

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

FORM 3

AMENDED REPORT **APPLICATION FOR PERMIT TO DRILL**

<b>2. TYPE OF WORK</b> DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>		<b>1. WELL NAME and NUMBER</b> NBU 920-13G	
<b>4. TYPE OF WELL</b> Gas Well      Coalbed Methane Well: NO		<b>3. FIELD OR WILDCAT</b> NATURAL BUTTES	
<b>6. NAME OF OPERATOR</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.		<b>5. UNIT or COMMUNITIZATION AGREEMENT NAME</b> NATURAL BUTTES	
<b>8. ADDRESS OF OPERATOR</b> P.O. Box 173779, Denver, CO, 80217		<b>7. OPERATOR PHONE</b> 720 929-6587	
<b>10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE)</b> UTU-0579		<b>9. OPERATOR E-MAIL</b> mary.mondragon@anadarko.com	
<b>11. MINERAL OWNERSHIP</b> FEDERAL <input checked="" type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>		<b>12. SURFACE OWNERSHIP</b> FEDERAL <input type="checkbox"/> INDIAN <input checked="" type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>	
<b>13. NAME OF SURFACE OWNER (if box 12 = 'fee')</b>		<b>14. SURFACE OWNER PHONE (if box 12 = 'fee')</b>	
<b>15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')</b>		<b>16. SURFACE OWNER E-MAIL (if box 12 = 'fee')</b>	
<b>17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')</b> Ute		<b>18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS</b> YES <input type="checkbox"/> (Submit Commingling Application) NO <input checked="" type="checkbox"/>	
<b>19. SLANT</b> VERTICAL <input checked="" type="checkbox"/> DIRECTIONAL <input type="checkbox"/> HORIZONTAL <input type="checkbox"/>			
<b>20. LOCATION OF WELL</b>	<b>FOOTAGES</b>	<b>QTR-QTR</b>	<b>SECTION</b>
<b>LOCATION AT SURFACE</b>	1907 FNL 1782 FEL	SWNE	13
<b>Top of Uppermost Producing Zone</b>	1907 FNL 1782 FEL	SWNE	13
<b>At Total Depth</b>	1907 FNL 1782 FEL	SWNE	13
<b>21. COUNTY</b> UINTAH	<b>22. DISTANCE TO NEAREST LEASE LINE (Feet)</b> 1782	<b>23. NUMBER OF ACRES IN DRILLING UNIT</b> 1920	
	<b>25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed)</b> 1500	<b>26. PROPOSED DEPTH</b> MD: 10600 TVD:	
<b>27. ELEVATION - GROUND LEVEL</b> 4782	<b>28. BOND NUMBER</b> WYB000291	<b>29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE</b> Permit #43-8496	

**ATTACHMENTS**

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

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

<b>NAME</b> Kevin McIntyre	<b>TITLE</b> Regulatory Analyst I	<b>PHONE</b> 720 929-6226
<b>SIGNATURE</b>	<b>DATE</b> 10/21/2008	<b>EMAIL</b> Kevin.McIntyre@anadarko.com
<b>API NUMBER ASSIGNED</b> 43047501510000	<b>APPROVAL</b>  Permit Manager	

**Proposed Hole, Casing, and Cement**

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

**Proposed Hole, Casing, and Cement**

<b>String</b>	<b>Hole Size</b>	<b>Casing Size</b>	<b>Top (MD)</b>	<b>Bottom (MD)</b>		
Prod	7.875	4.5	0	10600		
<b>Pipe</b>	<b>Grade</b>	<b>Length</b>	<b>Weight</b>			
	Grade I-80 LT&C	10600	11.6			
	<b>Cement Interval</b>	<b>Top (MD)</b>	<b>Bottom (MD)</b>			
		0	10600			
		<b>Cement Description</b>	<b>Class</b>	<b>Sacks</b>	<b>Yield</b>	<b>Weight</b>
			Premium Lite High Strength	510	3.38	11.0
			Pozzuolanic Cement	1660	1.31	14.3



**KERR-McGEE OIL & GAS ONSHORE LP  
DRILLING PROGRAM**

COMPANY NAME KERR-McGEE OIL & GAS ONSHORE LP DATE September 11, 2008  
 WELL NAME NBU 920-13G TD 10,600' MD/TVD  
 FIELD Natural Buttes COUNTY Uintah STATE Utah ELEVATION 4,782' GL KB 4,787'  
 SURFACE LOCATION SWNE 1807' FNL & 1782' FEL, Sec. 13, T 9S R 20E BHL Straight Hole  
 Latitude: 40.037680 Longitude: -108.811460 NAD 27  
 OBJECTIVE ZONE(S) Mesaverde  
 ADDITIONAL INFO Regulatory Agencies: BLM (MINERALS), BIA (SURFACE), UDOGM, Tri-County Health Dept.

GEOLOGICAL FORMATION			MECHANICAL		
LOGS	TOPS	DEPTH	HOLE SIZE	CASING SIZE	MUD WEIGHT
		40'		14"	
			12-1/4"	9-5/8", 38#, J-55, LTC	Air mist
Catch water sample, if possible, from 0 to 5,179' Green River @ 1,771' Top of Birds Nest Water @ 2,020' Mahogany @ 2,537' Preset ff GL @ 2,800' MD					
Note: 12.25" surface hole will usually be drilled ±400' below the bottom of lost circulation zone. Drilled depth may be ±200' of the estimated set depth depending on the actual depth of the loss zone.					
Mud logging program TBD Open hole logging program ff TD - surf csg			7-7/8"	4-1/2", 11.6#, I-80 or equivalent LTC casing	Water/Fresh Water Mud 8.3-11.5 ppg
	Wasatch @	5,179'			
	Mverde @	8,371'			
	MVU2 @	9,328'			
	MVL1 @	9,840'			
	TD @	10,600'			Max anticipated Mud required 12.5 ppg



**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'	38.00	J-65	LTC	0.77	1.54	5.13
						7780	8350	201000
PRODUCTION	4-1/2"	0 to 10600	11.60	1-80	LTC	1.71	0.92	1.87

- 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 4240 psi

**CEMENT PROGRAM**

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD	
SURFACE Option 1	LEAD	500	Premium cmt + 2% CaCl + .25 pps floccle	215	60%	15.60	1.18	
	TOP OUT CMT (1)	250	20 gals sodium silicate + Premium cmt + 2% CaCl + .25 pps floccle	100		15.60	1.18	
	TOP OUT CMT (2)	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18	
SURFACE Option 2	NOTE: If well will circulate water to surface, option 2 will be utilized							
	LEAD	2000	Prem cmt + 16% Gel + 10 pps gilsonite + .25 pps Floccle + 3% salt BWOC	230	35%	11.00	3.82	
	TAIL	500	Premium cmt + 2% CaCl + .25 pps floccle	180	35%	15.60	1.18	
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18	
PRODUCTION	LEAD	4,670'	Premium Lite II + 3% KCl + 0.25 pps celloflake + 5 pps gilsonite + 10% gel + 0.5% extender	510	60%	11.00	3.38	
	TAIL	5,930'	50/50 Poz/G + 10% salt + 2% gel +.1% R-3	1660	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 shoe, 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 Tolco 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: \_\_\_\_\_  
 Brad Laney  
 DRILLING SUPERINTENDENT: \_\_\_\_\_  
 Randy Bayne

DATE: \_\_\_\_\_  
 DATE: \_\_\_\_\_

**NBU 920-13G  
SWNE Sec. 13, 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	1771'
Bird's Nest	2020'
Mahogany	2537'
Wasatch	5179'
Mesaverde	8371'
MVU2	9329'
MVL1	9840'
TD	10,600'

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

<u>Substance</u>	<u>Formation</u>	<u>Depth</u>
	Green River	1771'
	Bird's Nest	2020'
	Mahogany	2537'
Gas	Wasatch	5179'
Gas	Mesaverde	8371'
Gas	MVU2	9329'
Gas	MVL1	9840'
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 10,600' TD, approximately equals 6572 psi (calculated at 0.62 psi/foot).

Maximum anticipated surface pressure equals approximately 4240 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 blooie line. The air rig does not utilize an igniter as the surface hole drilling operation does not encounter productive formations.*

*Conclusion*

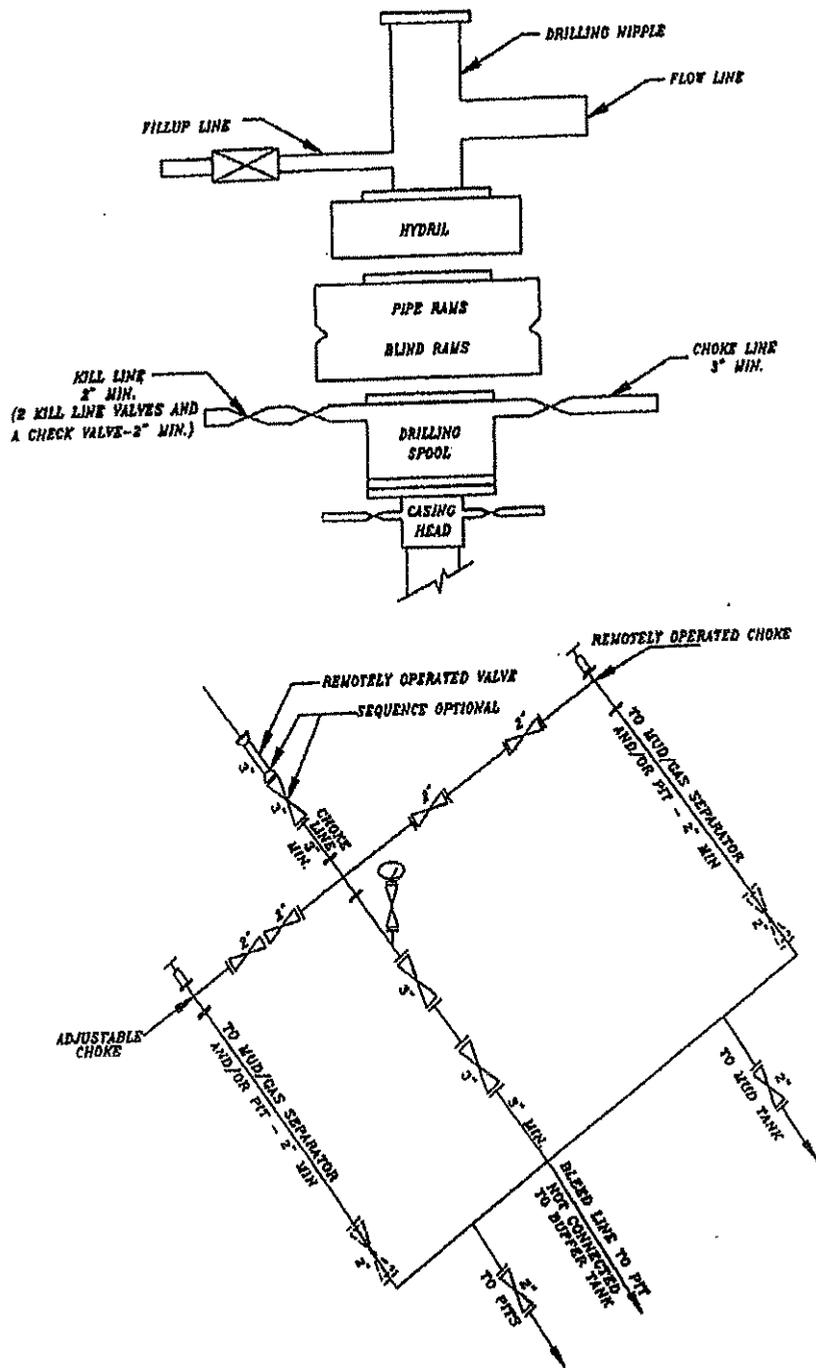
*The air rig operating procedures and the attached air rig layout have effectively maintained well control while drilling the surface holes in KMG Fields. KMG respectfully requests a variance from Onshore Order 2 with respect to air drilling well control requirements as discussed above..*

**10. Other Information:**

*Please see Natural Buttes Unit SOP.*

NBU 920-13G

EXHIBIT A



**SCHEMATIC DIAGRAM OF 5,000 PSI BOP STACK**

**NBU 920-13G  
SWNE Sec. 13 ,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 520' +/- 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 1044' 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.

**Variances to Best Management Practices (BMPs) Requested:**

Approximately 1044' 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

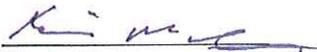
Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

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.

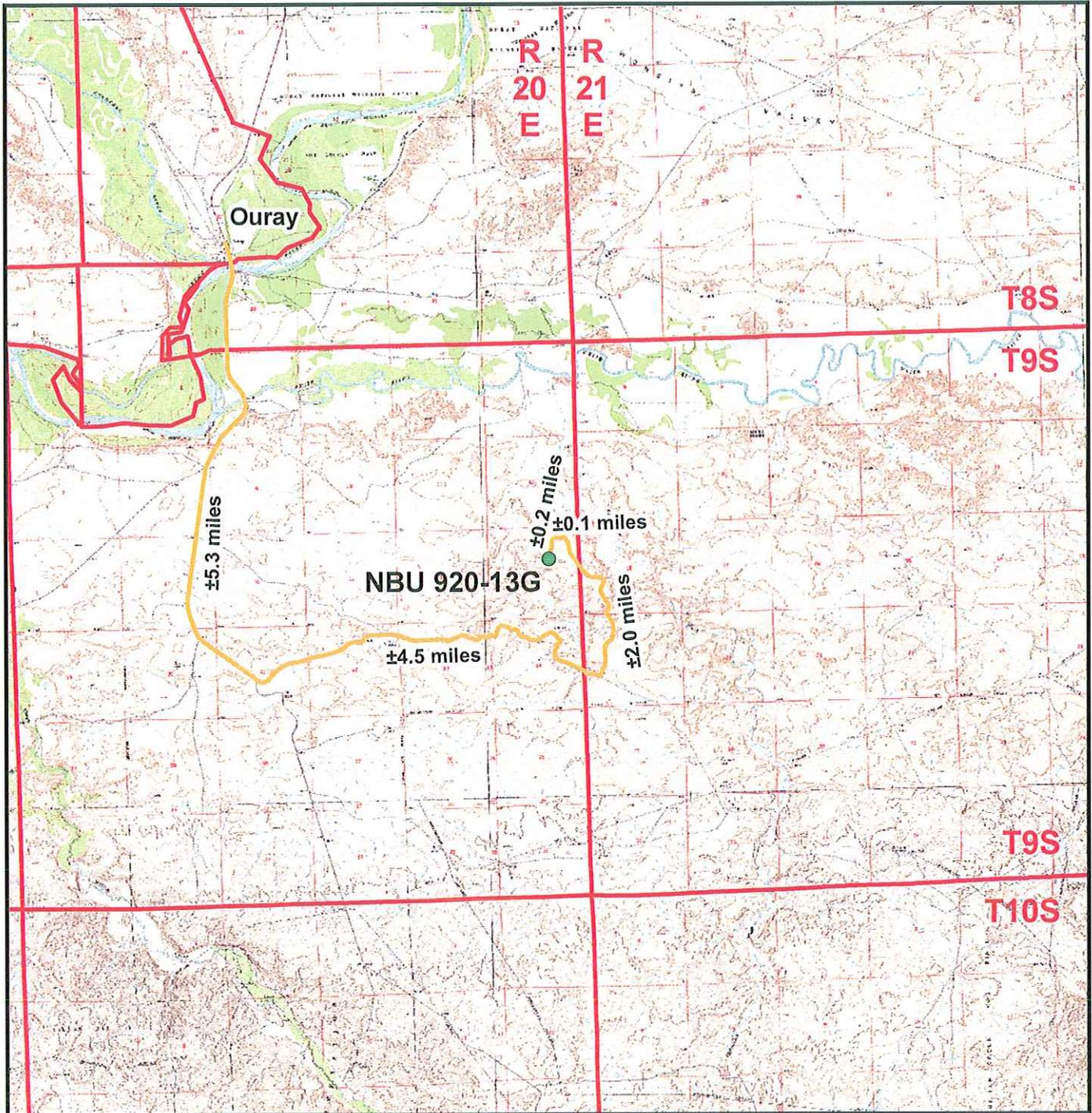
The Operator will be fully responsible for the actions of its subcontractors. A complete copy of the approved "Application for Permit to Drill" will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

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

9/11/2008  
Date



**Legend**

- Proposed NBU 920-13G Well Location
- Access Route - Proposed

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

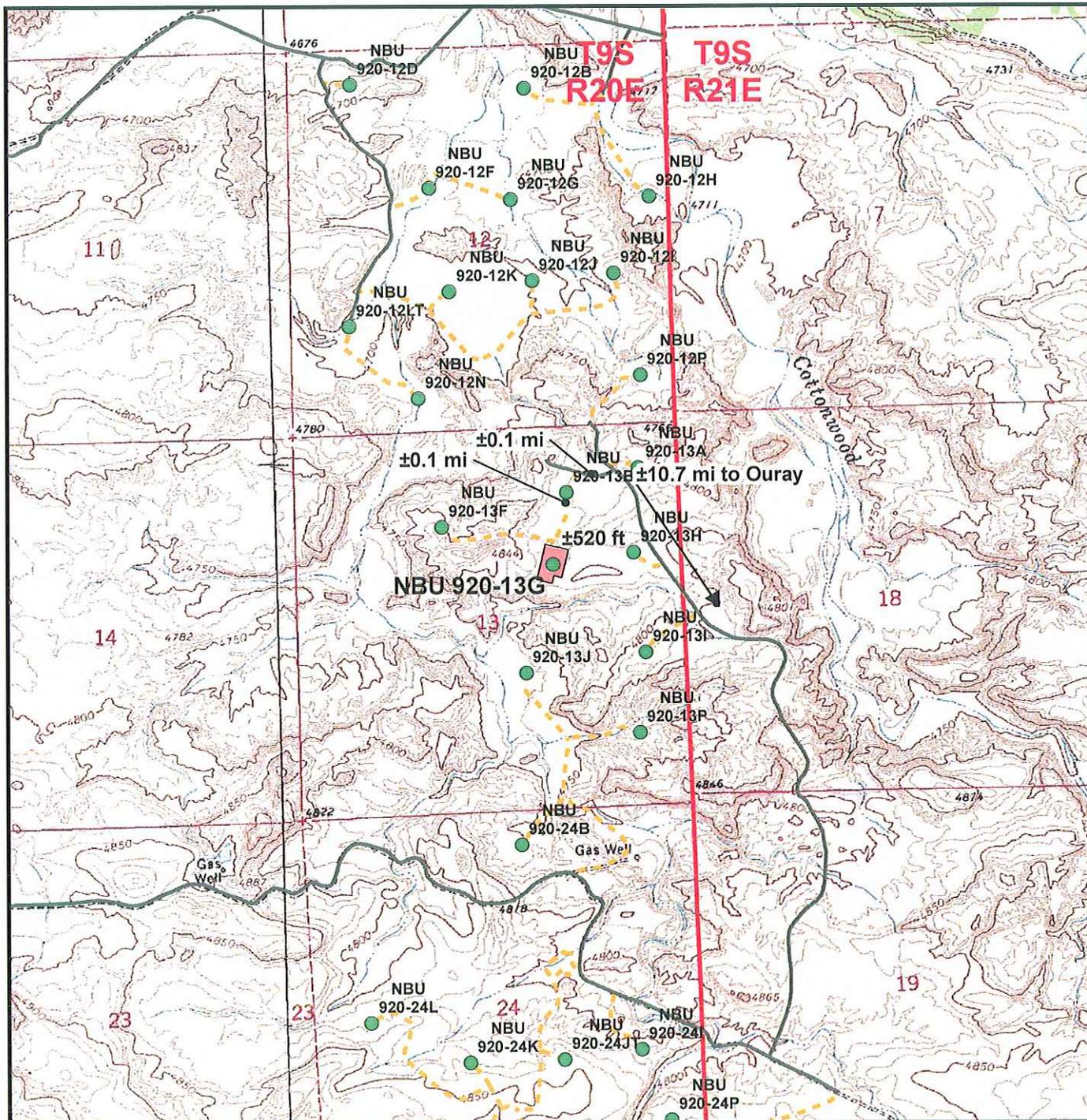
**NBU 920-13G**  
 Topo A  
 1907' FNL, 1782' FEL  
 SW¼ NE¼, Section 13, T9S, R20E  
 S.L.B.&M., Uintah County, Utah



**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: 14 Aug 2008	<b>5</b>
Revised:	Date:	5 of 9



Total Proposed Road Length = ±520 ft

**Legend**

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

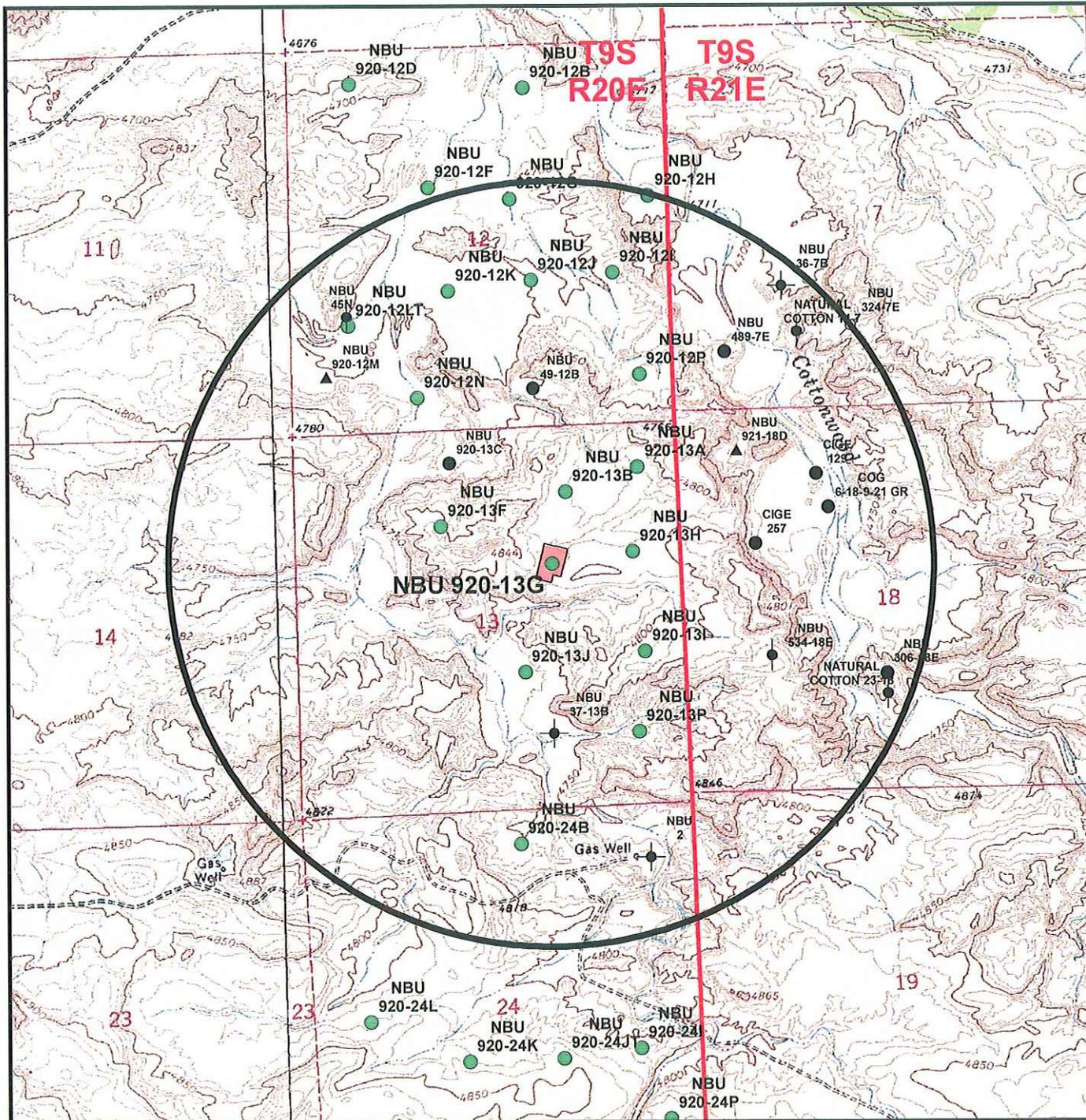
**Kerr-McGee Oil & Gas Onshore, LP**  
 1099 18th Street, Denver, Colorado 80202

**NBU 920-13G**  
**Topo B**  
 1907' FNL, 1782' FEL  
 SW¼ NE¼, Section 13, 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: 14 Aug 2008	<b>6</b>
Revised:	Date:	



**Legend**

- Well - Proposed
- Well - 1 Mile Radius
- ▲ Approved permit (APD); not yet spudded
- Spudded (Drilling commenced; Not yet complete)
- Producing
- ⊗ Location Abandoned
- ⊖ Temporarily-Abandoned
- ⊕ Plugged and Abandoned
- ⊙ Shut-In

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

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

**NBU 920-13G**  
Topo C  
1907' FNL, 1782' FEL  
SW¼ NE¼, Section 13, T9S, R20E  
S.L.B.&M., Uintah County, Utah



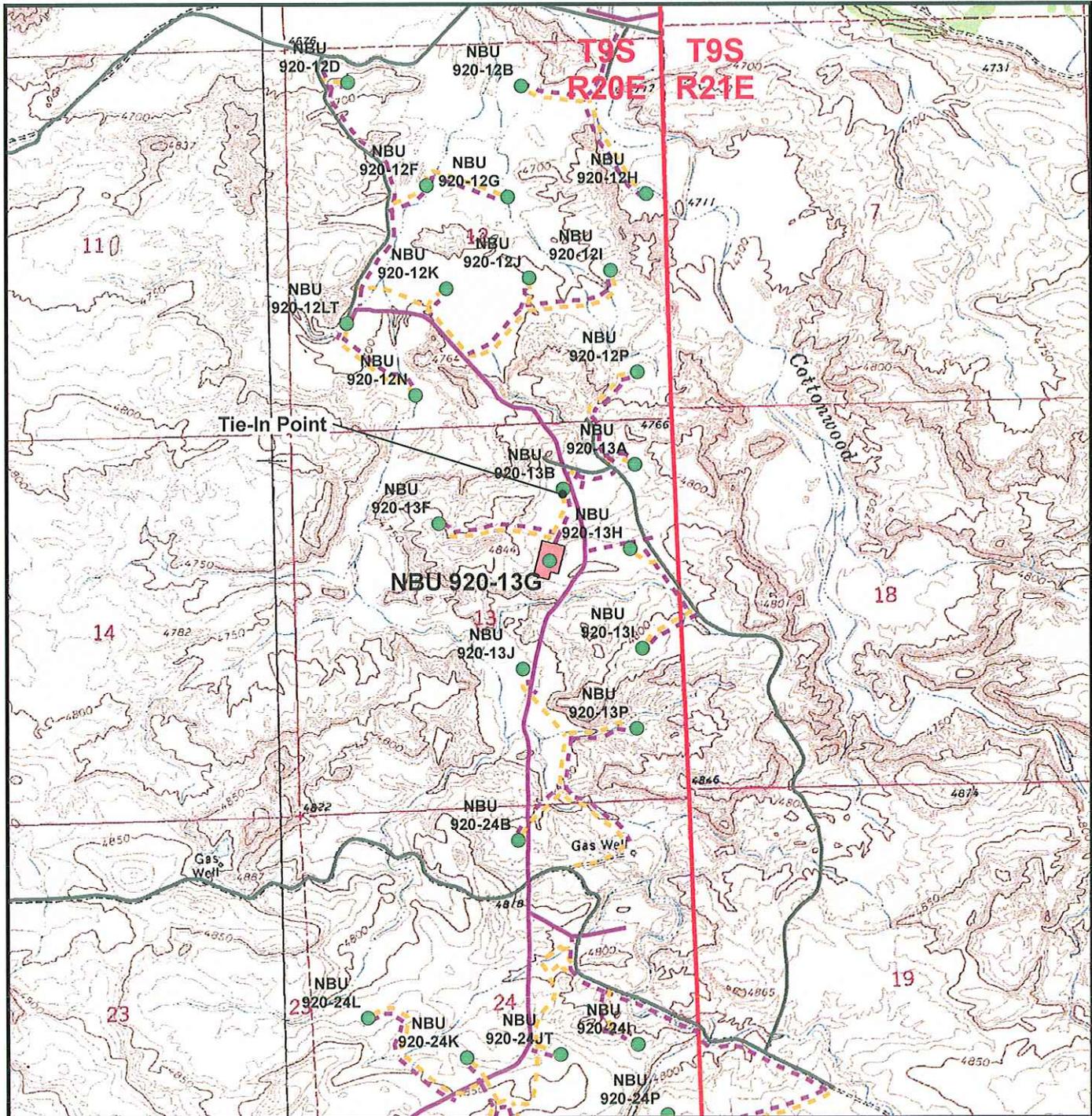
**CONSULTING, LLC**  
371 Colfeen Avenue  
Sheridan, WY 82801  
Phone (307) 674-0609  
Fax (307) 674-0182



Scale: 1" = 2000ft  
Drawn: JELo  
Revised:

NAD83 USP Central  
Date: 14 Aug 2008  
Date:

Sheet No:  
**7**  
7 of 9



Total Proposed Pipeline Length: ±1,044ft

**Legend**

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

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

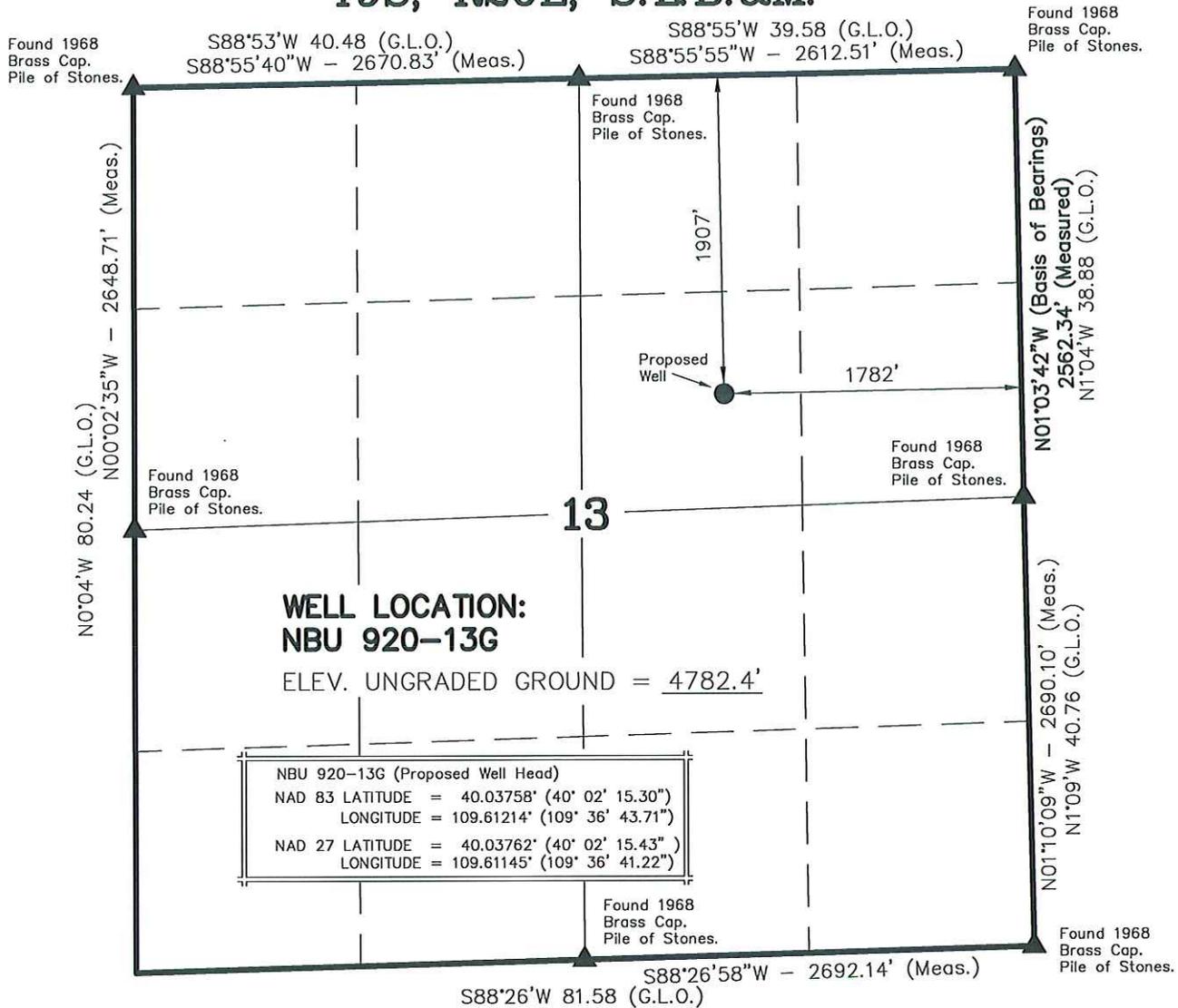
**NBU 920-13G**  
**Topo D**  
 1907' FNL, 1782' FEL  
 SW¼ NE¼, Section 13, T9S, R20E  
 S.L.B.&M., Uintah County, Utah



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

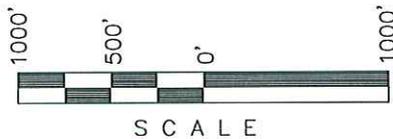
Scale: 1" = 2000ft	NAD83 USP Central	Sheet No:	
Drawn: JELo	Date: 14 Aug 2008	<b>8</b>	8 of 9
Revised:	Date:		

# 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. Schlauch*  
 REGISTERED LAND SURVEYOR  
 REGISTRATION No. 6028691  
 STATE OF UTAH

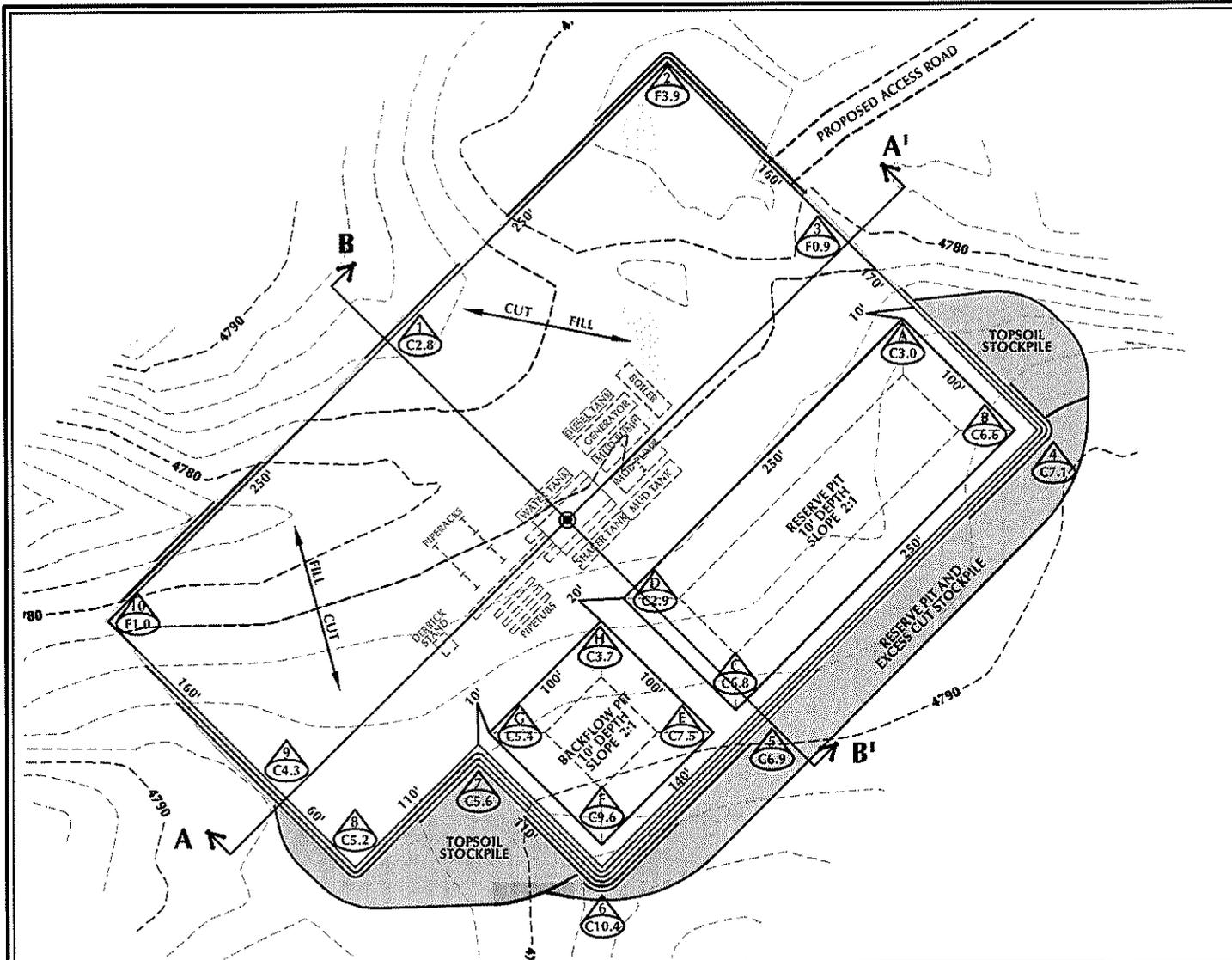
**Kerr-McGee  
Oil & Gas Onshore, LP**  
 1099 18th Street - Denver, Colorado 80202

NBU 920-13G  
 WELL PLAT  
 1907' FNL, 1782' FEL  
 SW ¼ NE ¼ OF SECTION 13, 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

<b>TIMBERLINE</b> (435) 789-1365		
ENGINEERING & LAND SURVEYING, INC.		
38 WEST 100 NORTH - VERNAL, UTAH 84078		
DATE SURVEYED: 06-30-08	SURVEYED BY: B.J.S.	SHEET <b>1</b>
DATE DRAWN: 07-03-08	DRAWN BY: B.R.B.	
SCALE: 1" = 1000'	Date Last Revised:	OF 9



**WELL PAD LEGEND**

- WELL LOCATION
- - - EXISTING CONTOURS (2' INTERVAL)
- PROPOSED CONTOURS (2' INTERVAL)

**WELL PAD NBU 920-13G QUANTITIES**

EXISTING GRADE @ LOC. STAKE = 4,782.4'  
 FINISHED GRADE ELEVATION = 4,782.0'  
 CUT SLOPES = 1.5:1  
 FILL SLOPES = 1.5:1

TOTAL CUT FOR WELL PAD = 12,140 C.Y.  
 TOTAL FILL FOR WELL PAD = 5,583 C.Y.  
 TOPSOIL @ 6" DEPTH = 3,056 C.Y.  
 TOTAL DISTURBANCE = 3.79 ACRES  
 SHRINKAGE FACTOR = 1.15  
 SWELL FACTOR = 1.00  
 RESERVE PIT CAPACITY (2' OF FREEBOARD)  
 +/- 25,880 BARRELS  
 RESERVE PIT VOLUME  
 +/- 7,185 CY  
 BACKFLOW PIT CAPACITY (2' OF FREEBOARD)  
 +/- 8,780 BARRELS  
 BACKFLOW PIT VOLUME  
 +/- 2,520 CY

**KERR-MCGEE OIL & GAS  
 ONSHORE L.P.**

1099 18th Street - Denver, Colorado 80202



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

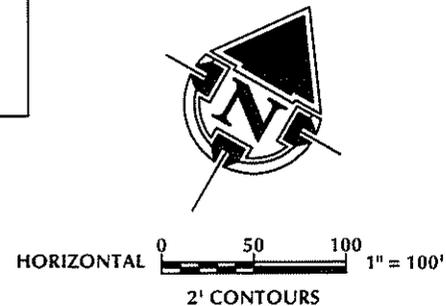
**NBU 920-13G  
 WELL PAD - LOCATION LAYOUT**  
 1907' FNL, 1782' FEL  
 SW1/4NE1/4, SECTION 13, T.9S., R.20E.  
 S.L.B.&M., UINTAH COUNTY, UTAH

Scale: 1"=100' Date: 8/15/08

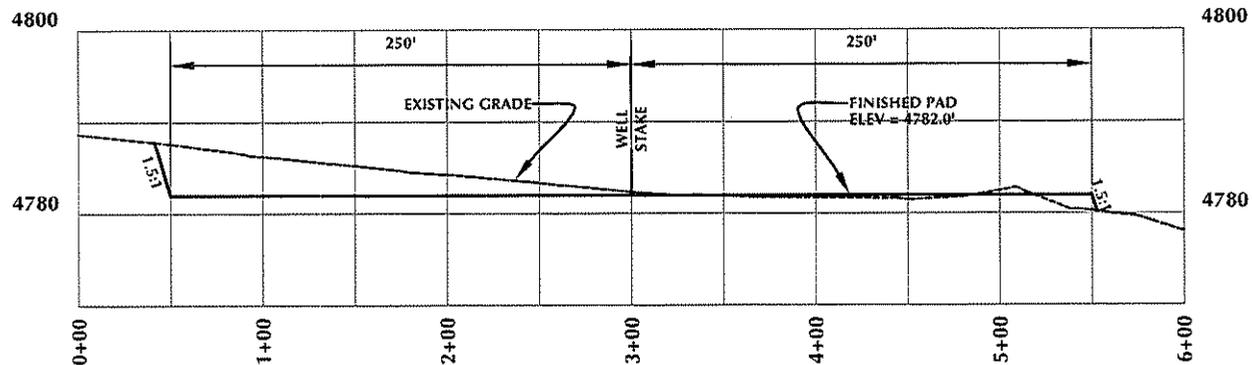
REVISED: BY DATE

SHEET NO:

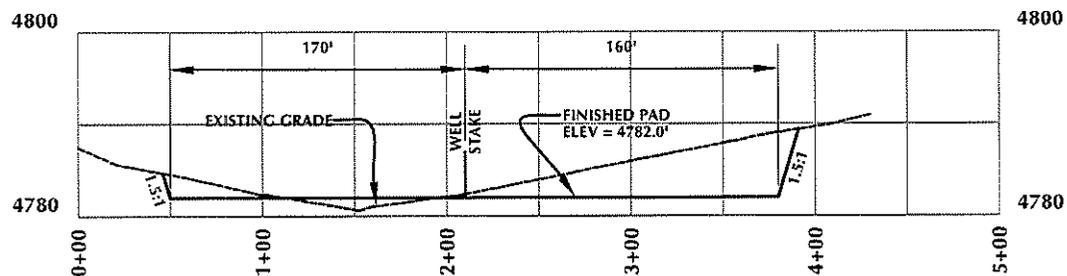
**2** 2 OF 9



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



**CROSS SECTION A-A'**



**CROSS SECTION B-B'**

**KERR-MCGEE OIL & GAS  
ONSHORE L.P.**

1099 18th Street - Denver, Colorado 80202



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

**NBU 920-13G  
WELL PAD - CROSS SECTIONS  
1907' FNL, 1782' FEL  
SW1/4NE1/4, SECTION 13, T.9S., R.20E.  
S.L.B.&M., UINTAH COUNTY, UTAH**

Scale: 1"=100'	Date: 8/15/08	SHEET NO:
REVISID:	BY DATE	<b>3</b> 3 OF 9



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

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

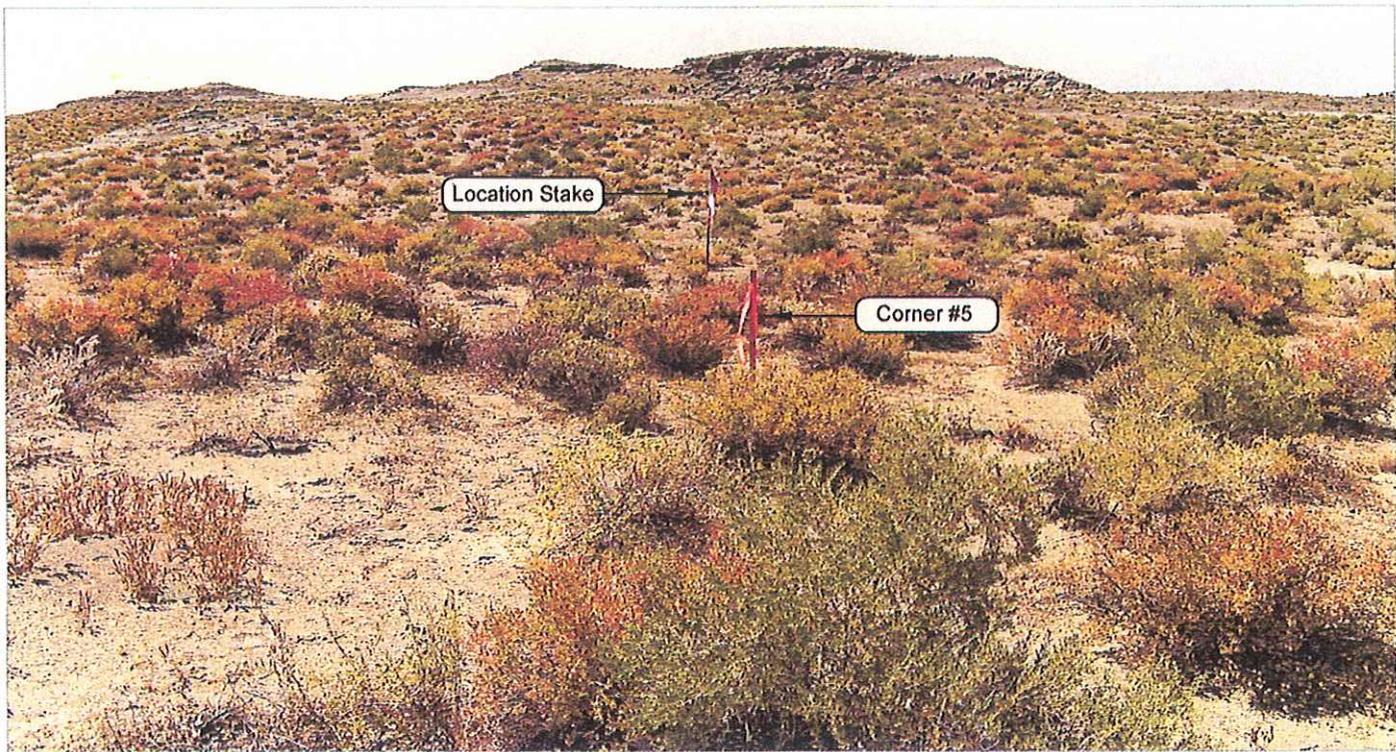


PHOTO VIEW: FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: WESTERLY

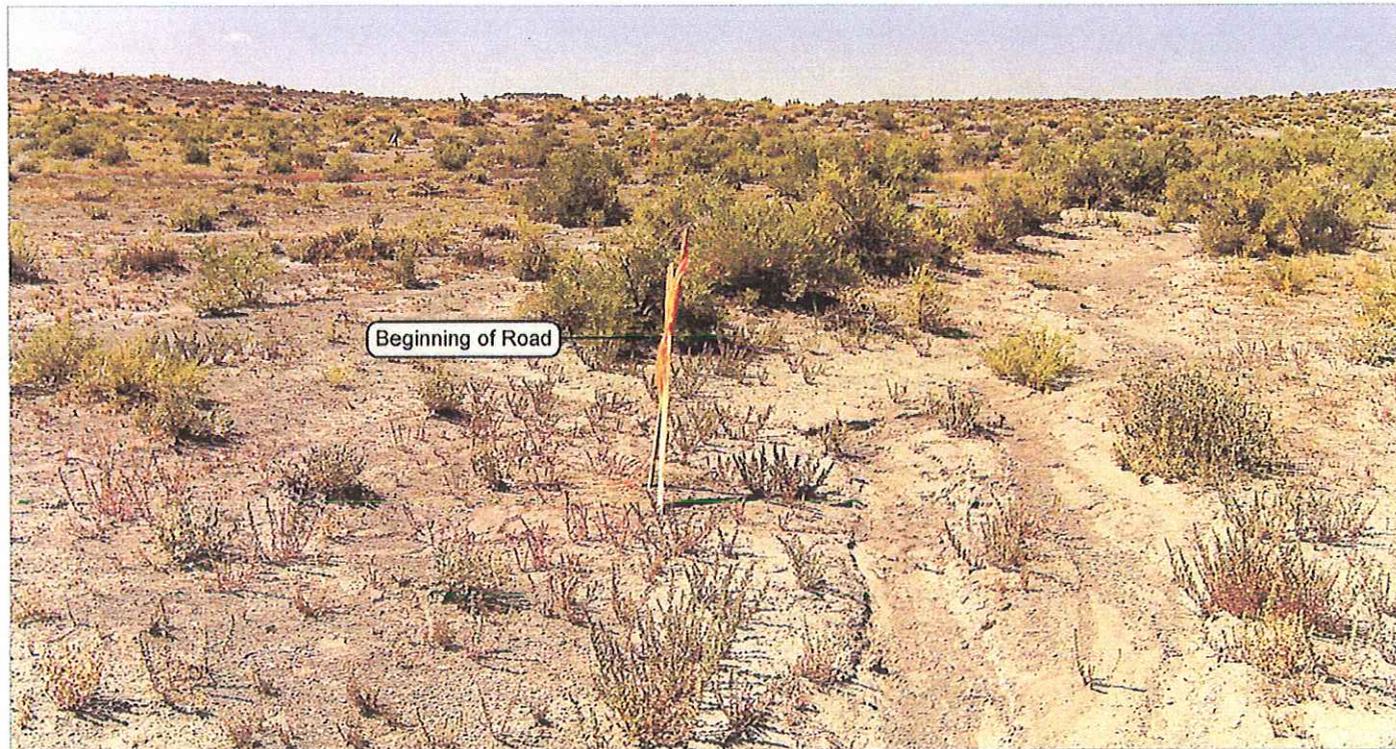
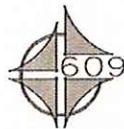


PHOTO VIEW: FROM BEGINNING OF PROPOSED ROAD

CAMERA ANGLE: SOUTHERLY

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

NBU 920-13G  
 1907' FNL, 1782' FEL  
 SW  $\frac{1}{4}$  NE  $\frac{1}{4}$  OF SECTION 13, 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: 6-26-08
TAKEN BY:	DRAWN BY: J.R.S.	DATE DRAWN: 7-31-08
		REVISED:

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

SHEET  
**4**  
 OF 9

**Kerr-McGee Oil & Gas Onshore, LP**  
**NBU 920-13G**  
**Section 13, 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 4.5 MILES TO THE INTERSECTION OF AN EXISTING ROAD TO THE NORTH. EXIT LEFT AND PROCEED IN A NORTHERLY THEN NORTHWESTERLY DIRECTION ALONG EXISTING ROAD APPROXIMATELY 1.9 MILES TO THE INTERSECTION OF AN EXISTING ROAD TO THE NORTHWEST. EXIT LEFT AND PROCEED IN A NORTHWESTERLY DIRECTION ALONG EXISTING ROAD APPROXIMATELY 0.1 MILES TO THE PROPOSED ACCESS ROAD FOR NBU 920-13B. FOLLOW 920-13B ROAD FLAGS IN A SOUTHERLY DIRECTION APPROXIMATELY 55 FEET TO THE PROPOSED 920-13B WELL LOCATION. CONTINUE IN A SOUTHWESTERLY DIRECTION THROUGH PROPOSED WELL PAD APPROXIMATELY 500 TO THE PROPOSED ACCESS ROAD. FOLLOW ROAD FLAGS IN A SOUTHWESTERLY DIRECTION APPROXIMATELY 520 FEET TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 42.7 MILES IN A SOUTHERLY DIRECTION.

**IPC #08-152**

## **Paleontological Reconnaissance Survey Report**

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**Survey of Kerr McGee's Proposed Well Pads, Access Roads, and  
Pipelines for "NBU #920-12LT, 12N, 13D, 13F, 13G, 13J,  
24AT & 24B" (Sec. 12, 13 & 24, T 9 S, R 20 E)**

Ouray SE  
Topographic Quadrangle  
Uintah County, Utah

July 8, 2008

Prepared by Stephen D. Sandau  
Paleontologist for  
Intermountain Paleo-Consulting  
P. O. Box 1125  
Vernal, Utah 84078

## INTRODUCTION

At the request of Raleen White of Kerr McGee Onshore LP and authorized by Bruce Pargeets of the Ute Indian Tribe and by Lynn Becker, EMD Land Division Manager of the Ute Indian Tribe's Energy and Minerals Department, a paleontological reconnaissance survey of Kerr McGee's proposed well pads, access roads, and pipelines for "NBU #920-12LT, 12N, 13D, 13F, 13G, 13J, 24AT & 24B" (Sec. 12, 13 & 24, T 9 S, R 20 E) was conducted by Stephen Sandau and Daniel Burk on July 1, 2008. The survey was conducted under the Ute Indian Tribe Business License FY 2008, #A08-1308 and the accompanying Access Permit (effective 3/26/2008 through 9/30/2008). This survey to locate, identify, and evaluate paleontological resources was done to meet requirements of the National Environmental Policy Act of 1969 and other State and Federal laws and regulations that protect paleontological resources.

## FEDERAL AND STATE REQUIREMENTS

As mandated by the Federal and State government, paleontologically sensitive geologic formations on State lands that are considered for exchange or may be impacted due to ground disturbance require paleontological evaluation. This requirement complies with:

- 1) The National Environmental Policy Act of 1969 (NEPA) (42 U.S.C. 4321.et. Seq., P.L. 91-190);
- 2) The Federal Land Policy and Management Act (FLPMA) of 1976 (90 Stat. 2743, 43 U.S.C. § 1701-1785, et. Seq., P.L. 94-579) and
- 3) The National Historic Preservation Act. 16 U.S.C. § 470-1, P.L. 102-575 in conjunction with 42 U.S.C. § 5320

The new Potential Fossil Yield Classification (PFYC) System (October, 2007) replaces the Condition Classification System from Handbook H-8270-1. Geologic units are classified based on the relative abundance of vertebrate fossils or scientifically significant invertebrate or plant fossils and their sensitivity to adverse impacts, with a higher class number indicating a higher potential.

- **Class 1 – Very Low.** Geologic units (igneous, metamorphic, or Precambrian) not likely to contain recognizable fossil remains.
- **Class 2 – Low.** Sedimentary geologic units not likely to contain vertebrate fossils or scientifically significant non-vertebrate fossils. (Including modern eolian, fluvial, and colluvial deposits etc...)
- **Class 3 – Moderate or Unknown.** Fossiliferous sedimentary geologic units where fossil content varies in significance, abundance, and predictable occurrence; or sedimentary units of unknown fossil potential.
  - **Class 3a – Moderate Potential.** The potential for a project to be sited on or impact a significant fossil locality is low, but is somewhat higher for common fossils.
  - **Class 3b – Unknown Potential.** Units exhibit geologic features and preservational conditions that suggest significant fossils could be present, but little information about the paleontological resources of the unit or the area is known.

- **Class 4 – High.** Geologic units containing a high occurrence of vertebrate fossils or scientifically significant invertebrate or plant fossils, but may vary in abundance and predictability.
  - **Class 4a** – Outcrop areas with high potential are extensive (greater than two acres) and paleontological resources may be susceptible to adverse impacts from surface disturbing actions.
  - **Class 4b** – Areas underlain by geologic units with high potential but have lowered risks of disturbance due to moderating circumstances such as a protective layer of soil or alluvial material; or outcrop areas are smaller than two contiguous acres.
- **Class 5 – Very High.** Highly fossiliferous geologic units that consistently and predictably produce vertebrate fossils or scientifically significant invertebrate or plant fossils.
  - **Class 5a** - Outcrop areas with very high potential are extensive (greater than two acres) and paleontological resources may be susceptible to adverse impacts from surface disturbing actions.
  - **Class 5b** - Areas underlain by geologic units with very high potential but have lowered risks of disturbance due to moderating circumstances such as a protective layer of soil or alluvial material; or outcrop areas are smaller than two contiguous acres.

It should be noted that many fossils, though common and unimpressive in and of themselves, can be important paleo-environmental, depositional, and chronostratigraphic indicators.

## LOCATION

Kerr McGee's proposed well pads, access roads, and pipelines for "NBU #920-12LT, 12N, 13D, 13F, 13G, 13J, 24AT & 24B" (Sec. 12, 13 & 24, T 9 S, R 20 E) are located on Ute Indian Reservation land some 2.5 miles south of the White River and 5 miles southeast of Ouray, Utah. The project area can be found on the Ouray SE 7.5 minute U. S. Geological Survey Quadrangle Map, Uintah County, Utah.

## PREVIOUS WORK

The basins of western North America have long produced some of the richest fossil collections in the world. Early Cenozoic sediments are especially well represented throughout the western interior. Paleontologists started field work in Utah's Uinta Basin as early as 1870 (Betts, 1871; Marsh, 1871, 1875a, 1875b). The Uinta Basin is located in the northeastern corner of Utah and covers approximately 31,000 sq. km (12,000 sq. miles) ranging in elevation from 1,465 to 2,130 m (4,800 to 7,000 ft) (Marsell, 1964; Hamblin et al., 1987). Middle to late Eocene time marked a period of dramatic change in the climate, flora, (Stucky, 1992) and fauna (Black and Dawson, 1966) of North America.

## GEOLOGICAL AND PALEONTOLOGICAL OVERVIEW

Early in the geologic history of Utah, some 1,000 to 600 Ma, an east-west trending basin developed creating accommodation for 25,000 feet of siliclastics. Uplift of that filled-basin during the early Cenozoic formed the Uinta Mountains (Rasmussen et al., 1999). With the rise of the Uinta Mountains the asymmetrical synclinal Uinta Basin is thought to have formed through the effects of down warping in connection with the uplift. Throughout the Paleozoic and Mesozoic deposition fluctuated between marine and non-marine environments laying down a thick succession of sediments in the area now occupied by the Uinta Basin. Portions of these beds crop out on the margins of the basin due to tectonic events during the late Mesozoic.

Early Tertiary Uinta Basin sediments were deposited in alternating lacustrine and fluvial environments. Large shallow lakes periodically covered most of the basin and surrounding areas during early to mid Eocene time (Abbott, 1957). These lacustrine sediments show up in the western part of the basin, dipping 2-3 degrees to the northeast and are lost in the subsurface on the east side. The increase of cross-bedded, coarse-grained sandstone and conglomerates preserved in paleo-channels indicates a transition to a fluvial environment toward the end of the epoch.

Four Eocene formations are recognized in the Uinta Basin: the Wasatch, Green River, Uinta and Duchesne River, respectively (Wood, 1941). The Uinta Formation is subdivided into two lithostratigraphic units namely: the Wagonhound Member (Wood, 1934), formerly known as Uinta A and B (Osborn, 1895, 1929) and the Myton Member previously regarded as the Uinta C.

Within the Uinta Basin in northeast Utah, the Uinta Formation in the western part of the basin is composed primarily of lacustrine sediments inter-fingering with over-bank deposits of silt, and mudstone and westward flowing channel sands and fluvial clays, muds, and sands in the east (Bryant et al, 1990; Ryder et al, 1976). Stratigraphic work done by early geologists and paleontologists within the Uinta Formation focused on the definition of rock units and attempted to define a distinction between early and late Uintan faunas (Riggs, 1912; Peterson and Kay, 1931; Kay 1934). More recent work focused on magnetostratigraphy, radioscopic chronology, and continental biostratigraphy (Flynn, 1986; Prothero, 1996). Well-known for its fossiliferous nature and distinctive mammalian fauna of mid-Eocene Age, the Uinta Formation is the type formation for the Uintan Land Mammal Age (Wood et al, 1941).

The Duchesne River Formation of the Uinta Basin in northeastern Utah is composed of a succession of fluvial and flood plain deposits composed of mud, silt, and sandstone. The source area for these late Eocene deposits is from the Uinta Mountains indicated by paleocurrent data (Anderson and Picard, 1972). In Peterson's (1931c) paper, the name "Duchesne Formation" was applied to the formation and it was later changed to the "Duchesne River Formation" by Kay (1934). The formation is divided up into four members: the Brennan Basin, Dry Gulch Creek, LaPoint, and Starr Flat (Anderson and Picard, 1972). Debates concerning the Duchesne River Formation, as to whether its age was late Eocene or early Oligocene, have surfaced throughout the literature of the last century (Wood et al., 1941; Scott 1945). Recent paleo-magnetostratigraphic work (Prothero, 1996) shows that the Duchesne River Formation is late Eocene in time.

## **FIELD METHODS**

In order to determine if the proposed project area contained any paleontological resources, a reconnaissance survey was performed. An on-site observation of the proposed areas undergoing surficial disturbance is necessary because judgments made from topographic maps alone are often unreliable. Areas of low relief have potential to be erosional surfaces with the possibility of bearing fossil materials rather than surfaces covered by unconsolidated sediment or soils.

When found within the proposed construction areas, outcrops and erosional surfaces were checked to determine if fossils were present and to assess needs. Careful effort is made during surveys to identify and evaluate significant fossil materials or fossil horizons when they are found. Microvertebrates, although rare, are occasionally found in anthills or upon erosional surfaces and are of particular importance.

## **PROJECT AREA**

The project area is situated in the Wagonhound Member (Uinta A & B) of the Uinta Formation. The following list provides a description of the individual wells and their associated pipelines and access roads.

### **NBU #920-12LT**

The proposed twin is located on the pad of existing well “NBU #920-12L” in the NW/SW quarter-quarter section of Sec. 12, T 9 S, R 20 E (Figure 1). The proposed twin is located among hills with outcrops of inter-bedded sand and siltstones. The sandstones are tan and maroon, fine to medium-grained, and 3 to 4 meters thick. The siltstones are green and purple and 2 to 3 meters thick. No fossils were found.

### **NBU #920-12N**

The proposed pipeline and access road begin at existing well ‘NBU #920-12L’ in the NW/SW quarter-quarter section of Sec. 12, T 9 S, R 20 E, then travel southeast for approximately 0.2 miles where they enter the proposed well pad in the SE/SW quarter-quarter section of Sec. 12, T 9 S, R 20 E (Figure 1). The proposed pipeline, access road, and well pad are located on muddy colluvium among hills with outcrops of inter-bedded sand and siltstones. The sandstones are tan and maroon, fine to medium-grained, and 3 to 4 meters thick. The siltstones are green and purple and 2 to 3 meters thick. Scattered, unidentifiable bone fragments and turtle shell fragments were found weathering out of the outcrops directly to the east of the staked area, but no other fossils were found.

### **NBU #920-13D**

The proposed pipeline and access road begin near the proposed well “NBU #920-12N” in the SW/ SW quarter-quarter section of Sec. 12, T 9 S, R 20 E and travel southwest for approximately 0.3 miles where they enter the proposed well pad in the NW/NW quarter-quarter section of Sec. 13, T 9 S, R 20 E (Figure 1). The proposed pipeline, access road, and well pad are located on hills with outcrops of inter-bedded sand and siltstones. The sandstones are tan and maroon, fine

to medium-grained, and 1 to 2 meters thick. The siltstones are green and purple and 3 to 4 meters thick. Scattered, isolated turtle shell fragments were found on the well pad. Very dense concentrations of turtle shell and limb fragments (*Echmatemys sp.?*) were found just to the north of the proposed access road weathering out of green siltstone.

#### **NBU #920-13F**

The proposed access road begins at an existing road in the SE/NE quarter-quarter section of Sec. 13, T 9 S, R 20 E and travels west approximately 0.1 miles. The proposed pipeline begins here and travels with the access road west approximately 0.4 miles where they enter the well pad in the NE/NW quarter-quarter section of Sec. 13, T 9 S, R 20 E (Figure 1). The proposed pipeline, access road, and well pad are located among rolling hills with outcrops of gray-green and tan sandstone. Dense concentrations of weathered turtle shell fragments were found all along the staked access road, especially where the road crosses sandstone outcrops.

#### **NBU #920-13G**

The proposed pipeline and access road begin at the proposed access road for “NBU #920-13F” and travel south >0.1 miles where they enter the proposed well pad in the SW/NE quarter-quarter section of Sec. 13, T 9 S, R 20 E (Figure 1). The proposed pipeline, access road, and well pad are located on rolling hills of sandy colluvium derived from underlying sandstone. A few small, tan, sandstone outcrops are located within the staked area. Scattered turtle shell fragments were found on the proposed well pad.

#### **NBU #920-13J**

The proposed access road begins at an existing road in the NW/NE quarter-quarter section of Sec. 24, T 9 S, R 20 E and travels in a generally northward direction for approximately 0.8 miles where it meets the proposed pipeline tie-in. Together the proposed access road and pipeline travel north for >0.1 miles where they enter the proposed well pad in the NW/SE quarter-quarter section of Sec. 13, T 9 S, R 20 E (Figure 1). The proposed pipeline, access road, and well pad are located among hills with outcrops of inter-bedded sand and siltstones. The sandstones are tan and maroon, fine to medium-grained, and 3 to 4 meters thick. The siltstones are green and purple and 2 to 3 meters thick. The proposed access road is located on an abandoned access road for the first 0.5 miles. Scattered turtle shell fragments were found all along the staked area with greater concentrations on the actual outcrops.

#### **NBU #920-24AT**

The proposed access road begins at the proposed road for “NBU #920-13J” and travels east >0.1 miles to the well pad in the NE/NE quarter-quarter section of Sec. 24, T 9 S, R 20 E (Figure 1). The proposed pipeline begins near the proposed well pad “NBU #920-24B” in the NW/NE quarter-quarter section of Sec. 24, T 9 S, R 20 E and travels in a generally eastern direction approximately 0.4 miles where it enters the well pad in the NE/NE quarter-quarter section of Sec. 24, T 9 S, R 20 E. The proposed pipeline, access road, and well pad are located among hills with outcrops of inter-bedded sand and siltstones. The sandstones are tan and maroon, fine to medium-grained, and 3 to 4 meters thick. The siltstones are green and purple and 2 to 3 meters thick. Scattered turtle shell fragments were found on the well pad.

**NBU #920-24B**

The proposed access road begins along the proposed access road for “NBU #920-13J” in the SW/SE quarter-quarter section of Sec. 13, T 9 S, R 20 E and travels SW approximately 0.2 miles to where it is joined by the proposed pipeline (Figure 1). The proposed access road and pipeline then travel southwest together for >0.1 miles where they enter the proposed well pad in the NW/NE quarter-quarter section of Sec. 24, T 9 S, R 20 E. The proposed pipeline, access road, and well pad are located among hills with outcrops of inter-bedded sand and siltstones. The sandstones are tan and maroon, fine to medium-grained, and 3 to 4 meters thick. The siltstones are green and purple and 2 to 3 meters thick. The proposed access road crosses a significant drainage near its start. Scattered turtle shell fragments were found over a wide area on the well pad.

**SURVEY RESULTS**

<b>PROJECT</b>	<b>GEOLOGY</b>	<b>PALEONTOLOGY</b>
“NBU #920-12LT” (Sec. 12, T 9 S, R 20 E)	The proposed twin is located among hills with outcrops of inter-bedded sand and siltstones. The sandstones are tan and maroon, fine to medium-grained, and 3 to 4 meters thick. The siltstones are green and purple and 2 to 3 meters thick.	No fossils were found. <b>Class 3a</b>
“NBU #920-12N” (Sec. 12, T 9 S, R 20 E)	The proposed pipeline, access road, and well pad are located on muddy colluvium among hills with outcrops of inter-bedded sand and siltstones. The sandstones are tan and maroon, fine to medium-grained, and 3 to 4 meters thick. The siltstones are green and purple and 2 to 3 meters thick.	Scattered, unidentifiable bone fragments and turtle shell fragments were found weathering out of the outcrops directly to the east of the staked area, but no other fossils were found. <b>Class 3a</b>
“NBU #920-13D” (Sec. 12 & 13, T 9 S, R 20 E)	The proposed pipeline, access road, and well pad are located on hills with outcrops of inter-bedded sand and siltstones. The sandstones are tan and maroon, fine to medium grained, and 1 to 2 meters thick. The siltstones are green and purple and 3-4 meters thick.	Scattered and isolated turtle shell fragments were found on the well pad. Very dense concentrations of turtle shell and limb fragments ( <i>Echmatemys sp.?</i> ) were found just to the north of the proposed access road weathering out of green siltstone. <b>Class 4a</b>
“NBU #920-13F” (Sec. 13, T 9 S, R 20 E)	The proposed pipeline, access road, and well pad are located among rolling hills with outcrops of gray-green and tan sandstone.	Dense concentrations of weathered turtle shell fragments were found all along the staked access road especially where the road crosses sandstone outcrops. <b>Class 4a</b>

<p>“<b>NBU #920-13G</b>” (Sec. 13, T 9 S, R 20 E)</p>	<p>The proposed pipeline, access road, and well pad are located on rolling hills of sandy colluvium derived from underlying sandstone. A few small tan sandstone outcrops are located within the staked area.</p>	<p>Scattered turtle shell fragments were found on the proposed well pad. <b>Class 4b</b></p>
<p>“<b>NBU #920-13J</b>” (Sec. 13, T 9 S, R 20 E)</p>	<p>The proposed pipeline, access road, and well pad are located among hills with outcrops of inter-bedded sand and siltstones. The sandstones are tan and maroon, fine to medium grained, and 3 to 4 meters thick. The siltstones are green and purple and 2 to 3 meters thick. The proposed access road is located on an abandoned access road for the first 0.5 miles.</p>	<p>Scattered turtle shell fragments were found all along the staked area with greater concentrations on the actual outcrops. <b>Class 4a</b></p>
<p>“<b>NBU #920-24AT</b>” (Sec. 24, T 9 S, R 20 E)</p>	<p>The proposed pipeline, access road, and well pad are located among hills with outcrops of inter-bedded sand and siltstones. The sandstones are tan and maroon, fine to medium-grained, and 3 to 4 meters thick. The siltstones are green and purple and 2 to 3 meters thick.</p>	<p>Scattered turtle shell fragments were found on the well pad. <b>Class 3a</b></p>
<p>“<b>NBU #920-24B</b>” (Sec. 24, T 9 S, R 20 E)</p>	<p>The proposed pipeline, access road, and well pad are located among hills with outcrops of inter-bedded sand and siltstones. The sandstones are tan and maroon, fine to medium-grained, and 3 to 4 meters thick. The siltstones are green and purple and 2 to 3 meters thick. The proposed access road crosses a significant drainage near its start.</p>	<p>Scattered turtle shell fragments were found over a wide area on the well pad. <b>Class 3a</b></p>

## **RECOMMENDATIONS**

A reconnaissance survey was conducted for Kerr McGee's proposed well pads, access roads, and pipelines for "NBU #920-12LT, 12N, 13D, 13F, 13G, 13J, 24AT & 24B" (Sec. 12, 13 & 24, T 9 S, R 20 E). The proposed well pads and the associated access roads and pipelines covered in this report showed some signs of vertebrate fossils, therefore, we advise the following recommendations.

**We recommend that due to the number of vertebrate fossils found, that the proposed access roads, pipelines and well pads for "NBU #920-13D" and "NBU #920-13F" be monitored during the construction process.**

**We recommend that no other paleontological restrictions should be placed on the development of the remainder of the projects included in this report.**

**Nevertheless, if any vertebrate fossil(s) are found during construction within the project area, recommendations are that a paleontologist is immediately notified in order to collect fossil materials in danger of being destroyed. Any vertebrate fossils found should be carefully moved outside of the construction areas to be check by a permitted paleontologist.**

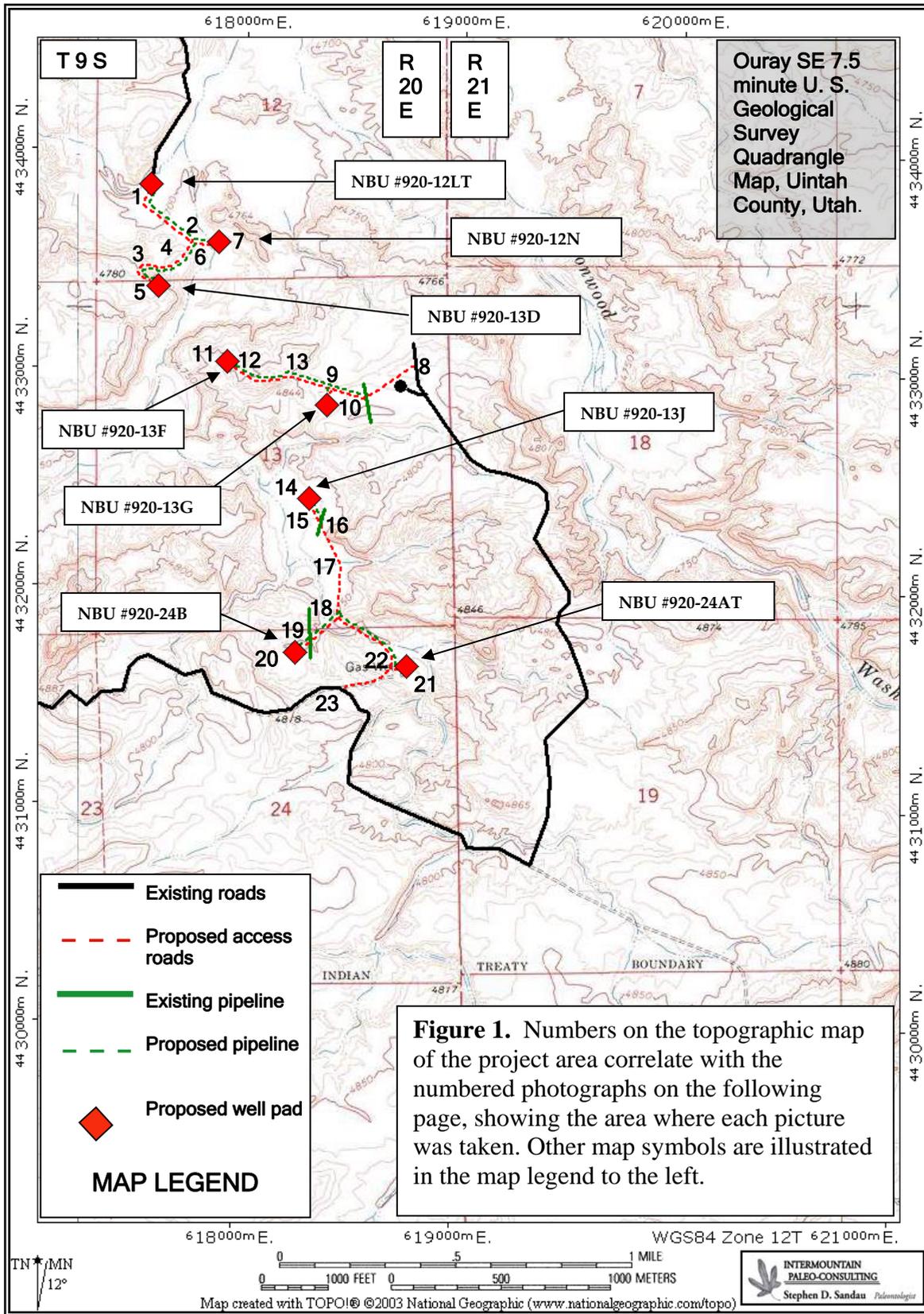


Figure 1. continued. . .

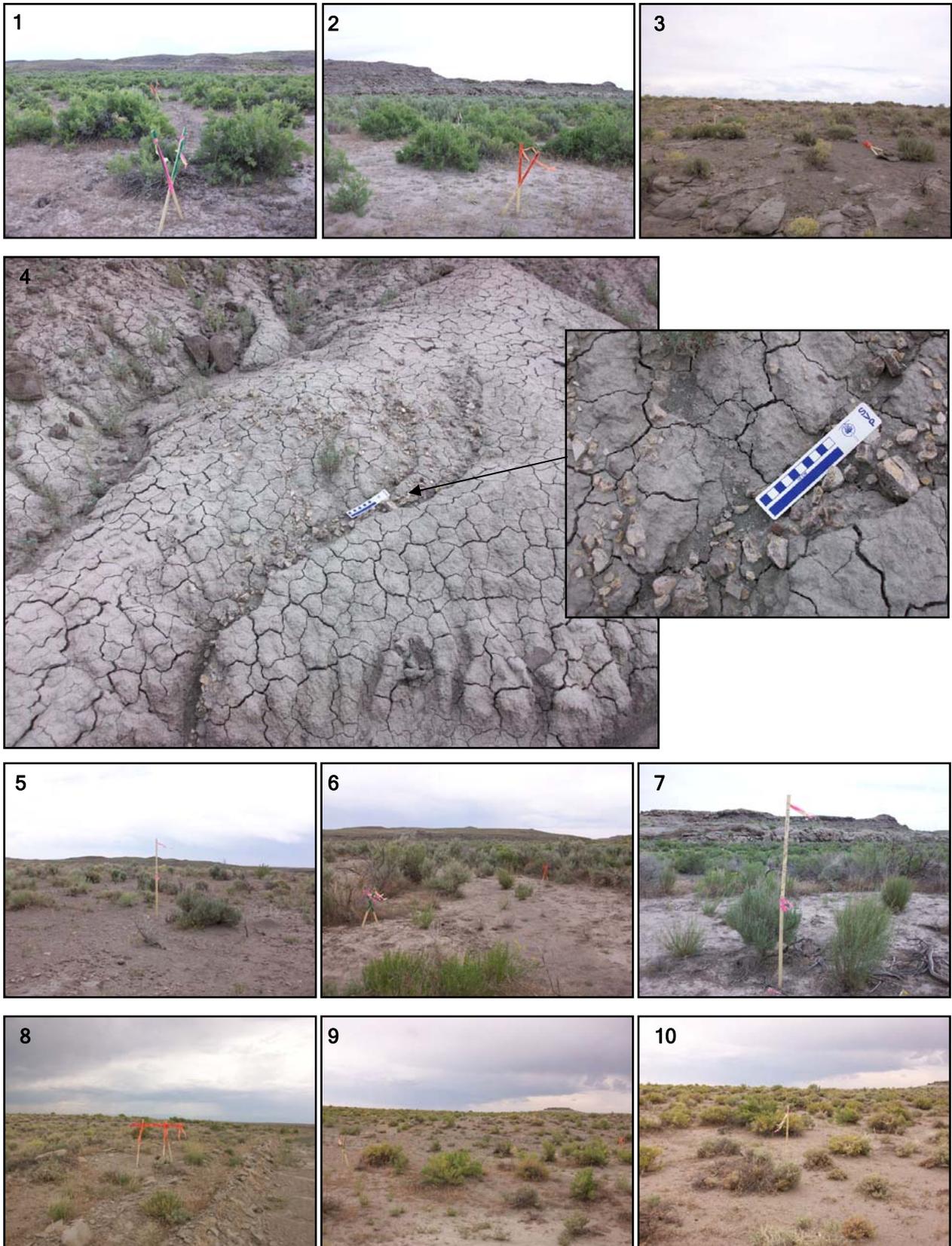
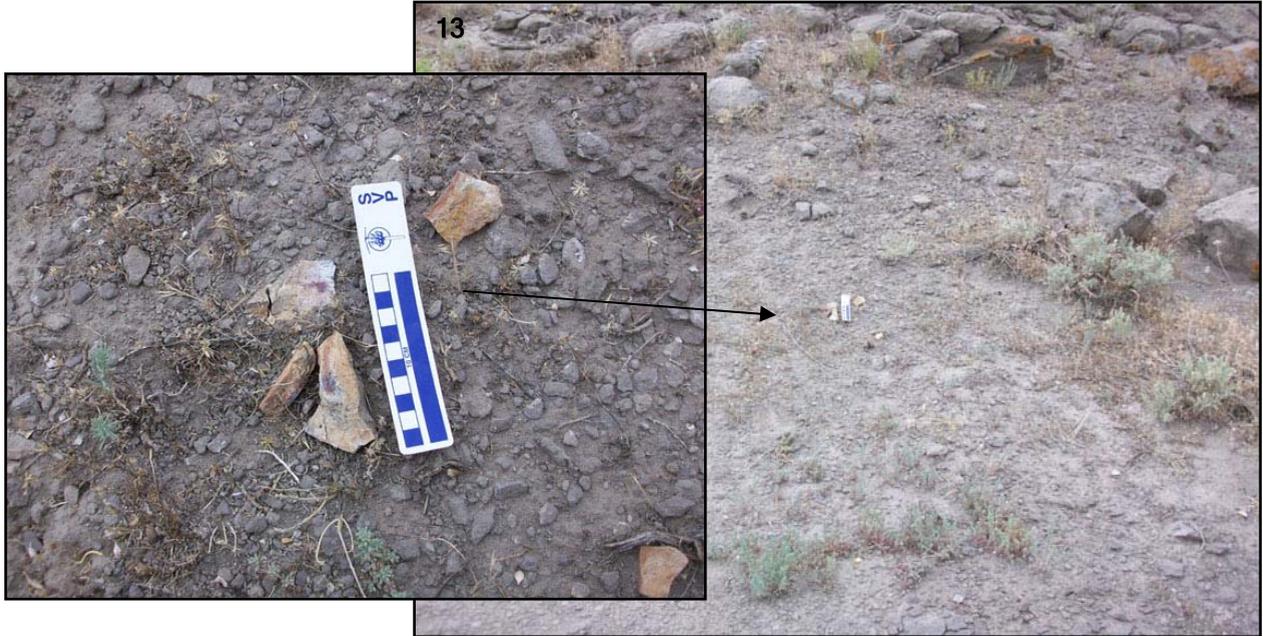


Figure 1. *continued. . .*



**Figure 1.** *continued. . .*



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API Number: 4304750151

Well Name: NBU 920-13G

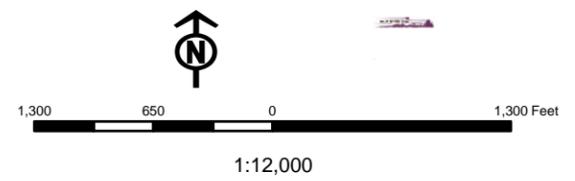
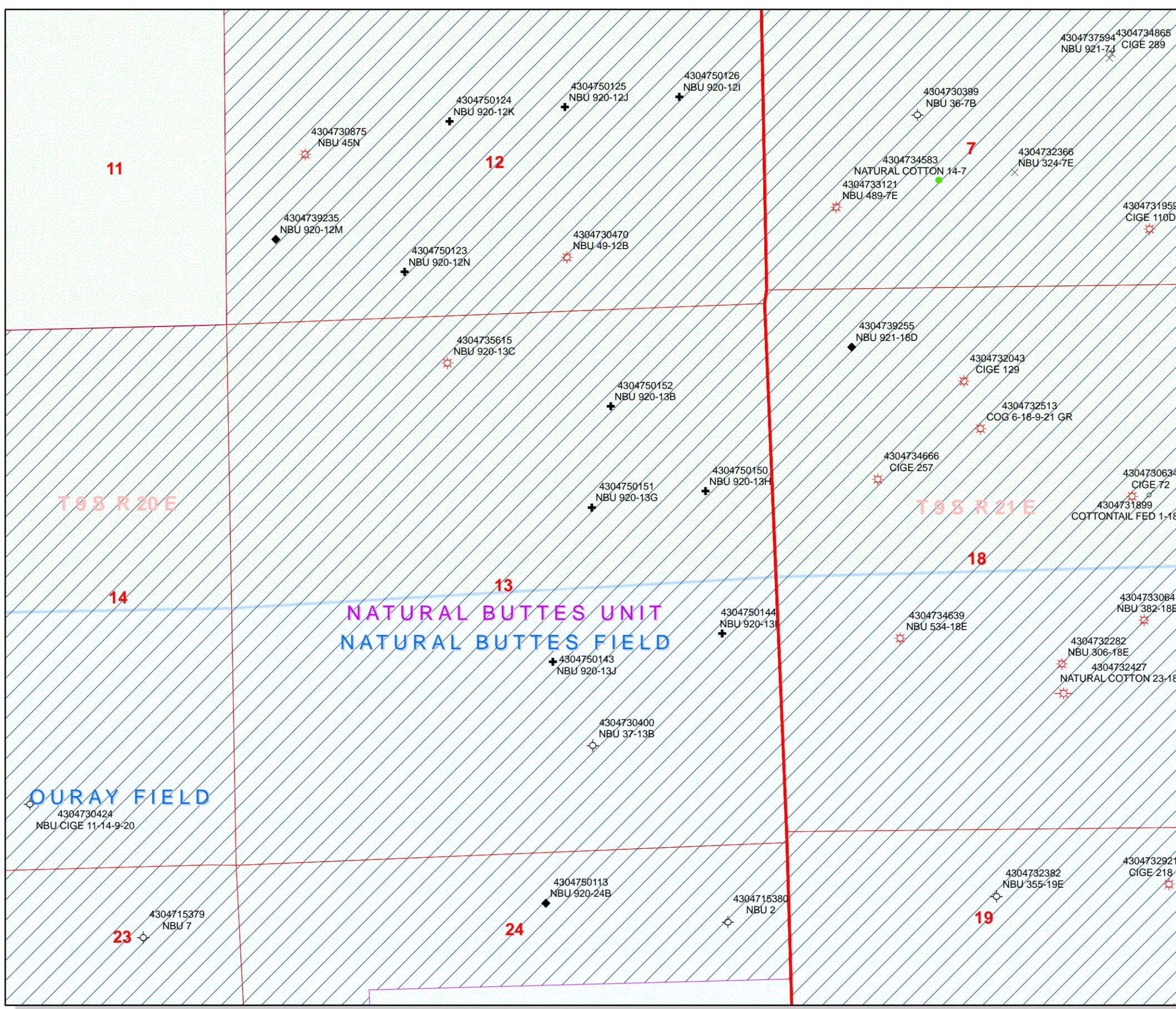
Township 09.0 S Range 20.0 E Section 13

Meridian: SLBM

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

Map Prepared:  
Map Produced by Diana Mason

<b>Units</b>	<b>Wells Query Events</b>
<b>STATUS</b>	<all other values>
ACTIVE	<b>GIS_STAT_TYPE</b>
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
<b>Fields</b>	POW
<b>STATUS</b>	RET
ACTIVE	SGW
COMBINED	SOW
Sections	TA
Township	TW
	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)

October 1, 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)		
43-047-50157	NBU 920-13F	Sec 13 T09S R20E 1321 FNL 1950 FWL
43-047-40380	NBU 920-13D	Sec 13 T09S R20E 0186 FNL 0807 FWL
43-047-50163	NBU 920-12E	Sec 12 T09S R20E 2080 FNL 0747 FWL
43-047-50151	NBU 920-13G	Sec 13 T09S R20E 1907 FNL 1782 FEL
43-047-50160	NBU 920-12D	Sec 12 T09S R20E 0491 FNL 0857 FWL
43-047-50164	NBU 920-13A	Sec 13 T09S R20E 0625 FNL 0586 FEL
43-047-50165	NBU 1022-27C	Sec 27 T10S R22E 0922 FNL 2341 FWL

(Proposed PZ MESA VERDE)

43-047-50161	NBU 920-24AT	Sec 24 T09S R20E 0709 FNL 0704 FEL
43-047-50162	NBU 920-12LT	Sec 12 T09S R20E 1538 FSL 0792 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:10-1-08

# WORKSHEET APPLICATION FOR PERMIT TO DRILL

**APD RECEIVED:** 9/23/2008

**API NO. ASSIGNED:** 43047501510000

**WELL NAME:** NBU 920-13G

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

**PHONE NUMBER:** 720 929-6226

**CONTACT:** Kevin McIntyre

**PROPOSED LOCATION:** SWNE 13 090S 200E

**Permit Tech Review:**

**SURFACE:** 1907 FNL 1782 FEL

**Engineering Review:**

**BOTTOM:** 1907 FNL 1782 FEL

**Geology Review:**

**COUNTY:** UINTAH

**LATITUDE:** 40.03759

**LONGITUDE:** -109.61143

**UTM SURF EASTINGS:** 618468.00

**NORTHINGS:** 4432643.00

**FIELD NAME:** NATURAL BUTTES

**LEASE TYPE:** 1 - Federal

**LEASE NUMBER:** UTU-0579

**PROPOSED FORMATION:** MVRD

**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 920-13G  
**API Well Number:** 43047501510000  
**Lease Number:** UTU-0579  
**Surface Owner:** INDIAN  
**Approval Date:** 10/21/2008

**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 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.

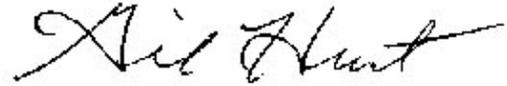
Notify the Division prior to commencing operations to plug and abandon the well.

- 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 written in a cursive style with a long, sweeping horizontal stroke at the end.

Gil Hunt  
Associate Director, Oil & Gas

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>  <b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-0579
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  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.	<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b> Ute  <b>7. UNIT or CA AGREEMENT NAME:</b> NATURAL BUTTES
<b>1. TYPE OF WELL</b> Gas Well	<b>8. WELL NAME and NUMBER:</b> NBU 920-13G
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.	<b>9. API NUMBER:</b> 43047501510000
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	<b>PHONE NUMBER:</b> 720 929-6007 Ext  <b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 1907 FNL 1782 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWNE Section: 13 Township: 09.0S Range: 20.0E Meridian: S	<b>COUNTY:</b> UINTAH  <b>STATE:</b> UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 10/10/2009  <input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:  <input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:  <input type="checkbox"/> <b>DRILLING REPORT</b> 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:

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 08, 2009

By: 

<b>NAME (PLEASE PRINT)</b> Danielle Piernot	<b>PHONE NUMBER</b> 720 929-6156	<b>TITLE</b> Regulatory Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 10/6/2009	



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 43047501510000

API: 43047501510000

Well Name: NBU 920-13G

Location: 1907 FNL 1782 FEL QTR SWNE SEC 13 TWNP 090S RNG 200E MER S

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

Date Original Permit Issued: 10/21/2008

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: 10/6/2009

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

Date: October 08, 2009

By: [Signature]

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>  <b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-0579
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<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  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.	<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b> Ute
<b>1. TYPE OF WELL</b> Gas Well	<b>8. WELL NAME and NUMBER:</b> NBU 920-13G
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.	<b>9. API NUMBER:</b> 43047501510000
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	<b>PHONE NUMBER:</b> 720 929-6007 Ext
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 1907 FNL 1782 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWNE Section: 13 Township: 09.0S Range: 20.0E Meridian: S	<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES  <b>COUNTY:</b> Uintah  <b>STATE:</b> Utah

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 6/21/2010	<input type="checkbox"/> ACIDIZE	<input checked="" type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> 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"/> <b>SPUD REPORT</b> Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> <b>DRILLING REPORT</b> 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:

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

Kerr-McGee Oil & Gas Onshore LP (Kerr-McGee) respectfully requests to change the surface casing size for this well from FROM: 9-5/8" TO: 8-5/8". Additionally, Kerr-McGee requests to change the cement program for this well due to a revised drilling procedure. The production casing will still be cemented it's entire length to the surface. Please see the attached drilling program for additional details. All other information remains the same. Please contact the undersigned with any questions and/or comments. Thank you.

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

Date: June 15, 2010

By: *Danielle Piernot*

<b>NAME (PLEASE PRINT)</b> Danielle Piernot	<b>PHONE NUMBER</b> 720 929-6156	<b>TITLE</b> Regulatory Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 6/14/2010	





**KERR-McGEE OIL & GAS ONSHORE LP  
DRILLING PROGRAM**

**CASING PROGRAM**

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS		
						BURST	COLLAPSE	TENSION
CONDUCTOR	14"	0-40'				3,390	1,880	348,000
SURFACE	8-5/8"	0 to 2690	28.00	IJ-55	LTC	0.74*	1.49	4.62
PRODUCTION	4-1/2"	0 to 9600	11.60	I-80	BTC	7,780	6,350	278,000
		9600 to 10600	11.60	HCP-110	BTC	1.71	1.02	2.79
						10,690	8,650	367,000
						2.35	1.26	39.11

\*Burst on surface casing is controlled by fracture gradient as shoe with gas gradient above. D.F. = 2.00

- 1) Max Anticipated Surf. Press. (MASP) (Surf Csg) = (Pore Pressure at next csg point - (0.22 psi/ft - partial evac grad x TVD of next csg point))  
 (Burst Assumptions: TD = 12.5 ppg) 0.22 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 4,437 psi**
- 3) Maximum Anticipated Bottom Hole Pressure (MABHP) = Pore Pressure at TD  
 (Burst Assumptions: TD = 12.5 ppg) 0.64 psi/ft = bottomhole gradient  
 (Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing \* Buoy. Fact. of water)  
**MABHP 6,769 psi**

**CEMENT PROGRAM**

	FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE LEAD	500'	Premium cmt + 2% CaCl + 0.25 pps flocele	180	60%	15.80	1.15
Option 1 TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt + 2% CaCl + 0.25 pps flocele	270	0%	15.80	1.15
<b>NOTE: If well will circulate water to surface, option 2 will be utilized</b>						
SURFACE LEAD	2,190'	Prem cmt + 16% Gel + 10 pps gilsonite + 0.25 pps Flocele + 3% salt BWO	200	35%	11.00	3.82
TAIL	500'	Premium cmt + 2% CaCl + 0.25 pps flocele	150	35%	15.80	1.15
TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.80	1.15
PRODUCTION LEAD	4,670'	Premium Lite II + 3% KCl + 0.25 pps celloflake + 5 pps gilsonite + 10% gel + 0.5% extender	350	20%	11.00	3.38
TAIL	5,930'	50/50 Poz/G + 10% salt + 2% gel + 0.1% R-3	1,250	20%	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. Centralize first 3 joints & every third joint for a total of 15 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. 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.

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: \_\_\_\_\_  
John Huycke / Emile Goodwin

DATE: \_\_\_\_\_

DRILLING SUPERINTENDENT: \_\_\_\_\_  
John Merkel / Lovel Young

DATE: \_\_\_\_\_

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>  <b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-0579
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<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  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.	<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b> Ute  <b>7. UNIT or CA AGREEMENT NAME:</b> NATURAL BUTTES
<b>1. TYPE OF WELL</b> Gas Well	<b>8. WELL NAME and NUMBER:</b> NBU 920-13G
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.	<b>9. API NUMBER:</b> 43047501510000
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	<b>PHONE NUMBER:</b> 720 929-6007 Ext
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 1907 FNL 1782 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWNE Section: 13 Township: 09.0S Range: 20.0E Meridian: S	<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES  <b>COUNTY:</b> Uintah  <b>STATE:</b> UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 6/21/2010  <input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:  <input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:  <input type="checkbox"/> <b>DRILLING REPORT</b> 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 checked="" type="checkbox"/> <b>ALTER CASING</b> <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 checked="" type="checkbox"/> <b>OTHER</b>	<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:

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Kerr-McGee Oil & Gas Onshore LP (Kerr-McGee) respectfully requests to change the surface casing size for this well from FROM: 9-5/8" TO: 8-5/8". Additionally, Kerr-McGee requests to change the cement program for this well due to a revised drilling procedure. The production casing will still be cemented it's entire length to the surface. Please see the attached drilling program for additional details. All other information remains the same. Please contact the undersigned with any questions and/or comments. Thank you.

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

Date: June 15, 2010

By: *Danielle Piernot*

<b>NAME (PLEASE PRINT)</b> Danielle Piernot	<b>PHONE NUMBER</b> 720 929-6156	<b>TITLE</b> Regulatory Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 6/14/2010	





**KERR-McGEE OIL & GAS ONSHORE LP  
DRILLING PROGRAM**

**CASING PROGRAM**

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS		
						BURST	COLLAPSE	TENSION
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 (Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing \* Buoy. Fact. of water)  
**MASP 4,437 psi**
- 2) MASP (Prod Casing) = Pore Pressure at TD - (0.22 psi/ft - partial evac gradient x TD)  
 (Burst Assumptions: TD = 12.5 ppg) 0.64 psi/ft = bottomhole gradient  
 (Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing \* Buoy. Fact. of water)  
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	FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
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		+ 2% CaCl + 0.25 pps flocele				
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SURFACE LEAD	2,190'	Prem cmt + 16% Gel + 10 pps gilsonite	200	35%	11.00	3.82
		+ 0.25 pps Flocele + 3% salt BWOC				
TAIL	500'	Premium cmt + 2% CaCl	150	35%	15.80	1.15
		+ 0.25 pps flocele				
TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.80	1.15
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		celloflake + 5 pps gilsonite + 10% gel				
		+ 0.5% extender				
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		+ 0.1% R-3				

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**ADDITIONAL INFORMATION**

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

DRILLING ENGINEER: \_\_\_\_\_  
John Huycke / Emile Goodwin

DATE: \_\_\_\_\_

DRILLING SUPERINTENDENT: \_\_\_\_\_  
John Merkel / Lovel Young

DATE: \_\_\_\_\_

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>  <b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-0579
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<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  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.	<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b> Ute  <b>7. UNIT or CA AGREEMENT NAME:</b> NATURAL BUTTES
<b>1. TYPE OF WELL</b> Gas Well	<b>8. WELL NAME and NUMBER:</b> NBU 920-13G
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.	<b>9. API NUMBER:</b> 43047501510000
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	<b>PHONE NUMBER:</b> 720 929-6007 Ext
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 1907 FNL 1782 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWNE Section: 13 Township: 09.0S Range: 20.0E Meridian: S	<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES  <b>COUNTY:</b> UINTAH  <b>STATE:</b> UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 10/20/2010	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> 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"/> <b>SPUD REPORT</b> Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> <b>DRILLING REPORT</b> 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: <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 25, 2010

By: 

<b>NAME (PLEASE PRINT)</b> Danielle Piernot	<b>PHONE NUMBER</b> 720 929-6156	<b>TITLE</b> Regulatory Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 10/19/2010	



**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 43047501510000**

**API:** 43047501510000

**Well Name:** NBU 920-13G

**Location:** 1907 FNL 1782 FEL QTR SWNE SEC 13 TWP 090S RNG 200E MER S

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

**Date Original Permit Issued:** 10/21/2008

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:** 10/19/2010

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

**Date:** October 25, 2010

**By:**

## BLM - Vernal Field Office - Notification Form

Operator KERR-McGEE OIL & GAS Rig Name/# BUCKET RIG  
 Submitted By ANDY LYTLE Phone Number 720.929.6100  
 Well Name/Number NBU 920-13G  
 Qtr/Qtr SWNE Section 13 Township 9S Range 20E  
 Lease Serial Number UTU-O579  
 API Number 4304750151

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

Date/Time 12/23/2010 08:00 HRS AM  PM

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

- Surface Casing  
 Intermediate Casing  
 Production Casing  
 Liner  
 Other

RECEIVED

DEC 21 2010

DIV. OF OIL, GAS &amp; MINING

Date/Time 01/20/2011 08:00 HRS AM  PM

BOPE

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

Date/Time \_\_\_\_\_ AM  PM

Remarks ESTIMATED DATE AND TIME. PLEASE CONTACT KENNY GATHINGS AT

435.828.0986 OR LOVEL YOUNG AT 435.781.7051

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>  <b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-0579
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  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.	<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b> Ute  <b>7. UNIT or CA AGREEMENT NAME:</b> NATURAL BUTTES
<b>1. TYPE OF WELL</b> Gas Well	<b>8. WELL NAME and NUMBER:</b> NBU 920-13G
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<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 1907 FNL 1782 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWNE Section: 13 Township: 09.0S Range: 20.0E Meridian: S	<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES  <b>COUNTY:</b> UINTAH  <b>STATE:</b> UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input checked="" type="checkbox"/> <b>SPUD REPORT</b> Date of Spud: 12/23/2010	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

MIRU PETE MARTIN BUCKET RIG. DRILLED 20" CONDUCTOR HOLE TO 40'.  
 RAN 14" 36.7# SCHEDULE 10 CONDUCTOR PIPE. CMT W/ 28 SX READY MIX  
 SPUD WELL LOCATION ON DECEMBER 23, 2010 AT 11:00 HRS.

**Accepted by the**  
**Utah Division of**  
**Oil, Gas and Mining**  
**FOR RECORD ONLY**  
 12/28/2010

<b>NAME (PLEASE PRINT)</b> Gina Becker	<b>PHONE NUMBER</b> 720 929-6086	<b>TITLE</b> Regulatory Analyst II
<b>SIGNATURE</b> N/A	<b>DATE</b> 12/28/2010	

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

FORM 6

**ENTITY ACTION FORM**

Operator: KERR McGEE OIL & GAS ONSHORE LP Operator Account Number: N 2995  
 Address: P.O. Box 173779  
city DENVER  
state CO zip 80217 Phone Number: (720) 929-6100

**Well 1**

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304750153	NBU 920-12P		SESE	12	9S	20E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
B	99999	2900	12/22/2010		12/29/10		
<b>Comments:</b> MIRU PETE MARTIN BUCKET RIG. <i>WSTMVD</i> SPUD WELL LOCATION ON 12/22/2010 AT 11:00 HRS.							

**Well 2**

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304750151	NBU 920-13G		SWNE	13	9S	20E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
B	99999	2900	12/23/2010		12/29/10		
<b>Comments:</b> MIRU PETE MARTIN BUCKET RIG. <i>WSTMVD</i> SPUD WELL LOCATION ON 12/23/2010 AT 11:00 HRS.							

**Well 3**

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
<b>Comments:</b>							

**ACTION CODES:**

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

**RECEIVED**  
**DEC 28 2010**

GINA BECKER  
 Name (Please Print)  
  
 Signature  
 REGULATORY ANALYST 12/28/2010  
 Title Date

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>  <b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-0579
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  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.	<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b> Ute  <b>7. UNIT or CA AGREEMENT NAME:</b> NATURAL BUTTES
<b>1. TYPE OF WELL</b> Gas Well	<b>8. WELL NAME and NUMBER:</b> NBU 920-13G
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.	<b>9. API NUMBER:</b> 43047501510000
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	<b>PHONE NUMBER:</b> 720 929-6515 Ext
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 1907 FNL 1782 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWNE Section: 13 Township: 09.0S Range: 20.0E Meridian: S	<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES  <b>COUNTY:</b> UINTAH  <b>STATE:</b> UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> 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"/> <b>SPUD REPORT</b> Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input checked="" type="checkbox"/> <b>DRILLING REPORT</b> Report Date: 2/5/2011	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

MIRU CAPSTAR AIR RIG #311 ON FEBRUARY 2, 2011. DRILLED 12 1/4" SURFACE HOLE TO 2830'. RAN 8 5/8" 28# IJ-55 SURFACE CSG. PUMP 50 BBLS FRESH WATER. PUMP 20 BBLS GEL WATER. LEAD CEMENT W/ 350 SX CLASS G PREM @ 11.0 PPG, 3.52 YD. TAILED CEMENT W/ 275 SX CLASS G PREM LITE @ 15.8 PPG, 1.15 YD. DROP PLUG ON THE FLY, DISPLACED W/ 176.5 BBLS WATER. 490 PSI OF LIFT @ 2 BBLS/MIN. 15 BBLS LEAD TO SURFACE. BUMP PLUG W/ 900 PSI. FLOAT HELD. RUN 100' OF 1" PIPE & CEMENT 65 SX CLASS G PREM LITE @ 15.8 PPG, 1.15 YD. CEMENT TO SURFACE. WORT.

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

<b>NAME (PLEASE PRINT)</b> Gina Becker	<b>PHONE NUMBER</b> 720 929-6086	<b>TITLE</b> Regulatory Analyst II
<b>SIGNATURE</b> N/A		<b>DATE</b> 2/7/2011

SUBMIT AS EMAIL

Print Form

BLM - Vernal Field Office - Notification Form

Operator KERR MAGEE Rig Name/# PIONEER 69  
Submitted By DALTON KING Phone Number 435-828-0982  
Well Name/Number NBU 920-13G  
Qtr/Qtr SW/NE Section 13 Township 9S Range 20E  
Lease Serial Number UTU-0579  
API Number 43-047-50151

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

Date/Time \_\_\_\_\_ AM  PM

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

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

Date/Time \_\_\_\_\_ AM  PM

BOPE

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

Date/Time 03/28/2011 13:00 AM  PM

Remarks TIME IS ESTIMATED

RECEIVED

MAR 28 2011

DIV. OF OIL, GAS & MINING

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> 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.		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b> Ute
		<b>7. UNIT or CA AGREEMENT NAME:</b> NATURAL BUTTES
<b>1. TYPE OF WELL</b> Gas Well	<b>8. WELL NAME and NUMBER:</b> NBU 920-13G	
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.	<b>9. API NUMBER:</b> 43047501510000	
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	<b>PHONE NUMBER:</b> 720 929-6515 Ext	<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 1907 FNL 1782 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWNE Section: 13 Township: 09.0S Range: 20.0E Meridian: S	<b>COUNTY:</b> UINTAH	
		<b>STATE:</b> UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 4/10/2011	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER
		OTHER: <input type="text"/>
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.		
MIRU ROTARY RIG. FINISHED DRILLING FROM 2830' TO 10,710' ON APRIL 7, 2011. RAN 4-1/2" 11.6# I-80 PRODUCTION CASING TO 9551'. RAN 4 1/2" 11.6# P110 CSG FROM 9551' TO 10,704'. CEMENTED PRODUCTION CASING. RELEASED PIONEER RIG 69 ON APRIL 10, 2011 @ 03:00 HRS. DETAILS OF CEMENT JOB WILL BE INCLUDED WITH THE WELL COMPLETION REPORT. WELL IS WAITING ON FINAL COMPLETION ACTIVITIES.		
<b>Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY</b>		
<b>NAME (PLEASE PRINT)</b> Gina Becker	<b>PHONE NUMBER</b> 720 929-6086	<b>TITLE</b> Regulatory Analyst II
<b>SIGNATURE</b> N/A	<b>DATE</b> 4/11/2011	

SUBMIT AS EMAIL

Print For

BLM - Vernal Field Office - Notification Form

Operator ANADARKO Rig Name/# PIONEER 69  
Submitted By BRAD PEDERSEN Phone Number 435-828-0982  
Well Name/Number NBU 920-13G  
Qtr/Qtr SW/NE Section 13 Township 9S Range 20E  
Lease Serial Number UTU-0579  
API Number 43-047-50151

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

Date/Time \_\_\_\_\_ AM  PM

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

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

Date/Time 4/9/2011 05:00 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 TIME IS APPROXAMATE

RECEIVED

APR 13 2011

DIV. OF OIL, GAS & MINING

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
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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.		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b> Ute
		<b>7. UNIT or CA AGREEMENT NAME:</b> NATURAL BUTTES
<b>1. TYPE OF WELL</b> Gas Well	<b>8. WELL NAME and NUMBER:</b> NBU 920-13G	
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.	<b>9. API NUMBER:</b> 43047501510000	
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	<b>PHONE NUMBER:</b> 720 929-6515 Ext	<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES
<b>4. LOCATION OF WELL FOOTAGES AT SURFACE:</b> 1907 FNL 1782 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWNE Section: 13 Township: 09.0S Range: 20.0E Meridian: S	<b>COUNTY:</b> UINTAH	
		<b>STATE:</b> UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start:  <input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:  <input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:  <input checked="" type="checkbox"/> <b>DRILLING REPORT</b> Report Date: 6/20/2011	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <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"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input checked="" type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> WILDCAT WELL DETERMINATION <input type="checkbox"/> OTHER	
<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>		
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. THE SUBJECT WELL WAS PLACED ON PRODUCTION ON 06/20/2011 AT 6:00 PM. THE CHRONOLOGICAL WELL HISTORY WILL BE SUBMITTED WITH THE WELL COMPLETION REPORT.		
<b>Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY</b>		
<b>NAME (PLEASE PRINT)</b> Sheila Wopsock	<b>PHONE NUMBER</b> 435 781-7024	<b>TITLE</b> Regulatory Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 6/29/2011	

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>  <b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-0579
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11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 8/11/2011  <input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:  <input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:  <input type="checkbox"/> <b>DRILLING REPORT</b> 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 checked="" 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: 50px;" type="text"/>

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

The subject well was recently completed and delivered first production on 6/20/2011. The operator requests authorization to set a CIBP over the bottom zone in the Mesaverde for water shut-off. Please see the attached procedure. Please contact the undersigned if you have any questions and/or concerns. Thank you.

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

Date: 08/17/2011

By: *Derek Quist*

<b>NAME (PLEASE PRINT)</b> Andy Lytle	<b>PHONE NUMBER</b> 720 929-6100	<b>TITLE</b> Regulatory Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 8/9/2011	

**NBU 920-13G****WO or AFE#: 2022095**

**Water Shut Off**  
**SWNE – Section 13 – T9S – R20E**  
**Uintah County, UT**

**DATE:** 8/09/11                      **ELEVATIONS:**            4782' GL                      4800' KB

**TOTAL DEPTH:**    10710'                      **PBTD:** 10659'

**SURFACE CASING:**                      8 5/8", 28# J-55 LT&C @ 2820'  
**PRODUCTION CASING:**                4 1/2", 11.6#, I-80 BT&C @ 9551'  
     4 1/2", 11.6#, P-110 BT&C @ 9551-10704'  
     Marker Joint **5213-5232 and 8381-8401'**

**TUBULAR PROPERTIES:**

	Drift inches	Collapse psi	Burst Psi	Capacities		
				Gal./ft.	Cuft/ft.	Bbl./ft.
2.375" 4.7# L-80 tbg.	1.901	11780	11200	0.1624	0.02173	0.00387
4.5" 11.6# I-80 csg	3.875	6350	7780	0.6528	0.0872	0.01554
4.5" 11.6# P110 csg	3.875	7580	10691	0.6528	0.0872	0.01554
2.375" X 4.5" annulus				0.4226	0.0565	0.01006

**PERFORATIONS:**

Well Name	Date	Top	Bottom	SPF	Stage
		<b>EOT @ 8224'</b>			
NBU 920-13G	7/5/2011	8,382.00	8,386.00	3	7
NBU 920-13G	7/5/2011	8,495.00	8,498.00	3	7
NBU 920-13G	7/5/2011	8,586.00	8,587.00	4	6
NBU 920-13G	7/5/2011	8,612.00	8,615.00	4	6
NBU 920-13G	7/5/2011	8,712.00	8,714.00	4	6
NBU 920-13G	7/5/2011	8,784.00	8,786.00	4	5
NBU 920-13G	7/5/2011	8,900.00	8,902.00	4	5
NBU 920-13G	7/5/2011	8,978.00	8,980.00	4	5
NBU 920-13G	7/5/2011	9,344.00	9,346.00	3	4
NBU 920-13G	7/5/2011	9,392.00	9,394.00	3	4
NBU 920-13G	7/5/2011	9,446.00	9,448.00	3	4
NBU 920-13G	7/5/2011	9,520.00	9,522.00	3	4
NBU 920-13G	7/5/2011	9,706.00	9,708.00	3	3
NBU 920-13G	7/5/2011	9,732.00	9,734.00	3	3
NBU 920-13G	7/5/2011	9,800.00	9,802.00	3	3
NBU 920-13G	7/5/2011	9,858.00	9,860.00	3	3
NBU 920-13G	7/5/2011	9,955.00	9,956.00	3	2
NBU 920-13G	7/5/2011	9,988.00	9,990.00	3	2
NBU 920-13G	7/5/2011	10,045.00	10,047.00	4	2
NBU 920-13G	7/5/2011	10,152.00	10,154.00	3	2
NBU 920-13G	7/5/2011	10,434.00	10,436.00	3	1
NBU 920-13G	7/5/2011	10,474.00	10,476.00	3	1
NBU 920-13G	7/5/2011	10,544.00	10,547.00	4	1

**CONTACTS:**

Foreman:	Mike Merrill	828-4606	
Mechanical Lead:	TC Rich	828-7004	
Automation Lead:	Jesse Atwood	828-4623	
Operator:	Ron Allred	828-2514	
Relief Operator:	Clay Brown	823-4104	
Engineer:	Brad Laney	828-5469	781-7031

**Relevant History:**

- JUN 2011: Completed with 7frac stages in the Mesaverde (8382'-10547'), landed tubing at 8224' and pumped off bit sub.
- JUL 2011: Ran production logs which showed most of water flow coming from bottom zone.

**Symptoms:**

- Production logs show significant water flow from bottom perforations.

**Procedure Outline:**

- **Note: There is no plunger equipment in this well. Well is flowing.**
- MIRU. Kill well as needed and ND WH, NUBOPE. TIH to 10550' to check for fill. TOOH. RU wireline and RIH with junk basket and gauge ring to ~10500'. POOH with JB/GR.
- PU CIBP, RIH, and set plug at ~10500'. Dump ~2 sx cement on plug. RD wireline.
- TIH with tubing and set EOT at ~10170'. Broach tubing to SN to ensure tubing is clean. RDMO and return well to production.

**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 920-13G

9. API Well No. 43-047-50151

10. Field and Pool, or Exploratory NATURAL BUTTES

11. Sec., T., R., M., or Block and Survey or Area Sec 13 T9S R20E Mer SLB

12. County or Parish UINTAH 13. State UT

17. Elevations (DF, KB, RT, GL)\* 4782 GL

14. Date Spudded 12/23/2010 15. Date T.D. Reached 04/07/2011 16. Date Completed  D & A  Ready to Prod. 06/20/2011

18. Total Depth: MD 10710 TVD 10707 19. Plug Back T.D.: MD 10660 TVD 10657 20. Depth Bridge Plug Set: MD TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each) SCBL/GR/CCL-HDIL/ZDL/CNGR 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		40		28			
12.250	8.625 IJ-55	28.0		2820		690		0	
7.875	4.500 I-80	11.6		9551		2000		145	
7.875	4.500 P110	11.6	9551	10704					

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	8224							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) MESAVERDE	8382	10547	8382 TO 10547	0.360	164	OPEN
B) WSMVD						
C)						
D)						

26. Perforation Record

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

Depth Interval	Amount and Type of Material
8382 TO 10547	PUMP 6,306 BBLS SLICK H2O & 113,656 LBS 30/50 SAND.

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
06/20/2011	06/23/2011	24	→	0.0	2537.0	401.0			FLows FROM WELL
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
20/64	SI 1864	2668.0	→	0	2537	401		PGW	

28a. Production - Interval B

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

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	1738				
BIRD'S NEST	1982				
MAHOGANY	2403				
WASATCH	5173	8350			
MESAVERDE	8350	10710			

32. Additional remarks (include plugging procedure):

Attached is the chronological well history, perforation report & final survey. Completion chrono details individual frac stages.

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 #113390 Verified by the BLM Well Information System.  
 For KERR MCGREE OIL & GAS ONSHORE,, sent to the Vernal**

Name (please print) ANDREW LYTLE Title REGULATORY ANALYST

Signature (Electronic Submission) Date 07/20/2011

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.

**US ROCKIES REGION  
Operation Summary Report**

Well: NBU 920-13G		Spud Conductor: 12/23/2010		Spud Date: 2/2/2011	
Project: UTAH-UINTAH		Site: NBU 920-13G		Rig Name No: PIONEER 69/69, CAPSTAR 311/311	
Event: DRILLING		Start Date: 1/10/2011		End Date: 4/10/2011	
Active Datum: RKB @4,800.00ft (above Mean Sea Level)		UWI: SW/NE/0/9/S/20/E/13/0/0/26/PM/N/1907/E/0/1782/0/0			

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
2/2/2011	0:00 - 8:00	8.00	DRLSUR	21	C	P		WAIT ON DAYLIGHT TO MOVE RIG
	8:00 - 14:00	6.00	DRLSUR	01	A	P		CONDUCT SAFETY MEETING AND MOVE RIG TO NBU 920-13G
	14:00 - 15:00	1.00	DRLSUR	14	A	P		WELD ON CONDUCTOR AND RIG UP FLOW LINE
	15:00 - 16:00	1.00	DRLSUR	06	A	P		PICK UP BHA MUD MOTOR AND BIT L/D BROKEN 8" DRILL COLLAR
	16:00 - 22:30	6.50	DRLSUR	02	B	P		SPUD WELL DRILL F/ 40' - 500' AVE ROP 77 FT HR WOB 18-20 ROT 40-60 DHR 99 GPM 620 LAST SURVEY 133' .5 DEG
22:30 - 0:00	1.50	DRLSUR	08	A	Z		WORK ON AIR COMPRESSOR	
2/3/2011	0:00 - 13:00	13.00	DRLSUR	02	B	P		DRILL F/ 500' - 1558' AVE ROP 77 FT HR WOB 18-20 ROT 40-60 DHR 99 GPM 620 LAST SURVEY 1400' 1 DEG
	13:00 - 13:30	0.50	DRLSUR	07	A	P		DAILY RIG SERVICE
	13:30 - 0:00	10.50	DRLSUR	02	B	P		DRILL F/ 1558' - 2170' AVE ROP 71 FT HR WOB 18-20 ROT 40-60 DHR 99 GPM 620 LAST SURVEY 2222' 3/4 DEG
2/4/2011	0:00 - 14:00	14.00	DRLSUR	02	B	P		DRILL F/2170' - 2830' T.D. AVE ROP 50 FT HR WOB 18-20 ROT 40-60 DHR 99 GPM 620 LAST SURVEY 1 DEG
	14:00 - 15:00	1.00	DRLSUR	05	C	P		CIRCULATE AND CONDITION MUD PRIOR TO LDDS
	15:00 - 18:00	3.00	DRLSUR	06	A	P		TOOH LAYING DOWN L/D MUD MOTOR AND BIT
	18:00 - 21:00	3.00	DRLSUR	12	C	P		CONDUCT SAFETY MEETING AND RIG UP AND RUN 63 JOINTS 8 5/8 28# J55 CASING SHOE AT 2810' NO LOSSES
	21:00 - 23:00	2.00	DRLSUR	12	E	P		HOLD SAFETY MEETING W/ SUPERIOR WELL SERVICES CEMENTERS. INSTALL CEMENT HEAD ON TOP OF LANDING JT. PRESSURE TEST LINE TO 2000 PSI. PUMP 50 BBLS OF WATER AHEAD, PUMP 20 BBLS OF GEL WATER. PUMP 350 SX OF 11#, 3.52 YD, 23 GAL/SK HI FILL LEAD, PUMP 275 SX OF 15.8# 1.15 YD, 5 GAL/SK TAIL PREM. CLASS G CEMENT . DROP PLUG ON FLY, DISPLACE W/ 176.5 BBLS OF WATER. 490 PSI OF LIFT @ 2 BBLS/MIN RATE. 15 BBLS OF LEAD TO SURFACE. BUMP PLUG W/ 900 PSI. FLOAT HELD. CUT CONDUCTOR AND RUN 100' OF 1" PIPE AND CEMENT 65 SKS 15.8 TAIL CEMENT. CEMENT TO SURFACE RELEASE RIG @ 0100 2-5-11
23:00 - 0:00	1.00	DRLSUR	14	A	P		CUT CONDUCTOR AND RUN 100' OF 1" PIPE AND CEMENT 65 SKS 15.8 TAIL CEMENT. CEMENT TO SURFACE RELEASE RIG @ 0100 2-5-11	
2/5/2011	0:00 - 1:00	1.00	CSG	12	E	P		FINISH RUNNING 100' OF 1" PIPE AND CEMENT 65 SKS 15.8 TAIL CEMENT. CEMENT TO SURFACE RELEASE RIG @ 0100 2-5-11

**US ROCKIES REGION**  
**Operation Summary Report**

Well: NBU 920-13G		Spud Conductor: 12/23/2010		Spud Date: 2/2/2011	
Project: UTAH-UINTAH		Site: NBU 920-13G		Rig Name No: PIONEER 69/69, CAPSTAR 311/311	
Event: DRILLING		Start Date: 1/10/2011		End Date: 4/10/2011	
Active Datum: RKB @4,800.00ft (above Mean Sea Level)		UWI: SW/NE/0/9/S/20/E/13/0/0/26/PM/N/1907/E/0/1782/0/0			

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	1:00 - 1:00	0.00	CSG					CONDUCTOR CASING: Cond. Depth set: 40' Cement sx used: 25  SPUD DATE/TIME: 2/2/2011 16:00  SURFACE HOLE: Surface From depth: 40 Surface To depth: 2,830 Total SURFACE hours: 44.00 Surface Casing size: 12 1/4 # of casing joints ran: 63 Casing set MD: 2,810.0 # sx of cement: 350/275/65 Cement blend (ppg): 11/15.8/15.8 Cement yield (ft3/sk): 3.52/1.15/1.15 # of bbls to surface: 15
3/27/2011	0:00 - 7:30	7.50	RDMO	01	E	P		RDRT RD FLARE LINES, CHOKE LINES FLOOR, PITS, PUMPS, BOILER, WATER LINES.
	7:30 - 18:30	11.00	RDMO	01	A	P		LOWERED THE DERRICK AND SCOPED DOWN THE SUB, FINISHED RIGGING DOWN ALL EQUIP. CRANE ARRIVED @ 7 AM TRUCKS ARRIVED @ 07:30. WE HAD 7 BED TRUCKS, 7 HAUL TRUCKS, 2 FORKLIFTS3 ESCORTS, 1 PUSHER AND 5 SWAMPERS F/ WEST ROC. WE ALSO HAD 2 HAUL TRUCKS, 2- 1 TONS FROM MOUNTAIN WEST TO MOVE CAMPS. LOADED OUT THE EQUIP. AND MOVED 18 MILES FROM THE NBU 922-33OT TO THE NBU 920-13G. SET IN ALL EQUIP., TRUCKS RELEASED @ 18:30. CRANE RELEASED @ 20:00. WE ONLY GOT THE DERRICK TO HALF MAST AND THE WINDWALLS UP BEFORE IT GOT TO DARK TO FINISH RAISING THE DERRICK.
	18:30 - 0:00	5.50	RDMO	01	B	P		RIG UP WATER LINES, ELECTRIC LINES, FLARE LINES.
3/28/2011	0:00 - 12:00	12.00	RDMO	01	B	P		RU THE YELLOW DOG, AIR LINES, BRAKE WATER,SUPER CHOKE AND STAIRS. AT DAYLIGHT FINISHED RAISING THE DERRICK. RIGGED UP THE FLOOR, PU THE KELLY AND MOUSE HOLE. LOADED THE BHA ON THE RACKS.
	12:00 - 15:30	3.50	DRLPRO	14	A	P		NU THE BOP, AND CHOKE MANIFOLD AND KILL LINE
	15:30 - 19:30	4.00	DRLPRO	15	A	P		TEST BOP, FLOOR VALVES, UPPER & LOWER KELLY VALVES, INSIDE & OUTSIDE KILL LINE & CHOKE VALVES, HCR VALVE,PIPE RAMS, BLIND RAMS, CHOKE MANIFOLD 250 PSI F/ 5 MIN 5000 PSI F/ 10 MIN, ANNULAR TO 250 PSI F/ 5 MIN, 2500 F/ 10 MIN, CASING TO 1500 F/ 30 MIN, R/D TESTER INSTALL WEAR BUSHING
	19:30 - 0:00	4.50	DRLPRO	06	A	P		S/M RU KIMSEY. PU AND SCRIBED THE BHA, PU DP TO 1650'.
3/29/2011	0:00 - 1:00	1.00	DRLPRO	06	A	P		PU DP to 2650'
	1:00 - 2:00	1.00	DRLPRO	09	A	P		CUT / SLIP 60' OF DRILLING LINE
	2:00 - 3:00	1.00	DRLPRO	14	B	P		INSTALLED THE DRILLING RUBBER, PU THE KELLY AND INSTALLED THE DRIVE BUSHING.
	3:00 - 4:30	1.50	DRLPRO	02	F	P		PU 2 JTS OF DP TAGGED CEMENT @ 2730'. DRILLING CEMENT AND FLT EQUIP.

**US ROCKIES REGION**  
**Operation Summary Report**

Well: NBU 920-13G	Spud Conductor: 12/23/2010	Spud Date: 2/2/2011
Project: UTAH-UINTAH	Site: NBU 920-13G	Rig Name No: PIONEER 69/69, CAPSTAR 311/311
Event: DRILLING	Start Date: 1/10/2011	End Date: 4/10/2011
Active Datum: RKB @4,800.00ft (above Mean Sea Level)		UWI: SW/NE/0/9/S/20/E/13/0/0/26/PM/N/1907/E/0/1782/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	4:30 - 7:30	3.00	DRLPRO	02	B	P		DRILL F/ 2839'-3106',267/3HR, 89'/HR SLID 13', WOB 18-20K, RPM 40-50, MMRPM 106, SPM 140, GPM 530, ON/OFF 780/1130, DIFF 350-400, WATER
	7:30 - 8:00	0.50	DRLPRO	07	A	P		RIG SERVICE
	8:00 - 18:00	10.00	DRLPRO	02	B	P		DRILL F/ 3106'- 4025',919/10HR, 91.9'/HR SLID 25', WOB 22-24K, RPM 50-60, MMRPM 106, SPM 140, GPM 530,PU/SO/ROT 105/90/95, ON/OFF 1300/1620, DIFF 320-400, 34/VIS, 9.3 START MUD UP @ 3800' PU SUBSTANTIAL GAS AND SOME OIL SHOW
	18:00 - 0:00	6.00	DRLPRO	02	B	P		DRILL F/ 4025'-4563',538/6HR, 89.7'/HR SLID 30', WOB 22-24K, RPM 50-60, MMRPM 106, SPM 140, GPM 530,PU/SO/ROT 108/97/105, ON/OFF 1445/1910, DIFF 350-500, 34/VIS, 9.5
3/30/2011	0:00 - 6:00	6.00	DRLPRO	02	B	P		DRILL F/ 4563'-5132',569/6HR, 94.8'/HR SLID 10', WOB 22-24K, RPM 50-60, MMRPM 106, SPM 140, GPM 530,PU/SO/ROT 115/100/112, ON/OFF 1445/1910, DIFF 350-500, 34/VIS, 9.9
	6:00 - 14:30	8.50	DRLPRO	02	B	P		DRILL F/ 5132' TO 5701' ( 569' 66.9' HR ) WOB 22-24, RPM 45-55, MMRPM 106, GPM 530, SPM 140 BOTH PUMPS ON HOLE 70 STKS EACH, UP/SO/ROT 123-105-115, ON/OFF 2330-1839, DIFF 368-680, SLIDE 5200-5210, WT 10.2, VIS 36
	14:30 - 15:00	0.50	DRLPRO	07	A	P		RIG SERVICE
	15:00 - 0:00	9.00	DRLPRO	02	B	P		DRILL F/ 5701' TO 6341' ( 640' @ 71.1' HR ) WOB 22-25, RPM 45-55, MMRPM ,GPM 515, SPM 136 BOTH PUMPS ON HOLE 68 STKS EACH, UP/SO/ROT 135-120-127, ON/OFF 2308-1846, DIFF 462, WT 10.2, VIS 41
3/31/2011	0:00 - 6:00	6.00	DRLPRO	02	B	P		DRILL F/ 6341' TO 6681' ( 340' @ 56.6' HR ) WOB 22-25, RPM 45-55, MMRPM 103, GPM 515, SPM 136 BOTH PUMPS ON HOLE 68 STKS EACH, UP/SO/ROT 140-125-135, ON/OFF2308-1846, DIFF 380-460, WT 10.3, VIS 37
	6:00 - 16:00	10.00	DRLPRO	02	B	P		DRILL F/ 6681' TO 7092' ( 411' @ 41.1' HR ) WOB 22-25, RPM 45-55, MMRPM 91, GPM 454, SPM 120, UP/SO/ROT 150-135-145, ON/OFF 1833-1536, DIFF 120-406, WT 10.2, VIS 36
	16:00 - 16:30	0.50	DRLPRO	07	A	P		RIG SERVICE
	16:30 - 0:00	7.50	DRLPRO	02	B	P		DRILL F/ 7092' TO 7369' ( 277' @ 36.9' HR ) WOB 22-25, RPM 45-55, MMRPM 91, GPM 454, SPM 120, UP/SO/ROT 153-135-147, ON/OFF 1873-1534, DIFF 80-269, WT 10.2, VIS 39
4/1/2011	0:00 - 6:00	6.00	DRLPRO	02	B	P		DRILL F/ 7369' TO 7535' ( 166' @ 27.6' HR ) WOB 22-25, RPM 45-55, MMRPM 91, GPM 454, SPM 120, UP/SO/ROT 154-140-149, ON/OFF 1873-1634, DIFF 120-269, WT 10.6, VIS 37
	6:00 - 6:30	0.50	DRLPRO	07	A	P		RIG SERVICE, FUNCTION PIPE RAMS
	6:30 - 19:30	13.00	DRLPRO	02	B	P		DRILL F/ 7535' TO 7871' ( 336' @ 25.8' HR ) WOB 24-26, RPM 40-60, MMRPM 91, GPM 454, SPM 120, 162-145-155, ON/OFF 2050-1769, DIFF 129-338, WT 10.7, VIS 36
	19:30 - 20:00	0.50	DRLPRO	05	C	P		CIRC, BUILD & PUMP PILL
	20:00 - 0:00	4.00	DRLPRO	06	A	P		TFNB & MOTOR, TIGHT 4982-4832, 4676-4458, 3911-3736 20-40K
4/2/2011	0:00 - 1:00	1.00	DRLPRO	06	A	P		TOOH L/D MOTOR & BIT ( CHECKED RIG F/ CENTER ON HOLE )
	1:00 - 6:00	5.00	DRLPRO	06	A	P		P/U Q506FX BIT, INTEG .16 RPG/ 1.5 MOTOR, ORIENT MWD ,TIH, FILL PIPE @ SHOE & 5200', WASH 30' TO BTM 6' FILL

**US ROCKIES REGION**  
**Operation Summary Report**

Well: NBU 920-13G      Spud Conductor: 12/23/2010      Spud Date: 2/2/2011  
 Project: UTAH-UINTAH      Site: NBU 920-13G      Rig Name No: PIONEER 69/69, CAPSTAR 311/311  
 Event: DRILLING      Start Date: 1/10/2011      End Date: 4/10/2011  
 Active Datum: RKB @4,800.00ft (above Mean Sea Level)      UWI: SW/NE/0/9/S/20/E/13/0/0/26/PM/N/1907/E/0/1782/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation	
4/3/2011	6:00 - 15:00	9.00	DRLPRO	02	B	P		DRILL F/ 7871' TO 8128' ( 257' @ 28.5' HR ) WOB 18-22, RPM 55-65, MMRPM 73, GPM 454, SPM 120, UP/SO/ROT 185-150-157, ON/OFF 2108-1744, DIFF 223-368, WT 10.8, VIS 38, SLIDE F/ 8108-8115	
	15:00 - 15:30	0.50	DRLPRO	07	A	P		RIG SERVICE	
	15:30 - 0:00	8.50	DRLPRO	02	B	P		DRILL F/ 8128' TO 8389' ( 261' @ 30.7' HR ) WOB 22-24, RPM 45-60, MMRPM 73, GPM 454, SPM 120, UP/SO/ROT 170-150-162, ON/OFF 2203-1927, DIFF 220-354, WT 10.9, VIS 36	
	0:00 - 6:00	6.00	DRLPRO	02	B	P		DRILL F/ 8389' TO 8578' ( 189' @ 31.5' HR ) WOB 22-25, SPM 120, GPM 454, RPM 45-60, MMRPM 73, UP/SO/ROT 173-152-164, ON/OFF 2203-1927, DIFF 130-276, WT11, VIS 40	
	6:00 - 15:00	9.00	DRLPRO	02	B	P		DRILL F/ 8578' TO 8831' ( 253' @ 28.1' HR ) WOB 20-25, RPM 40-70, MMRPM 73, SPM 120, GPM 454, UP/SO/ROT 175-150-166, ON/OFF 2123-1944, DIFF 153-290, WT 11.2, VIS 38	
	15:00 - 15:30	0.50	DRLPRO	05	B	S		TOOK KICK, CIRC KICK OUT THROUGH GAS BUSTER, 30' TO 40' FLARE, RAISE MUD WT TO 11.8	
	15:30 - 17:30	2.00	DRLPRO	02	B	P		DRILL F/ 8831' TO 8894' ( 63' @ 31.5' HR )	
	17:30 - 18:00	0.50	DRLPRO	07	A	P		RIG SERVICE, FUNCTION ANNULAR	
	18:00 - 0:00	6.00	DRLPRO	02	B	P		DRILL F/ 8894' TO 9060' ( 166' @ 27.6' HR ) WOB 22-25, RPM 45-55, MMRPM 73, SPM 120, GPM 454, UP/SO/ROT 175-155-170, ON/OFF 2290-2053, DIFF 180,337, WT 11.8, VIS 37, 3% LCM , LOST 200 BBLs TO SEEPAGE	
	4/4/2011	0:00 - 6:00	6.00	DRLPRO	02	B	P		DRILL F/ 9060' TO 9179' ( 119' @ 19.8' HR ) WOB 25, RPM 45-60, MMRPM 73, SPM 120, GPM 454, UP/SO/ROT 173-157-170, ON/OFF 2290-2053, DIFF 180-337, BIT BALLED UP PUMPING NUTSHELL SWEEPS, WT 12, VIS 42, LCM 3%
4/4/2011	6:00 - 13:00	7.00	DRLPRO	02	B	P		DRILL F/ 9179' TO 9369' ( 190' @ 27.1' HR ) WOB 24-28, RPM 60-78, MMRPM 73, SPM 120, GPM 454, UP/SO/ROT 175-155-168, ON/OFF 2320-2065, DIFF 244-486, PUMPING NUT SHELL SWEEPS, WT 12.1, VIS 42, LCM 2%	
	13:00 - 13:30	0.50	DRLPRO	07	A	P		RIG SERVICE	
	13:30 - 14:00	0.50	DRLPRO	08	A	Z		RIG REPAIR WORK ON AIR LEAK #1 DRAW WORKS CLUTCH	
	14:00 - 16:00	2.00	DRLPRO	02	B	P		DRILL F/ 9369' TO 9432' ( 63' @ 31.5' HR )	
	16:00 - 17:00	1.00	DRLPRO	08	A	Z		RIG REPAIR REPAIR AIR LEAK ON #1 DRAW WORKS MOTOR CLUTCH	
	17:00 - 18:00	1.00	DRLPRO	02	B	P		DRILL F/ 9432' TO 9464'	
	18:00 - 18:30	0.50	DRLPRO	08	A	Z		RIG REPAIR WORK ON AIR LEAK #1 DRAW WORKS MOTOR CLUTCH	
	18:30 - 0:00	5.50	DRLPRO	02	B	P		DRILL F/ 9464' TO 9583' ( 119' @ 21.6' HR ) WOB 24-28, RPM 45-70, MMRPM 73, SPM 120, GPM 454, UP/SO/ROT 176-155-170, ON OFF 2443-2098, 157-421, WT 12.6, VIS 41, LCM 2%, BIT BALLING , PUMPING NUT SHALE SWEEPS	
	4/5/2011	0:00 - 2:30	2.50	DRLPRO	02	B	P		DRILL F/ 9583' TO 9621' ( 38' @ 15.2' HR ), MIX PILL
	4/5/2011	2:30 - 10:00	7.50	DRLPRO	06	A	P		PUMP PILL, TOOH L/D DIR TOOLS, MOTOR & BIT, CHECK RIG F/ CENTER ON HOLE, TIGHT SPOTS 5119' & 4511'
10:00 - 13:00		3.00	DRLPRO	06	A	P		P/U Q506 F, .16 RPG ADJUST MOTOR STRAIGHT, TIH TO SHOE, FILL PIPE	
13:00 - 15:00		2.00	DRLPRO	09	A	P		CUT & SLIP DRILLING LINE	
4/5/2011	15:00 - 18:00	3.00	DRLPRO	06	A	P		TIH, FILL PIPE @ 5500'	

**US ROCKIES REGION**  
**Operation Summary Report**

Well: NBU 920-13G		Spud Conductor: 12/23/2010		Spud Date: 2/2/2011	
Project: UTAH-UINTAH		Site: NBU 920-13G		Rig Name No: PIONEER 69/69, CAPSTAR 311/311	
Event: DRILLING		Start Date: 1/10/2011		End Date: 4/10/2011	
Active Datum: RKB @4,800.00ft (above Mean Sea Level)			UWI: SW/NE/0/9/S/20/E/13/0/0/26/PM/N/1907/E/0/1782/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	18:00 - 18:30	0.50	DRLPRO	03	D	P		WASH 60' TO BOTTON, NO FILL
	18:30 - 0:00	5.50	DRLPRO	02	B	P		DRILL F/ 9621' TO 9785' ( 164' @ 29.8' HR ) WOB 18-22, RPM 50-60, MMRPM 73, SPM 120, GPM 454, UP,SO,ROT 200-160-186, ON/OFF 2584, 2322, DIFF229-362, WT 12.7, VIS 42, 3% LCM,
4/6/2011	0:00 - 6:00	6.00	DRLPRO	02	B	P		DRILL F/ 9785' TO 9985' ( 200' @ 33.3' HR ) WOB 18-22, RPM 45-60, MMRPM 73, SPM 120, GPM 454, UP/SO/ROT 200-160-186, ON/OFF 2584-2322 ,DIFF229-363, WT 12.7, VIS 42, 3% LCM
	6:00 - 16:30	10.50	DRLPRO	02	B	P		DRILL F/ 9985' TO 10301' ( 316' @ 30' HR ) WOB 20-24, RPM 45-60, MMRPM 70, SPM 115, GPM 435, UP/SO/ROT 196-180-190, WT 12.8, VIS 44, LCM 3%
	16:30 - 17:00	0.50	DRLPRO	07	A	P		RIG SERVICE, FUNCTION PIPE RAMS
	17:00 - 0:00	7.00	DRLPRO	02	B	P		DRILL F/ 10301' TO 10490' ( 189' @ 27' HR ) WOB 20-24, RPM 45-65, MMRPM 70, SPM 115, GPM 435, UP/SO/ROT 205-170-194, ON/OFF 2642-2305 DIFF 187-416, WT 12.8, VIS 45, LCM 3%
4/7/2011	0:00 - 9:00	9.00	DRLPRO	02	B	P		DRILL F/ 10490' TO 10710' ( 220' @ 24.4' HR ) TD @ 09:00 4/7/2011, WOB 23-27, RPM 45-65, MMRPM 70, SPM 115, GPM 435, UP/SO/ROT 205-175-194, ON/OFF 2550-2322, DIFF 167-353, WT 12.8, VIS 46, LCM 3%
	9:00 - 10:30	1.50	DRLPRO	05	C	P		CIRC F/ SHORT TRIP, MIX & PUMP PILL
	10:30 - 14:00	3.50	DRLPRO	06	E	P		SHORT TRIP TO SHOE, TIGHT @ 4500' ,FILL PIPE, CHECK RIG FOR CENTER ON HOLE GOOD
	14:00 - 14:30	0.50	DRLPRO	07	A	P		RIG SERVICE
	14:30 - 18:00	3.50	DRLPRO	06	E	P		TIH, KELLY UP BREAK CIRC
	18:00 - 20:00	2.00	DRLPRO	05	C	P		CIRC & COND F/ LOGS
	20:00 - 0:00	4.00	DRLPRO	06	B	P		TOOH F/ LOGS @ 3132'
4/8/2011	0:00 - 2:00	2.00	DRLPRO	06	B	P		FINISH TOOH F/ LOGS, L/D MOTOR & BIT
	2:00 - 7:30	5.50	DRLPRO	11	C	P		SAFETY MEETING W/ BAKER ATLAS, R/U & RUN TRIPLE COMBO TO 10710' LOGGERS DEPTH, R/D LOGGERS
	7:30 - 10:30	3.00	DRLPRO	11	E	P		SAFETY MEETING W/ WEATHERFORD, R/U & RUN 60 ARM MULTI CALIPER LOG F/ 2825' TO SURFACE, R/D LOGGERS
	10:30 - 12:30	2.00	DRLPRO	06	A	P		P/U R/R TRICONE, BIT SUB TIH TO SHOE, FILL PIPE
	12:30 - 14:30	2.00	DRLPRO	09	A	P		DRILL LINE HAS ACCSESIVE WEAR SLIP ON NEW SPOOL OF DRILL LINE
	14:30 - 15:00	0.50	DRLPRO	07	A	P		RIG SERVICE
	15:00 - 18:00	3.00	DRLPRO	06	A	P		FINISH TIH, FILL PIPE @ 6000,
	18:00 - 18:30	0.50	DRLPRO	03	D	P		BREAK CIRC ,WASH 63' TO BOTTOM
	18:30 - 20:00	1.50	DRLPRO	05	C	P		CIRC & COND , SAFETY MEETING W/ KIMZEY & R/U, PUMP PILL
	20:00 - 0:00	4.00	DRLPRO	06	A	P		LDDP
4/9/2011	0:00 - 7:30	7.50	DRLPRO	06	A	P		LDDP, BREAK DOWN KELLY, L/D BHA, PULL WEAR RING
	7:30 - 8:00	0.50	DRLPRO	12	A	P		SAFETY MEETING W/ KIMZEY CASING & RIG UP
	8:00 - 17:00	9.00	DRLPRO	12	B	P		RUN 28 JTS P110, 226 JTS I80, 254 JTS TOTAL 4.5 , 11.6# PROD CASING SHOES @ 10704', FLOATs @ 10658' MARKERS @ 8394' & 5242'
	17:00 - 19:30	2.50	DRLPRO	05	D	P		CIRC F/ CEMENT, R/D KIMZEY, S/M W/ BJ SERVICES & R/U

**US ROCKIES REGION**  
**Operation Summary Report**

Well: NBU 920-13G	Spud Conductor: 12/23/2010	Spud Date: 2/2/2011
Project: UTAH-UINTAH	Site: NBU 920-13G	Rig Name No: PIONEER 69/69, CAPSTAR 311/311
Event: DRILLING	Start Date: 1/10/2011	End Date: 4/10/2011
Active Datum: RKB @4,800.00ft (above Mean Sea Level)		UWI: SW/NE/0/9/S/20/E/13/0/0/26/PM/N/1907/E/0/1782/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	19:30 - 23:30	4.00	DRLPRO	12	E	P		PUMP 40 BBLS SPACER, 685 SX 12.9#, 1.81 YLD LEAD , 1315 SX 14.3#, 1.31 YLD TAIL, DISPLACE W/ 166 BBLS CLAYCARE WATER, FINAL LIFT 3186 PSI, BUMPED PLUG @ 3786 PSI, FLOATS HELD, 15 BBLS LEAD CMT BACK TO PIT, EST TOP OF TAIL 4120', FLUSH STACK, R/D CEMENTERS
	23:30 - 0:00	0.50	DRLPRO	12	C	P		SET C22 SLIPS THROUGH BOP @ 125K, NIPPLE DOWN
4/10/2011	0:00 - 3:00	3.00	DRLPRO	14	A	P		NIPPLE DOWN , CUT OFF CASING , CLEAN PITS, RELEASE RIG @ 03:00 4/10/2011 TO NBU 920-13I

**US ROCKIES REGION**  
**Operation Summary Report**

Well: NBU 920-13G	Spud Conductor: 12/23/2010	Spud Date: 2/2/2011
Project: UTAH-UINTAH	Site: NBU 920-13G	Rig Name No: PIONEER 69/69, CAPSTAR 311/311
Event: DRILLING	Start Date: 1/10/2011	End Date: 4/10/2011
Active Datum: RKB @4,800.00ft (above Mean Sea Level)	UWI: SW/NE/0/9/S/20/E/13/0/0/26/PM/N/1907/E/0/1782/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
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3:00 - 3:00      0.00      DRLPRO

CONDUCTOR CASING:  
 Cond. Depth set: 40  
 Cement sx used: 25

SPUD DATE/TIME: 2/2/2011 16:00

SURFACE HOLE:  
 Surface From depth: 40  
 Surface To depth: 2,830  
 Total SURFACE hours: 44.00  
 Surface Casing size: 8 5/8  
 # of casing joints ran: 63  
 Casing set MD: 2,810.0  
 # sx of cement: 350/275/65  
 Cement blend (ppg): 11/15.8/15.8  
 Cement yield (ft3/sk): 3.52/1.15/1.15  
 # of bbls to surface: 15  
 Describe cement issues: CEMENT FELL BACK  
 Describe hole issues: TOP OFF 1TIME

PRODUCTION:  
 Rig Move/Skid start date/time: 3/27/2011 0:00  
 Rig Move/Skid finish date/time: 3/28/2011 12:00

Total MOVE hours: 36.0  
 Prod Rig Spud date/time: 3/29/2011 3:00  
 Rig Release date/time: 4/10/2011 3:00  
 Total SPUD to RR hours: 288.0  
 Planned depth MD 10,703  
 Planned depth TVD 10,703  
 Actual MD: 10,710  
 Actual TVD: 10,707  
 Open Wells \$:  
 AFE \$:  
 Open wells \$/ft:

PRODUCTION HOLE:  
 Prod. From depth: 2,839  
 Prod. To depth: 10,710  
 Total PROD hours: 187.5  
 Log Depth: 10710  
 Float Collar Top Depth: 10658.78  
 Production Casing size: 4.5 11.6  
 # of casing joints ran: 254  
 Casing set MD: 10,704.2  
 Stage 1  
 # sx of cement: 685 LEAD 1315 TAIL  
 Cement density (ppg): 12.9 LEAD, 14.3 TAIL.  
 Cement yield (ft3/sk): 1.81 LEAD, 1.31 TAIL  
 Stage 2  
 # sx of cement:  
 Cement density (ppg):  
 Cement yield (ft3/sk):  
 Top Out Cmt  
 # sx of cement:  
 Cement density (ppg):  
 Cement yield (ft3/sk):  
 Est. TOC (Lead & Tail) or 2 Stage :  
 Describe cement issues: FULL RETURNS , 15 BBLS BACK  
 Describe hole issues:

DIRECTIONAL INFO:

**US ROCKIES REGION**  
**Operation Summary Report**

Well: NBU 920-13G		Spud Conductor: 12/23/2010		Spud Date: 2/2/2011	
Project: UTAH-UINTAH			Site: NBU 920-13G		Rig Name No: PIONEER 69/69, CAPSTAR 311/311
Event: DRILLING			Start Date: 1/10/2011		End Date: 4/10/2011
Active Datum: RKB @4,800.00ft (above Mean Sea Level)			UWI: SW/NE/0/9/S/20/E/13/0/0/26/PM/N/1907/E/0/1782/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
								KOP: Max angle: Departure: Max dogleg MD:

1 General

1.1 Customer Information

Company	US ROCKIES REGION		
Representative			
Address			

1.2 Well Information

Well	NBU 920-13G		
Common Name	NBU 920-13G		
Well Name	NBU 920-13G	Wellbore No.	OH
Report No.	1	Report Date	7/5/2011
Project	UTAH-UINTAH	Site	NBU 920-13G
Rig Name/No.	MILES 4/4	Event	COMPLETION
Start Date	6/9/2011	End Date	6/20/2011
Spud Date	2/2/2011	Active Datum	RKB @4,800.00ft (above Mean Sea Level)
UWI	SW/NE/0/9/S/20/E/13/0/0/26/PM/N/1907/E/0/1782/0/0		

1.3 General

Contractor	CASEDHOLE SOLUTIONS	Job Method	PERFORATE	Supervisor	STEVE WALL, SR.
Perforated Assembly	PRODUCTION CASING	Conveyed Method	WIRELINE		

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	8,382.0 (ft)-10,547.0 (ft)	Start Date/Time	7/5/2011 12:00AM
No. of Intervals	23	End Date/Time	7/5/2011 12:00AM
Total Shots	164	Net Perforation Interval	49.00 (ft)
Avg Shot Density	3.35 (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 /Carr Manuf	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
12:00AM	MESAVERDE/			8,382.0	8,386.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO	
													N		

2.1 Perforated Interval (Continued)

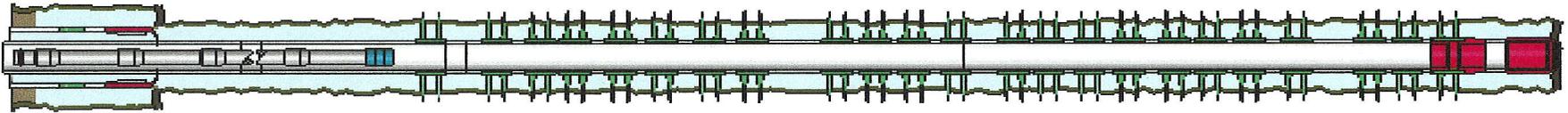
Date	Formation/ Reservoir	CCL@ (ft)	CCL-T S (ft)	MD Top (ft)	MD Base (ft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diamete r (in)	Carr Type /Carr Manuf	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
12:00	AMMESAVERDE/			8,495.0	8,498.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00	AMMESAVERDE/			8,586.0	8,587.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00	AMMESAVERDE/			8,612.0	8,615.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00	AMMESAVERDE/			8,712.0	8,714.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00	AMMESAVERDE/			8,784.0	8,786.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00	AMMESAVERDE/			8,900.0	8,902.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00	AMMESAVERDE/			8,978.0	8,980.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00	AMMESAVERDE/			9,344.0	9,346.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00	AMMESAVERDE/			9,392.0	9,394.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00	AMMESAVERDE/			9,446.0	9,448.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00	AMMESAVERDE/			9,520.0	9,522.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00	AMMESAVERDE/			9,706.0	9,708.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00	AMMESAVERDE/			9,732.0	9,734.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00	AMMESAVERDE/			9,800.0	9,802.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00	AMMESAVERDE/			9,858.0	9,860.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00	AMMESAVERDE/			9,955.0	9,956.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00	AMMESAVERDE/			9,988.0	9,990.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00	AMMESAVERDE/			10,045.0	10,047.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00	AMMESAVERDE/			10,152.0	10,154.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00	AMMESAVERDE/			10,434.0	10,436.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00	AMMESAVERDE/			10,474.0	10,476.0	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 /Carr Manuf	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
12:00AM	MESAVERDE/			10,544.0	10,547.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	

3 Plots

3.1 Wellbore Schematic



**US ROCKIES REGION  
Operation Summary Report**

Well: NBU 920-13G      Spud Conductor: 12/23/2010      Spud Date: 2/2/2011  
 Project: UTAH-UINTAH      Site: NBU 920-13G      Rig Name No: MILES 4/4  
 Event: COMPLETION      Start Date: 6/9/2011      End Date: 6/20/2011  
 Active Datum: RKB @4,800.00ft (above Mean Sea Level)      UWI: SW/NE/0/9/S/20/E/13/0/0/26/PM/N/1907/E/0/1782/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
6/9/2011	7:00 - 7:15	0.25	COMP	48		P		HSM
	7:15 - 17:00	9.75	COMP	31	I	P		MOVE RIG & EQUIP FROM 923-31L, R/U & SPOT EQUIP, NDWH, NUBOP, P/U 3.875" MILL & RIH W/ 180 JTS TO 5700'. SWIFN.
6/10/2011	7:00 - 7:15	0.25	COMP	48		P		HSM
	7:15 - 15:30	8.25	COMP	31	N			CONT TO P/U TBG & RIH TO 10650', REV CIRC WELL CLN W/ 65 BBLS 2% KCL, POOH & L/D 30 JTS TBG ON TRLR, STAND REST IN DRK. NDBOP, NUWH, SWIFN.
6/13/2011	7:00 - 7:15	0.25	COMP	48		P		HSM
	7:15 - 15:00	7.75	COMP	37	B	P		MIRU B&C QUICK TEST/ PSI TEST FRAC VALVES & CSG/ #1000 LOST #7 IN 15 MIN, #3500 LOST #39 IN 15 MIN, #7000 LOST #68 IN 30 MIN, #7000 LOST #49 IN 40 MIN, RDMO B&C, MIRU CASED HOLE, RIH & PERF STG #1 W/ 3-3/8" GUN, 23 GM, .36 HOLE FROM 10434' - 10547' AS PER PROCEDURE, SWIFN.STAND BY UNTIL FRAC 6/16/11.
6/14/2011	-							STAND BY/ FRAC 6/16/11
6/15/2011	-							STAND BY/ FRAC 6/16/11
6/16/2011	9:00 - 19:30	10.50	COMP	36	B	P		MIRU SUPERIOR FRAC EQUIP, HSM, PSI TEST FRAC LINES TO #8000 LOST #1600 IN 15 MIN, NO VISABLE LEAKS.TEST MECH POP OFF, RELIEVED @ #6813.  FRAC STG 1)WHP 1889 PSI, BRK 3748 PSI @ 4.7 BPM. ISIP 3180 PSI, FG .74. PUMP 100 BBLS @ 47.8 BPM @ 6040 PSI = 100% HOLES OPEN. ISIP 3168 PSI, FG .74, NPI -12 PSI. MP 6617 PSI, MR 49.8 BPM, AP 6151 PSI, AR 43.5 BPM, PMP 885 BBLS SW & 10,520 LBS OF 30/50 SND & 2,795 LBS OF 20/40 RESIN SND. TOTAL PROP 13,315 LBS.  PERF STG 2)PU 4 1/2 8K HAL CBP & 3 3/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 10184' P/U PERF 9955'-10154' AS PER PERF DESIGN. POOH  FRAC STG 2)WHP 1590 PSI, BRK 4067 PSI @ 4.8 BPM. ISIP 3149 PSI, FG .75. PUMP 100 BBLS @ 45.2 BPM @ 6139 PSI = 87% HOLES OPEN. ISIP 3558 PSI, FG .79, NPI 409 PSI. MP 6602 PSI, MR 51.6 BPM, AP 6222 PSI, AR 46.4 BPM, PMP 1877 BBLS SW & 34805 LBS OF 30/50 SND & 2823 LBS OF 20/40 RESIN SND. TOTAL PROP 37628 LBS.  PERF STG 3)PU 4 1/2 8K HAL CBP & 3 3/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 9890' P/U PERF 9706'-9860' AS PER PERF DESIGN. POOH  SWIFN

**US ROCKIES REGION**  
**Operation Summary Report**

Well: NBU 920-13G		Spud Conductor: 12/23/2010		Spud Date: 2/2/2011				
Project: UTAH-UINTAH		Site: NBU 920-13G		Rig Name No: MILES 4/4				
Event: COMPLETION		Start Date: 6/9/2011		End Date: 6/20/2011				
Active Datum: RKB @4,800.00ft (above Mean Sea Level)		UWI: SW/NE/0/9/S/20/E/13/0/0/26/PM/N/1907/E/0/1782/0/0						
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
6/17/2011	7:00 - 7:15	0.25	COMP	48		P		HSM

**US ROCKIES REGION**  
**Operation Summary Report**

Well: NBU 920-13G		Spud Conductor: 12/23/2010		Spud Date: 2/2/2011	
Project: UTAH-UINTAH		Site: NBU 920-13G		Rig Name No: MILES 4/4	
Event: COMPLETION		Start Date: 6/9/2011		End Date: 6/20/2011	
Active Datum: RKB @4,800.00ft (above Mean Sea Level)			UWI: SW/NE/0/9/S/20/E/13/0/0/26/PM/N/1907/E/0/1782/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	7:15 - 17:00	9.75	COMP	36	B	P		<p>FRAC STG 3)WHP 2420 PSI, BRK 3628 PSI @ 4.2 BPM. ISIP 2695 PSI, FG .71. PUMP 100 BBLs @ 40.3 BPM @ 6128 PSI = 62% HOLES OPEN. ISIP 3054 PSI, FG .75, NPI 359 PSI. MP 6677 PSI, MR 50.9 BPM, AP 6185 PSI, AR 41.7 BPM, PMP 713 BBLs SW &amp; 10991 LBS OF 30/50 SND &amp; 1753 LBS OF 20/40 RESIN SND. TOTAL PROP 12744 LBS</p> <p>PERF STG 4)PU 4 1/2 8K HAL CBP &amp; 3 3/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 9552' P/U PERF 9344'-9522' AS PER PERF DESIGN. POOH</p> <p>FRAC STG 4)WHP 920 PSI, BRK 4568 PSI @ 4.7 BPM. ISIP 2482 PSI, FG .70. PUMP 100 BBLs @ 38.6 BPM @ 6317 PSI = 60% HOLES OPEN. ISIP 2960 PSI, FG .75, NPI 478 PSI. MP 6587 PSI, MR 51.3 BPM, AP 5954 PSI, AR 43.9 BPM, PMP 721 BBLs SW &amp; 10777 LBS OF 30/50 SND &amp; 2695 LBS OF 20/40 RESIN SND. TOTAL PROP 13472 LBS</p> <p>PERF STG 5)PU 4 1/2 8K HAL CBP &amp; 3 3/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 9010' P/U PERF 8784'-8980' AS PER PERF DESIGN. POOH</p> <p>FRAC STG 5)WHP 920 PSI, BRK 4390 PSI @ 4.7 BPM. ISIP 2482 PSI, FG .70. PUMP 100 BBLs @ 36.7 BPM @ 5709 PSI = 60% HOLES OPEN. ISIP 2582 PSI, FG .73, NPI 242 PSI. MP 6555 PSI, MR 51.5 BPM, AP 5756 PSI, AR 46.2 BPM, PMP 762 BBLs SW &amp; 11977 LBS OF 30/50 SND &amp; 2483 LBS OF 20/40 RESIN SND. TOTAL PROP 14460 LBS</p> <p>PERF STG 6)PU 4 1/2 8K HAL CBP &amp; 3 3/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 8746' P/U PERF 8586'-8714' AS PER PERF DESIGN. POOH</p> <p>FRAC STG 6)WHP 991 PSI, BRK 4541 PSI @ 4.7 BPM. ISIP 2494 PSI, FG .73. PUMP 100 BBLs @ 46.8 BPM @ 5825 PSI = 76% HOLES OPEN. ISIP 2766 PSI, FG .76, NPI 272 PSI. MP 6560 PSI, MR 51.7 BPM, AP 5733 PSI, AR 48.5 BPM, PMP 623 BBLs SW &amp; 8696 LBS OF 30/50 SND &amp; 2280 LBS OF 20/40 RESIN SND. TOTAL PROP 10976 LBS</p> <p>PERF STG 7)PU 4 1/2 8K HAL CBP &amp; 3 3/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 8536' P/U PERF 8382'-8498' AS PER PERF DESIGN. POOH</p> <p>FRAC STG 7)WHP 1220 PSI, BRK 2251 PSI @ 4.4</p>

**US ROCKIES REGION**  
**Operation Summary Report**

Well: NBU 920-13G		Spud Conductor: 12/23/2010		Spud Date: 2/2/2011	
Project: UTAH-UINTAH		Site: NBU 920-13G		Rig Name No: MILES 4/4	
Event: COMPLETION		Start Date: 6/9/2011		End Date: 6/20/2011	
Active Datum: RKB @4,800.00ft (above Mean Sea Level)		UWI: SW/NE/0/9/S/20/E/13/0/0/26/PM/N/1907/E/0/1782/0/0			

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
6/20/2011	7:00 - 7:15	0.25	COMP	48		P		BPM. ISIP 1759 PSI, FG .65. PUMP 100 BBLS @ 51.5 BPM @ 5494 PSI = 90% HOLES OPEN. ISIP 2713 PSI, FG .76, NPI 954 PSI. MP 6283 PSI, MR 51.6 BPM, AP 5309 PSI, AR 49.1 BPM, PMP 725 BBLS SW & 7699 LBS OF 30/50 SND & 3362 LBS OF 20/40 RESIN SND. TOTAL PROP 11061 LBS  TOTAL SAND = 113656 LBS TOTAL CLFL = 6306 BBLS TOTAL SCALE = 736 GAL TOTAL BIO = 134 GAL  RIH SET 4 1/2" 8K HAL CBP @ 8314', RDMO CHS & SUPERIOR  ND FRAC VALVES, NUBOP, PU 3 7/8" BIT & POBS, RIH W/ 140 JTS L-80 TBG TO 4452'. SWIFW. DRL OUT PLUGS MONDAY. HSM

**US ROCKIES REGION**  
**Operation Summary Report**

Well: NBU 920-13G		Spud Conductor: 12/23/2010		Spud Date: 2/2/2011	
Project: UTAH-UINTAH		Site: NBU 920-13G		Rig Name No: MILES 4/4	
Event: COMPLETION		Start Date: 6/9/2011		End Date: 6/20/2011	
Active Datum: RKB @4,800.00ft (above Mean Sea Level)		UWI: SW/NE/0/9/S/20/E/13/0/0/26/PM/N/1907/E/0/1782/0/0			

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	7:15 - 18:00	10.75	COMP	44	C	P		<p>WHP = 0 PSI. CONT. TO PU 122 JTS NEW 2 3/8" 4.7# L80 TBG. TAG FILL @ 8329 . RU PWR SWVL &amp; PMP. EST CIRC. PT BOP TO 3000 PSI FOR 15 MIN 0 PSI LOSS. C/O 15' OF SND.</p> <p>CBP #1) DRLG OUT HAL 8K CBP @ 8314' IN 5 MIN. 100 DIFF PSI. RIH TAG FILL @ 8521'. C/O 15' OF SND. FCP = 100 PSI.</p> <p>CBP #2) DRLG OUT HAL 8K CBP @ 8536' IN 2 MIN. 100 DIFF PSI. RIH TAG FILL @ 8716'. C/O 30 OF SND. FCP = 200 PSI.</p> <p>CBP #3) DRLG OUT HAL 8K CBP @ 8746' IN 5 MIN. 200 DIFF PSI. RIH TAG FILL @ 8980'. C/O 30 OF SND. FCP = 300 PSI.</p> <p>CBP #4) DRLG OUT HAL 8K CBP @ 9010' IN 4 MIN. 150 DIFF PSI. RIH TAG FILL @ 9517'. C/O 35 OF SND. FCP = 350 PSI.</p> <p>CBP #5) DRLG OUT HAL 8K CBP @ 9552' IN 8 MIN. 200 DIFF PSI. RIH TAG FILL @ 9860'. C/O 30 OF SDN. FCP = 400 PSI.</p> <p>CBP #6) DRLG OUT HAL 8K CBP @ 9890' IN 3 MIN. 300 DIFF PSI. RIH TAG FILL @ 10124'. C/O 60 OF SND. FCP = 500 PSI.</p> <p>CBP #7) DRLG OUT HAL 8K CBP @ 10184' IN 5 MIN. 100 DIFF PSI. RIH TAG FILL @ 10600'. C/O 50' OF SND TO PBTD 10653'. CIRC WELL CLEAN.</p> <p>ND PWR SWVL, NU TBG EQUIP. LD 77 JTS ON FLOAT, (83 TOTAL ON FLAOT). LND TBG ON HNGR W/ 259 JTS NEW 2 3/8" 4.7# L80. RD FLOOR &amp; TBG EQUIP. ND BOP, DROP BALL, NUWH. PMP OFF BIT @ 2700 PSI. WAIT 30 MIN FOR BIT TO FALL TO BTM. TURN WELL TO F.B.C. @ 5 PM, SITP 1100 PSI, SICP 2500 PSI, RD PREP TO MOVE TO CIGE 240 IN AM.</p> <p>KB 18' HANGER 0.83' TBG 259 JTS = 8202.88' POBS= 2.20' XN NIPPLE @ 8221.71' EOT @ 8223.91' (342 JTS DLVRD - 83 JTS LEFT ON LOC.)</p> <p>OLTR= 6586 BBLS WR= 1860 BBLS LLTR= 4726 BBLS WELL TURNED TO SALES @ 1800 HR ON 6/20/11 - 1272 MCFD, 2040 BWPD, CP 2650#, FTP 2100#, CK 20/64"</p>
	18:00 - 18:00	0.00	PROD	50				
6/21/2011	7:00 -			33	A			<p>7 AM FLBK REPORT: CP 3250#, TP 2225#, 20/64" CK, 41 BWPH, LIGHT SAND, 1.8 GAS TTL BBLS RECOVERED: 2526 BBLS LEFT TO RECOVER: 4060</p>
6/22/2011	7:00 -			33	A			<p>7 AM FLBK REPORT: CP 3000#, TP 2075#, 20/64" CK, 25 BWPH, LIGHT SAND, 2.6 GAS TTL BBLS RECOVERED: 3315 BBLS LEFT TO RECOVER: 3271</p>

**US ROCKIES REGION**  
**Operation Summary Report**

Well: NBU 920-13G		Spud Conductor: 12/23/2010		Spud Date: 2/2/2011	
Project: UTAH-UINTAH		Site: NBU 920-13G		Rig Name No: MILES 4/4	
Event: COMPLETION		Start Date: 6/9/2011		End Date: 6/20/2011	
Active Datum: RKB @4,800.00ft (above Mean Sea Level)		UWI: SW/NE/0/9/S/20/E/13/0/0/26/PM/N/1907/E/0/1782/0/0			

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
6/23/2011	7:00 -			33	A			7 AM FLBK REPORT: CP 2625#, TP 1825#, 20/64" CK, 18 BWPH, LIGHT SAND, 2.5 GAS TTL BBLS RECOVERED: 3855 BBLS LEFT TO RECOVER: 2731
6/24/2011	7:00 -			33	A			7 AM FLBK REPORT: CP 2350#, TP 1625#, 20/64" CK, 13 BWPH, LIGHT SAND, 2.4 GAS TTL BBLS RECOVERED: 4256 BBLS LEFT TO RECOVER: 2330
6/25/2011	7:00 -			33	A			7 AM FLBK REPORT: CP 2150#, TP 1475#, 20/64" CK, 10 BWPH, LIGHT SAND, 2.3 GAS TTL BBLS RECOVERED: 4561 BBLS LEFT TO RECOVER: 2025

# 1 General

## 1.1 Customer Information

Company	US ROCKIES REGION
Representative	
Address	

## 1.2 Well Information

Well	NBU 920-13G	Wellbore No.	OH
Well Name	NBU 920-13G	Common Name	NBU 920-13G
Project	UTAH-UINTAH	Site	NBU 920-13G
Vertical Section Azimuth	0.00 (°)	North Reference	True
Origin N/S		Origin E/W	
Spud Date	2/2/2011	UWI	SW/NE/0/9/S/20/E/13/0/0/26/PM/N/1907/E/0/17 82/0/0
Active Datum	RKB @4,800.00ft (above Mean Sea Level)		

# 2 Survey Name

## 2.1 Survey Name: Survey #1

Survey Name	Survey #1	Company	CAPSTAR
Started	2/2/2011	Ended	
Tool Name	TOT	Engineer	Anadarko

### 2.1.1 Tie On Point

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)
9.00	0.00	0.00	9.00	0.00	0.00

### 2.1.2 Survey Stations

Date	Type	MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Build (°/100ft)	Turn (°/100ft)	TFace (°)
2/2/2011	Tie On	9.00	0.00	0.00	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/2/2011	NORMAL	142.00	0.50		142.00	0.58	0.00	0.58	0.38	0.38	0.00	0.00
	NORMAL	553.00	0.75		552.97	5.06	0.00	5.06	0.06	0.06	0.00	0.00
2/3/2011	NORMAL	964.00	0.75		963.94	10.44	0.00	10.44	0.00	0.00	0.00	0.00
	NORMAL	1,409.00	1.00		1,408.89	17.24	0.00	17.24	0.06	0.06	0.00	0.00
	NORMAL	2,231.00	0.75		2,230.79	29.79	0.00	29.79	0.03	-0.03	0.00	180.00
2/4/2011	NORMAL	2,789.00	1.00		2,788.72	38.31	0.00	38.31	0.04	0.04	0.00	0.00

## 2.2 Survey Name: Survey #2

Survey Name	Survey #2	Company	SCIENTIFIC
Started	3/28/2011	Ended	
Tool Name	MWD	Engineer	KARL DAVIS

### 2.2.1 Tie On Point

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)
2,789.00	1.00	0.00	2,788.72	38.31	0.00

2.2.2 Survey Stations

Date	Type	MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Build (°/100ft)	Turn (°/100ft)	TFace (°)
3/28/2011	Tie On	2,789.00	1.00	0.00	2,788.72	38.31	0.00	38.31	0.00	0.00	0.00	0.00
3/29/2011	NORMAL	2,893.00	1.26	186.48	2,892.72	38.08	-0.13	38.08	2.17	0.25	-166.85	-176.39
	NORMAL	3,207.00	0.80	154.93	3,206.67	32.67	0.41	32.67	0.23	-0.15	-10.05	-144.10
	NORMAL	3,530.00	0.86	190.48	3,529.64	28.24	0.92	28.24	0.16	0.02	11.01	101.34
	NORMAL	3,848.00	0.78	243.42	3,847.61	24.93	-1.45	24.93	0.23	-0.03	16.65	122.06
	NORMAL	4,165.00	0.55	142.93	4,164.59	22.75	-2.46	22.75	0.33	-0.07	-31.70	-148.43
	NORMAL	4,489.00	1.21	163.51	4,488.56	18.23	-0.55	18.23	0.22	0.20	6.35	36.12
3/30/2011	NORMAL	4,798.00	1.00	193.55	4,797.50	12.48	-0.25	12.48	0.20	-0.07	9.72	124.52
	NORMAL	5,124.00	1.65	189.57	5,123.41	5.08	-1.70	5.08	0.20	0.20	-1.22	-10.05
	NORMAL	5,429.00	0.79	198.86	5,428.34	-1.24	-3.11	-1.24	0.29	-0.28	3.05	171.66
	NORMAL	5,745.00	0.85	201.73	5,744.31	-5.48	-4.68	-5.48	0.02	0.02	0.91	35.83
3/31/2011	NORMAL	6,030.00	0.85	201.73	6,029.28	-9.40	-6.25	-9.40	0.00	0.00	0.00	0.00
	NORMAL	6,536.00	1.11	191.51	6,535.20	-17.69	-8.62	-17.69	0.06	0.05	-2.02	-39.09
	NORMAL	7,042.00	1.20	169.71	7,041.10	-27.71	-8.65	-27.71	0.09	0.02	-4.31	-89.46
4/1/2011	NORMAL	7,548.00	1.49	169.12	7,546.96	-39.38	-6.46	-39.38	0.06	0.06	-0.12	-3.03
4/2/2011	NORMAL	8,055.00	2.41	173.79	8,053.66	-56.45	-4.06	-56.45	0.18	0.18	0.92	12.14
4/3/2011	NORMAL	8,548.00	2.48	164.42	8,546.22	-77.03	-0.08	-77.03	0.08	0.01	-1.90	-84.77
	NORMAL	9,002.00	2.51	164.73	8,999.79	-96.08	5.18	-96.08	0.01	0.01	0.07	24.37
4/4/2011	NORMAL	9,477.00	2.09	171.24	9,474.40	-114.68	9.24	-114.68	0.10	-0.09	1.37	151.34
4/7/2011	NORMAL	10,636.00	2.09	171.24	10,632.63	-156.45	15.68	-156.45	0.00	0.00	0.00	0.00
4/10/2011	NORMAL	10,710.00	2.09	171.24	10,706.58	-159.12	16.09	-159.12	0.00	0.00	0.00	0.00

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> 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.		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b> Ute
		<b>7. UNIT or CA AGREEMENT NAME:</b> NATURAL BUTTES
<b>1. TYPE OF WELL</b> Gas Well	<b>8. WELL NAME and NUMBER:</b> NBU 920-13G	
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.	<b>9. API NUMBER:</b> 43047501510000	
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	<b>PHONE NUMBER:</b> 720 929-6515 Ext	<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES
<b>4. LOCATION OF WELL FOOTAGES AT SURFACE:</b> 1907 FNL 1782 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWNE Section: 13 Township: 09.0S Range: 20.0E Meridian: S	<b>COUNTY:</b> UINTAH	
		<b>STATE:</b> UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:  <input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 10/4/2011  <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"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLARE <input checked="" type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> WILDCAT WELL DETERMINATION <input type="checkbox"/> OTHER	
<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>		
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. The Water shut-off operations have concluded on the subject well. A CIBP was placed at 10,500'. Please see the attached chronological well history. Thank you.		
<b>Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY</b>		
<b>NAME (PLEASE PRINT)</b> Andy Lytle	<b>PHONE NUMBER</b> 720 929-6100	<b>TITLE</b> Regulatory Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 10/14/2011	

**US ROCKIES REGION**  
**Operation Summary Report**

Well: NBU 920-13G		Spud Conductor: 12/23/2010		Spud Date: 2/2/2011				
Project: UTAH-UINTAH		Site: NBU 920-13G		Rig Name No: ROYAL WELL SERVICE 2/2				
Event: WELL WORK EXPENSE		Start Date: 10/3/2011		End Date: 10/4/2011				
Active Datum: RKB @4,800.01ft (above Mean Sea Level)		UWI: SW/NE/0/9/S/20/E/13/0/0/26/PM/N/1907/E/0/1782/0/0						
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
10/3/2011	7:00 - 7:15	0.25	MAINT	48		P		SAFETY= ROAD SAFETY ( DRIVING )
	7:15 - 15:30	8.25	MAINT	30		P		ROAD RIG FROM GLEN BENCH 822-221 TO NBU 920-19G MIRU CP=60# TP=60# BLOW DOWN WELL+ PUMP 15 BBLs TMAC DOWN TBNG NDWH NUBOP R/U FLOOR+TBNG EQUIP P/U & RIH W / 23 JTS 2-3/8" L-80 TBNG T/U @ 10,658' TBNG WILL BE LANDED LOWER IN THE WELL SO LAY DOWN EXCESS XTRA JNTS NEEDED TO TAG POOH W / 313 JTS THAT WERE ORIGINALLY IN THE HOLE L/D POBS
	15:30 - 19:00	3.50	MAINT	30		P		MIRU WIRE LINE P/U 3.750" JUNK BASKET / GAGE RING RIH COROLATE TO SHORT JOINT & CONT RIH TO 10,550' POOH L/D JNK / GAGE RING P/U RIH W / BAKER CIBP & COROLATE & SET CIBP@ 10500' POOH P/U DUMP BAIL W / 2 SX CEMENT RIH COROLATE & DUMP CEMENT ON CIBP @ 10,500' POOH R/D WIRELINE SWIFN
10/4/2011	7:00 - 7:15	0.25	MAINT	48		P		SAFETY= LATCHING / RUNNING PIPE IN THE HOLE
	7:15 - 12:30	5.25	MAINT	30		P		SICP=1200# BLOW DOWN WELL & THEN PUMP 45 BBLs TMAC TO CNTRL WELL P/U XN - NTCH COMBO SN +320JTS 2-3/8" L-80 RIH & LAND EOT@10155.49' BROACH WHILE RIH FROM HANGER TO XN PUMP TMAC AS NEEDED TO CNTRL WELL NDBOP NUWH RDMO SWIFN NOTE: TTL TMAC PUMPED = 140 BBLs NOT RECOVERED

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

RECEIVED  
VERNAL FIELD OFFICE

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

2008 SEP 16 AM 10 41

DEPT OF THE INTERIOR  
BUREAU OF LAND MGMT

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 checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name Ute Tribe
2. Name of Operator Kerr-McGee Oil & Gas Onshore, LP		7. If Unit or CA Agreement, Name and No. 891008900A
3a. Address P.O. Box 173779, Denver, CO 80217-3779	3b. Phone No. (include area code) 720.929.6226	8. Lease Name and Well No. NBU 920-13G
4. Location of Well (Report location clearly and in accordance with any State requirements.)* At surface SWNE 1907' FNL & 1782' FEL LAT 40.03758 LON -109.61145 (NAD 27) At proposed prod. zone N/A		9. API Well No. 43-047-50151
14. Distance in miles and direction from nearest town or post office* 10.7 miles northwest of Ouray, Utah		10. Field and Pool, or Exploratory Natural Buttes Field
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 1782'	16. No. of acres in lease 1920	11. Sec., T. R. M. or Blk. and Survey or Area Sec. 13, T 9S, R 20E
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 1500'	19. Proposed Depth 10,600'	12. County or Parish Uintah
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 4,782.4' GL	22. Approximate date work will start*	13. State UT
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:

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

25. Signature 	Name (Printed Typed) Kevin McIntyre	Date 09/11/2008
-------------------	--	--------------------

Title  
Regulatory Analyst I

Approved by (Signature) 	Name (Printed Typed) Stephanie J. Howard	Date 1/11/10
Title Acting 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) *not posted*

\*(Instructions on page 2)

NOS 9-1708 *McCall*  
AFMSS# *09-Med24A*

RECEIVED  
FEB 24 2010

DIV. OF OIL, GAS & MINING

*UD06M*

CONDITIONS OF APPROVAL ATTACHED

NOTICE OF APPROVAL



**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**

<b>Company:</b>	Kerr McGee Oil & Gas Onshore, LP	<b>Location:</b>	SWNE, Sec.13, T9S R20E
<b>Well No:</b>	NBU 920-13G	<b>Lease No:</b>	UTU-0579
<b>API No:</b>	43-047-50151	<b>Agreement:</b>	Natural Buttes Unit

**OFFICE NUMBER: (435) 781-4400**

**OFFICE FAX NUMBER: (435) 781-3420**

**RECEIVED**

**FEB 24 2000**

**DIV. OF OIL, GAS & MINING**

**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: <a href="mailto:ut_vn_opreport@blm.gov">ut_vn_opreport@blm.gov</a> .
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)**

RECEIVED

FEB 24 2010

DIV. OF OIL, GAS & MINING

**Site-Specific Conditions of Approval:**

- Paint New facilities "shadow gray."
- Monitor location by a permitted archaeologist during the construction process.
- In accordance with the guidelines specified in the Utah BLM Field Office Guidelines for Raptor Protection from Human and Land Use Disturbances, 2002 (See Appendix D), 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 01 through September 30) and conduct its operations according to specification in the guidelines.
- If project construction operation are scheduled to occur after June 11, 2010, KMG will conduct additional biological surveys in accordance with the guidelines specified I the USFWS Rare Plant Conservation Measures for Uinta Basin hookless cactus (See Appendix D) and conduct its operation 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 sued 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 (See Appendix E) and conduct its operations according to applicable seasonal restrictions and spatial offsets.
- 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 E).
- 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.

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

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**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 [UT\\_VN\\_Welllogs@BLM.gov](mailto: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.

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**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.
- In accordance with 43 CFR 3162.4-3, this well shall be reported on the "Monthly Report of Operations" (Oil and Gas Operations Report ((OGOR)) starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report shall be filed in duplicate, directly with the Minerals Management Service, P.O. Box 17110, Denver, Colorado 80217-0110, or call 1-800-525-7922 (303) 231-3650 for reporting information.
- 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

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Well: NBU 920-13G  
12/18/2009

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.



# United States Department of the Interior

BUREAU OF INDIAN AFFAIRS  
UINTAH AND OURAY AGENCY

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IN REPLY REFER TO:  
Real Estate Services – MS 420

OCT 29 2009

## FINDING OF NO SIGNIFICANT IMPACT

Environmental Assessment # U&O-FY09-Q4-010 for:

NBU 920-13A	NENE Sec. 13, T9S-R20E; 625' FNL & 586' FEL
NBU 920-13B	NWNE Sec. 13, T9S-R20E; 925' FNL & 1555' FEL
NBU 920-13G	SWNE Sec. 13, T9S-R20E; 1907' FNL & 1782' FEL
NBU 920-13H	SENE Sec. 13, T9S-R20E; 1786' FNL & 658' FEL

Based on the analysis in the attached final Environmental Assessment (EA) to construct, drill, complete, and operate four natural gas wells (NBU 920-13A, NBU 920-13B, NBU 920-13G, and NBU 920-13H) proposed by Kerr McGee O&G Onshore, LP (KMG), I have determined that by implementation of the Proposed Action and environmental mitigation measures as specified in the EA, the proposed four wells will have no significant impact on the quality of the human environment. In accordance with Section 102 (2) (c) of the National Environmental Policy Act of 1969, as amended, and an Environmental Impact Statement will not be required.

This determination is supported by the following findings:

1. Agency and public involvement was conducted, and environmental issues related to development of the four wells (NBU 920-13A, NBU 920-13B, NBU 920-13G, and NBU 920-13H) were identified. Alternative courses of action were identified prior to finalization of the Proposed Action, and additional mitigation measures were developed in response to environmental concerns and issues. To implement the Proposed Action, KMG will obtain all necessary permits and easements following procedures established by the Ute Tribe and in accordance with its Tribal Surface Use Agreement.
2. The EA discloses the environmental consequences of the Proposed Action and one alternative, the "no action" alternative.

The Ute Indian Tribe Energy and Minerals Department oil and gas technicians have performed constant observation and monitoring of the proposed project locations upon receipt of notification of the Proposed Action. The technicians have assisted in all surveying and planning

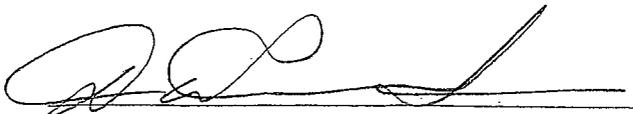
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for the Proposed Action, including, but not limited to, civil, cultural, paleontological, and biological surveys. The technicians have actively participated in the permitting process by providing input and direction. ALL ALTERNATIVE ACTIONS have been considered by the Ute Indian Tribe and have been deemed unusable. Therefore, no other action alternatives are analyzed in the EA.

3. Protective measures will be applied to protect visual resources, cultural resources, paleontological resources, water quality, and protected wildlife and vegetation species, as detailed in Chapter 5, Mitigation Measures.
4. The Proposed Action is planned not to jeopardize threatened and endangered species. See Chapters 4.1.4.1, 4.1.4.2, 4.3.3.4, 5.1, and 5.2.2.
5. There are no adverse effects on historic properties for the purpose of 36 CFR 800.9 (b). Pre-construction surveys were conducted to identify presence or absence of cultural resources, and the Proposed Action was designed to avoid identified resources. Archeological value will be preserved. Should undiscovered archeological remains be encountered during project ground-disturbing activities, work will stop in the area of discovery and the stipulations 36 CFR 800.11 be followed, as described in Chapter 5.2.3.
6. Impacts to public health and safety are mitigated through implementation of safety measures described by the applicant in the Proposed Action and the EA. See Chapter 2.1, 3.8.3, and 4.1.8.3, and 4.3.3.8.
7. Impacts to floodplains and/or wetlands will not occur because none will be affected by the Proposed Action. See Chapter 3.2.1.
8. The cumulative effects to the environment are mitigated to avoid or minimize adverse effects of implementation of the proposed project. See Chapter 4.3.3.
9. The Proposed Action will improve the economic and social conditions of the affected Indian community. See Chapter 4.1.6 and 4.3.3.6.

  
\_\_\_\_\_  
Superintendent, Uintah and Ouray Agency

10/29/09  
\_\_\_\_\_  
Date

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# ENVIRONMENTAL ASSESSMENT

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*Environmental Assessment # U&O-FY09-Q4-010*

<i>NBU 920-13A</i>	<i>NENE Sec. 13, T9S-R20E; 625' FNL &amp; 586' FEL</i>
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*SLB&M, Uintah County, Utah*

September 2009

Uintah and Ouray Agency

Bureau of Indian Affairs

Branch of Real Estate Services and Environmental Quality Services

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