9:30	2.00	COMP	33		P		HELD SAFETY MEETING: HIGH PRESSURE FILL SURFACE CSG. MIRU B&C QUICK TEST. PSI TEST T/ 1000 PSI. HELD FOR 15 MIN LOST 04 PSI. PSI TEST T/ 3500 PSI. HELD FOR 15 MIN LOST 74 PSI. 1ST PSI TEST T/ 9000 PSI. HELD FOR 30 MIN LOST 58 PSI. NO COMMUNICATION OR MIGRATION WITH SURFACE CSG BLEED OFF PSI. MOVE T/ NEXT WELL. SWMFW
4/11/2012	-							
4/27/2012	7:00 - 7:15	0.25	FRAC	48		P		HSM, SLIPS, TRIPS & FALLS, MOVING RIG
	7:15 - 15:00	7.75	FRAC	30	A	P		RD OFF BON 1023-8A1DS, ROAD RIG, WIND BLOWING TO HARD TO RU, SPOT EQUIP, ND WH, NU BOP, SWI, SDFWE.
4/30/2012	7:00 - 7:15	0.25		48		P		HSM, SLIPS, TRIPS & FALLS, PU TBG
	7:15 - 15:00	7.75		31	I	P		RU RIG, RU FLOOR & TBG EQUIP, SPOT TBG TRAILER INSTAL HAND RAILS ON TRAILER, P/U 3 7/8" BIT, POBS, XN S/N, P/U TBG, REMOVE THREAD PROTECTORS, TALLY & DRIFT L-80 TBG, SWI, SDFN.0
5/1/2012	7:00 - 7:15	0.25		48		P		HSM, SLIPS, TRIPS & FALLS, TRIPPING
	7:15 - 15:00	7.75		31	I	P		PREP & POOH, RD FLOOR & TBG EQUIP, ND BOP, NU F/V, RU FLOOR, P/T F/V TO 9,000 PSI FOR 10 MIN, STEM PACKING LEAKING ON TOP VALVE HAD TO C/O, RETEST F/V, TEST GOOD, MIRU SUPERIOR & J-W WIRELINE, PREP TO PERF & FRAC IN AM, SWI, SDFN.
5/2/2012	6:30 - 6:45	0.25		48		P		HSM, SLIPS, TRIPS & FALLS, WIRELINE & PRESS

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 920-24P		Spud Date: 3/9/2012	
Project: UTAH-UINTAH		Site: NBU 920-24P	Rig Name No: GWS 1/1
Event: COMPLETION		Start Date: 4/10/2012	End Date: 5/7/2012
Active Datum: RKB @4,857.01ft (above Mean Sea Level)		UWI: SE/SE/0/9/S/20/E/24/0/0/26/PM/S/992/E/0/462/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	6:45 - 18:30	11.75		36	E	P		<p>PERF STG 1) PU 3 1/8 EXP GUN, 23 GRM, .36 HOLE SIZE, 120 DEG PHASING, RIH PERF AS PER DESIGN, POOH, X-OVER FOR FRAC CREW. PRIME UP PUMPS & PRESS TEST LINES TO 9,587 PSI, LOST 2,039 PSI, NO VISIBLE LEAKS MUST BE LEAKING BACK THRU PUMPS, MANUAL POPOFF SET @ 8,900 PSI, SURFACE CSG VALVE OPEN & LOCKED.</p> <p>FRAC STG 1) WHP 273 PSI, BRK 4,328 PSI @ 4.8 BPM, ISIP 3,463 PSI, FG .75. CALC PERFS OPEN INJ RATE 49.4 BPM @ 6,905 PSI = 22/24 HOLES OPEN 90%. ISIP 3,789 PSI, FG .78, NPI 326 PSI. MP 8,104 PSI, MR 50.7 BPM, AP 6,395 PSI, AR 46.2 BPM, PUMPED 30/50 TLC SAND. SWI, X-OVER FOR WL.</p> <p>PERF STG 2) PU 4 1/2" 8K HAL CBP & 3 1/8 EXP GUN, 23 GRM, .36 HOLE SIZE. 120 DEG PHASING, RIH SET 8K CBP @ 11,080' P/U PERF AS PER DESIGN, POOH, X-OVER FOR FRAC CREW.</p> <p>FRAC STG 2) WHP 2,640 PSI, BRK 4,603 PSI @ 4.9 BPM, ISIP 3,660 PSI, FG .77. CALC PERFS OPEN INJ RATE 51.9 BPM @ 6,989 PSI = 24/24 HOLES OPEN 100%. ISIP 3,686 PSI, FG .77, NPI 26 PSI. MP 8,022 PSI, MR 52.2 BPM, AP 6,730 PSI, AR 51.6 BPM, PUMPED 30/50 TLC SAND. SWI, X-OVER FOR WL.</p> <p>PERF STG 3) PU 4 1/2" 8K HAL CBP & 3 1/8 EXP GUN, 23 GRM, .36 HOLE SIZE. 120 DEG PHASING, RIH SET 8K CBP @ 10,948' P/U PERF AS PER DESIGN, POOH, X-OVER FOR FRAC CREW.</p> <p>FRAC STG 3) WHP 2,733 PSI, BRK 4,346 PSI @ 4.5 BPM, ISIP 3,432 PSI, FG .75. CALC PERFS OPEN INJ RATE 55.5 BPM @ 7,334 PSI = 24/24 HOLES OPEN 100%. ISIP 3,588 PSI, FG .77, NPI 156 PSI. MP 8,086 PSI, MR 55.5 BPM, AP 6,947 PSI, AR 53 BPM, PUMPED 30/50 TLC SAND. SWI, X-OVER FOR WL.</p> <p>PERF STG 4) PU 4 1/2" 8K HAL CBP & 3 1/8 EXP GUN, 23 GRM, .36 HOLE SIZE. 120 DEG PHASING, RIH SET 8K CBP @ 10,272' P/U PERF AS PER DESIGN, POOH, X-OVER FOR FRAC CREW.</p> <p>FRAC STG 4) WHP 1,749 PSI, BRK 3,478 PSI @ 4.7 BPM, ISIP 2,452 PSI, FG .68. CALC PERFS OPEN INJ RATE 47.3 BPM @ 6,394 PSI = 17/24 HOLES OPEN 70%. ISIP 2,989 PSI, FG .73, NPI 537 PSI.</p>

US ROCKIES REGION
Operation Summary Report

Well: NBU 920-24P Spud Date: 3/9/2012

Project: UTAH-UINTAH Site: NBU 920-24P Rig Name No: GWS 1/1

Event: COMPLETION Start Date: 4/10/2012 End Date: 5/7/2012

Active Datum: RKB @4,857.01ft (above Mean Sea Level) UWI: SE/SE/0/9/S/20/E/24/0/0/26/PM/S/992/E/0/462/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
5/3/2012	7:00 - 7:15	0.25		48		P		MP 6,618 PSI, MR 51.5 BPM, AP 5,717 PSI, AR 49 BPM, PUMPED 30/50 TLC SAND. SWI, X-OVER FOR WL. PERF STG 5) PU 4 1/2" 8K HAL CBP & 3 1/8 EXP GUN, 23 GRM, .36 HOLE SIZE. 120 DEG PHASING, RIH SET 8K CBP @ 10,070' P/U PERF AS PER DESIGN, POOH, SWI, SDFN. HSM, SLIPS, TRIPS & FALLS, PERF & FRAC

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 920-24P

Spud Date: 3/9/2012

Project: UTAH-UINTAH

Site: NBU 920-24P

Rig Name No: GWS 1/1

Event: COMPLETION

Start Date: 4/10/2012

End Date: 5/7/2012

Active Datum: RKB @4,857.01ft (above Mean Sea Level)

UWI: SE/SE/0/9/S/20/E/24/0/0/26/PM/S/992/E/0/462/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	7:15 - 17:30	10.25		36	E	P		<p>FRAC STG 5) WHP 2,201 PSI, BRK 3,808 PSI @ 4.8 BPM, ISIP 2,647 PSI, FG .70. CALC PERFS OPEN INJ RATE 45.6 BPM @ 6,626 PSI = 16/24 HOLES OPEN 66%. ISIP 3,061 PSI, FG .75, NPI 414 PSI. MP 7,129 PSI, MR 50.3 BPM, AP 6,078 PSI, AR 49.6 BPM, PUMPED 30/50 TLC SAND. SWI, X-OVER FOR WL.</p> <p>PERF STG 6) PU 4 1/2" 8K HAL CBP & 3 1/8 EXP GUN, 23 GRM, .36 HOLE SIZE. 90 DEG PHASING, RIH SET 8K CBP @ 9,816' P/U PERF AS PER DESIGN, POOH, X-OVER FOR FRAC CREW.</p> <p>FRAC STG 6) WHP 2,220 PSI, BRK 4,657 PSI @ 4.7 BPM, ISIP 2,846 PSI, FG .73. CALC PERFS OPEN INJ RATE 45.2 BPM @ 6,213 PSI = 20/24 HOLES OPEN 85%. ISIP 3,496 PSI, FG .80, NPI 650 PSI. MP 6,751 PSI, MR 51.4 BPM, AP 6,008 PSI, AR 50.4 BPM, PUMPED 30/50 TLC SAND. SWI, X-OVER FOR WL.</p> <p>PERF STG 7) PU 4 1/2" 8K HAL CBP & 3 1/8 EXP GUN, 23 GRM, .36 HOLE SIZE. 120 DEG PHASING, RIH SET 8K CBP @ 9,699' P/U PERF AS PER DESIGN, POOH, X-OVER FOR FRAC CREW.</p> <p>FRAC STG 7) WHP 2,382 PSI, BRK 4,084 PSI @ 4.7 BPM, ISIP 3,083 PSI, FG .76. CALC PERFS OPEN INJ RATE 41.3 BPM @ 5,482 PSI = 21/24 HOLES OPEN 88%. ISIP 2,949 PSI, FG .75, NPI -134 PSI. MP 6,867 PSI, MR 52.5 BPM, AP 5,489 PSI, AR 51.1 BPM, PUMPED 30/50 TLC SAND. SWI, X-OVER FOR WL.</p> <p>PERF STG 8) PU 4 1/2" 8K HAL CBP & 3 1/8 EXP GUN, 23 GRM, .36 HOLE SIZE. 90 DEG PHASING, RIH SET 8K CBP @ 9,509' P/U PERF AS PER DESIGN, POOH, X-OVER FOR FRAC CREW.</p> <p>FRAC STG 8) WHP 2,647 PSI, BRK 2,861 PSI @ 1 BPM, ISIP 2,658 PSI, FG .72. CALC PERFS OPEN INJ RATE 49.5 BPM @ 6,215 PSI = 19/24 HOLES OPEN 80%. ISIP 2,818 PSI, FG .74, NPI 160 PSI. MP 6,810 PSI, MR 51.4 BPM, AP 5,456 PSI, AR 49.2 BPM, PUMPED 30/50 TLC SAND. SWI, X-OVER FOR WL.</p> <p>PERF STG 9) PU 4 1/2" 8K HAL CBP & 3 1/8 EXP GUN, 23 GRM, .36 HOLE SIZE. 120 DEG PHASING, RIH SET 8K CBP @ 9,298' P/U PERF AS PER DESIGN, POOH, X-OVER FOR FRAC CREW.</p>

US ROCKIES REGION
Operation Summary Report

Well: NBU 920-24P		Spud Date: 3/9/2012	
Project: UTAH-UINTAH		Site: NBU 920-24P	Rig Name No: GWS 1/1
Event: COMPLETION		Start Date: 4/10/2012	End Date: 5/7/2012
Active Datum: RKB @4,857.01ft (above Mean Sea Level)		UWI: SE/SE/0/9/S/20/E/24/0/0/26/PM/S/992/E/0/462/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
								<p>FRAC STG 9) WHP 1,788 PSI, BRK 2,838 PSI @ 4.9 BPM, ISIP 2,131 PSI, FG .67. CALC PERFS OPEN INJ RATE 52 BPM @ 5,950 PSI = 19/24 HOLES OPEN 81%. ISIP 2,756 PSI, FG .74, NPI 625 PSI. MP 6,480 PSI, MR 52.7 BPM, AP 5,585 PSI, AR 52.4 BPM, PUMPED 30/50 TLC SAND. SWI, X-OVER FOR WL.</p> <p>PERF STG 10) PU 4 1/2" 8K HAL CBP & 3 1/8 EXP GUN, 23 GRM, .36 HOLE SIZE. 120 DEG PHASING, RIH SET 8K CBP @ 9,072' P/U PERF AS PER DESIGN, POOH, X-OVER FOR FRAC CREW.</p> <p>FRAC STG 10) WHP 1,076 PSI, BRK 3,789 PSI @ 4.9 BPM, ISIP 2,266 PSI, FG .69. CALC PERFS OPEN INJ RATE 52 BPM @ 5,263 PSI = 24/24 HOLES OPEN 100%. ISIP 2,888 PSI, FG .76, NPI 622 PSI. MP 6,510 PSI, MR 52.6 BPM, AP 5,501 PSI, AR 51.7 BPM, PUMPED 30/50 TLC SAND. SWI, X-OVER FOR WL.</p> <p>PERF STG 11) PU 4 1/2" 8K HAL CBP & 3 1/8 EXP GUN, 23 GRM, .36 HOLE SIZE. 120 DEG PHASING, RIH SET 8K CBP @ 8,858' P/U PERF AS PER DESIGN, POOH, X-OVER FOR FRAC CREW.</p> <p>FRAC STG 11) WHP 1,436 PSI, BRK 4,328 PSI @ 6.8 BPM, ISIP 2,813 PSI, FG .76. CALC PERFS OPEN INJ RATE 46.6 BPM @ 6,150 PSI = 18/24 HOLES OPEN 75%. ISIP 2,956 PSI, FG .78, NPI 143 PSI. MP 7,148 PSI, MR 48.1 BPM, AP 5,991 PSI, AR 47.9 BPM, PUMPED 30/50 TLC SAND. SWI, X-OVER FOR WL.</p> <p>PU 4 1/2" 8K HAL CBP, RIH & SET TOP KILL @ 8,581', POOH, RD SUPERIOR & JW WIRELINE.</p> <p>TOTAL SAND = 315,826 LBS TOTAL CLFL = 18,207 BBLS BIOCIDES = 220 GALLONS SCALE = 387 GALLONS</p>
5/4/2012	7:00 - 7:15	0.25		48		P		HSM, SLIPS, TRIPS & FALLS, TRIPPING, PRESS TESTING
	7:15 - 15:00	7.75		31	I	P		RD FLOOR, ND FV, NU BOP, RU FLOOR & TBG EQUIP, PU 3 7/8" BIT, POBS, 1.875" XN S/N & RIH W/ TBG TO KILL PLUG, RU P/S FILLTBG & BREAK CIRC, P/T BOP TO 4,500 PSI, TEST GOOD, PREP FOR D/O ON MONDAY, SWI, SDFWE.
5/7/2012	7:00 - 7:15	0.25		48		P		HSM, SLIPS, TRIPS & FALLS, D/O PLUGS LANDING TBG

US ROCKIES REGION
Operation Summary Report

Well: NBU 920-24P

Spud Date: 3/9/2012

Project: UTAH-UINTAH

Site: NBU 920-24P

Rig Name No: GW5 1/1

Event: COMPLETION

Start Date: 4/10/2012

End Date: 5/7/2012

Active Datum: RKB @4,857.01ft (above Mean Sea Level)

UWI: SE/SE/0/9/S/20/E/24/0/0/26/PM/S/992/E/0/462/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	7:15 - 19:00	11.75		44	C	P		<p>SICP 100 PSI, OPEN WELL, D/O PLUGS, SURFACE CSG VALVE OPEN & LOCKED.</p> <p>C/O 30' SAND, TAG 1ST PLUG @ 8,591' DRL PLUG IN 11 MIN. 1,100 PSI INCREASE RIH, CSG PRESS 250 PSI.</p> <p>C/O 30' SAND, TAG 2ND PLUG @ 8,858' DRL PLUG IN 10 MIN. 600 PSI INCREASE RIH, CSG PRESS 400 PSI.</p> <p>C/O 20' SAND, TAG 3RD PLUG @ 9,072' DRL PLUG IN 12 MIN. 600 PSI INCREASE RIH, CSG PRESS 500 PSI.</p> <p>C/O 30' SAND, TAG 4TH PLUG @ 9,258' DRL PLUG IN 11 MIN. 300 PSI INCREASE RIH, CSG PRESS 600 PSI.</p> <p>C/O 15' SAND, TAG 5TH PLUG @ 9,509' DRL PLUG IN 10 MIN. 800 PSI INCREASE RIH, CSG PRESS 700 PSI.</p> <p>C/O 20' SAND, TAG 6TH PLUG @ 9,699' DRL PLUG IN 11 MIN. 600 PSI INCREASE RIH, CSG PRESS 700 PSI.</p> <p>C/O 15' SAND, TAG 7TH PLUG @ 9,816' DRL PLUG IN 12 MIN. 600 PSI INCREASE RIH, CSG PRESS 700 PSI.</p> <p>C/O 20' SAND, TAG 8TH PLUG @ 10,070' DRL PLUG IN 10 MIN. 500 PSI INCREASE RIH, CSG PRESS 850 PSI. ((FLOW LINE PLUGGED, TEE WASHED OUT, OPENED BOTH FLOW LINES TO PIT))</p> <p>C/O 20' SAND, TAG 9TH PLUG @ 10,272' DRL PLUG IN 11 MIN. 800 PSI INCREASE RIH, CSG PRESS 500 PSI. ((FLOWLINE PLUGGED))</p> <p>C/O 20' SAND, TAG 10TH PLUG @ 10,948' DRL PLUG IN 12 MIN. 300 PSI INCREASE RIH, CSG PRESS 600 PSI.</p> <p>C/O 15' SAND, TAG 11TH PLUG @ 11,080' DRL PLUG IN 10 MIN. 600 PSI INCREASE RIH, CSG PRESS 600 PSI. ((FLOW LINE PLUGGED))</p> <p>PBTD @ 11,343', BTM PERF @ 11,240', RIH TAGGED @ 11,245', C/O TO 11,325' DRLG HARD TOP OF F/C, 85' PAST BTM PERF W/ 357 JTS 2 3/8" L-80 TBG, LD 13 JTS, PU & STRIP IN TBG HANGER & LAND TBG W/ 344 JTS 2 3/8" L-80, EOT 10,925.14'.</p> <p>RD POWER SWMVEL, FLOOR & TBG EQUIP, ND BOPS, NU WH, DROP BALL TO SHEAR OFF BIT W/</p>

US ROCKIES REGION
Operation Summary Report

Well: NBU 920-24P		Spud Date: 3/9/2012	
Project: UTAH-UINTAH		Site: NBU 920-24P	Rig Name No: GWS 1/1
Event: COMPLETION		Start Date: 4/10/2012	End Date: 5/7/2012
Active Datum: RKB @4,857.01ft (above Mean Sea Level)		UWI: SE/SE/0/9/S/20/E/24/0/0/26/PM/S/992/E/0/462/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
								4,000 PSI, LET BIT FALL FOR 20 MIN. P/T FLOW LINE FROM WH TO HAL 9000 TO 4,500 PSI, W/ RIG PUMP, TEST GOOD, NO VISIBLE LEAKS. TURN WELL OVER TO FLOW BACK CREW, RD & ROAD RIG TO NBU 921-28E PAD. KB= 19' 4 1/16" WEATHERFORD HANGER= .83' TBG DELIVERED 363 JTS 344 JTS 2 3/8" L-80 = 10,903.11' TBG USED 344 JTS POBS= 2.20' TBG RETURNED 19 JTS EOT @ 10,925.14' TWTR= 18,207 BBLS TWR= 2,900 BBLS TWLTR= 15,307 BBLS
	17:30 - 18:00	0.50		50				WELL TURNED TO SALES@ 17:30 HR ON 5/7/2012- 1290 MCFD, 2040 BWP, FCP 3350#, FTP 3043#, 20/64"
5/15/2012	7:00 -			50				WELL IP'D ON 5/15/12 - 3735 MCFD, 0 BOPD, 0 BWP, CP 664#, FTP 3060#, CK 20/64, LP 325#, 24 HRS



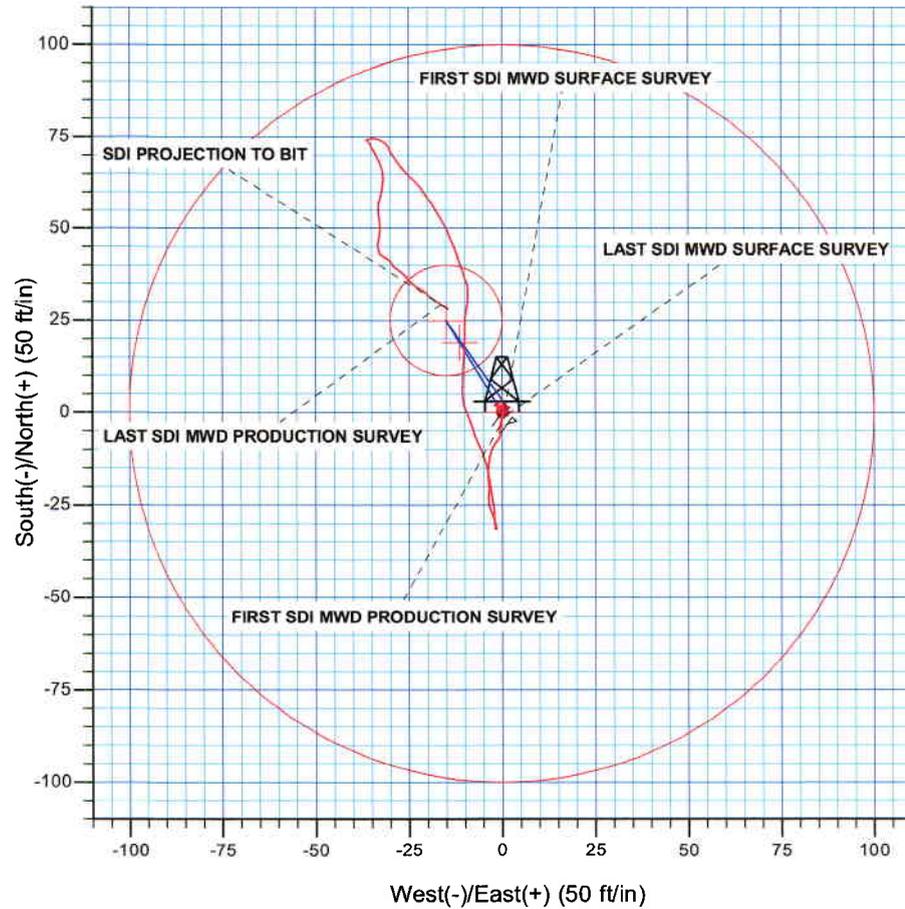
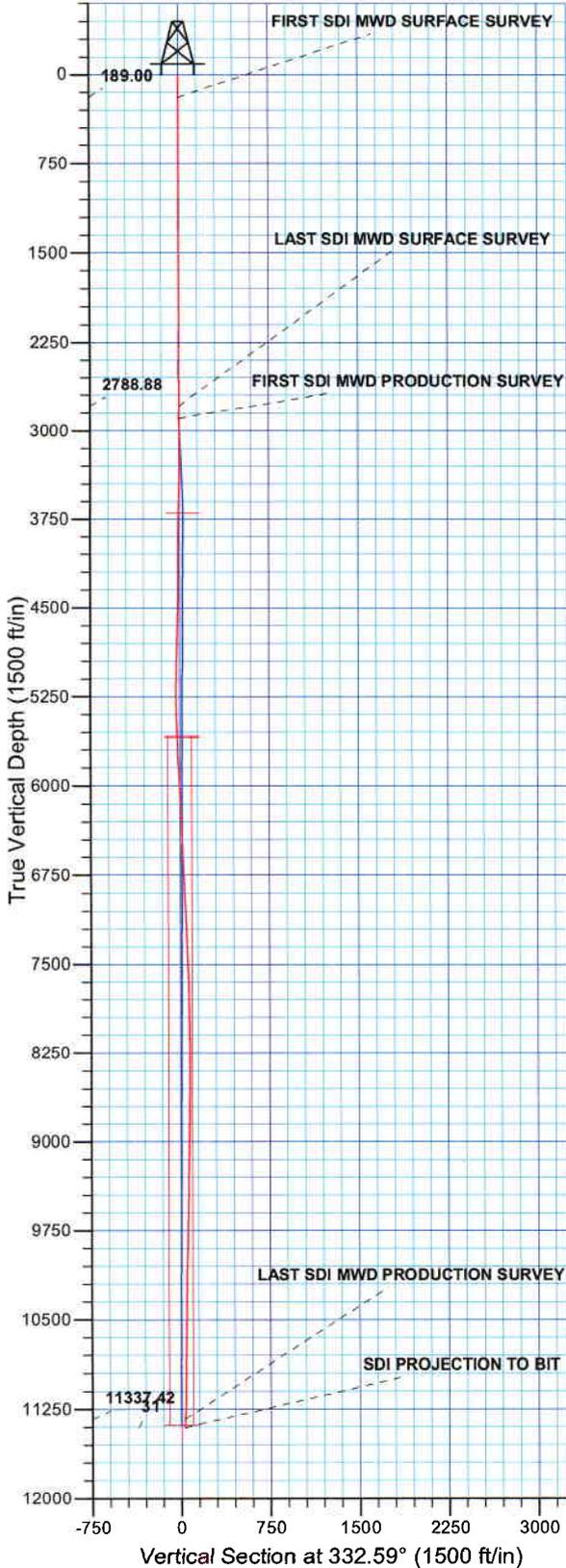
Scientific Drilling
Rocky Mountain Operations

Project: UTAH - UTM (feet), NAD27, Zone 12N
Site: NBU 920-24P
Well: NBU 920-24P
Wellbore: OH
Design: OH



WELL DETAILS: NBU 920-24P					
GL 4838 & KB 19' @ 4857.00ft (PIONEER 54)					
+N/-S 0.00	+E/-W 0.00	Northing 14535108.61	Easting 2030663.46	Latitude 40.016510	Longitude -109.606240

Azimuths to True North
 Magnetic North: 11.03°
 Magnetic Field
 Strength: 52254.3nT
 Dip Angle: 65.84°
 Date: 02/27/2012
 Model: IGRF2010



PROJECT DETAILS: UTAH - UTM (feet), NAD27, Zone 12N
Geodetic System: Universal Transverse Mercator (US Survey Feet)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: Zone 12N (114 W to 108 W)
Location: SECTION 24 T9S R20E
System Datum: Mean Sea Level

Design: OH (NBU 920-24P/OH)
Created By: Gabe Kendall Date: 14:44, April 03 2012



Scientific Drilling
Rocky Mountain Operations

US ROCKIES REGION PLANNING

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

NBU 920-24P

NBU 920-24P

OH

Design: OH

Standard Survey Report

03 April, 2012

Anadarko 
Petroleum Corporation

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well NBU 920-24P
Project:	UTAH - UTM (feet), NAD27, Zone 12N	TVD Reference:	GL 4838 & KB 19' @ 4857.00ft (PIONEER 54)
Site:	NBU 920-24P	MD Reference:	GL 4838 & KB 19' @ 4857.00ft (PIONEER 54)
Well:	NBU 920-24P	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

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

Site	NBU 920-24P, SECTION 24 T9S R20E				
Site Position:		Northing:	14,535,108.62 usft	Latitude:	40.016510
From:	Lat/Long	Easting:	2,030,663.45 usft	Longitude:	-109.606240
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence:	0.90 °

Well	NBU 920-24P, 992 FSL 462 FEL					
Well Position	+N-S	0.00 ft	Northing:	14,535,108.62 usft	Latitude:	40.016510
	+E-W	0.00 ft	Easting:	2,030,663.45 usft	Longitude:	-109.606240
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	4,838.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
	IGRF2010	02/27/12	(°)	(°)	(nT)
			11.03	65.84	52,254

Design	OH				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N-S	+E-W	Direction	
	(ft)	(ft)	(ft)	(°)	
	0.00	0.00	0.00		332.59

Survey Program	Date	04/03/12			
From	To	Survey (Wellbore)	Tool Name	Description	
(ft)	(ft)				
15.00	2,789.00	Survey #1 SDI MWD SURFACE (OH)	SDI MWD	SDI MWD - Standard ver 1.0.1	
2,897.00	11,408.00	Survey #2 SDI MWD PRODUCTION (OH)	SDI MWD	SDI MWD - Standard ver 1.0.1	

Survey										
Measured Depth	Inclination	Azimuth	Vertical Depth	+N-S	+E-W	Vertical Section	Dogleg Rate	Build Rate	Turn Rate	
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	(°/100ft)	(°/100ft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15.00	0.00	0.00	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
189.00	0.53	71.15	189.00	0.26	0.76	-0.12	0.30	0.30	0.00	
FIRST SDI MWD SURFACE SURVEY										
276.00	0.79	48.03	275.99	0.79	1.59	-0.03	0.42	0.30	-26.57	
359.00	0.35	35.46	358.99	1.38	2.16	0.23	0.55	-0.53	-15.14	
449.00	0.88	276.20	448.98	1.68	1.63	0.74	1.22	0.59	-132.51	
539.00	0.86	277.26	538.97	1.84	0.28	1.51	0.03	-0.02	1.18	
629.00	0.79	263.80	628.96	1.86	-1.01	2.11	0.23	-0.08	-14.96	
719.00	0.44	290.52	718.96	1.91	-1.95	2.59	0.49	-0.39	29.69	

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well NBU 920-24P
Project:	UTAH - UTM (feet), NAD27, Zone 12N	TVD Reference:	GL 4838 & KB 19' @ 4857.00ft (PIONEER 54)
Site:	NBU 920-24P	MD Reference:	GL 4838 & KB 19' @ 4857.00ft (PIONEER 54)
Well:	NBU 920-24P	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
809.00	0.57	128.03	808.96	1.76	-1.92	2.44	1.11	0.14	-180.54	
899.00	0.62	103.67	898.95	1.37	-1.10	1.72	0.28	0.06	-27.07	
989.00	0.88	124.59	988.95	0.86	-0.05	0.79	0.42	0.29	23.24	
1,079.00	0.71	116.58	1,078.94	0.22	1.01	-0.27	0.23	-0.19	-8.90	
1,169.00	0.22	148.40	1,168.93	-0.18	1.60	-0.90	0.60	-0.54	35.36	
1,259.00	0.44	238.76	1,258.93	-0.51	1.40	-1.09	0.55	0.24	100.40	
1,349.00	0.44	268.81	1,348.93	-0.69	0.76	-0.96	0.25	0.00	33.39	
1,439.00	0.35	307.84	1,438.93	-0.53	0.19	-0.56	0.31	-0.10	43.37	
1,529.00	0.33	274.74	1,528.93	-0.34	-0.28	-0.17	0.22	-0.02	-36.78	
1,619.00	0.44	343.08	1,618.93	0.01	-0.64	0.30	0.49	0.12	75.93	
1,709.00	0.66	349.76	1,708.92	0.85	-0.83	1.14	0.25	0.24	7.42	
1,829.00	0.79	347.83	1,828.91	2.34	-1.13	2.60	0.11	0.11	-1.61	
1,889.00	0.29	47.20	1,888.91	2.85	-1.11	3.04	1.15	-0.83	98.95	
1,979.00	0.50	111.38	1,978.91	2.86	-0.57	2.80	0.51	0.23	71.31	
2,069.00	0.59	118.28	2,068.90	2.50	0.20	2.12	0.12	0.10	7.67	
2,159.00	0.70	163.70	2,158.90	1.75	0.76	1.20	0.56	0.12	50.47	
2,249.00	0.53	151.13	2,248.89	0.86	1.12	0.25	0.24	-0.19	-13.97	
2,339.00	0.62	165.98	2,338.89	0.02	1.44	-0.64	0.19	0.10	16.50	
2,429.00	0.44	166.25	2,428.88	-0.79	1.64	-1.45	0.20	-0.20	0.30	
2,519.00	0.18	313.55	2,518.88	-1.03	1.62	-1.66	0.67	-0.29	163.67	
2,609.00	0.09	301.77	2,608.88	-0.89	1.45	-1.46	0.10	-0.10	-13.09	
2,699.00	0.03	224.68	2,698.88	-0.87	1.38	-1.41	0.10	-0.07	-85.66	
2,789.00	0.35	36.34	2,788.88	-0.67	1.52	-1.29	0.42	0.36	190.73	
LAST SDI MWD SURFACE SURVEY										
2,897.00	0.36	344.23	2,896.88	-0.07	1.63	-0.82	0.29	0.01	-48.25	
FIRST SDI MWD PRODUCTION SURVEY										
2,992.00	0.24	2.61	2,991.88	0.41	1.56	-0.35	0.16	-0.13	19.35	
3,086.00	0.23	83.13	3,085.88	0.63	1.75	-0.25	0.32	-0.01	85.66	
3,181.00	0.26	279.53	3,180.88	0.69	1.73	-0.18	0.51	0.03	-172.21	
3,276.00	0.09	319.43	3,275.88	0.78	1.47	0.02	0.21	-0.18	42.00	
3,371.00	0.53	210.98	3,370.88	0.46	1.19	-0.14	0.59	0.46	-114.16	
3,466.00	0.70	210.01	3,465.87	-0.42	0.68	-0.68	0.18	0.18	-1.02	
3,561.00	0.92	205.97	3,560.86	-1.61	0.05	-1.45	0.24	0.23	-4.25	
3,656.00	1.13	186.89	3,655.85	-3.22	-0.39	-2.68	0.42	0.22	-20.08	
3,751.00	0.62	179.34	3,750.84	-4.67	-0.50	-3.91	0.55	-0.54	-7.95	
3,846.00	0.53	172.74	3,845.83	-5.62	-0.44	-4.78	0.12	-0.09	-6.95	
3,941.00	0.44	185.75	3,940.83	-6.41	-0.42	-5.50	0.15	-0.09	13.69	
4,035.00	0.88	217.48	4,034.82	-7.35	-0.90	-6.11	0.59	0.47	33.76	
4,130.00	0.53	223.63	4,129.81	-8.24	-1.64	-6.56	0.38	-0.37	6.47	
4,226.00	0.79	212.21	4,225.81	-9.12	-2.30	-7.04	0.30	0.27	-11.90	
4,321.00	1.49	189.88	4,320.79	-10.90	-2.86	-8.35	0.86	0.74	-23.51	
4,416.00	1.14	195.95	4,415.76	-13.02	-3.33	-10.02	0.40	-0.37	6.39	
4,511.00	1.32	184.61	4,510.74	-15.02	-3.68	-11.64	0.32	0.19	-11.94	

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well NBU 920-24P
Project:	UTAH - UTM (feet), NAD27, Zone 12N	TVD Reference:	GL 4838 & KB 19' @ 4857.00ft (PIONEER 54)
Site:	NBU 920-24P	MD Reference:	GL 4838 & KB 19' @ 4857.00ft (PIONEER 54)
Well:	NBU 920-24P	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,606.00	1.85	176.26	4,605.71	-17.64	-3.67	-13.97	0.61	0.56	-8.79
4,701.00	1.67	175.91	4,700.66	-20.55	-3.47	-16.65	0.19	-0.19	-0.37
4,796.00	1.49	188.48	4,795.62	-23.15	-3.55	-18.92	0.41	-0.19	13.23
4,891.00	1.23	164.75	4,890.60	-25.36	-3.47	-20.92	0.65	-0.27	-24.98
4,985.00	1.58	152.27	4,984.57	-27.48	-2.60	-23.20	0.49	0.37	-13.28
5,080.00	1.49	166.42	5,079.54	-29.84	-1.70	-25.71	0.41	-0.09	14.89
5,175.00	0.70	184.43	5,174.52	-31.62	-1.46	-27.40	0.90	-0.83	18.96
5,270.00	0.78	334.09	5,269.52	-31.62	-1.78	-27.25	1.50	0.08	157.54
5,365.00	1.61	2.18	5,364.49	-29.70	-2.02	-25.44	1.04	0.87	29.57
5,460.00	2.90	356.00	5,459.42	-25.97	-2.13	-22.07	1.38	1.36	-6.51
5,555.00	2.36	347.69	5,554.32	-21.66	-2.72	-17.98	0.69	-0.57	-8.75
5,650.00	2.46	348.40	5,649.24	-17.75	-3.54	-14.13	0.11	0.11	0.75
5,745.00	1.77	355.78	5,744.17	-14.29	-4.06	-10.82	0.78	-0.73	7.77
5,840.00	2.81	331.30	5,839.10	-10.79	-5.29	-7.14	1.48	1.09	-25.77
5,935.00	2.55	342.02	5,933.99	-6.73	-7.06	-2.73	0.59	-0.27	11.28
6,029.00	2.90	341.14	6,027.89	-2.49	-8.47	1.68	0.37	0.37	-0.94
6,124.00	1.77	335.68	6,122.80	1.12	-9.85	5.53	1.21	-1.19	-5.75
6,219.00	3.69	358.19	6,217.70	5.51	-10.55	9.75	2.28	2.02	23.69
6,314.00	3.25	2.59	6,312.52	11.25	-10.53	14.84	0.54	-0.46	4.63
6,409.00	3.17	6.72	6,407.37	16.55	-10.10	19.35	0.26	-0.08	4.35
6,504.00	2.55	354.50	6,502.25	21.27	-10.00	23.48	0.91	-0.65	-12.86
6,598.00	2.90	6.72	6,596.15	25.71	-9.92	27.39	0.72	0.37	13.00
6,693.00	2.37	15.16	6,691.05	29.99	-9.12	30.82	0.69	-0.56	8.88
6,788.00	2.64	345.27	6,785.96	34.00	-9.17	34.41	1.39	0.28	-31.46
6,882.00	2.37	339.82	6,879.87	37.92	-10.39	38.45	0.38	-0.29	-5.80
6,977.00	2.02	342.37	6,974.80	41.36	-11.57	42.05	0.38	-0.37	2.68
7,073.00	3.08	339.74	7,070.71	45.39	-12.98	46.27	1.11	1.10	-2.74
7,168.00	3.08	333.06	7,165.57	50.06	-15.02	51.36	0.38	0.00	-7.03
7,262.00	2.46	329.10	7,259.46	54.04	-17.20	55.90	0.69	-0.66	-4.21
7,357.00	2.46	328.93	7,354.37	57.54	-19.30	59.96	0.01	0.00	-0.18
7,451.00	2.55	323.48	7,448.28	60.95	-21.58	64.04	0.27	0.10	-5.80
7,546.00	2.20	308.36	7,543.20	63.78	-24.27	67.79	0.75	-0.37	-15.92
7,641.00	1.58	321.08	7,638.15	65.93	-26.52	70.74	0.78	-0.65	13.39
7,736.00	1.49	325.50	7,733.11	67.97	-28.04	73.25	0.16	-0.09	4.65
7,831.00	1.93	331.39	7,828.07	70.39	-29.51	76.07	0.50	0.46	6.20
7,925.00	0.70	333.94	7,922.05	72.29	-30.52	78.23	1.31	-1.31	2.71
8,020.00	1.07	299.89	8,017.03	73.26	-31.54	79.56	0.66	0.39	-35.84
8,115.00	0.97	298.96	8,112.02	74.09	-33.02	80.97	0.11	-0.11	-0.98
8,210.00	0.79	271.18	8,207.01	74.49	-34.37	81.95	0.48	-0.19	-29.24
8,305.00	0.53	252.99	8,302.00	74.38	-35.45	82.35	0.35	-0.27	-19.15
8,399.00	0.40	229.72	8,396.00	74.04	-36.12	82.35	0.24	-0.14	-24.76
8,494.00	0.18	13.75	8,491.00	73.97	-36.33	82.39	0.59	-0.23	151.61
8,589.00	0.44	116.62	8,586.00	73.95	-35.97	82.21	0.54	0.27	108.28
8,684.00	0.86	165.60	8,680.99	73.10	-35.47	81.22	0.70	0.44	51.56

Company: US ROCKIES REGION PLANNING
Project: UTAH - UTM (feet), NAD27, Zone 12N
Site: NBU 920-24P
Well: NBU 920-24P
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well NBU 920-24P
TVD Reference: GL 4838 & KB 19' @ 4857.00ft (PIONEER 54)
MD Reference: GL 4838 & KB 19' @ 4857.00ft (PIONEER 54)
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)	
8,779.00	0.79	132.14	8,775.98	71.97	-34.81	79.91	0.50	-0.07	-35.22	
8,874.00	1.23	160.00	8,870.97	70.57	-33.97	78.28	0.68	0.46	29.33	
8,970.00	0.79	155.52	8,966.95	69.00	-33.34	76.60	0.47	-0.46	-4.67	
9,064.00	1.14	154.11	9,060.94	67.57	-32.67	75.02	0.37	0.37	-1.50	
9,159.00	1.38	168.88	9,155.92	65.59	-32.03	72.98	0.42	0.25	15.55	
9,254.00	1.26	173.89	9,250.89	63.43	-31.70	70.91	0.18	-0.13	5.27	
9,349.00	1.32	200.96	9,345.87	61.37	-31.98	69.21	0.64	0.06	28.49	
9,444.00	0.88	177.75	9,440.85	59.62	-32.35	67.82	0.65	-0.46	-24.43	
9,540.00	1.02	198.68	9,536.84	58.08	-32.59	66.56	0.39	0.15	21.80	
9,635.00	1.06	197.53	9,631.82	56.44	-33.13	65.35	0.05	0.04	-1.21	
9,730.00	1.67	170.64	9,726.80	54.23	-33.17	63.41	0.91	0.64	-28.31	
9,825.00	1.23	173.54	9,821.77	51.85	-32.83	61.14	0.47	-0.46	3.05	
9,919.00	1.49	178.63	9,915.74	49.63	-32.68	59.10	0.30	0.28	5.41	
10,014.00	1.14	199.99	10,010.71	47.51	-32.98	57.35	0.63	-0.37	22.48	
10,109.00	1.23	175.47	10,105.69	45.60	-33.22	55.77	0.54	0.09	-25.81	
10,203.00	0.70	184.70	10,199.68	44.02	-33.19	54.36	0.59	-0.56	9.82	
10,298.00	0.88	125.55	10,294.67	43.02	-32.64	53.22	0.84	0.19	-62.26	
10,393.00	0.86	119.80	10,389.66	42.24	-31.43	51.97	0.09	-0.02	-6.05	
10,488.00	0.79	127.04	10,484.65	41.49	-30.29	50.78	0.13	-0.07	7.62	
10,583.00	0.70	161.14	10,579.64	40.55	-29.58	49.61	0.47	-0.09	35.89	
10,678.00	0.53	141.81	10,674.64	39.66	-29.12	48.61	0.28	-0.18	-20.35	
10,773.00	1.05	117.33	10,769.63	38.91	-28.07	47.47	0.64	0.55	-25.77	
10,867.00	1.41	136.89	10,863.61	37.67	-26.52	45.65	0.58	0.38	20.81	
10,962.00	1.41	141.46	10,958.58	35.90	-24.99	43.38	0.12	0.00	4.81	
11,057.00	1.32	124.84	11,053.55	34.36	-23.36	41.26	0.43	-0.09	-17.49	
11,152.00	1.58	121.50	11,148.52	33.06	-21.35	39.17	0.29	0.27	-3.52	
11,247.00	2.11	132.58	11,243.47	31.19	-18.94	36.41	0.67	0.56	11.66	
11,341.00	1.93	123.44	11,337.42	29.14	-16.35	33.40	0.39	-0.19	-9.72	
LAST SDI MWD PRODUCTION SURVEY										
11,408.00	1.93	123.44	11,404.38	27.90	-14.47	31.43	0.00	0.00	0.00	
SDI PROJECTION TO BIT										

Design Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
189.00	189.00	0.26	0.76	FIRST SDI MWD SURFACE SURVEY
2,789.00	2,788.88	-0.67	1.52	LAST SDI MWD SURFACE SURVEY
2,897.00	2,896.88	-0.07	1.63	FIRST SDI MWD PRODUCTION SURVEY
11,341.00	11,337.42	29.14	-16.35	LAST SDI MWD PRODUCTION SURVEY
11,408.00	11,404.38	27.90	-14.47	SDI PROJECTION TO BIT



SDI
Survey Report



Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well NBU 920-24P
Project:	UTAH - UTM (feet), NAD27, Zone 12N	TVD Reference:	GL 4838 & KB 19' @ 4857.00ft (PIONEER 54)
Site:	NBU 920-24P	MD Reference:	GL 4838 & KB 19' @ 4857.00ft (PIONEER 54)
Well:	NBU 920-24P	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

Checked By: _____	Approved By: _____	Date: _____
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Scientific Drilling
Rocky Mountain Operations

US ROCKIES REGION PLANNING

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

NBU 920-24P

NBU 920-24P

OH

Design: OH

Survey Report - Geographic

03 April, 2012

Anadarko 
Petroleum Corporation

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well NBU 920-24P
Project:	UTAH - UTM (feet), NAD27, Zone 12N	TVD Reference:	GL 4838 & KB 19' @ 4857.00ft (PIONEER 54)
Site:	NBU 920-24P	MD Reference:	GL 4838 & KB 19' @ 4857.00ft (PIONEER 54)
Well:	NBU 920-24P	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

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

Site	NBU 920-24P, SECTION 24 T9S R20E				
Site Position:	Northing:	14,535,108.62 usft	Latitude:	40.016510	
From:	Lat/Long	Easting:	2,030,663.45 usft	Longitude:	-109.606240
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence:	0.90 °

Well	NBU 920-24P, 992 FSL 462 FEL					
Well Position	+N/-S	0.00 ft	Northing:	14,535,108.62 usft	Latitude:	40.016510
	+E/-W	0.00 ft	Easting:	2,030,663.45 usft	Longitude:	-109.606240
Position Uncertainty	0.00 ft	Wellhead Elevation:	ft	Ground Level:	4,838.00 ft	

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	02/27/12	11.03	65.84	52,254

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	332.59	

Survey Program	Date	04/03/12			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
15.00	2,789.00	Survey #1 SDI MWD SURFACE (OH)	SDI MWD	SDI MWD - Standard ver 1.0.1	
2,897.00	11,408.00	Survey #2 SDI MWD PRODUCTION (OH)	SDI 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	14,535,108.62	2,030,663.45	40.016510	-109.606240
15.00	0.00	0.00	15.00	0.00	0.00	14,535,108.62	2,030,663.45	40.016510	-109.606240
189.00	0.53	71.15	189.00	0.26	0.76	14,535,108.89	2,030,664.21	40.016511	-109.606238
FIRST SDI MWD SURFACE SURVEY									
276.00	0.79	48.03	275.99	0.79	1.59	14,535,109.43	2,030,665.03	40.016512	-109.606235
359.00	0.35	35.46	358.99	1.38	2.16	14,535,110.03	2,030,665.59	40.016514	-109.606233
449.00	0.88	276.20	448.98	1.68	1.63	14,535,110.32	2,030,665.06	40.016515	-109.606234
539.00	0.86	277.26	538.97	1.84	0.28	14,535,110.46	2,030,663.70	40.016515	-109.606239
629.00	0.79	263.80	628.96	1.86	-1.01	14,535,110.46	2,030,662.41	40.016515	-109.606244
719.00	0.44	290.52	718.96	1.91	-1.95	14,535,110.50	2,030,661.47	40.016515	-109.606247
809.00	0.57	128.03	808.96	1.76	-1.92	14,535,110.34	2,030,661.50	40.016515	-109.606247

Company: US ROCKIES REGION PLANNING
Project: UTAH - UTM (feet), NAD27, Zone 12N
Site: NBU 920-24P
Well: NBU 920-24P
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well NBU 920-24P
TVD Reference: GL 4838 & KB 19' @ 4857.00ft (PIONEER 54)
MD Reference: GL 4838 & KB 19' @ 4857.00ft (PIONEER 54)
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	
899.00	0.62	103.67	898.95	1.37	-1.10	14,535,109.96	2,030,662.34	40.016514	-109.606244	
989.00	0.88	124.59	988.95	0.86	-0.05	14,535,109.47	2,030,663.39	40.016512	-109.606240	
1,079.00	0.71	116.58	1,078.94	0.22	1.01	14,535,108.85	2,030,664.46	40.016511	-109.606237	
1,169.00	0.22	148.40	1,168.93	-0.18	1.60	14,535,108.46	2,030,665.06	40.016510	-109.606235	
1,259.00	0.44	238.76	1,258.93	-0.51	1.40	14,535,108.13	2,030,664.86	40.016509	-109.606235	
1,349.00	0.44	268.81	1,348.93	-0.69	0.76	14,535,107.94	2,030,664.22	40.016508	-109.606238	
1,439.00	0.35	307.84	1,438.93	-0.53	0.19	14,535,108.09	2,030,663.66	40.016509	-109.606240	
1,529.00	0.33	274.74	1,528.93	-0.34	-0.28	14,535,108.27	2,030,663.18	40.016509	-109.606241	
1,619.00	0.44	343.08	1,618.93	0.01	-0.64	14,535,108.62	2,030,662.81	40.016510	-109.606243	
1,709.00	0.66	349.76	1,708.92	0.85	-0.83	14,535,109.45	2,030,662.61	40.016512	-109.606243	
1,829.00	0.79	347.83	1,828.91	2.34	-1.13	14,535,110.94	2,030,662.29	40.016517	-109.606244	
1,889.00	0.29	47.20	1,888.91	2.85	-1.11	14,535,111.45	2,030,662.30	40.016518	-109.606244	
1,979.00	0.50	111.38	1,978.91	2.86	-0.57	14,535,111.47	2,030,662.84	40.016518	-109.606242	
2,069.00	0.59	118.28	2,068.90	2.50	0.20	14,535,111.12	2,030,663.61	40.016517	-109.606240	
2,159.00	0.70	163.70	2,158.90	1.75	0.76	14,535,110.38	2,030,664.19	40.016515	-109.606238	
2,249.00	0.53	151.13	2,248.89	0.86	1.12	14,535,109.49	2,030,664.56	40.016512	-109.606236	
2,339.00	0.62	165.98	2,338.89	0.02	1.44	14,535,108.66	2,030,664.89	40.016510	-109.606235	
2,429.00	0.44	166.25	2,428.88	-0.79	1.64	14,535,107.85	2,030,665.10	40.016508	-109.606234	
2,519.00	0.18	313.55	2,518.88	-1.03	1.62	14,535,107.62	2,030,665.09	40.016507	-109.606235	
2,609.00	0.09	301.77	2,608.88	-0.89	1.45	14,535,107.75	2,030,664.92	40.016508	-109.606235	
2,699.00	0.03	224.68	2,698.88	-0.87	1.38	14,535,107.77	2,030,664.84	40.016508	-109.606235	
2,789.00	0.35	36.34	2,788.88	-0.67	1.52	14,535,107.97	2,030,664.99	40.016508	-109.606235	
LAST SDI MWD SURFACE SURVEY										
2,897.00	0.36	344.23	2,896.88	-0.07	1.63	14,535,108.57	2,030,665.08	40.016510	-109.606234	
FIRST SDI MWD PRODUCTION SURVEY										
2,992.00	0.24	2.61	2,991.88	0.41	1.56	14,535,109.05	2,030,665.00	40.016511	-109.606235	
3,086.00	0.23	83.13	3,085.88	0.63	1.75	14,535,109.27	2,030,665.19	40.016512	-109.606234	
3,181.00	0.26	279.53	3,180.88	0.69	1.73	14,535,109.33	2,030,665.17	40.016512	-109.606234	
3,276.00	0.09	319.43	3,275.88	0.78	1.47	14,535,109.42	2,030,664.91	40.016512	-109.606235	
3,371.00	0.53	210.98	3,370.88	0.46	1.19	14,535,109.10	2,030,664.64	40.016511	-109.606236	
3,466.00	0.70	210.01	3,465.87	-0.42	0.68	14,535,108.21	2,030,664.14	40.016509	-109.606238	
3,561.00	0.92	205.97	3,560.86	-1.61	0.05	14,535,107.01	2,030,663.53	40.016506	-109.606240	
3,656.00	1.13	186.89	3,655.85	-3.22	-0.39	14,535,105.39	2,030,663.11	40.016501	-109.606242	
3,751.00	0.62	179.34	3,750.84	-4.67	-0.50	14,535,103.94	2,030,663.03	40.016497	-109.606242	
3,846.00	0.53	172.74	3,845.83	-5.62	-0.44	14,535,103.00	2,030,663.10	40.016495	-109.606242	
3,941.00	0.44	185.75	3,940.83	-6.41	-0.42	14,535,102.20	2,030,663.13	40.016492	-109.606242	
4,035.00	0.88	217.48	4,034.82	-7.35	-0.90	14,535,101.26	2,030,662.67	40.016490	-109.606243	
4,130.00	0.53	223.63	4,129.81	-8.24	-1.64	14,535,100.35	2,030,661.94	40.016487	-109.606246	
4,226.00	0.79	212.21	4,225.81	-9.12	-2.30	14,535,099.46	2,030,661.29	40.016485	-109.606248	
4,321.00	1.49	189.88	4,320.79	-10.90	-2.86	14,535,097.68	2,030,660.76	40.016480	-109.606251	
4,416.00	1.14	195.95	4,415.76	-13.02	-3.33	14,535,095.55	2,030,660.32	40.016474	-109.606252	
4,511.00	1.32	184.61	4,510.74	-15.02	-3.68	14,535,093.54	2,030,660.01	40.016469	-109.606253	
4,606.00	1.85	176.26	4,605.71	-17.64	-3.67	14,535,090.92	2,030,660.06	40.016462	-109.606253	
4,701.00	1.67	175.91	4,700.66	-20.55	-3.47	14,535,088.01	2,030,660.30	40.016454	-109.606253	
4,796.00	1.49	188.48	4,795.62	-23.15	-3.55	14,535,085.41	2,030,660.26	40.016447	-109.606253	
4,891.00	1.23	164.75	4,890.60	-25.36	-3.47	14,535,083.21	2,030,660.38	40.016440	-109.606253	
4,985.00	1.58	152.27	4,984.57	-27.48	-2.60	14,535,081.10	2,030,661.28	40.016435	-109.606250	
5,080.00	1.49	166.42	5,079.54	-29.84	-1.70	14,535,078.75	2,030,662.22	40.016428	-109.606246	
5,175.00	0.70	184.43	5,174.52	-31.62	-1.46	14,535,076.98	2,030,662.49	40.016423	-109.606245	
5,270.00	0.78	334.09	5,269.52	-31.62	-1.78	14,535,076.98	2,030,662.16	40.016423	-109.606247	
5,365.00	1.61	2.18	5,364.49	-29.70	-2.02	14,535,078.89	2,030,661.90	40.016429	-109.606247	
5,460.00	2.90	356.00	5,459.42	-25.97	-2.13	14,535,082.62	2,030,661.73	40.016439	-109.606248	
5,555.00	2.36	347.69	5,554.32	-21.66	-2.72	14,535,086.92	2,030,661.08	40.016451	-109.606250	
5,650.00	2.46	348.40	5,649.24	-17.75	-3.54	14,535,090.81	2,030,660.19	40.016461	-109.606253	
5,745.00	1.77	355.78	5,744.17	-14.29	-4.06	14,535,094.26	2,030,659.62	40.016471	-109.606255	

Company: US ROCKIES REGION PLANNING
Project: UTAH - UTM (feet), NAD27, Zone 12N
Site: NBU 920-24P
Well: NBU 920-24P
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well NBU 920-24P
TVD Reference: GL 4838 & KB 19' @ 4857.00ft (PIONEER 54)
MD Reference: GL 4838 & KB 19' @ 4857.00ft (PIONEER 54)
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	
5,840.00	2.81	331.30	5,839.10	-10.79	-5.29	14,535,097.75	2,030,658.33	40.016480	-109.606259	
5,935.00	2.55	342.02	5,933.99	-6.73	-7.06	14,535,101.77	2,030,656.50	40.016492	-109.606265	
6,029.00	2.90	341.14	6,027.89	-2.49	-8.47	14,535,105.99	2,030,655.02	40.016503	-109.606271	
6,124.00	1.77	335.68	6,122.80	1.12	-9.85	14,535,109.58	2,030,653.58	40.016513	-109.606275	
6,219.00	3.69	358.19	6,217.70	5.51	-10.55	14,535,113.96	2,030,652.81	40.016525	-109.606278	
6,314.00	3.25	2.59	6,312.52	11.25	-10.53	14,535,119.71	2,030,652.75	40.016541	-109.606278	
6,409.00	3.17	6.72	6,407.37	16.55	-10.10	14,535,125.01	2,030,653.09	40.016556	-109.606276	
6,504.00	2.55	354.50	6,502.25	21.27	-10.00	14,535,129.72	2,030,653.13	40.016568	-109.606276	
6,598.00	2.90	6.72	6,596.15	25.71	-9.92	14,535,134.17	2,030,653.13	40.016581	-109.606276	
6,693.00	2.37	15.16	6,691.05	29.99	-9.12	14,535,138.46	2,030,653.86	40.016592	-109.606273	
6,788.00	2.64	345.27	6,785.96	34.00	-9.17	14,535,142.47	2,030,653.76	40.016603	-109.606273	
6,882.00	2.37	339.82	6,879.87	37.92	-10.39	14,535,146.37	2,030,652.47	40.016614	-109.606277	
6,977.00	2.02	342.37	6,974.80	41.36	-11.57	14,535,149.79	2,030,651.24	40.016624	-109.606282	
7,073.00	3.08	339.74	7,070.71	45.39	-12.98	14,535,153.80	2,030,649.77	40.016635	-109.606287	
7,168.00	3.08	333.06	7,165.57	50.06	-15.02	14,535,158.44	2,030,647.66	40.016648	-109.606294	
7,262.00	2.46	329.10	7,259.46	54.04	-17.20	14,535,162.39	2,030,645.41	40.016658	-109.606302	
7,357.00	2.46	328.93	7,354.37	57.54	-19.30	14,535,165.85	2,030,643.26	40.016668	-109.606309	
7,451.00	2.55	323.48	7,448.28	60.95	-21.58	14,535,169.22	2,030,640.92	40.016677	-109.606317	
7,546.00	2.20	308.36	7,543.20	63.78	-24.27	14,535,172.01	2,030,638.19	40.016685	-109.606327	
7,641.00	1.58	321.08	7,638.15	65.93	-26.52	14,535,174.12	2,030,635.90	40.016691	-109.606335	
7,736.00	1.49	325.50	7,733.11	67.97	-28.04	14,535,176.14	2,030,634.35	40.016697	-109.606340	
7,831.00	1.93	331.39	7,828.07	70.39	-29.51	14,535,178.54	2,030,632.85	40.016703	-109.606346	
7,925.00	0.70	333.94	7,922.05	72.29	-30.52	14,535,180.42	2,030,631.81	40.016709	-109.606349	
8,020.00	1.07	299.89	8,017.03	73.26	-31.54	14,535,181.37	2,030,630.77	40.016711	-109.606353	
8,115.00	0.97	298.96	8,112.02	74.09	-33.02	14,535,182.18	2,030,629.28	40.016714	-109.606358	
8,210.00	0.79	271.18	8,207.01	74.49	-34.37	14,535,182.56	2,030,627.92	40.016715	-109.606363	
8,305.00	0.53	252.99	8,302.00	74.38	-35.45	14,535,182.43	2,030,626.84	40.016714	-109.606367	
8,399.00	0.40	229.72	8,396.00	74.04	-36.12	14,535,182.08	2,030,626.18	40.016713	-109.606369	
8,494.00	0.18	13.75	8,491.00	73.97	-36.33	14,535,182.01	2,030,625.97	40.016713	-109.606370	
8,589.00	0.44	116.62	8,586.00	73.95	-35.97	14,535,181.99	2,030,626.33	40.016713	-109.606369	
8,684.00	0.86	165.60	8,680.99	73.10	-35.47	14,535,181.15	2,030,626.85	40.016711	-109.606367	
8,779.00	0.79	132.14	8,775.98	71.97	-34.81	14,535,180.03	2,030,627.53	40.016708	-109.606365	
8,874.00	1.23	160.00	8,870.97	70.57	-33.97	14,535,178.64	2,030,628.38	40.016704	-109.606362	
8,970.00	0.79	155.52	8,966.95	69.00	-33.34	14,535,177.08	2,030,629.03	40.016700	-109.606359	
9,064.00	1.14	154.11	9,060.94	67.57	-32.67	14,535,175.66	2,030,629.73	40.016696	-109.606357	
9,159.00	1.38	168.88	9,155.92	65.59	-32.03	14,535,173.70	2,030,630.40	40.016690	-109.606355	
9,254.00	1.26	173.89	9,250.89	63.43	-31.70	14,535,171.55	2,030,630.76	40.016684	-109.606353	
9,349.00	1.32	200.96	9,345.87	61.37	-31.98	14,535,169.48	2,030,630.51	40.016679	-109.606354	
9,444.00	0.88	177.75	9,440.85	59.62	-32.35	14,535,167.72	2,030,630.18	40.016674	-109.606356	
9,540.00	1.02	198.68	9,536.84	58.08	-32.59	14,535,166.18	2,030,629.96	40.016670	-109.606357	
9,635.00	1.06	197.53	9,631.82	56.44	-33.13	14,535,164.53	2,030,629.45	40.016665	-109.606359	
9,730.00	1.67	170.64	9,726.80	54.23	-33.17	14,535,162.32	2,030,629.44	40.016659	-109.606359	
9,825.00	1.23	173.54	9,821.77	51.85	-32.83	14,535,159.95	2,030,629.82	40.016652	-109.606357	
9,919.00	1.49	178.63	9,915.74	49.63	-32.68	14,535,157.73	2,030,630.00	40.016646	-109.606357	
10,014.00	1.14	199.99	10,010.71	47.51	-32.98	14,535,155.60	2,030,629.74	40.016641	-109.606358	
10,109.00	1.23	175.47	10,105.69	45.60	-33.22	14,535,153.69	2,030,629.53	40.016635	-109.606359	
10,203.00	0.70	184.70	10,199.68	44.02	-33.19	14,535,152.12	2,030,629.58	40.016631	-109.606359	
10,298.00	0.88	125.55	10,294.67	43.02	-32.64	14,535,151.12	2,030,630.14	40.016628	-109.606357	
10,393.00	0.86	119.80	10,389.66	42.24	-31.43	14,535,150.36	2,030,631.37	40.016626	-109.606353	
10,488.00	0.79	127.04	10,484.65	41.49	-30.29	14,535,149.63	2,030,632.52	40.016624	-109.606348	
10,583.00	0.70	161.14	10,579.64	40.55	-29.58	14,535,148.70	2,030,633.25	40.016621	-109.606346	
10,678.00	0.53	141.81	10,674.64	39.66	-29.12	14,535,147.81	2,030,633.72	40.016619	-109.606344	
10,773.00	1.05	117.33	10,769.63	38.91	-28.07	14,535,147.08	2,030,634.78	40.016617	-109.606341	
10,867.00	1.41	136.89	10,863.61	37.67	-26.52	14,535,145.87	2,030,636.35	40.016614	-109.606335	
10,962.00	1.41	141.46	10,958.58	35.90	-24.99	14,535,144.13	2,030,637.91	40.016609	-109.606330	

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well NBU 920-24P
Project:	UTAH - UTM (feet), NAD27, Zone 12N	TVD Reference:	GL 4838 & KB 19' @ 4857.00ft (PIONEER 54)
Site:	NBU 920-24P	MD Reference:	GL 4838 & KB 19' @ 4857.00ft (PIONEER 54)
Well:	NBU 920-24P	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
11,057.00	1.32	124.84	11,053.55	34.36	-23.36	14,535,142.61	2,030,639.56	40.016604	-109.606324	
11,152.00	1.58	121.50	11,148.52	33.06	-21.35	14,535,141.33	2,030,641.59	40.016601	-109.606317	
11,247.00	2.11	132.58	11,243.47	31.19	-18.94	14,535,139.50	2,030,644.02	40.016596	-109.606308	
11,341.00	1.93	123.44	11,337.42	29.14	-16.35	14,535,137.50	2,030,646.65	40.016590	-109.606299	
LAST SDI MWD PRODUCTION SURVEY										
11,408.00	1.93	123.44	11,404.38	27.90	-14.47	14,535,136.29	2,030,648.55	40.016587	-109.606292	
SDI PROJECTION TO BIT										

Design Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment	
		+N/-S (ft)	+E/-W (ft)		
189.00	189.00	0.26	0.76	FIRST SDI MWD SURFACE SURVEY	
2,789.00	2,788.88	-0.67	1.52	LAST SDI MWD SURFACE SURVEY	
2,897.00	2,896.88	-0.07	1.63	FIRST SDI MWD PRODUCTION SURVEY	
11,341.00	11,337.42	29.14	-16.35	LAST SDI MWD PRODUCTION SURVEY	
11,408.00	11,404.38	27.90	-14.47	SDI PROJECTION TO BIT	

Checked By: _____	Approved By: _____	Date: _____
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STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-0579
SUNDRY NOTICES AND REPORTS ON WELLS		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute
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.		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
1. TYPE OF WELL Gas Well		8. WELL NAME and NUMBER: NBU 920-24P
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		9. API NUMBER: 43047501480000
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: 0992 FSL 0462 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESE Section: 24 Township: 09.0S Range: 20.0E 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: 7/29/2013 <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: 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 7/29/2013. 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 September 12, 2013</p>		
NAME (PLEASE PRINT) Teena Paulo	PHONE NUMBER 720 929-6236	TITLE Staff Regulatory Specialist
SIGNATURE N/A		DATE 8/16/2013

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 920-24P		Spud Date: 3/9/2012	
Project: UTAH-UINTAH		Site: NBU 920-24P	Rig Name No: SWABBCO 8/8
Event: WELL WORK EXPENSE		Start Date: 7/29/2013	End Date: 7/31/2013
Active Datum: RKB @4,857.00usft (above Mean Sea Level)		UWI: SE/SE/0/9/S/20/E/24/0/0/26/PM/S/992/E/0/462/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
7/29/2013	6:45 - 7:00	0.25	MAINT	48		P		HSM, JSA
	7:00 - 9:00	2.00	MAINT	30	G	P		RD, ROAD RIG FROM NBU 920-24B TO NBU 920-24P
	9:00 - 10:15	1.25	MAINT	30	A	P		MIRU, 130# FCP, CONTROL WELL W/ 20 BBLs T-MAC, ND WH, PUT TIW IN TBG HANGER
	10:15 - 13:15	3.00	MAINT	35	D	P		MIRU ASA'S WIRELINE, FISH PLUNGER & BUMPERSPRING, RD SLICKLINE
	13:15 - 14:00	0.75	MAINT	30	F	P		P/U ON TBG, ADD 8' SUB UNDER TBG HANGER, NU BOP'S, RU FLOOR & TBG EQUIP
7/30/2013	14:00 - 17:00	3.00	MAINT	31		P		UNLAND TBG, WORK STUCK TBG, DROP STANDING VALVE & FILL TBG W/ T-MAC, LEAVE TBG IN COMPRESSION OVER NIGHT, SDFN
	6:45 - 7:00	0.25	MAINT	48		P		HSM, JSA
	7:00 - 8:15	1.25	MAINT	31		P		600# FCP, WORK STUCK TBG, STILL STUCK
	8:15 - 11:15	3.00	MAINT	34	A	P		MIRU CUTTERS WIRELINE, RIH W/ STUCK PIPE LOG, FIND BRIDGE @ 8661' & 8729', POOH LD LOGGING TOOLS, RIH W/ 4 HOLE TBG PUNCH, PUNCH TBG @ 8661', POOH, RD CUTTERS
7/31/2013	11:15 - 17:30	6.25	MAINT	31	I	P		P/U ON TBG STILL STUCK, WORK STUCK TBG, TBG PULLED FREE IN 15 MINS, MIRU SCAN TECH, TOOH & SCAN TBG, SCAN SHOWED 344 TOTAL JTS W/ 229 GOOD JTS & 115 BAD JTS, JTS 280-317 HAD LIGHT EXTERNAL SCALE, JTS 318-326 HAD HEAVY EXTERNAL SCALE, JTS 327-344 HAD LIGHT EXTERNAL SCALE, RD SCAN TECH, SDFN
	6:45 - 7:00	0.25	MAINT	48		P		HSM, JSA
	7:00 - 12:15	5.25	MAINT	31	I	P		1000# FCP, M/U 3-7/8" MILL, LSN & POBS, TIH W/ 2-3/8" TBG, TAG FILL @ 8656'
	12:15 - 15:30	3.25	MAINT	44	D	P		MIRU GROSS FOAM RECIRC UNIT, ESTB CIRC IN 1-1/2 HRS, C/O FROM 8656 TO 8957' & FELL THROUGH, HANG BACK PWR SWVL
7/31/2013	15:30 - 18:00	2.50	MAINT	31	I	P		TIH W/ 2-3/8" TBG TAG FILL @ 11,313' 73' BELOW BTM PERF, TOOH LD 13 JTS ON TRAILER, LAND TBG W/ 344 JTS 2-3/8" L-80, ND BOP'S, NU WH, PUMPED TBG VOLUME TO SHEAR BIT OFF DIDNT SEE ANY PRESSURE, SWI, SDFN
								KB 19'
								HANGER .83'
								344 JTS 2-3/8" L-80 10903.35'
								POBS HALF W/ LSN 2.20'
								EOT @ 10925.38'
								TWLTR 50 BBLs

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-0579
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: UTE 7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES
1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: NBU 920-24P
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047501480000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6100 9. FIELD and POOL or WILDCAT: NATURAL BUTTES
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0992 FSL 0462 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESE Section: 24 Township: 09.0S Range: 20.0E 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: 9/22/2015	<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 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 style="width:100px;" type="text" value="TUBING FAILURE"/>

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

A WORKOVER FOR TUBING FAILURE HAS BEEN COMPLETED ON THE NBU 920-24P, SEE THE ATTACHED OPERATIONS SUMMARY REPORT

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
 October 08, 2015

NAME (PLEASE PRINT) Doreen Green	PHONE NUMBER 435 781-9758	TITLE Regulatory Analyst II
SIGNATURE N/A	DATE 10/6/2015	

US ROCKIES REGION
Operation Summary Report

Well: NBU 920-24P

Spud date: 3/9/2012

Project: UTAH-UINTAH

Site: NBU 920-24P

Rig name no.: MILES-GRAY 1/1

Event: WELL WORK EXPENSE

Start date: 9/18/2015

End date: 9/22/2015

Active datum: RKB @4,857.00usft (above Mean Sea Level)

UWI: SE/SE/0/9/S/20/E/24/0/0/26/PM/S/992/E/0/462/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD from (usft)	Operation
9/18/2015	12:00 - 16:30	4.50	MAINT	30	A	P		ROAD RIG FROM BITTER CREEK 1122-40. MIRU. SPOT IN ALL EQUIP. RUN PUMP LINES. R/U PIPE WRANGLER & RACKS. SERVICE WORKOVER RIG. SHUT DOWN FOR WEEKEND.
9/21/2015	7:00 - 7:15	0.25	MAINT	48		P		SAFETY= JSA.
	7:15 - 8:30	1.25	MAINT	30	F	P		FCP & FTP = 120#. CNTRL TBNG W/ 20BBLS TMAC. CNTRL CSNG W/ 20BBLS TMAC. NDWH. UN-LAND TBNG (GOOD, NOT STUCK). LAND TBNG BACK ON HANGER. FUNCTION TEST BOP (GOOD). NUBOP. R/U FLOOR & TBNG EQUIP.
	8:30 - 11:00	2.50	MAINT	31	I	P		UN-LAND TBNG. REMOVE HANGER. INSTALL WASHINGTON RUBBER. CNTRL TBNG W/ 20 MORE BBLS TMAC. SUSPECTED LARGE HOLE @ +/- 3200' SO DID NOT T/U (PLAN TO REMOVE REALLY BAD JTS BEFORE T/U) SO POOH WHILE VISUALLY INSPECTING 48JTS 2-3/8" L-80 TBNG. PINS ON TBNG BECAME VERY BAD AND SO WE STARTED TO L/D ALL TBNG AS RED BAND. CONT POOH WHILE REJECTING ALL TBNG. FOUND CRIMP IN JT#73 @2314'. FOUND LARGE HOLE IN JT #101 @3202'. CONT POOH WHILE VISUALLY INSPECTING TBNG (REJECT ALL TBNG UNTIL JT # 122).
	11:00 - 16:00	5.00	MAINT	45	A	P		MIRU SCANNERS. POOH WHILE SCANNING THE REMAINING 174JTS. TIH W/ 48JTS THAT WERE VISUALLY INSPECTED. R/U SCANNERS. POOH WHILE SCANNING REMAINING 48JTS 2-3/8" L-80 TBNG. SCANNERS INSPECTED 222 TOTAL JTS.\n\nTBNG SCAN RESULTS AS FOLLOWS:\nY-BND= 40JTS\nB-BND= 38JTS. DUE TO MINOR WALL LOSS.\nBB-BND= 16JTS. DUE TO MODERATE WALL LOSS & PITTING.\nR-BND= 250JTS TOTAL INCLUDING JTS THAT WERE REJECTED PRIOR TO R/U SCANNERS. LARGE HOLE FOUND @3202'. CRIMPED JT FOUND @2314'. MOST REJECTED JTS WERE DUE TO PITTING IN THE PINS. THE ONLY INTERVAL FOR GOOD TBNG WAS F-JT# 178 TO JT #262. LIGHT INTERNAL SCALE WAS PRESENT THRU ENTIRE STRING. HEAVY O.D. SCALE WAS FOUND FROM 8905' TO 9176'.\n\nRDMO SCANNERS.\n\nP/U & RIH W/ 3-7/8" MILL, POBS, XN & 78JTS 2-3/8" L-80 Y-BND TBNG. SWIFN.SDFN. LOCK RAMS.
	16:00 - 17:00	1.00	MAINT	31	I	P		
9/22/2015	7:00 - 7:15	0.25	MAINT	48		P		SAFETY = JSA.
	7:15 - 13:45	6.50	MAINT	31	I	P		SICP= 850#. SITP= 800#. BLOW DOWN CSNG TO FLOWBACK TANK. CNTRL TBG W/ 15BBLS TMAC. CONT RIH W/ 3-7/8" MILL, POBS, XN NIPPLE & 2-3/8" MIX STRING TBNG (L-80 & P-110). BROACH ALL TBNG GOOD W/ 1.910" BROACH WHILE RIH. FALL THRU SCALE BRIDGES @ 8975',9130' & 9217'. CONT RIH W/ MILL & TBNG. T/U @ 11,311' PBDT W/ 356JTS TOTAL + BHA. L/D 1JT TBNG.

US ROCKIES REGION
Operation Summary Report

Well: NBU 920-24P		Spud date: 3/9/2012	
Project: UTAH-UINTAH		Site: NBU 920-24P	Rig name no.: MILES-GRAY 1/1
Event: WELL WORK EXPENSE		Start date: 9/18/2015	End date: 9/22/2015
Active datum: RKB @4,857.00usft (above Mean Sea Level)		UWI: SE/SE/0/9/S/20/E/24/0/0/26/PM/S/992/E/0/462/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD from (usft)	Operation
	13:45 - 17:30	3.75	MAINT	31	N	P		<p>MIRU N2 FOAM UNIT. BREAK CIRC IN 45MIN. CIRC BOTTOMS UP. CNTRL TBNG W/ 15BBL TMAC TOP KILL. RDMO N2 FOAM UNIT. L/D EXCESS TBNG. LUBE IN HANGER. LAND TBNG. R/D FLOOR & TBNG EQUIP. NDBOP. NUWH. PUMP OFF MILL W/ 55BBLS TMAC. DID NOT SEE MILL PUMP OFF (PUMPED TBG VOLUME + 10BBLS). SWI. SDFN.</p> <p>PRODUCTION TBNG LANDED AS FOLLOWS:</p> <p>KB= 19.00' HANGER=.83' 266JTS NEW 2-3/8" P-110 TBNG= 8437.71 2-3/8" P-110 NEW PUP JT = 6.18' 78JTS 2-3/8" L-80 Y-BND TBNG= 2470.99' 1.875" XN-POBS= 2.20' EOT @10,936.91'</p> <p>TWLTR= 65BBLS</p>