

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

FORM 3

AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL				1. WELL NAME and NUMBER NBU 920-12K		
2. TYPE OF WORK DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>				3. FIELD OR WILDCAT NATURAL BUTTES		
4. TYPE OF WELL Gas Well Coalbed Methane Well: NO				5. UNIT or COMMUNITIZATION AGREEMENT NAME NATURAL BUTTES		
6. NAME OF OPERATOR KERR-MCGEE OIL & GAS ONSHORE, L.P.				7. OPERATOR PHONE 720 929-6587		
8. ADDRESS OF OPERATOR P.O. Box 173779, Denver, CO, 80217				9. OPERATOR E-MAIL mary.mondragon@anadarko.com		
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) UTU-0144868B		11. MINERAL OWNERSHIP FEDERAL <input checked="" type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>		12. SURFACE OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input checked="" type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>		
13. NAME OF SURFACE OWNER (if box 12 = 'fee')				14. SURFACE OWNER PHONE (if box 12 = 'fee')		
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')				16. SURFACE OWNER E-MAIL (if box 12 = 'fee')		
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN') Ute		18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input type="checkbox"/> (Submit Commingling Application) NO <input checked="" type="checkbox"/>		19. SLANT VERTICAL <input checked="" type="checkbox"/> DIRECTIONAL <input type="checkbox"/> HORIZONTAL <input type="checkbox"/>		
20. LOCATION OF WELL	FOOTAGES	QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN
LOCATION AT SURFACE	1913 FSL 2179 FWL	NESW	12	9.0 S	20.0 E	S
Top of Uppermost Producing Zone	1913 FSL 2179 FWL	NESW	12	9.0 S	20.0 E	S
At Total Depth	1913 FSL 2179 FWL	NESW	12	9.0 S	20.0 E	S
21. COUNTY UINTAH		22. DISTANCE TO NEAREST LEASE LINE (Feet) 1913		23. NUMBER OF ACRES IN DRILLING UNIT 600		
		25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 1000		26. PROPOSED DEPTH MD: 10700 TVD:		
27. ELEVATION - GROUND LEVEL 4694		28. BOND NUMBER WYB000291		29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE Permit #43-8496		

ATTACHMENTS

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

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

NAME Kevin McIntyre	TITLE Regulatory Analyst I	PHONE 720 929-6226
SIGNATURE	DATE 09/25/2008	EMAIL Kevin.McIntyre@anadarko.com
API NUMBER ASSIGNED 43047501240000	APPROVAL  Permit Manager	

Proposed Hole, Casing, and Cement

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

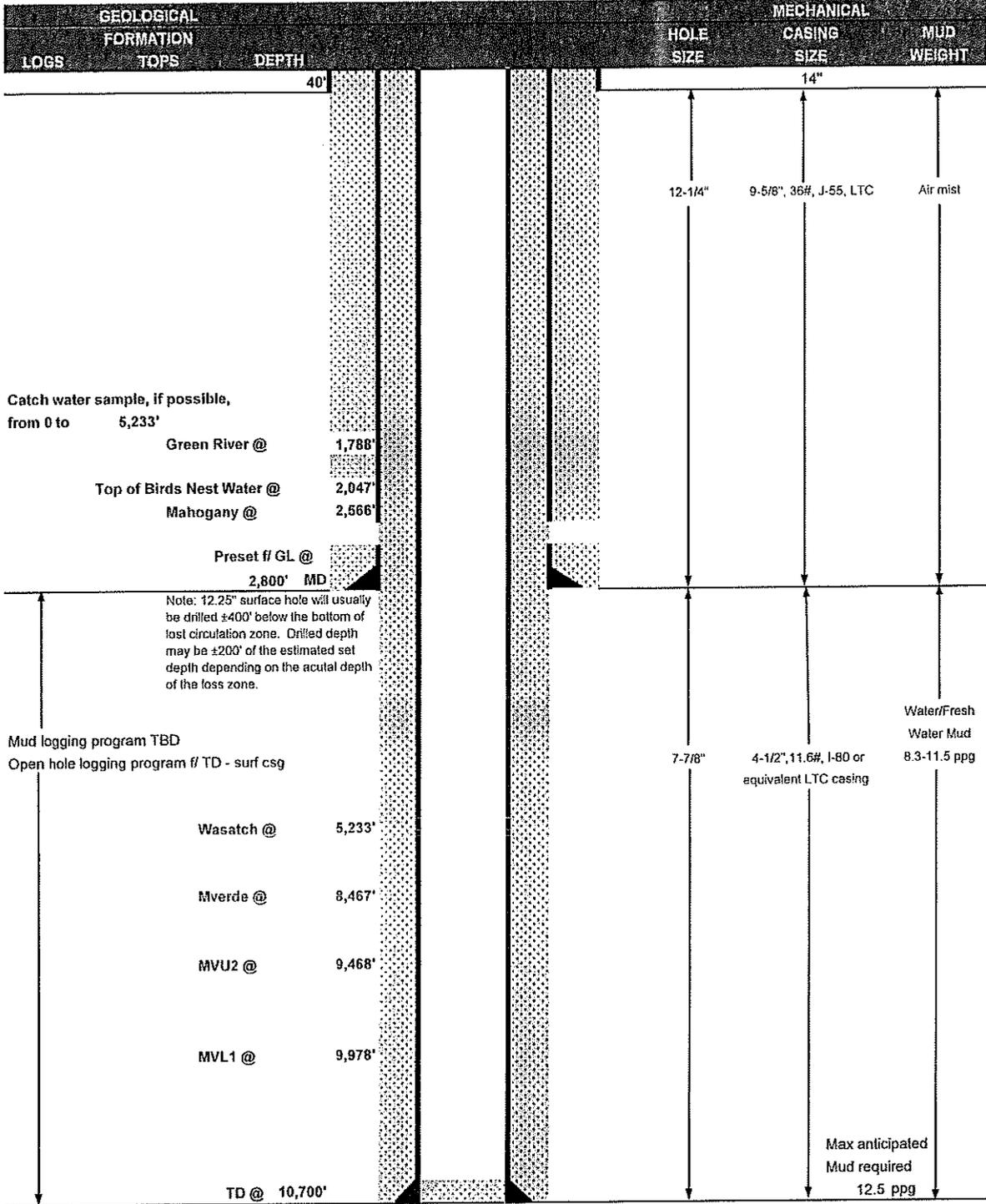
Proposed Hole, Casing, and Cement

String	Hole Size	Casing Size	Top (MD)	Bottom (MD)		
Prod	7.875	4.5	0	10700		
Pipe	Grade	Length	Weight			
	Grade I-80 LT&C	10700	11.6			
	Cement Interval	Top (MD)	Bottom (MD)			
		0	10700			
		Cement Description	Class	Sacks	Yield	Weight
			Premium Lite High Strength	520	3.38	12.5
			Pozzuolanic Cement	1670	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 920-12K	TD	10,700'	MD/TVD	
FIELD	Natural Buttes	COUNTY	Uintah	STATE	Utah
		ELEVATION	4,694' GL	KB	4,709'
SURFACE LOCATION	NESW 1913' FSL & 2179' FWL			BHL	Straight Hole
	Latitude: 40.048040	Longitude: -109.616250	NAD 27		
OBJECTIVE ZONE(S)	Wasatch/Mesaverde				
ADDITIONAL INFO	Regulatory Agencies: BLM (MINERALS), BIA (SURFACE), UDOGM, Tri-County Health Dept.				





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

CASING PROGRAM

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS		
						BURST	COLLAPSE	TENSION
CONDUCTOR	14"	0-40'				3520	2020	453000
SURFACE	9-5/8"	0 to 2,800'	36.00	J-55	LTC	0.77	1.54	5.13
						7780	6350	201000
PRODUCTION	4-1/2"	0 to 10700	11.60	I-80	LTC	1.69	0.91	1.86

- 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 4280 psi

CEMENT PROGRAM

		TY. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE Option 1	LEAD	500	Premium cmt + 2% CaCl + .25 pps flocele	215	60%	15.60	1.18
	TOP OUT CMT (1)	250	20 gals sodium silicate + Premium cmt + 2% CaCl + .25 pps flocele	100		15.60	1.18
	TOP OUT CMT (2)	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
SURFACE Option 2	LEAD	2000	NOTE: If well will circulate water to surface, option 2 will be utilized Prem cmt + 16% Gel + 10 pps gilsonite +.25 pps Flocele + 3% salt BWOC	230	35%	11.00	3.82
	TAIL	500	Premium cmt + 2% CaCl + .25 pps flocele	180	35%	15.60	1.18
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
	PRODUCTION	LEAD	4,730'	Premium Lite II + 3% KCl + 0.25 pps celloflake + 5 pps gilsonite + 10% gel + 0.5% extender	520	60%	12.50
	TAIL	5,970'	50/50 Poz/G + 10% salt + 2% gel +.1% R-3	1670	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 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: _____
 Brad Laney
 DRILLING SUPERINTENDENT: _____
 Randy Bayne

DATE: _____
 DATE: _____

**NBU 920-12K
 NESW Sec. 12, T9S,R20E
 UINTAH COUNTY, UTAH
 UTU-0144868B**

ONSHORE ORDER NO. 1

DRILLING PROGRAM

1. Estimated Tops of Important Geologic Markers:

<u>Formation</u>	<u>Depth</u>
Uinta	0- Surface
Green River	1788'
Bird's Nest	2047'
Mahogany	2566'
Wasatch	5233'
Mesaverde	8467'
MVU2	9468'
MVL1	9978'
TD	10,700'

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

<u>Substance</u>	<u>Formation</u>	<u>Depth</u>
	Green River	1788'
	Bird's Nest	2047'
	Mahogany	2566'
Gas	Wasatch	5233'
Gas	Mesaverde	8467'
Gas	MVU2	9468'
Gas	MVL1	9978'
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 10,700' TD, approximately equals 6634 psi (calculated at 0.62 psi/foot).

Maximum anticipated surface pressure equals approximately 4280 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.

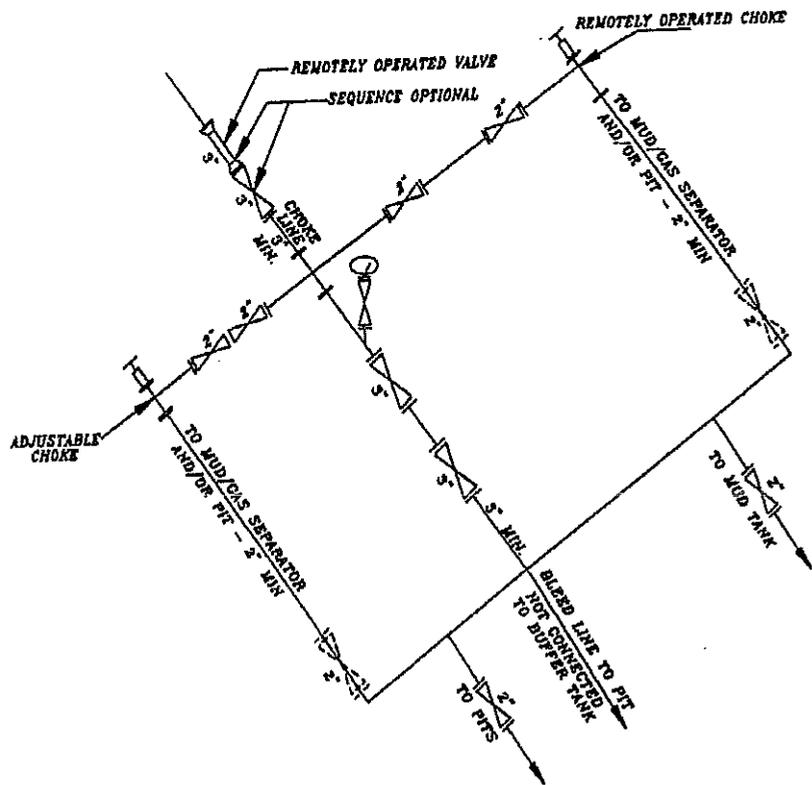
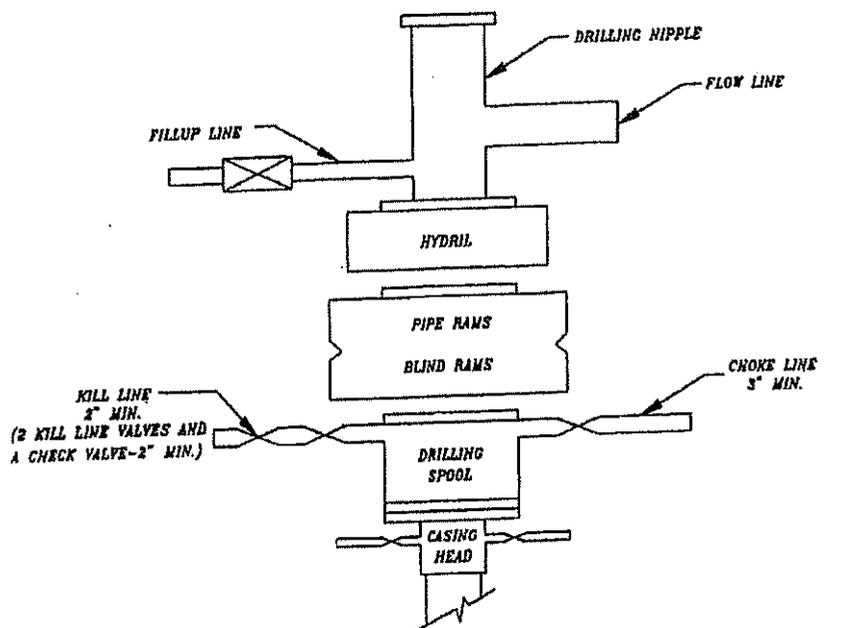
Conclusion

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.

EXHIBIT A



SCHEMATIC DIAGRAM OF 5,000 PSI BOP STACK

NBU 920-12K
NESW Sec. 12 ,T9S,R20E
UINTAH COUNTY, UTAH
UTU-0144868B

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 1,050' +/- 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 436' in length and 30' in width. A 4" surface steel pipeline will be constructed utilizing existing disturbance where possible. The pipeline will be butt-welded together and pulled into place with a rubber tired tractor.

Variations to Best Management Practices (BMPs) Requested:

Approximately 436' 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 has been performed and will be submitted. A paleontology report (IPC #08-142) has been performed by Inter-Mountain Paleo Consulting (dated June 28, 2008) and is being submitted at this time.

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

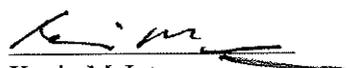
Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

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

9/12/2008
Date

T9S, R20E, S.L.B.&M.

S89°20'W 79.02 (G.L.O.)

Found 1968
Brass Cap.

S89°19'55"W - 2606.52' (Meas.)

S89°21'44"W - 2608.33' (Meas.)

Found 1968
Brass Cap.

Found 1968
Brass Cap.
Pile of Stones.

**WELL LOCATION:
NBU 920-12K**

ELEV. UNGRADED GROUND = 4694.4'

NBU 920-12K (Proposed Well Head)
 NAD 83 LATITUDE = 40.04800° (40° 02' 52.80")
 LONGITUDE = 109.61694° (109° 37' 00.99")
 NAD 27 LATITUDE = 40.04804° (40° 02' 52.93")
 LONGITUDE = 109.61625° (109° 36' 58.50")

N00°23'35"E - 2659.69' (Meas.)
 N00°21'43"E - 2659.80' (Meas.)
 N00°21'43"E - 2659.80' (Meas.)
 N0°21'E 80.60 (G.L.O.)

Found 1968
Brass Cap.
Pile of Stones.

Found 1968
Brass Cap.
Pile of Stones.

N00°15'42"W - 2665.17' (Meas.)
 N0°17'W 40.38 (G.L.O.)
 N00°27'12"W - 2615.05' (Meas.)
 N0°28'W 39.69 (G.L.O.)

12

Proposed Well

2179'

1913'

Found 1968
Brass Cap.
Pile of Stones.

S88°55'40"W (Basis of Bearings)
2670.83' (Measured)
S88°53'W 40.48 (G.L.O.)

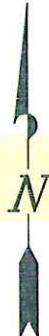
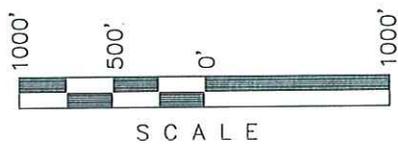
Found 1968
Brass Cap.
Pile of Stones.

S88°55'55"W - 2612.51' (Meas.)
S88°55'W 39.58 (G.L.O.)

Found 1968
Brass Cap.
Pile of Stones.

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.

REGISTERED LAND SURVEYOR
 REGISTRATION No. 6028691
 STATE OF UTAH
John R. Maugh
 JOHN R. MAUGH

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

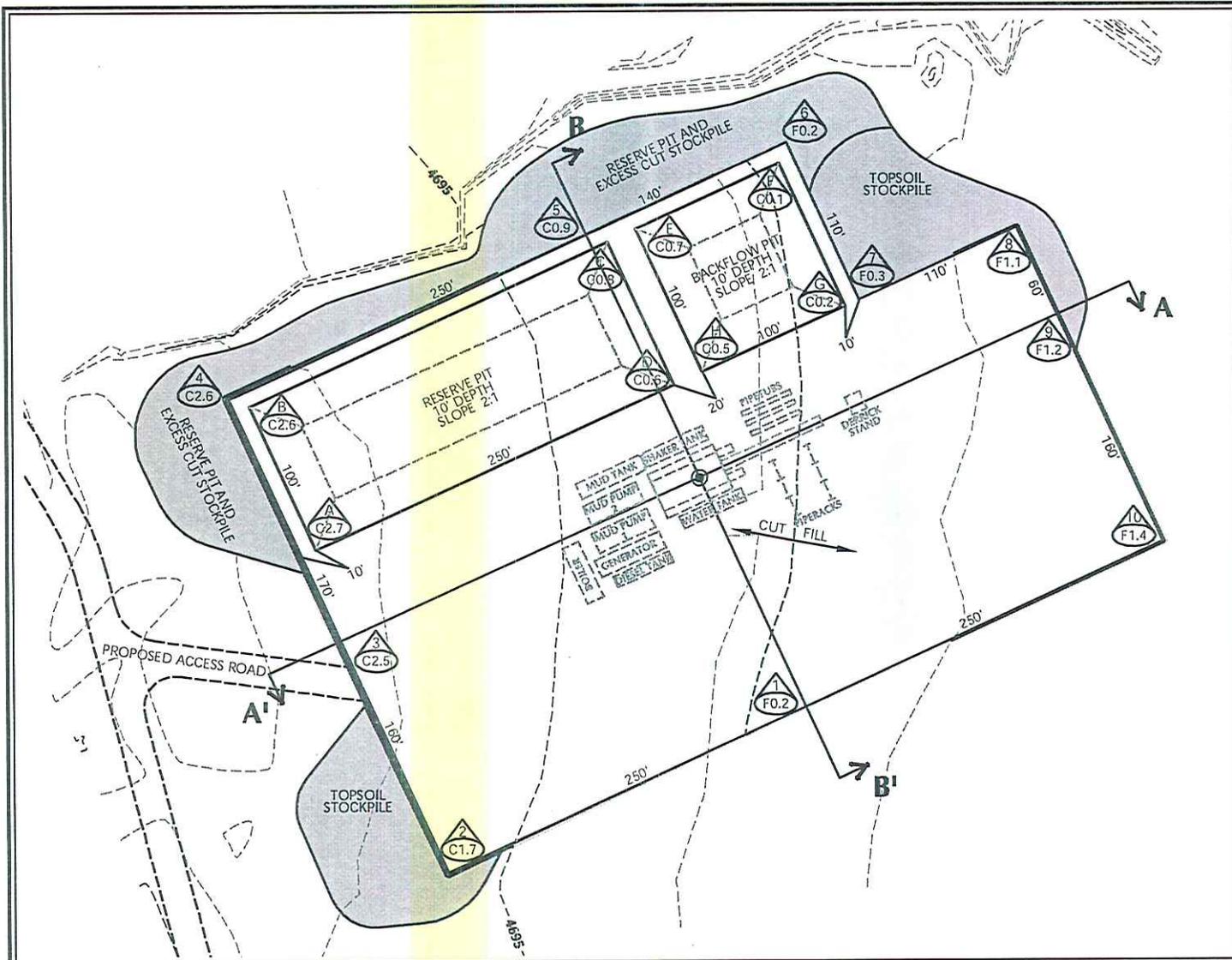


CONSULTING, LLC
371 Coffeen Avenue
Sheridan WY 82801
Phone 307-674-0609
Fax 307-674-0182

TIMBERLINE (435) 789-1365
ENGINEERING & LAND SURVEYING, INC.
38 WEST 100 NORTH - VERNAL, UTAH 84078

DATE SURVEYED: 07-29-08	SURVEYED BY: M.S.B.	SHEET 1 OF 9
DATE DRAWN: 07-31-08	DRAWN BY: M.W.W.	
SCALE: 1" = 1000'	Date Last Revised:	

NBU 920-12K
WELL PLAT
1913' FSL, 2179' FWL
NE ¼ SW ¼ OF SECTION 12, T9S, R20E,
S.L.B.&M. UTAH COUNTY, UTAH.



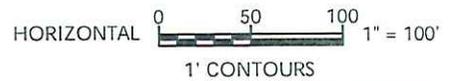
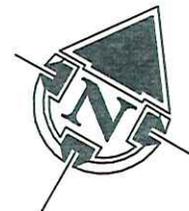
WELL PAD LEGEND

- WELL LOCATION
- - - EXISTING CONTOURS (1' INTERVAL)
- PROPOSED CONTOURS (1' INTERVAL)

WELL PAD NBU 920-12K QUANTITIES

EXISTING GRADE @ LOC. STAKE = 4,694.4'
 FINISHED GRADE ELEVATION = 4,693.8'
 CUT SLOPES = 1.5:1
 FILL SLOPES = 1.5:1

TOTAL CUT FOR WELL PAD = 2,645 C.Y.
 TOTAL FILL FOR WELL PAD = 2,324 C.Y.
 TOPSOIL @ 6" DEPTH = 2,888 C.Y.
 TOTAL DISTURBANCE = 3.58 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

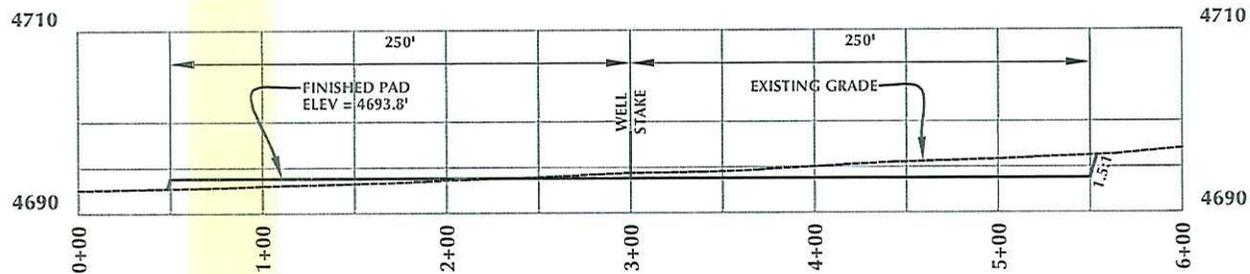


CONSULTING, LLC
 371 Coffeen Avenue
 Sheridan WY 82801
 Phone 307-674-0609
 Fax 307-674-0182

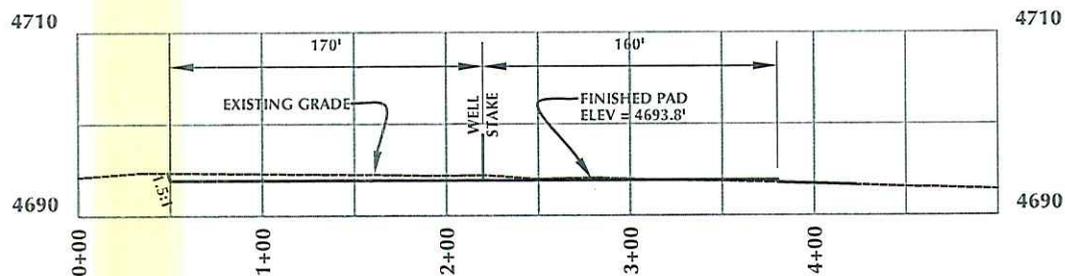
**NBU 920-12K
 WELL PAD - LOCATION LAYOUT**
 1913' FSL, 2179' FWL
 NE1/4SW1/4, SECTION 12, T.9S., R.20E.
 S.L.B.&M., UINTAH COUNTY, UTAH

Scale: 1"=100'	Date: 8/15/08	SHEET NO:
REVISED:	BY DATE	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.**

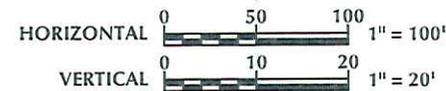
1099 18th Street - Denver, Colorado 80202

**NBU 920-12K
WELL PAD - CROSS SECTIONS
1913' FSL, 2179' FWL
NE1/4SW1/4, SECTION 12, T.9S., R.20E.
S.L.B.&M., UINTAH COUNTY, UTAH**



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Scale: 1"=100'	Date: 8/15/08	SHEET NO:
REVISED:	BY DATE	3 3 OF 9



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38 WEST 100 NORTH VERNAL, UTAH 84078

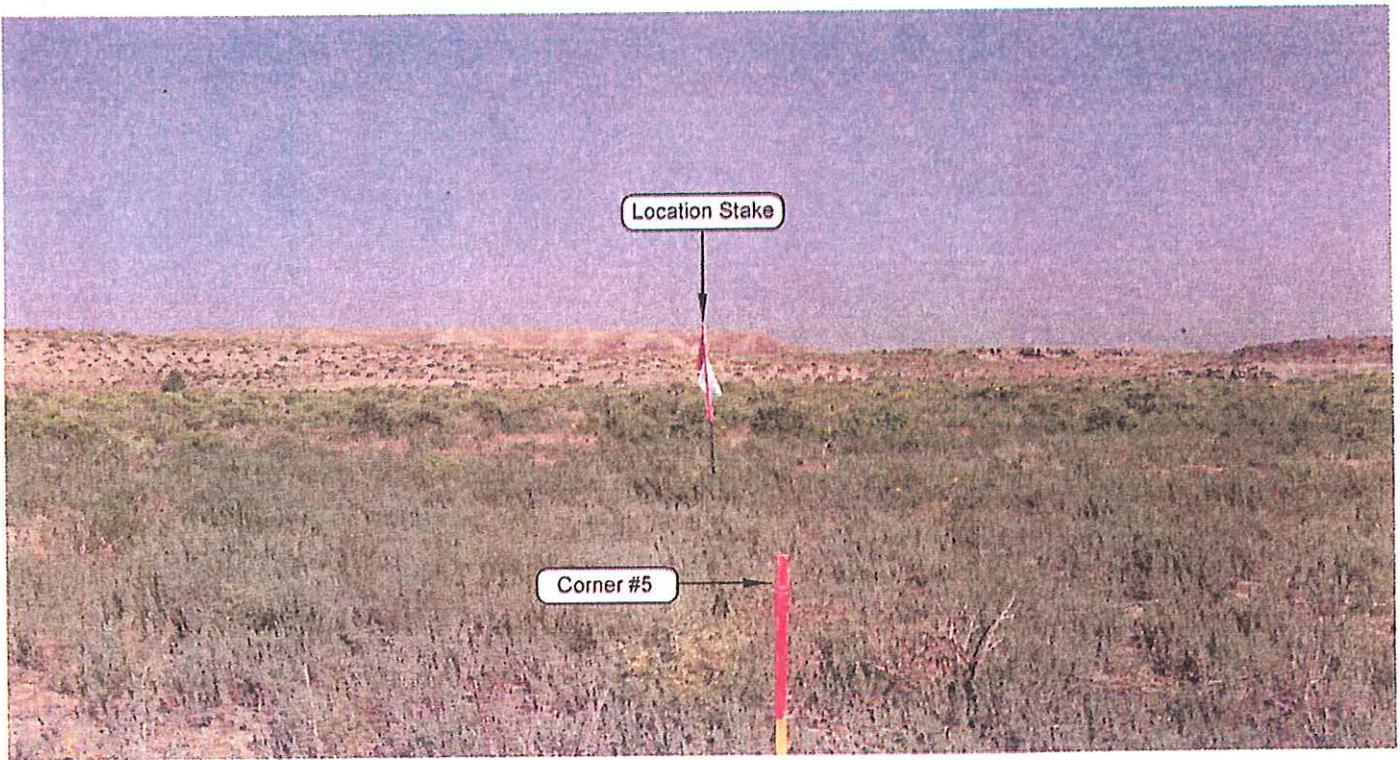


PHOTO VIEW: FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: NORTHWESTERLY

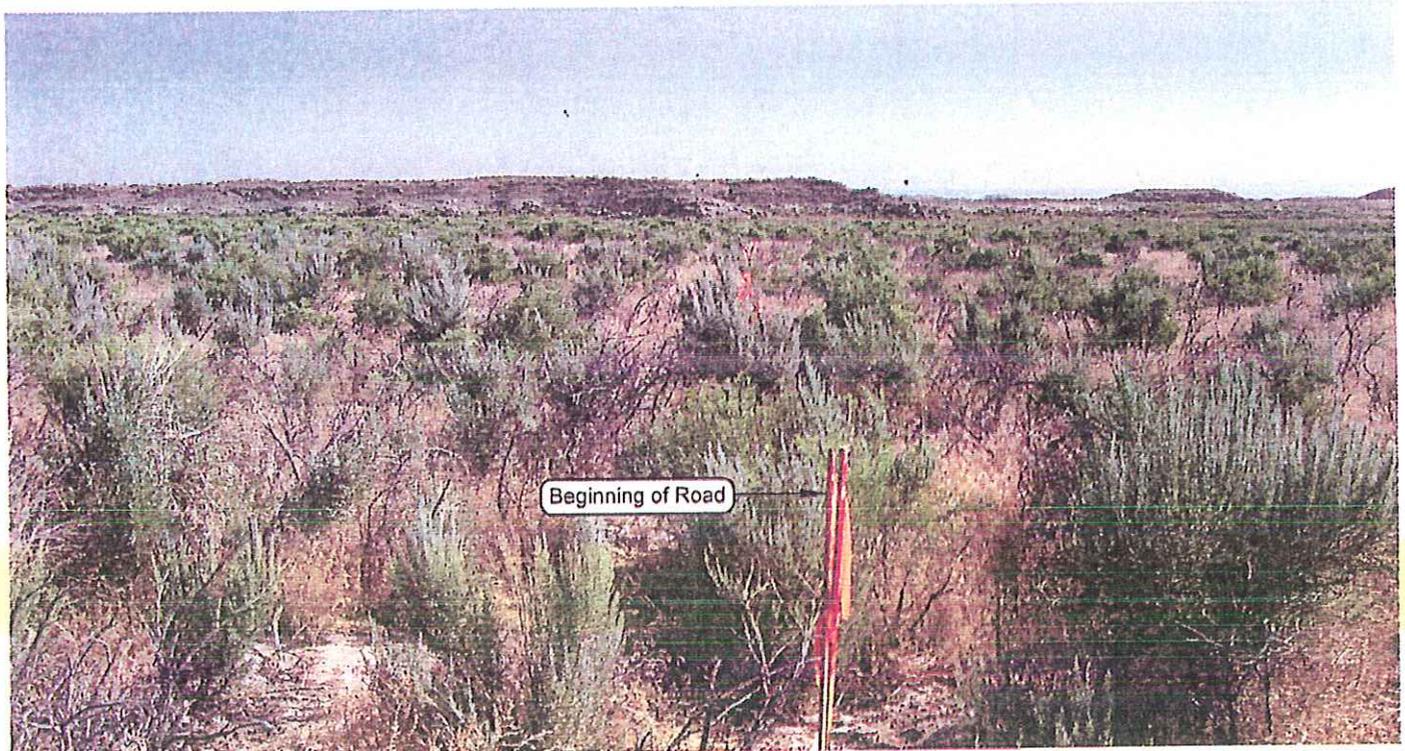


PHOTO VIEW: FROM BEGINNING OF PROPOSED ROAD

CAMERA ANGLE: NORTHEASTERLY

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

NBU 920-12K
 1913' FSL, 2179' FWL
 NE 1/4 SW 1/4 OF SECTION 12, 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

TAKEN BY: M.S.B. DRAWN BY: M.W.W.

DATE TAKEN: 07-29-08

DATE DRAWN: 07-31-08

REVISED:

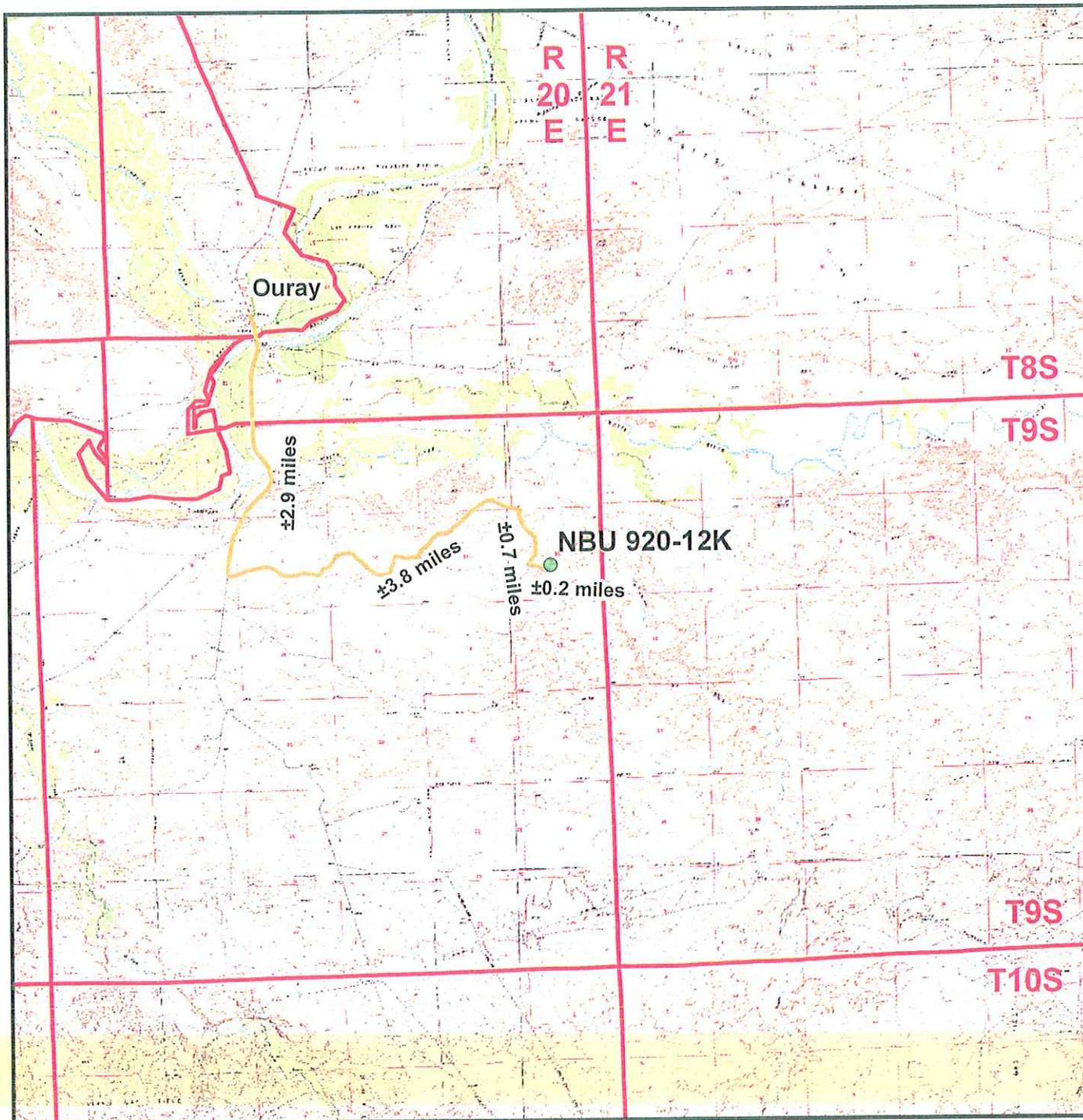
Timberline (435) 789-1365
 Engineering & Land Surveying, Inc.
 38 WEST 100 NORTH VERNAL, UTAH 84078

SHEET
4
 OF 9

Kerr-McGee Oil & Gas Onshore, LP
NBU 920-12K
Section 12, 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 2.9 MILES TO THE INTERSECTION OF AN EXISTING ROAD TO THE EAST. EXIT LEFT AND PROCEED IN A NORTHEASTERLY DIRECTION ALONG EXISTING ROAD APPROXIMATELY 3.8 MILES TO THE INTERSECTION OF AN EXISTING ROAD TO THE SOUTH. EXIT RIGHT AND PROCEED IN A SOUTHERLY DIRECTION ALONG EXISTING ROAD APPROXIMATELY 0.7 MILES TO THE PROPOSED ACCESS ROAD FOR NBU 920-12I. FOLLOW NBU 920-12I ROAD FLAGS IN A SOUTHEASTERLY DIRECTION APPROXIMATELY 1050 FEET TO THE PROPOSED ACCESS ROAD. FOLLOW ROAD FLAGS IN A NORTHEASTERLY DIRECTION APPROXIMATELY 150 FEET TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 38.3 MILES IN A SOUTHERLY DIRECTION.



Legend

-  Proposed NBU 920-12K Well Location
-  Access Route - Proposed

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

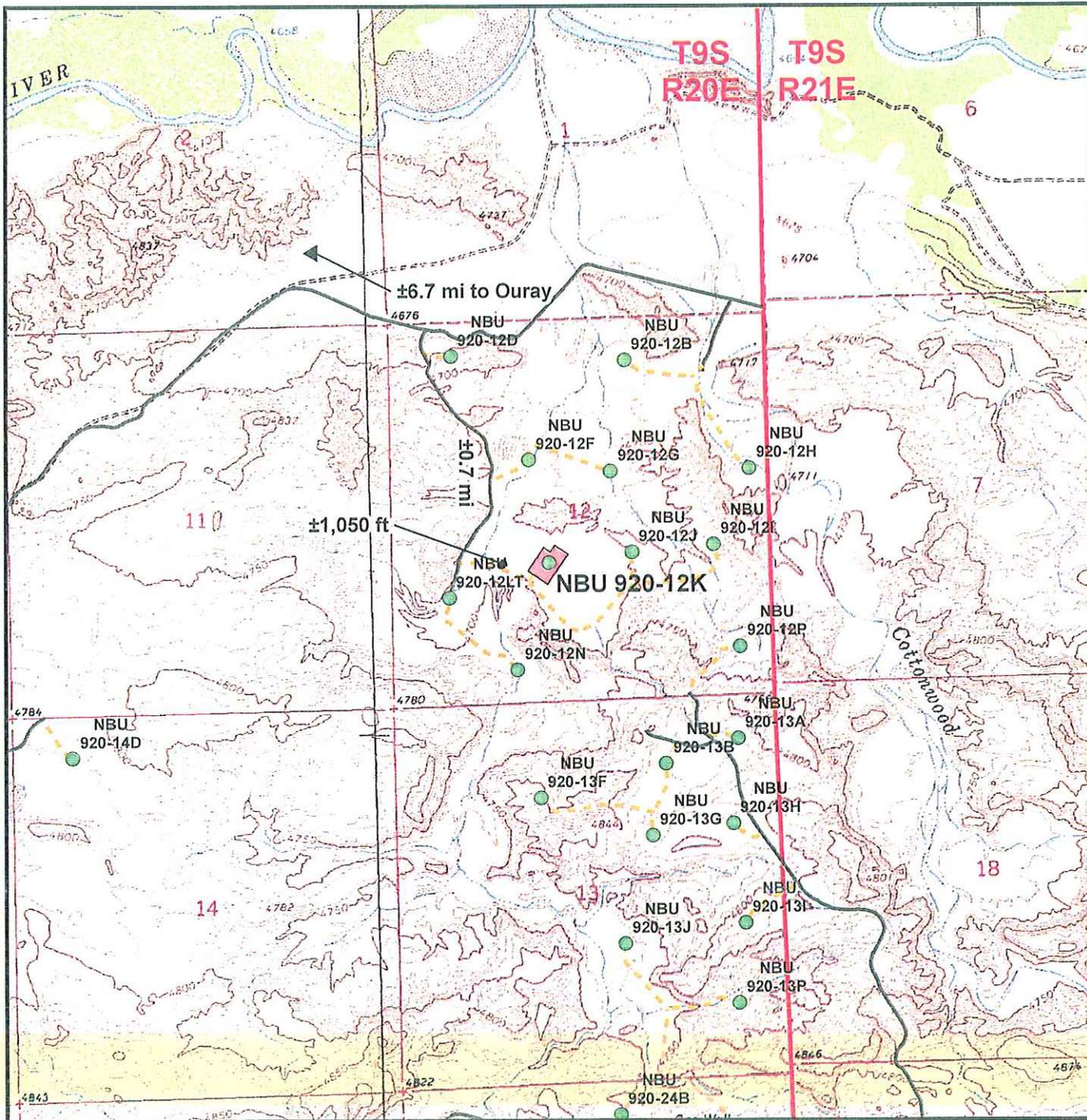
NBU 920-12K
 Topo A
 1913' FSL, 2179' FWL
 NE¼ SW¼, Section 12, T9S, R20E
 S.L.B.&M., Uintah County, Utah



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	5
Revised:	Date:	5 of 9



Legend

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

Total Proposed Road Length = ±1,050 ft

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

NBU 920-12K

Topo B

1913' FSL, 2179' FWL

NE¼ SW¼, Section 12, T9S, R20E

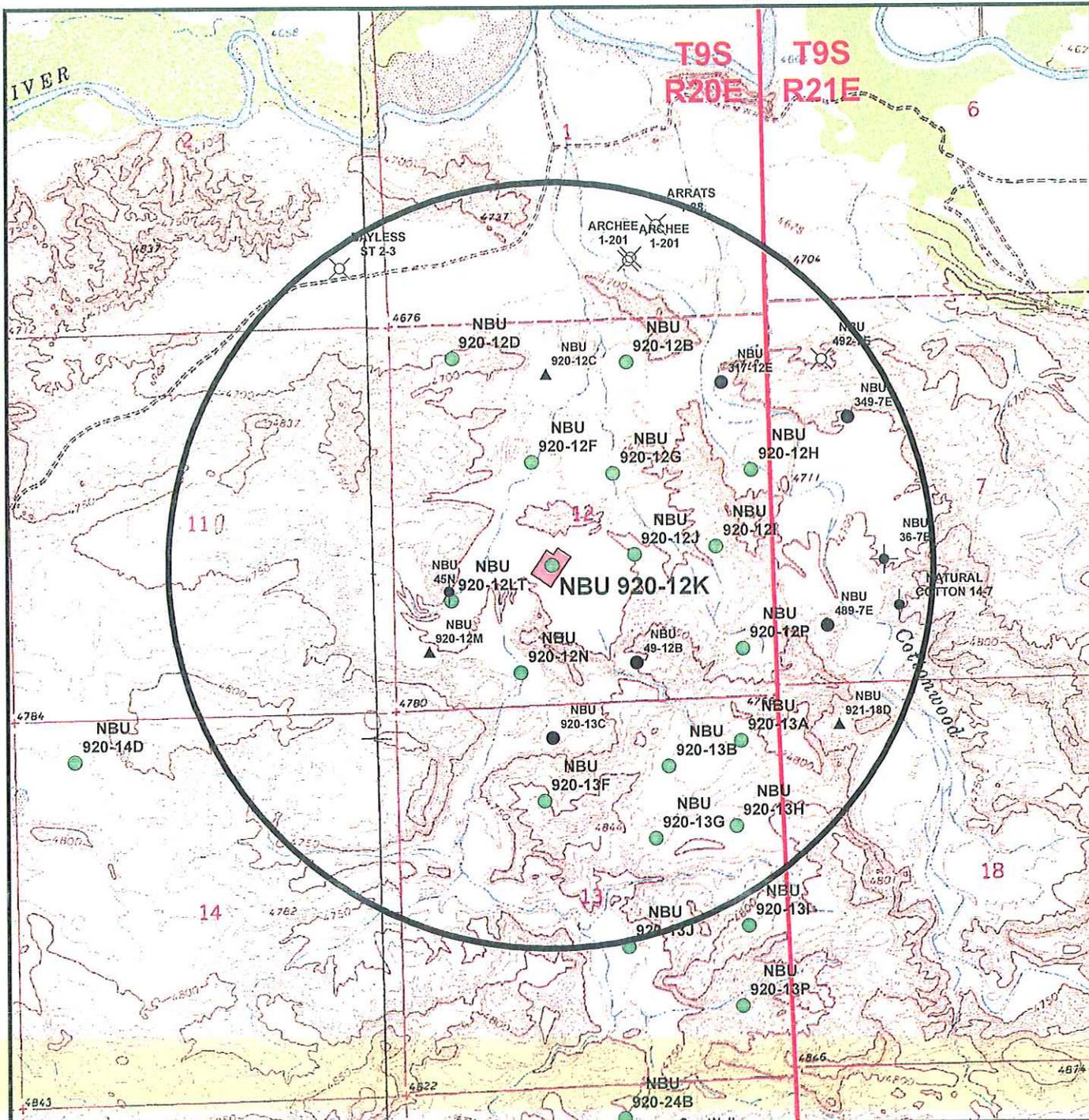
S.L.B.&M., Uintah County, Utah



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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	6
Revised:	Date:	



Legend

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

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

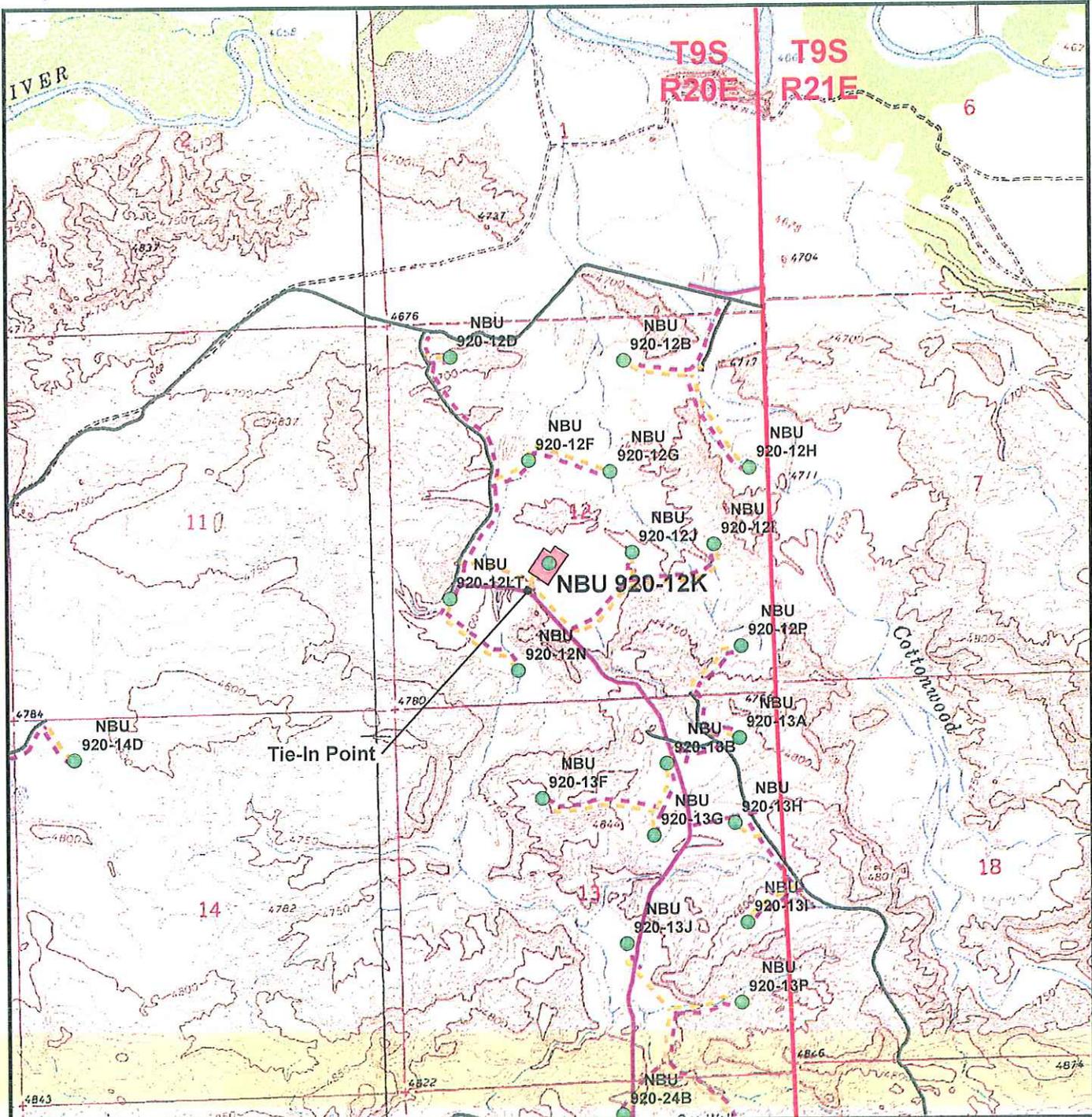
Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

NBU 920-12K
Topo C
1913' FSL, 2179' FWL
NE¼ SW¼, Section 12, T9S, R20E
S.L.B.&M., Uintah County, Utah

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



Scale: 1" = 2000ft	NAD83 USP Central	Sheet No:
Drawn: JELO	Date: 14 Aug 2008	7
Revised:	Date:	



Legend

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

Total Proposed Pipeline Length: ±436ft

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

NBU 920-12K
Topo D
1913' FSL, 2179' FWL
NE¼ SW¼, Section 12, T9S, R20E
S.L.B.&M., Uintah County, Utah

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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	8	8 of 9
Revised:	Date:		

IPC #08-142

Paleontological Reconnaissance Survey Report

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

Ouray SE
Topographic Quadrangle
Uintah County, Utah

June 28, 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 #920-12B, D, E, F, G, H, I, J & K; #920-13A, B & H" (Sec. 12 & 13, T 9 S, R 20 E) was conducted by Stephen D. Sandau, Arica Scheetz and Amanda Dopheide on June 26, 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 #920-12B, D, E, F, G, H, I, J & K; #920-13A, B & H" (Sec. 12 & 13, T 9 S, R 20 E) are located on Ute Indian Reservation land about 1 miles south of the White River and some 3.5 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 #920-12B

The proposed access road and pipeline travel approximately 500 ft west until they meet the proposed well pad for "NBU 920-12B" in the NW/NE quarter-quarter section of Sec. 12, T 9 S, R 20 E (Figure 1). The proposed access road, pipeline and well pad are staked on sloping ground covered by colluvium, outcrops of purple sandstone composed of subrounded, medium to coarse grains, and outcrops of light gray sandstone composed of subrounded, medium grains. The purple sandstone outcrops were observed approximately 20 ft south from the proposed pipeline and the light gray outcrops were observed approximately 10 ft west of the center stake. Isolated fragments of *Echmatemys* carapace and plastron were found around the purple sandstone.

NBU #920-12D

The proposed access road travels east where it meets the proposed well pad for "NBU 920-12D" in the NW/NW quarter-quarter section of Sec. 12, T 9 S, R 20 E (Figure 1). The proposed access road and well pad are staked on relatively flat ground covered almost entirely by eolian wind deposits. Although the ground is mostly covered in eolian blown sand, there was an outcrop of light brown sandstone composed of subrounded, medium grains approximately 10 feet east from the center stake. Isolated pieces of turtle carapace and plastron belonging to *Echmatemys* and pieces of a mammalian skull with enamel shards were found scattered around the sandstone, and a partial *Echmatemys* specimen was found *in-situ*.

NBU #920-12E

The proposed access road and pipeline travel east approximately 500 ft until meeting the proposed well pad for 'NBU 920-12E' in the SW/NW quarter-quarter section of Sec. 12, T 9 S, R 20 E (Figure 1). The proposed access road, pipeline, and well pad are staked on sloping ground that is covered by colluvium, reworked washout deposits, and large outcrops of purple sandstone composed of subrounded, medium to coarse grains. Fossils found in the area consisted of isolated pieces of carapace and plastron belonging to *Echmatemys* and a large bone fragment (brontothere?).

NBU #920-12F

The proposed access road and pipeline travel west approximately 500 ft from the existing road until they meet the proposed well pad for "NBU 920-12F" in the SE/NW quarter-quarter section of Sec. 12, T 9 S, R 20 E (Figure 1). The proposed access road, pipeline, and well pad are staked on relatively flat ground covered with colluvium and reworked washout deposits. No fossils were found.

NBU #920-12G

The proposed access road and pipeline travel west approximately 1,500 ft from the existing road until they meet the proposed well pad in the SW/NE quarter-quarter section of Sec. 12, T 9 S, R 20 E (Figure 1). The proposed access road, pipeline, and well pad are staked on relatively flat ground covered with colluvium and reworked washout deposits. No fossils were found.

NBU #920-12H

The proposed access road and pipeline travel approximately 500 ft southeast until they meet the proposed well pad for "NBU 920-12H" in the SE/NE quarter-quarter section of Sec. 12, T 9 S, R 20 E (Figure 1). The proposed access road, pipeline, and well pad are staked on sloping ground covered by colluvium and outcrops of purple sandstone composed of subrounded, medium grains. The purple sandstone outcrop was observed approximately 30 ft from south from the center stake, and 20 ft east of the proposed pipeline. Fossils found in the area included isolated fragments of *Echmatemys* carapace and plastron.

NBU #920-12I

The proposed access road and pipeline travel approximately 2,000 ft east until they meet with the proposed well pad "NBU 920-12I" in the NE/SE quarter-quarter section of Sec. 12, T 9 S, R 20 E (Figure 1). The proposed access road, pipeline, and well pad are staked on sloping ground covered by colluvium and outcrops of purple sandstone composed of subrounded, medium grains that are approximately 20 ft south of the proposed pipeline and well pad. Isolated fragments of turtle carapace and plastron belonging to *Echmatemys* were found around the sandstone and four highly weathered vertebrae possibly belonging to the suborder serpentes were found approximately 10 ft from the center stake.

NBU #920-12J

The proposed access road and pipeline branch off from the proposed access road and pipeline to “NBU 920-12I” and travel north to proposed well pad “NBU 920-12J” in the NW/SE quarter-quarter section of Sec. 12, T 9 S, R 20 E (Figure 1). The proposed access road, pipeline, and well pad are staked on sloping ground covered by colluvium and an outcrop of purple sandstone composed subrounded, medium grains. The outcrop of sandstone lies approximately 20 ft south from the proposed pipeline and well pad. Isolated fragments of *Echmatemys* carapace and plastron were found around the sandstone.

NBU #920-12K

The proposed access road and pipeline branch off the proposed access road and pipeline for “NBU 920-12I” and travel north to proposed well pad “NBU 920-12K” in the NE/SW quarter-quarter section of Sec. 12, T 9 S, R 20 E (Figure 1). The proposed access road, pipeline, and well pad are staked on sloping ground that is covered by colluvium and out crops of purple sandstone composed of subrounded, medium grains. The outcrop of sandstone lies approximately 20 ft south from the proposed pipeline and well pad. Isolated fragments of *Echmatemys* carapace and plastron were found around the sandstone.

NBU #920-13A

The proposed access road and pipeline travel east from the existing road until they meet the proposed well pad for “NBU 920-13A” in the NW/NE quarter-quarter section of Sec. 13, T 9 S, R 20 E (Figure 1). The proposed access road, pipeline, and well pad are staked on relatively flat ground covered by colluvium and purple outcrops of sandstone composed of subrounded, medium grains. The outcrops of purple sandstone were observed approximately 20 ft southeast of the central stake. Fossils found included several fragments of *Echmatemys* that were loosely associated to each other.

NBU #920-13B

The proposed access road and pipeline travel southwest from the existing road until they meet the proposed well pad for “NBU 920-13B” in the NW/NE quarter-quarter section of Sec. 13, T 9 S, R 20 E (Figure 1). The proposed access road, pipeline, and well pad are staked on relatively flat ground covered by colluvium and outcrops of purple sandstone composed of subrounded, medium grains. The outcrop of sandstone was observed approximately 20 ft west and 30 ft south from the well pad. Fossils found in the area included isolated fragments of *Echmatemys* carapace and plastron.

NBU #920-13H

The proposed access road and pipeline travel west from the existing road until they meet the proposed well pad for “NBU 920-13H” in the SE/NE quarter-quarter section of Sec. 13, T 9 S, R 20 E (Figure 1). The proposed access road, pipeline, and well pad are staked on flat ground that is covered by colluvium. No fossils were found.

SURVEY RESULTS

PROJECT	GEOLOGY	PALEONTOLOGY
"NBU #920-12B" (Sec. 12, T 9 S, R 20, E)	The proposed access road, pipeline and well pad are staked on sloping ground covered by colluvium, outcrops of purple sandstone composed of subrounded, medium to coarse grains, and outcrops of light gray sandstone composed of subrounded, medium grains. The purple sandstone outcrops were observed approximately 20 ft south from the proposed pipeline and the light gray outcrops were observed approximately 10 ft west of the center stake.	Isolated fragments of <i>Echmatemys</i> carapace and plastron were found around the purple sandstone. Class 3a
"NBU #920-12D" (Sec. 12, T 9 S, R 20, E)	The proposed access road and well pad are staked on relatively flat ground covered almost entirely by eolian wind deposits. Although the ground is mostly covered in eolian blown sand, there was an outcrop of light brown sandstone composed of subrounded, medium grains approximately 10 feet east from the center stake.	Isolated pieces of turtle carapace and plastron belonging to <i>Echmatemys</i> and pieces of a mammalian skull with enamel shards were found scattered around the sandstone, and a partial <i>Echmatemys</i> specimen was found <i>in-situ</i> . Class 4a
"NBU #920-12E" (Sec. 12, T 9 S, R 20, E)	The proposed access road, pipeline, and well pad are staked on sloping ground that is covered by colluvium, reworked washout deposits, and large outcrops of purple sandstone composed of subrounded, medium to coarse grains.	Fossils found in the area consisted of isolated pieces of carapace and plastron belonging to <i>Echmatemys</i> and a large bone fragment (brontothere?). Class 4a
"NBU #920-12F" (Sec. 12, T 9 S, R 20, E)	The proposed access road, pipeline, and well pad are staked on relatively flat ground covered with colluvium and reworked washout deposits.	No fossils were found. Class 3a
"NBU #920-12G" (Sec. 12, T 9 S, R 20, E)	The proposed access road, pipeline, and well pad are staked on relatively flat ground covered with colluvium and reworked washout deposits.	No fossils were found. Class 3a
"NBU #920-12H" (Sec. 12, T 9 S, R 20, E)	The proposed access road, pipeline, and well pad are staked on sloping ground covered by colluvium and outcrops of purple sandstone composed of subrounded, medium grains. The purple sandstone outcrop was observed approximately 30 ft from south from the center stake, and 20 ft east of the proposed pipeline.	Fossils found in the area included isolated fragments of <i>Echmatemys</i> carapace and plastron. Class 4a

<p>“NBU #920-12I” (Sec. 12, T 9 S, R 20, E)</p>	<p>The proposed access road, pipeline, and well pad are staked on sloping ground covered by colluvium and outcrops of purple sandstone composed of subrounded, medium grains that are approximately 20 ft south of the proposed pipeline and well pad.</p>	<p>Isolated fragments of turtle carapace and plastron belonging to <i>Echmatemys</i> were found around the sandstone and four highly weathered vertebrae possibly belonging to the suborder serpentes were found approximately 10 ft from the center stake. Class 4a</p>
<p>“NBU #920-12J” (Sec. 12, T 9 S, R 20, E)</p>	<p>The proposed access road, pipeline, and well pad are staked on sloping ground covered by colluvium and an outcrop of purple sandstone composed subrounded, medium grains. The outcrop of sandstone lies approximately 20 ft south from the proposed pipeline and well pad.</p>	<p>Isolated fragments of <i>Echmatemys</i> carapace and plastron were found around the sandstone. Class 3a</p>
<p>“NBU #920-12K” (Sec. 12, T 9 S, R 20, E)</p>	<p>The proposed access road, pipeline, and well pad are staked on sloping ground that is covered by colluvium and out crops of purple sandstone composed of subrounded, medium grains. The outcrop of sandstone lies approximately 20 ft south from the proposed pipeline and well pad.</p>	<p>Isolated fragments of <i>Echmatemys</i> carapace and plastron were found around the sandstone. Class 3a</p>
<p>“NBU #920-13A” (Sec. 13, T 9 S, R 20, E)</p>	<p>The proposed access road, pipeline, and well pad are staked on relatively flat ground covered by colluvium and purple outcrops of sandstone composed of subrounded, medium grains. The outcrops of purple sandstone were observed approximately 20 ft southeast of the central stake.</p>	<p>Fossils found included several fragments of <i>Echmatemys</i> that were loosely associated to each other. Class 3a</p>
<p>“NBU #920-13B” (Sec. 13, T 9 S, R 20, E)</p>	<p>The proposed access road, pipeline, and well pad are staked on relatively flat ground covered by colluvium and outcrops of purple sandstone composed of subrounded, medium grains. The outcrop of sandstone was observed approximately 20 ft west and 30 ft south from the well pad.</p>	<p>Fossils found in the area included isolated fragments of <i>Echmatemys</i> carapace and plastron. Class 3a</p>
<p>“NBU #920-13H” (Sec. 13, T 9 S, R 20, E)</p>	<p>The proposed access road, pipeline, and well pad are staked on flat ground that is covered by colluvium.</p>	<p>No fossils were found. Class 3a</p>

RECOMMENDATIONS

A reconnaissance survey was conducted for Kerr McGee's proposed well pads, access roads, and pipelines for "NBU #920-12B, D, E, F, G, H, I, J & K; #920-13A, B & H" (Sec. 12 & 13, T 9 S, R 20 E) The 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

Due to the number of fossil vertebrates found, we recommend that a permitted paleontologist be present to monitor the construction of thee proposed access roads, pipelines, and well pads "NBU #920-12D, NBU #920-12E, and NBU #920-12I" (Sec. 12, T 9 S, R 20 E)

We further recommended that the remaining access roads, pipelines and well pads covered in this report have no paleontological restriction placed on them during construction. **However, buried pipeline will encounter Uinta formational sediments along most of the staked pipeline corridors and care should be taken to report any vertebrate fossils which are disturbed.**

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.

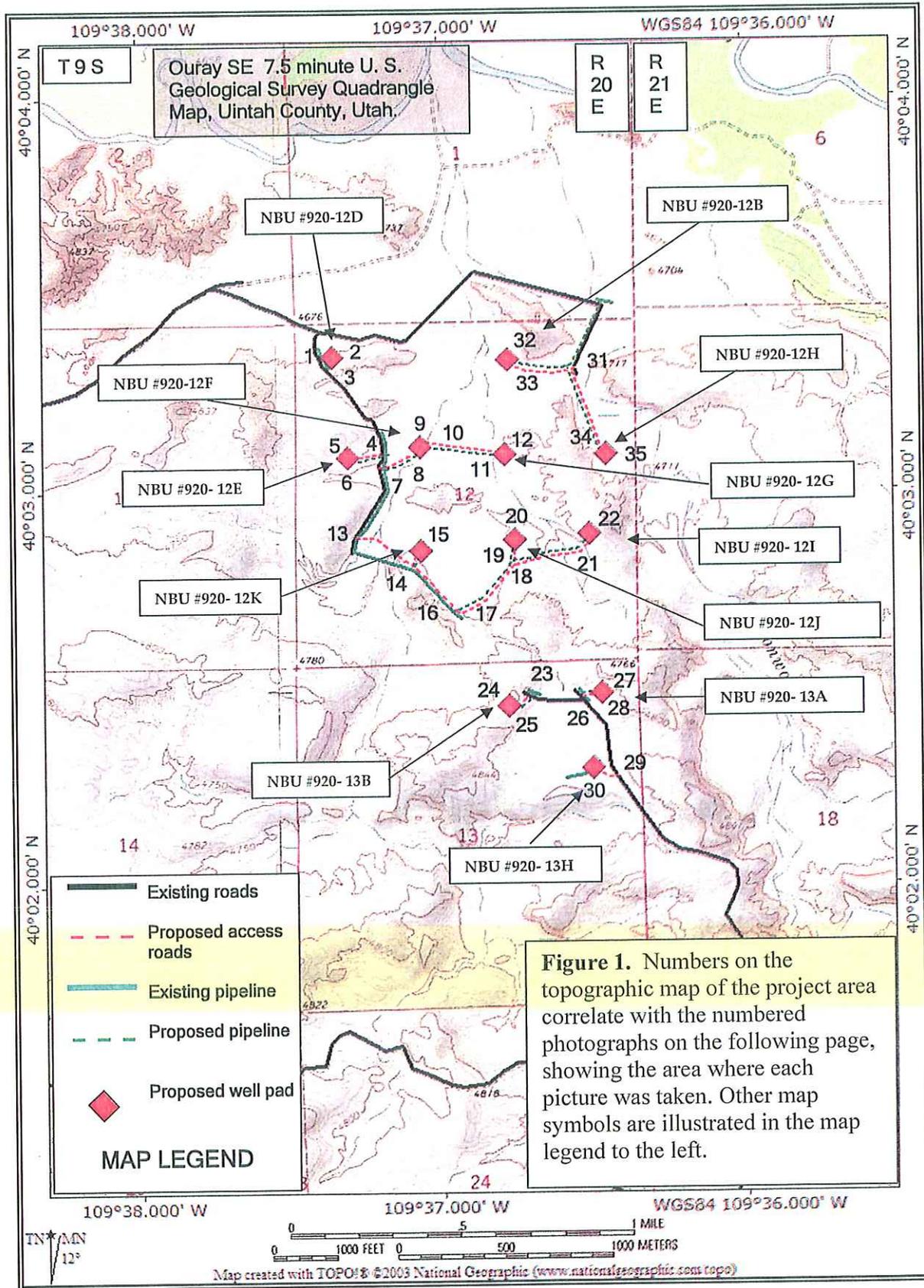


Figure 1. *continued...*

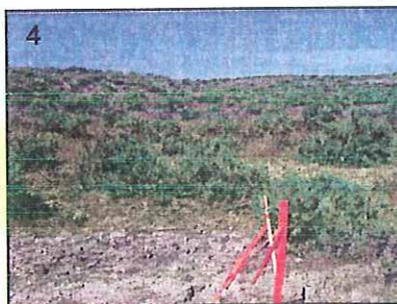
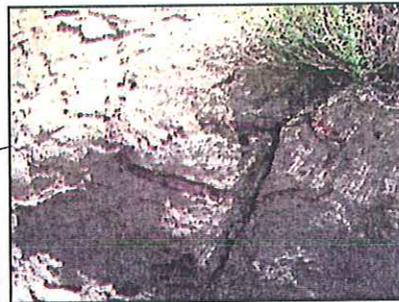
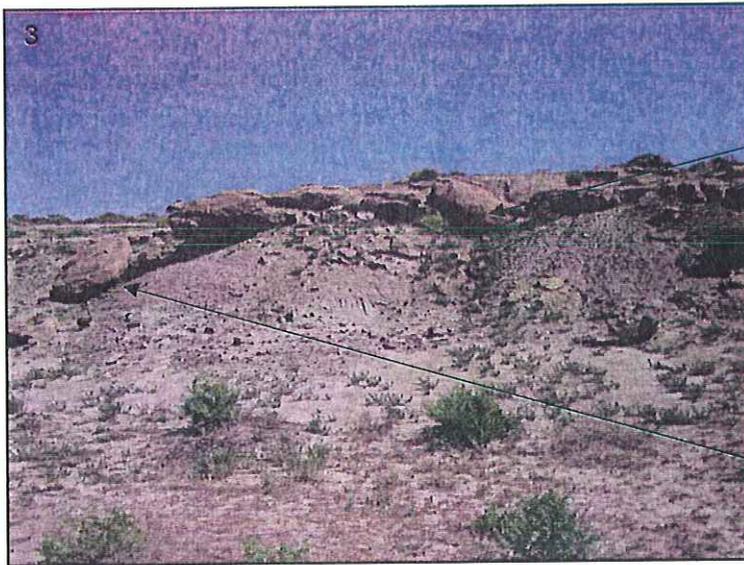
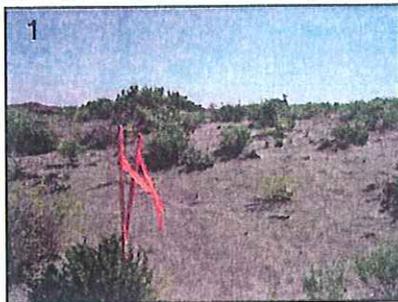


Figure 1. *continued...*

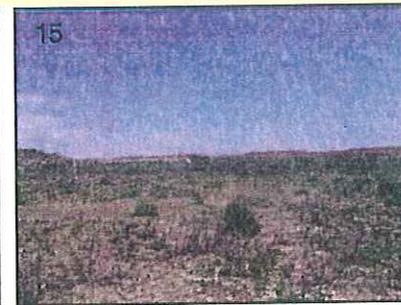
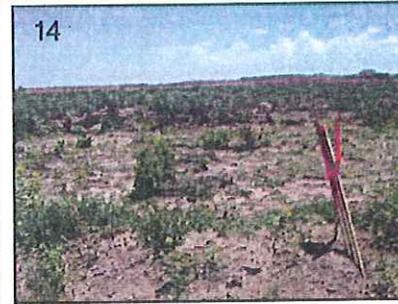
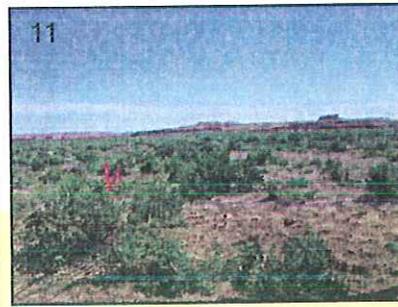
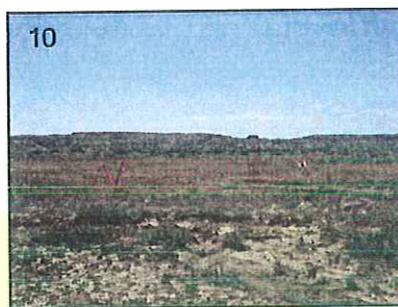
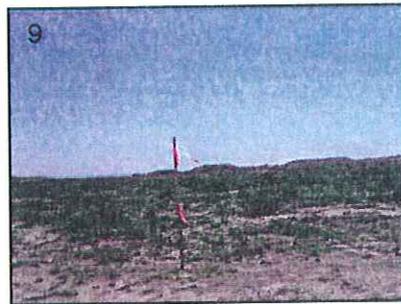
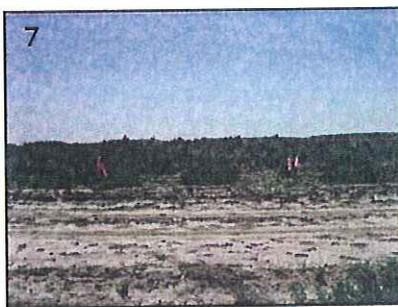
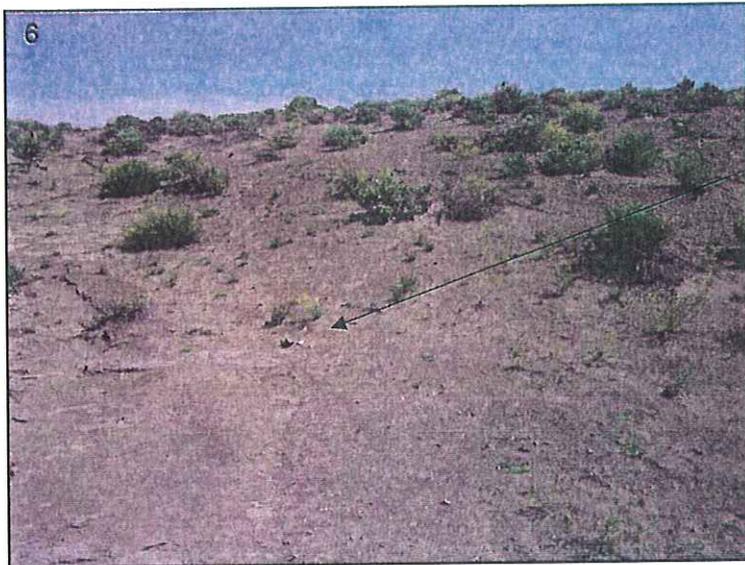


Figure 1. *continued...*

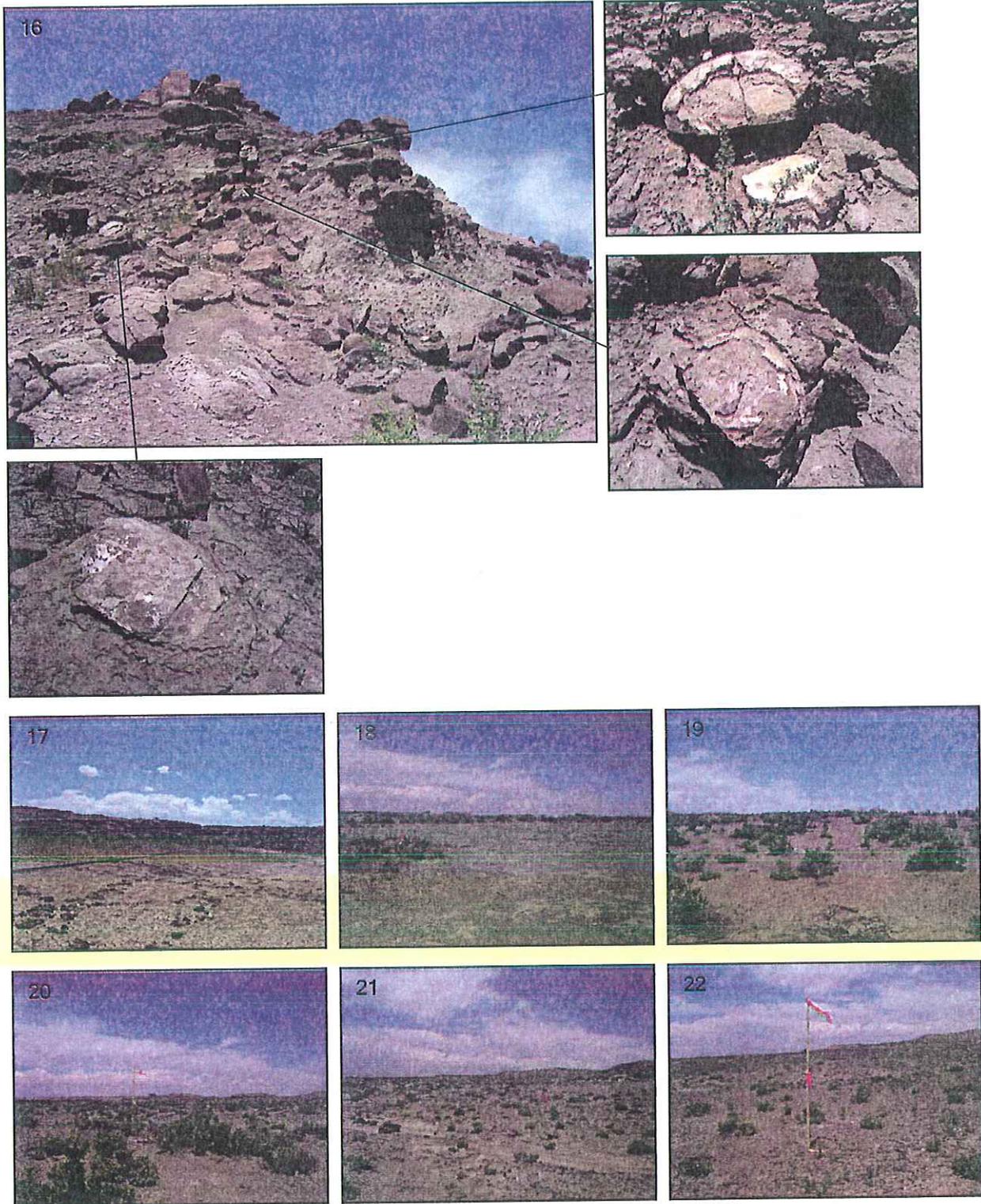


Figure 1. *continued...*

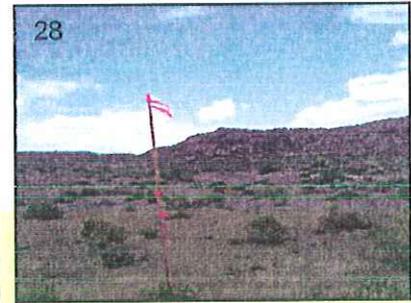
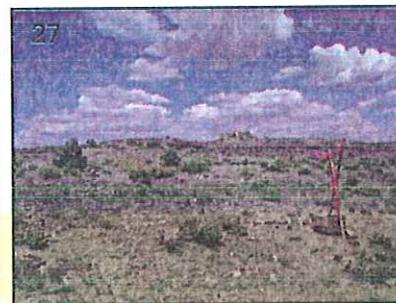
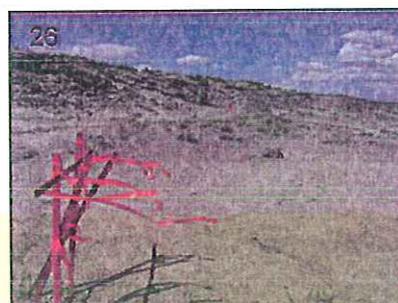
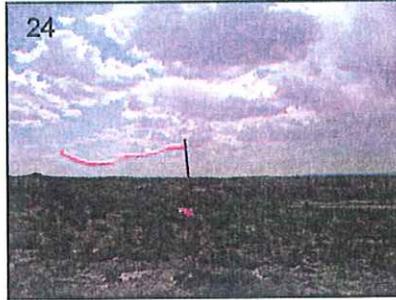


Figure 1. *continued...*



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United States Department of the Interior

BUREAU OF LAND MANAGEMENT
Utah State Office
P.O. Box 45155
Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:
3160
(UT-922)

September 17, 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 MESA VERDE)		
43-047-50126	NBU 920-12I Sec 12	T09S R20E 2076 FSL 0799 FEL
43-047-50125	NBU 920-12J Sec 12	T09S R20E 2014 FSL 1926 FEL
(Proposed PZ WASATCH-MESA VERDE)		
43-047-50099	NBU 921-27P3 Sec 27	T09S R21E 1384 FSL 1270 FEL
	BHL Sec 27	T09S R21E 0645 FSL 1250 FEL
43-047-50124	NBU 920-12K Sec 12	T09S R20E 1913 FSL 2179 FWL
43-047-50123	NBU 920-12N Sec 12	T09S R20E 0460 FSL 1726 FWL

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

/s/ Michael L. Coulthard

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

MCoulthard:mc:9-17-08

API Number: 4304750124

Well Name: NBU 920-12K

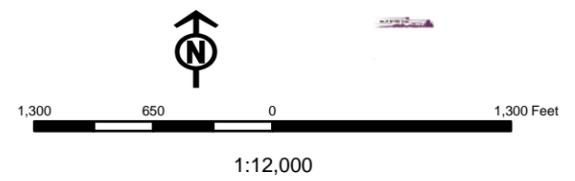
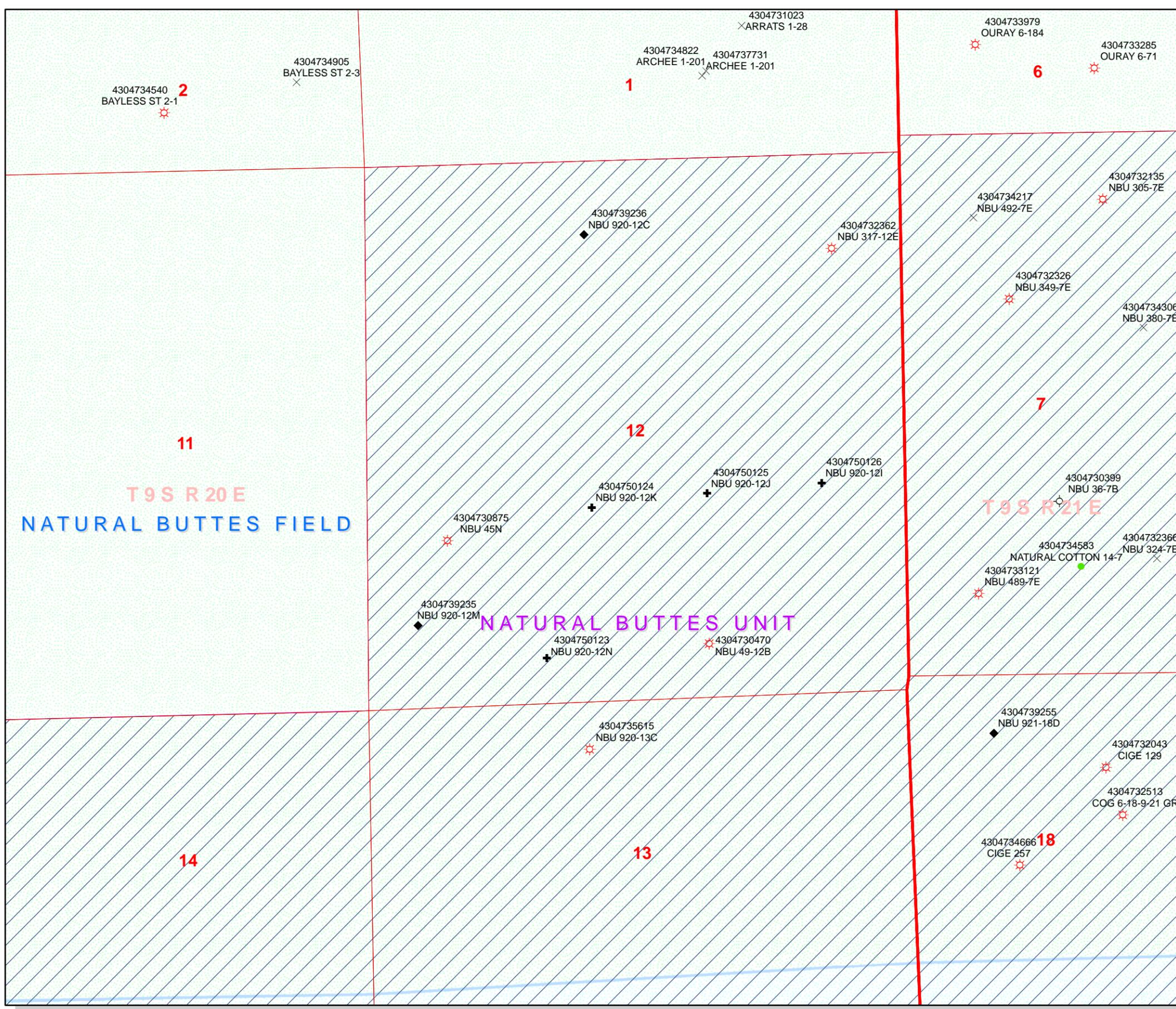
Township 09.0 S Range 20.0 E Section 12

Meridian: SLBM

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

Map Prepared:
Map Produced by Diana Mason

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



WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 9/12/2008

API NO. ASSIGNED: 43047501240000

WELL NAME: NBU 920-12K

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

PHONE NUMBER: 720 929-6226

CONTACT: Kevin McIntyre

PROPOSED LOCATION: NESW 12 090S 200E

Permit Tech Review:

SURFACE: 1913 FSL 2179 FWL

Engineering Review:

BOTTOM: 1913 FSL 2179 FWL

Geology Review:

COUNTY: UINTAH

LATITUDE: 40.04798

LONGITUDE: -109.61620

UTM SURF EASTINGS: 618043.00

NORTHINGS: 4433790.00

FIELD NAME: NATURAL BUTTES

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU-0144868B

PROPOSED FORMATION: WSMVD

SURFACE OWNER: 2 - Indian

COALBED METHANE: NO

RECEIVED AND/OR REVIEWED:

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

LOCATION AND SITING:

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

Comments: Presite Completed

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



JON M. HUNTSMAN, JR.
Governor

GARY R. HERBERT
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

Well Name: NBU 920-12K
API Well Number: 43047501240000
Lease Number: UTU-0144868B
Surface Owner: INDIAN
Approval Date: 9/25/2008

Issued to:

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

Authority:

Pursuant to Utah Code Ann. §40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of CAUSE: 173-14.

Duration:

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

General:

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

Conditions of Approval:

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

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

Notification Requirements:

Notify the Division with 24 hours of spudding the well.

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

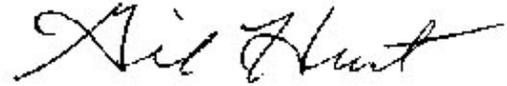
Notify the Division prior to commencing operations to plug and abandon the well.

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

Reporting Requirements:

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

Approved By:

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

Gil Hunt
Associate Director, Oil & Gas

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-0144868B
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute 7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: NBU 920-12K
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047501240000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6007 Ext
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1913 FSL 2179 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NESW Section: 12 Township: 09.0S Range: 20.0E Meridian: S	9. FIELD and POOL or WILDCAT: NATURAL BUTTES COUNTY: UINTAH STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 9/22/2009 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input checked="" type="checkbox"/> APD EXTENSION OTHER:

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

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

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

Date: September 22, 2009

By: 

NAME (PLEASE PRINT) Danielle Piernot	PHONE NUMBER 720 929-6156	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 9/17/2009	



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 43047501240000

API: 43047501240000

Well Name: NBU 920-12K

Location: 1913 FSL 2179 FWL QTR NESW SEC 12 TWNP 090S RNG 200E MER S

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

Date Original Permit Issued: 9/29/2008

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

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

Approved by the Utah Division of Oil, Gas and Mining

Signature: Danielle Piernot

Date: 9/17/2009

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

Date: September 22, 2009

By:

[Handwritten signature]

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

VERNAL FIELD OFFICE

APPLICATION FOR PERMIT TO DRILL OR REENTER

5a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		7. If Unit or CA Agreement, Name and No. 891008900A	
1b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone		8. Lease Name and Well No. NBU 920-12K	
2. Name of Operator Kerr-McGee Oil & Gas Onshore, LP		9. API Well No. 43 047 50124	
3a. Address P.O. Box 173779, Denver, CO 80217-3779	3b. Phone No. (include area code) 720.929.6226	10. Field and Pool, or Exploratory Natural Buttes Field	
4. Location of Well (Report location clearly and in accordance with any State requirements.) At surface NESW 1913' FSL & 2179' FWL LAT 40.04804 LON -109.61625 (NAD 27) At proposed prod. zone N/A		11. Sec., T. R. M. or Blk. and Survey or Area Sec. 12, T 9S, R 20E	
14. Distance in miles and direction from nearest town or post office* 7.4 miles southeast of Ouray, Utah		12. County or Parish Uintah	13. State UT
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 1913'	16. No. of acres in lease 600	17. Spacing Unit dedicated to this well Unit Well	
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 1,000'	19. Proposed Depth 10,700'	20. BLM/BIA Bond No. on file WYB000291	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 4694.4' GL	22. Approximate date work will start*	23. Estimated duration 10 days	

24. Attachments

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

- 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) James H. Sparger	Date APR 23 2010
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)

*(Instructions on page 2)

NOS apd posted 9/17/08
AFMSS# 09/M0038A

RECEIVED

JUN 10 2010

DIV. OF OIL, GAS & MINING

NOTICE OF APPROVAL

UDOGM

CONDITIONS OF APPROVAL ATTACHED



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

170 South 500 East

VERNAL, UT 84078

(435) 781-4400



CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company:	Kerr McGee Oil & Gas Onshore LP	Location:	NESW, Sec. 12, T9S R20E
Well No:	NBU 920-12K	Lease No:	UTU-0144868B
API No:	43-047-50162	Agreement:	Natural Buttes

50124

OFFICE NUMBER: (435) 781-4400

OFFICE FAX NUMBER: (435) 781-3420

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

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

NOTIFICATION REQUIREMENTS

Construction Activity (Notify Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist)	- The Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist shall be notified at least 48 hours in advance of any construction activity. The Ute Tribal office is open Monday through Thursday.
Construction Completion (Notify Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist)	- Upon completion of the pertinent APD/ROW construction, notify the Ute Tribe Energy & Minerals Dept. for a Tribal Technician to verify the Affidavit of Completion. Notify the BLM Environmental Scientist prior to moving on the drilling rig.
Spud Notice (Notify BLM Petroleum Engineer)	- Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify BLM Supv. Petroleum Tech.)	- Twenty-Four (24) hours prior to running casing and cementing all casing strings to: ut_vn_opreport@blm.gov .
BOP & Related Equipment Tests (Notify BLM Supv. Petroleum Tech.)	- Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify BLM Petroleum Engineer)	- Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

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

Site-Specific Conditions of Approval:

- Paint New facilities "shadow gray."
- Use pit run/gravel for well pad/access road support.
- Monitor location by a permitted archaeologist during construction.
- Construct a low-water crossing on the access road at drainage.
- If the gathering line would be installed aboveground, follow the procedures specified in the BLM's Hydraulic Consideration for Pipeline Crossing of Stream Channels (BLM, 2003).
- 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 operations are scheduled to occur after June 8, 2010, KMG will conduct additional biological surveys in accordance with the guidelines specified in the USFWS Rare Plant Conservation Measures for Uinta Basin hookless cactus (See Appendix D) and conduct its operation according to its specifications.

BIA Standard Conditions of Approval:

- Soil erosion will be mitigated by reseeded all disturbed areas.
- The gathering pipelines will be constructed to lie on the surface. The surface pipelines will not be bladed or cleared of vegetation. Where pipelines are constructed parallel to roads they may be welded on the road and then lifted from the road onto the right-of-way. Where pipelines do not parallel roads but cross-country between sites, they shall be welded in place at well sites or on access roads and then pulled between stations with a suitable piece of equipment. Traffic will be restricted along these areas so that the pipeline right-of-way will not be used as an access road.
- An open drilling system shall be used, unless otherwise specified in 10.0 Additional Stipulations of this document and in the Application for Permit to Drill. A closed drilling system shall be used in all flood plain areas, and other highly sensitive areas, recommended by the Ute Tribe Technician, BIA, and other agencies involved.
- The reserve pit shall be lined with a synthetic leak proof liner. After the drilling operation is complete, excess fluids shall be removed from the reserve pit and either hauled to an approved disposal site or shall be used to drill other wells. When the fluids are removed the pit shall be backfilled a minimum of 3.0' below the soil surface elevation.

- A closed production system shall be used. This means all produced water and oil field fluid wastes shall be contained in leak proof tanks. These fluids shall be disposed of in either approved injection wells or disposal pits.
- Major low water crossings will be armored with pit run material to protect them from erosion.
- All personnel should refrain from collecting any paleontological fossils and from disturbing any fossil resources in the area.
- If fossils are exposed or identified during construction, all construction must cease and immediate notification to the Energy and Minerals Department and the Cultural Rights Protection Officer.
- Before the site is abandoned the company will be required to restore the right-of-way to near its original state. The disturbed area will be reseeded with desirable perennial vegetation. If necessary, the Bureau of Indian Affairs or Bureau of Land Management will provide a suitable seed mixture.
- Noxious weeds will be controlled on all surface disturbances within the project area. If noxious weeds spread from the project area onto adjoining land, the company will also be responsible for their control.
- If project construction operations are scheduled to occur after December 31, 2009, KMG should conduct annual raptor surveys in accordance with the guidelines specified in the Utah Field Office Guidelines for Raptor Protection from Human and Land Use Disturbances, 2002 (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.

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

SITE SPECIFIC DOWNHOLE COAs:

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

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

DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

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

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

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

OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- 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 ($\frac{1}{4}$ $\frac{1}{4}$, Sec., Twn, Rng, and P.M.).
 - Date well was placed in a producing status (date of first production for which royalty will be paid).
 - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
 - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
 - Unit agreement and/or participating area name and number, if applicable.
 - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or

data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

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

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-0144868B	

SUNDRY NOTICES AND REPORTS ON WELLS	
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	
1. TYPE OF WELL Gas Well	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	8. WELL NAME and NUMBER: NBU 920-12K
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1913 FSL 2179 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NESW Section: 12 Township: 09.0S Range: 20.0E Meridian: S	9. API NUMBER: 43047501240000
PHONE NUMBER: 720 929-6007 Ext	9. FIELD and POOL or WILDCAT: NATURAL BUTTES
COUNTY: UINTAH	
STATE: UTAH	

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 9/30/2010	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input checked="" type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:			
<input type="checkbox"/> SPUD REPORT Date of Spud:			
<input type="checkbox"/> DRILLING REPORT Report Date:			

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

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

Approved by the Utah Division of Oil, Gas and Mining

Date: October 06, 2010

By:

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



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43047501240000

API: 43047501240000

Well Name: NBU 920-12K

Location: 1913 FSL 2179 FWL QTR NESW SEC 12 TWNP 090S RNG 200E MER S

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

Date Original Permit Issued: 9/29/2008

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

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

Approved by the Utah Division of Oil, Gas and Mining

Signature: Danielle Piernot

Date: 9/29/2010

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

Date: October 06, 2010

By:

[Handwritten signature]

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-0144868B
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SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute 7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
--	---

1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: NBU 920-12K
------------------------------------	--

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047501240000
---	---

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6007 Ext	9. FIELD and POOL or WILDCAT: NATURAL BUTTES
---	--	--

4. LOCATION OF WELL FOOTAGES AT SURFACE: 1913 FSL 2179 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NESW Section: 12 Township: 09.0S Range: 20.0E Meridian: S	COUNTY: Uintah STATE: Utah
---	---

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 11/1/2010 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input checked="" type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 50px;" type="text"/>

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 surface hole size FROM: 12-1/4" TO: 11". 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: November 10, 2010

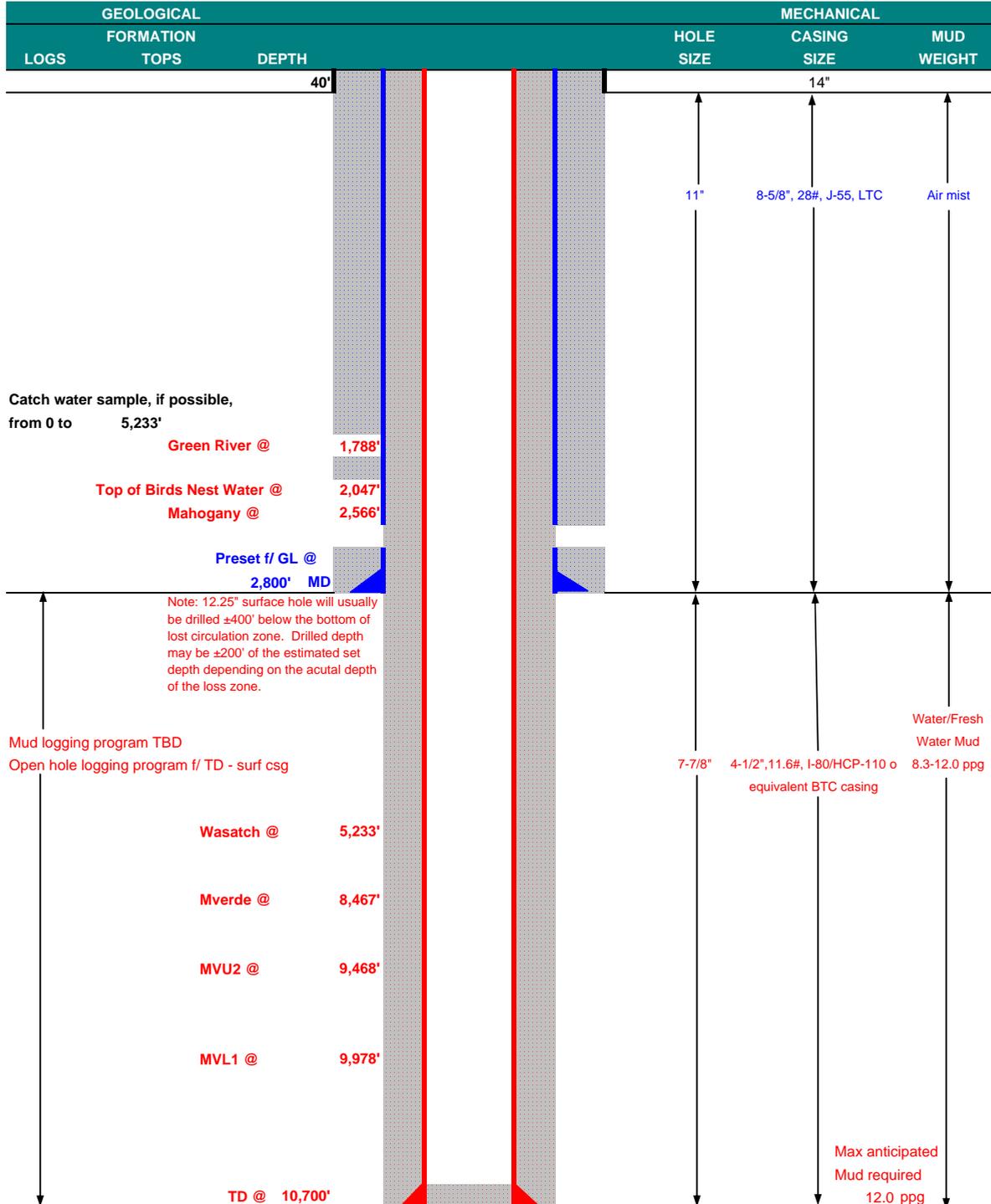
By: *Danielle Piernot*

NAME (PLEASE PRINT) Danielle Piernot	PHONE NUMBER 720 929-6156	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 10/25/2010	



KERR-McGEE OIL & GAS ONSHORE LP DRILLING PROGRAM

COMPANY NAME KERR-McGEE OIL & GAS ONSHORE LP DATE September 11, 2008
 WELL NAME NBU 920-12K TD 10,700' MD/TVD
 FIELD Natural Buttes COUNTY Uintah STATE Utah ELEVATION 4,694' GL KB 4,709'
 SURFACE LOCATION NESW 1913' FSL & 2179' FWL BHL Straight Hole
 Latitude: 40.048040 Longitude: -109.616250 NAD 27
 OBJECTIVE ZONE(S) Wasatch/Mesaverde
 ADDITIONAL INFO Regulatory Agencies: BLM (MINERALS), BIA (SURFACE), UDOGM, Tri-County Health Dept.





KERR-McGEE OIL & GAS ONSHORE LP DRILLING PROGRAM

CASING PROGRAM

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS		
						BURST	COLLAPSE	TENSION
CONDUCTOR	14"	0-40'						
SURFACE	9-5/8"	0 to 2,800'	36.00	J-55	LTC	3520	2020	453000
						0.81	1.54	5.13
PRODUCTION	4-1/2"	0 to 9600	11.60	I-80	BTC	7780	6350	201000
						1.80	0.95	1.86
PRODUCTION	4-1/2"	9600 to 10700	11.60	HCP-110	BTC	10690	8650	367000
						2.47	1.30	3.39

- 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 = 12.0 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 4280 psi

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE Option 1	LEAD	500	Premium cmt + 2% CaCl + .25 pps flocele	215	60%	15.60	1.18
	TOP OUT CMT (1)	250	20 gals sodium silicate + Premium cmt + 2% CaCl + .25 pps flocele	100		15.60	1.18
	TOP OUT CMT (2)	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
NOTE: If well will circulate water to surface, option 2 will be utilized							
SURFACE Option 2	LEAD	2000	Prem cmt + 16% Gel + 10 pps gilsonite +.25 pps Flocele + 3% salt BWOC	230	35%	11.00	3.82
	TAIL	500	Premium cmt + 2% CaCl + .25 pps flocele	180	35%	15.60	1.18
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
PRODUCTION	LEAD	4,730'	Premium Lite II + 3% KCl + 0.25 pps celloflake + 5 pps gilsonite + 10% gel + 0.5% extender	520	60%	12.50	3.38
	TAIL	5,970'	50/50 Poz/G + 10% salt + 2% gel +.1% R-3	1670	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 Totco surveys every 2000'. Maximum allowable hole angle is 5 degrees.
 Most rigs have PVT Systems for mud monitoring. If no PVT is available, visual monitoring will be utilized.

DRILLING ENGINEER: _____ DATE: _____
 Emile Goodwin

DRILLING SUPERINTENDENT: _____ DATE: _____
 NBU-920-12K Drilling Program REVISED 10/20/10

RECEIVED October 25, 2010

Level Young

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 920-12K
Qtr/Qtr NESW Section 12 Township 9S Range 20E
Lease Serial Number UTU-0144868B
API Number 4304750124

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

Date/Time 11/24/2010 11:00 HRS AM PM

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

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

RECEIVED
NOV 22 2010
DIV. OF OIL, GAS & MINING

Date/Time 12/15/2010 00:00 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

435.781.7048 OR LOVEL YOUNG AT 435.828.0986

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-0144868B
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SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute 7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
--	---

1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: NBU 920-12K
------------------------------------	--

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047501240000
---	---

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6007 Ext	9. FIELD and POOL or WILDCAT: NATURAL BUTTES
---	--	--

4. LOCATION OF WELL FOOTAGES AT SURFACE: 1913 FSL 2179 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NESW Section: 12 Township: 09.0S Range: 20.0E Meridian: S	COUNTY: UINTAH STATE: UTAH
---	---

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start: <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input checked="" type="checkbox"/> SPUD REPORT Date of Spud: 11/24/2010 <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input 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.

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 NOVEMBER 24, 2010 AT 10:30 HRS.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
 11/29/2010

NAME (PLEASE PRINT) Gina Becker	PHONE NUMBER 720 929-6086	TITLE Regulatory Analyst II
SIGNATURE N/A		DATE 11/29/2010

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
Address: P.O. Box 173779
city DENVER
state CO zip 80217

Operator Account Number: N 2995

Phone Number: (720) 929-6100

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304750144	NBU 920-13I		NESE	13	9S	20E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
<u>B</u>	99999	<u>2900</u>	11/24/2010			<u>12/14/10</u>	
Comments: MIRU PETE MARTIN BUCKET RIG. <u>WSTMVD = WSMVD</u> SPUD WELL LOCATION ON 11/24/2010 AT 9:30 HRS.							

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304750125	NBU 920-12J		NWSE	12	9S	20E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
<u>B</u>	99999	<u>2900</u>	11/25/2010			<u>12/14/10</u>	
Comments: MIRU PETE MARTIN BUCKET RIG. <u>WSTMVD</u> SPUD WELL LOCATION ON 11/25/2010 AT 11:00 HRS.							

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304750124	NBU 920-12K		NESW	12	9S	20E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
<u>B</u>	99999	<u>2900</u>	11/24/2010			<u>12/14/10</u>	
Comments: MIRU PETE MARTIN BUCKET RIG. <u>WSTMVD</u> SPUD WELL LOCATION ON 11/24/2010 AT 10:30 HRS.							

ACTION CODES:

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

RECEIVED
NOV 29 2010

ANDY LYTLE

Name (Please Print)

Signature 

REGULATORY ANALYST

Title

11/29/2010

Date

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-0144868B
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute 7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: NBU 920-12K
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047501240000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6007 Ext
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1913 FSL 2179 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NESW Section: 12 Township: 09.0S Range: 20.0E Meridian: S	9. FIELD and POOL or WILDCAT: NATURAL BUTTES COUNTY: UINTAH STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 1/10/2011 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input checked="" type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 50px;" type="text"/>

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 hole size FROM: 11" TO: 12 1/4". 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**

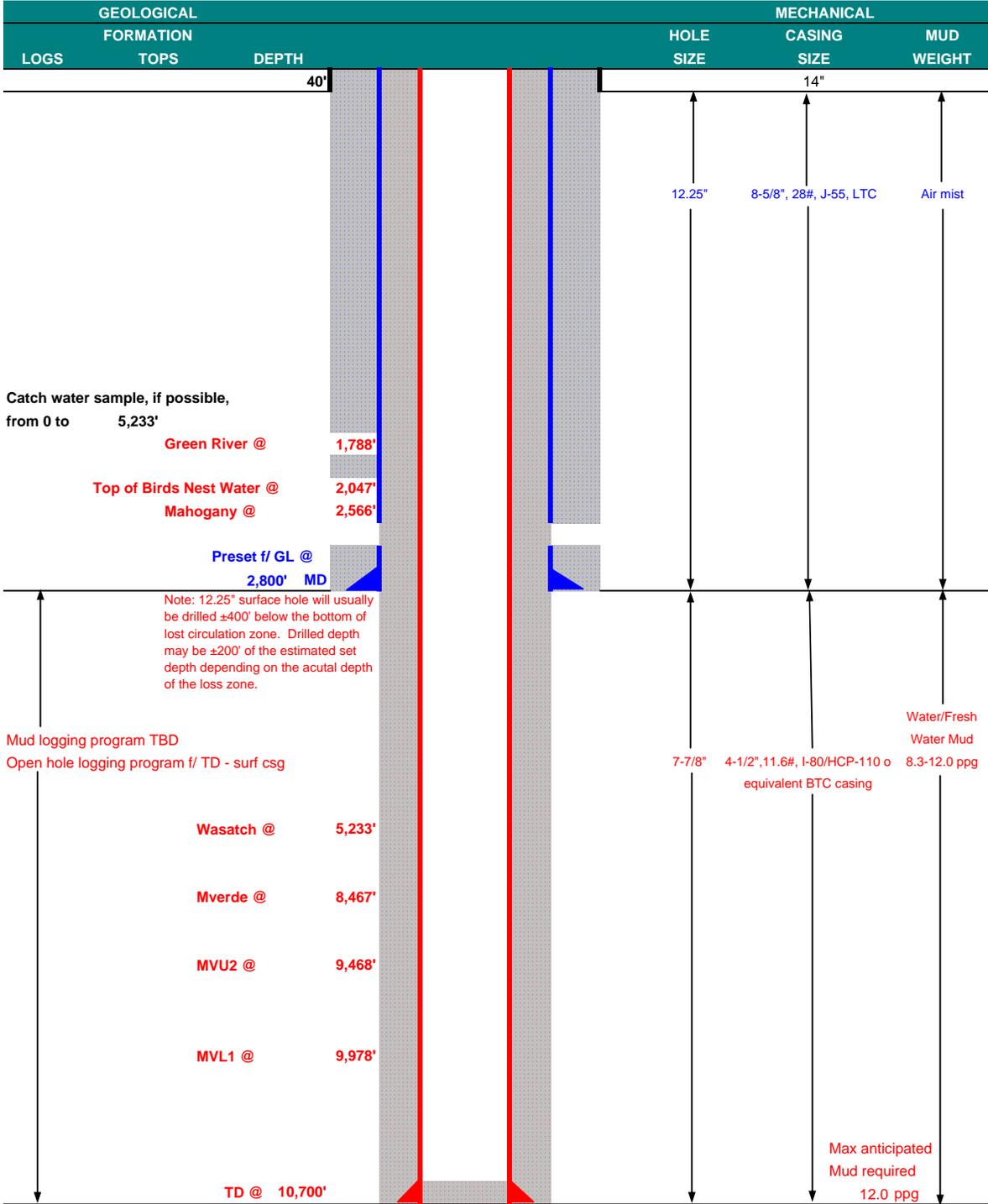
Date: 01/20/2011
By: *Danielle Piernot*

NAME (PLEASE PRINT) Danielle Piernot	PHONE NUMBER 720 929-6156	TITLE Regulatory Analyst
SIGNATURE N/A		DATE 1/10/2011



KERR-McGEE OIL & GAS ONSHORE LP DRILLING PROGRAM

COMPANY NAME	KERR-McGEE OIL & GAS ONSHORE LP	DATE	September 11, 2008
WELL NAME	NBU 920-12K	TD	10,700' MD/TVD
FIELD	Natural Buttes	COUNTY	Uintah
		STATE	Utah
		ELEVATION	4,694' GL KB 4,709'
SURFACE LOCATION	NESW 1913' FSL & 2179' FWL		BHL Straight Hole
	Latitude: 40.048040	Longitude: -109.616250	NAD 27
OBJECTIVE ZONE(S)	Wasatch/Mesaverde		
ADDITIONAL INFO	Regulatory Agencies: BLM (MINERALS), BIA (SURFACE), UDOGM, Tri-County Health Dept.		





KERR-McGEE OIL & GAS ONSHORE LP
DRILLING PROGRAM

CASING PROGRAM

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS		
						BURST	COLLAPSE	TENSION
CONDUCTOR	14"	0-40'				3930	1880	437000
SURFACE	8-5/8"	0 to 2,800'	28.00	J-55	LTC	0.91	1.43	6.37
						7780	6350	201000
PRODUCTION	4-1/2"	0 to 9600	11.60	I-80	BTC	1.80	0.95	1.86
						10690	8650	367000
PRODUCTION	4-1/2"	9600 to 10700	11.60	HCP-110	BTC	2.47	1.30	3.39

- 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 = 12.0 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 4280 psi

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE Option 1	LEAD	500	Premium cmt + 2% CaCl + .25 pps flocele	280	60%	15.60	1.18
	TOP OUT CMT (1)	250	20 gals sodium silicate + Premium cmt + 2% CaCl + .25 pps flocele	100		15.60	1.18
	TOP OUT CMT (2)	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
NOTE: If well will circulate water to surface, option 2 will be utilized							
SURFACE Option 2	LEAD	2000	Prem cmt + 16% Gel + 10 pps gilsonite +.25 pps Flocele + 3% salt BWOC	300	35%	11.00	3.82
	TAIL	500	Premium cmt + 2% CaCl + .25 pps flocele	240	35%	15.60	1.18
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
PRODUCTION	LEAD	4,730'	Premium Lite II + 3% KCl + 0.25 pps celloflake + 5 pps gilsonite + 10% gel + 0.5% extender	520	60%	12.50	3.38
	TAIL	5,970'	50/50 Poz/G + 10% salt + 2% gel +.1% R-3	1670	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 spring centralizers.

ADDITIONAL INFORMATION

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.
 BOPE: 11" 5M with one annular and 2 rams. Test to 5,000 psi (annular to 2,500 psi) prior to drilling out. Record on chart recorder & tour sheet. Function test rams on each trip. Maintain safety valve & inside BOP on rig floor at all times. Kelly to be equipped with upper & lower kelly valves.
 Drop Totco surveys every 2000'. Maximum allowable hole angle is 5 degrees.
 Most rigs have PVT Systems for mud monitoring. If no PVT is available, visual monitoring will be utilized.

DRILLING ENGINEER: _____ DATE: _____
 Emile Goodwin

DRILLING SUPERINTENDENT: _____ DATE: _____
 NBU-920-12K-Drilling-Diagram-REVISED-010511.xls

RECEIVED January 10, 2011

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-0144868B
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute 7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: NBU 920-12K
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047501240000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6007 Ext
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1913 FSL 2179 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NESW Section: 12 Township: 09.0S Range: 20.0E Meridian: S	9. FIELD and POOL or WILDCAT: NATURAL BUTTES COUNTY: UINTAH STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 1/19/2011 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input checked="" type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>

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

Karr-McGee respectfully requests to revert back to the original APD and drill this well with 9 5/8" casing and not the 8 5/8" casing that was requested via sundry notice on 10/25/10. Thank you.

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

Date: 01/24/2011
By: *Danielle Piernot*

NAME (PLEASE PRINT) Danielle Piernot	PHONE NUMBER 720 929-6156	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 1/19/2011	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-0144868B
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute 7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: NBU 920-12K
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047501240000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6515 Ext
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1913 FSL 2179 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NESW Section: 12 Township: 09.0S Range: 20.0E Meridian: S	9. FIELD and POOL or WILDCAT: NATURAL BUTTES COUNTY: UINTAH STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 1/22/2011	<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 JANUARY 18, 2011. DRILLED 12 1/4" SURFACE HOLE TO 2865'. RAN 9 5/8" 36# IJ-55 SURFACE CSG. PUMP 50 BBLS FRESH WATER. PUMP 20 BBLS GEL WATER. LEAD CEMENT W/ 260 SX CLASS G PREM @ 11.0 PPG, 3.52 YD. TAILED CEMENT W/ 225 SX CLASS G PREM LITE @ 15.8 PPG, 1.15 YD. DROP PLUG ON THE FLY, DISPLACED W/ 196 BBLS WATER. LIFT 490 PSI @ 2 BBLS/MIN. 30 BBLS LEAD TO SURFACE. BUMP PLUG W/ 900 PSI. FLOAT HELD. PUMP 65 SX CLASS G PREM LITE @ 15.8 PPG, 1.15 YD. DOWN 1" DOWN BACK SIDE. CEMENT TO SURFACE. CEMENT FELL 10'. WILL TOP OUT W/ READY MIX. WORT.

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

NAME (PLEASE PRINT) Gina Becker	PHONE NUMBER 720 929-6086	TITLE Regulatory Analyst II
SIGNATURE N/A		DATE 1/25/2011

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-0144868B																														
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1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: NBU 920-12K																															
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3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6515 Ext	9. FIELD and POOL or WILDCAT: NATURAL BUTTES																														
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1913 FSL 2179 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NESW Section: 12 Township: 09.0S Range: 20.0E Meridian: S	COUNTY: UINTAH STATE: UTAH																															
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12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. MIRU ROTARY RIG. FINISHED DRILLING FROM 2865' TO 10,801' ON APRIL 8, 2011. RAN 4-1/2" 11.6# I-80 PRODUCTION CASING TO 9504'. RAN 4 1/2" 11.6# P110 CSG FROM 9504' TO 10,799'. CEMENTED PRODUCTION CASING. RELEASED H&P RIG 298 ON APRIL 10, 2011 @ 06:00 HRS. DETAILS OF CEMENT JOB WILL BE INCLUDED WITH THE WELL COMPLETION REPORT. WELL IS WAITING ON FINAL COMPLETION ACTIVITIES.																																
NAME (PLEASE PRINT) Gina Becker	PHONE NUMBER 720 929-6086	TITLE Regulatory Analyst II																														
SIGNATURE N/A	DATE 4/11/2011																															

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-0144868B
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	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER
		OTHER: <input style="width: 100px;" type="text"/>
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.		
THE SUBJECT WELL WAS PLACED ON PRODUCTION ON 05/02/2011 AT 3:30 PM. THE WELL CHRONOLOGICAL WELL HISTORY WILL BE SUBMITTED WITH THE WELL COMPLETION REPORT.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY		
NAME (PLEASE PRINT) Sheila Wopsock	PHONE NUMBER 435 781-7024	TITLE Regulatory Analyst
SIGNATURE N/A		DATE 5/10/2011

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.
UTU0144868B

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

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.
UTU63047A

2. Name of Operator
KERR MCGEE OIL & GAS ONSHORE
Contact: GINA T. BECKER
Mail: gina.becker@anadarko.com

8. Lease Name and Well No.
NBU 920-12K

3. Address
POBOX 173779
DENVER, CO 80217

3a. Phone No. (include area code)
Ph: 720-929-6086

9. API Well No.
43-047-50124

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

At surface NESW 1913FSL 2179FWL 40.048000 N Lat, 109.616940 W Lon

At top prod interval reported below NESW 1913FSL 2179FWL 40.048000 N Lat, 109.616940 W Lon

At total depth NESW 1913FSL 2179FWL 40.048000 N Lat, 109.616940 W Lon

10. Field and Pool, or Exploratory
NATURAL BUTTES

11. Sec., T., R., M., or Block and Survey
or Area Sec 12 T9S R20E Mer SLB

12. County or Parish
UINTAH

13. State
UT

14. Date Spudded
11/24/2010

15. Date T.D. Reached
04/08/2011

16. Date Completed
 D & A Ready to Prod.
05/02/2011

17. Elevations (DF, KB, RT, GL)*
4694 GL

18. Total Depth: MD 10801
TVD 10798

19. Plug Back T.D.: MD 10775
TVD 10772

20. Depth Bridge Plug Set: MD
TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
RCBL/GR-BHV-SD/DSN/ACTR

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	9.625 J-55	36.0		2861		550		0	
7.875	4.500 I-80	11.6		9504		1858		660	
7.875	4.500 P-110	11.6	9504	10799					

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	10159							

25. Producing Intervals

26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) WASATCH	6542	8422	6542 TO 8422	0.360	60	OPEN
B) MESAVERDE	8494	10577	8494 TO 10577	0.360	104	OPEN
C)						
D)						

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

Depth Interval	Amount and Type of Material
6542 TO 10577	PUMP 5,442 BBLs SLICK H2O & 112,303 LBS SAND

RECEIVED

JUN 07 2011

DIV. OF OIL, GAS & MINING

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
05/02/2011	05/05/2011	24	→	0.0	1768.0	307.0			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	1270	→	0	1768	307		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		→						

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

ELECTRONIC SUBMISSION #109427 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

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

28b. Production - Interval C

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

28c. Production - Interval D

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

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

30. Summary of Porous Zones (Include Aquifers):

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

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
GREEN RIVER	1817				
BIRD'S NEST	2031				
MAHOGANY	2455				
WASATCH	5248	8472			
MESAVERDE	8472	10801			

32. Additional remarks (include plugging procedure):

Attached is the chronological well history & 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 #109427 Verified by the BLM Well Information System.
For KERR MCGEE OIL & GAS ONSHORE,L, sent to the Vernal

Name (please print) GINA T. BECKER Title REGULATORY ANALYST

Signature _____ (Electronic Submission) Date 06/01/2011

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.

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

US ROCKIES REGION
Operation Summary Report

Well: NBU 920-12K Spud Conductor: 11/24/2010 Spud Date: 1/19/2011
 Project: UTAH-UINTAH Site: NBU 920-12K Rig Name No: CAPSTAR 311/311, H&P 298/298
 Event: DRILLING Start Date: 11/14/2010 End Date: 4/10/2011
 Active Datum: RKB @4,729.00ft (above Mean Sea Level) UWI: NE/SW/0/9/S/20/E/12/0/0/26/PM/S/1913/W/0/2179/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
1/18/2011	0:00 - 12:00	12.00	DRLSUR	01	B	P		MOVE RIG IN AND RIG UP
	12:00 - 0:00	12.00	DRLSUR	01	B	P		WELD ON CONDUCTOR AND RIG UP, BUIKD FLOW LINE AND WELD ON PITS TO BE ABLE TO CIRCULATE RESERVE PIT
1/19/2011	0:00 - 1:00	1.00	DRLSUR	14	A	P		WELD ON CONDUCTOR AND RIG UP FLOWLINE PREPARE TO SPUD
	1:00 - 4:00	3.00	DRLSUR	02	B	P		SPUD WELL @ 0100 DRILL F/40' -135' AVE FT HR 30 PICKING UP BHA WOB 4-12 ROT 45-55 DHR 54 342 GPM (ONE PUMP) NO LOSSES
	4:00 - 4:30	0.50	DRLSUR	10	A	P		SURVEY AT 92' .25 DEG
	4:30 - 14:30	10.00	DRLSUR	02	B	P		DRILL F/135' - 670' WOB 4-12 ROT 45-55 DHR 54 342 GPM (ONE PUMP) NO LOSSES
	14:30 - 15:00	0.50	DRLSUR	07	A	P		DAILY RIG SERVICE
	15:00 - 0:00	9.00	DRLSUR	02	C	P		DRILL F/ 670' - 1145' WOB 9-12 ROT 45-55 DHR 54 GPM 340 NO LOSSES POLY SWEEPS EVERY OTHER CONNECTION LAST SURVEY 1334' .25
	1/20/2011	0:00 - 22:00	22.00	DRLSUR	02	B	P	
22:00 - 23:30		1.50	DRLSUR	10	A	P		MISS RUN ON SURVEY TOOL RE RUN
23:30 - 0:00		0.50	DRLSUR	07	A	P		DAILY RIG SERVICE
1/21/2011	0:00 - 13:00	13.00	DRLSUR	02	B	P		DRILL F/ 2055' - 2523' WOB 14-18 ROT 45-55 DHR 54 GPM 340 NO LOSSES 36 FT HR
	13:00 - 13:30	0.50	DRLSUR	07	A	P		DAILY RIG SERVICE
	13:30 - 16:30	3.00	DRLSUR	02	B	P		DRILL F/ 2523' - 2617' WOB 14-18 ROT 45-55 DHR 54 GPM 340 NO LOSSES 31 FT HR
	16:30 - 17:30	1.00	DRLSUR	08	B	Z		INSTALL PUMP #2
	17:30 - 23:00	5.50	DRLSUR	02	B	P		DRILL F/ 2617' - 2865' T.D. WOB 14-18 ROT 45-55 DHR 108 GPM 680 NO LOSSES 45 FT HR
	23:00 - 0:00	1.00	DRLSUR	05	C	P		CIRCULATE AND CONDITION MUD DROP SURVEY
1/22/2011	0:00 - 4:00	4.00	DRLSUR	06	A	P		TOOH LAYING DOWN BREAK BIT AND SHOCK SUB
	4:00 - 16:00	12.00	DRLSUR	12	C	P		RIG UP AND RUN 67 JOINTS 9 5/8 CASING SHOE AT 2835' BAFFLE AT 2791' CASING RUN TOOK SO LONG BECAUSE RIG CREW AND TOOLPUSHER HAD NOT RUN 9 5/8 CASING AND WERE HAVING TROUBLE GETTING DERRICK LINED UP WITH BOOM
	16:00 - 18:00	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 260 SX OF 11#, 3.52 YD, 23 GAL/SK HI FILL LEAD, PUMP 225 SX OF 15.8# 1.15 YD, 5 GAL/SK TAIL PREM. CLASS G CEMENT. DROP PLUG ON FLY, DISPLACE W/ 196 BBLs OF WATER. 490 PSI OF LIFT @ 2 BBLs/MIN RATE. 30 BBLs OF LEAD TO SURFACE. BUMP PLUG W/ 900 PSI. FLOAT HELD. CUT CONDUCTOR RIG DOWN FLOW LINE AND HANG OFF 9 5/8 CASING
	18:00 - 18:30	0.50	DRLSUR	14	A	P		

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 920-12K Spud Conductor: 11/24/2010 Spud Date: 1/19/2011
 Project: UTAH-UINTAH Site: NBU 920-12K Rig Name No: CAPSTAR 311/311, H&P 298/298
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 Active Datum: RKB @4,729.00ft (above Mean Sea Level) UWI: NE/SW/0/9/S/20/E/12/0/0/26/PM/S/1913/W/0/2179/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	18:30 - 19:30	1.00	DRLSUR	12	E	P		PUMP 65 SX OF 15.8# PREMIUM 3% CALC CEMENT DOWN 1" DOWN BACK SIDE. CEMENT TO SURFACE, CEMENT FELL 10' PETE MARTIN WILL TOP OUT WITH READY MIX TRUCK RELEASE RIG AT 19:30 CONDUCTOR CASING: Cond. Depth set: 40' Cement sx used: 28
	19:30 - 19:30	0.00	DRLSUR					SPUD DATE/TIME: 1/19/2011 1:00 SURFACE HOLE: Surface From depth: 40 Surface To depth: 2,865 Total SURFACE hours: 65.50 Surface Casing size: 9 5/8 # of casing joints ran: 67 Casing set MD: 2,835.0 # sx of cement: 260/225/65 Cement blend (ppg): 11/15.8/15.8 Cement yield (ft3/sk): 1.15/3.52/1.15 # of bbls to surface: 30 Describe cement issues: NONE
3/31/2011	6:00 - 18:00	12.00	MIRU	01	A	P		RD/RT/ MIRU / RW JONES 7 TRUCKS & 2 FORK LIFTS ARRIVED ON LOCATION @ 08:30 AM/ J&C 1 CRANE ARRIVED ON LOCATION @ 11:00 AM (BACKYARD SET IN & SUB SET DRK STILL ON OLD LOCATION)
	18:00 - 0:00	6.00	MIRU	21	C	P		W.O.DAYLIGHT
4/1/2011	0:00 - 6:00	6.00	MIRU	21	C	P		W.O.DAYLIGHT
	6:00 - 14:30	8.50	MIRU	01	B	P		RU / RT / 4 TRUCKS LEFT LOCATION @ 10:30 AM / CRANE LEFT @ 12:00 (DRK UP @ 10:30)
	14:30 - 19:30	5.00	MIRU	14	A	P		NU BOP'S & EQUIPMENT
	19:30 - 0:00	4.50	MIRU	15	A	P		TEST BOP'S AS PER PROGRAM 250 LOW / 5000 HI 250 / 2500 ON ANNULAR
4/2/2011	0:00 - 0:30	0.50	PRPSPD	15	A	P		TEST BOP'S AS PER PROGRAM 250 LOW / 5000 HI ANNULAR 250 LOW / 2500 HI CSG 1500 PSI
	0:30 - 1:00	0.50	PRPSPD	14	B	P		INSTALL WEAR BUSHING
	1:00 - 1:30	0.50	PRPSPD	15	A	P		TEST HIGH PRESSURE MUD LINES
	1:30 - 6:00	4.50	PRPSPD	06	A	P		PJSM P/U DIRECTIONAL BHA & TUBULARS / TIH TO 2,749 TAG CEMENT
	6:00 - 6:30	0.50	PRPSPD	23		P		VERIFY RIG CENTER OF HOLE / INSTALL ROT HEAD & PRE SPUD INSPECTION / BOP DRILL
	6:30 - 8:00	1.50	DRLPRO	02	F	P		DRILL CEMENT & SHOE TRACK F/ 2,749' TO 2,852' / CLEAN RAT HOLE TO 2,885'
	8:00 - 15:00	7.00	DRLPRO	02	B	P		DRILL / SURVEY F/ 2,885' TO 3,661' = 776' @ 110.85 FPH / WOB 16K-20K / TOP DRIVE RPM 35-60 / PUMP 120 SPM = 540 GPM / PUMP PRESSURE ON/OFF BOTTOM 1575/1325/ PSI / MUD MOTOR RPM 1147/ PU/SO/ROT WT100/90/95/ TORQUE ON/OFF BOTTOM 7K/7K PUMP WEIGHTED SWEEPS TO CONTROL GAS / CONNECTION GAS W/ 5' FLARE / MUD WT 8.6 PPG VIS 27
	15:00 - 15:30	0.50	DRLPRO	07	A	P		SERVICE RIG @ 3,661'

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 920-12K Spud Conductor: 11/24/2010 Spud Date: 1/19/2011
 Project: UTAH-UINTAH Site: NBU 920-12K Rig Name No: CAPSTAR 311/311, H&P 298/298
 Event: DRILLING Start Date: 11/14/2010 End Date: 4/10/2011
 Active Datum: RKB @4,729.00ft (above Mean Sea Level) UWI: NE/SW/0/9/S/20/E/12/0/0/26/PM/S/1913/W/0/2179/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	15:30 - 0:00	8.50	DRLPRO	02	B	P		DRILL F/ 3,661' TO 4,832' = 721' @ 85 FPH / WOB 16K-20K / TOP DRIVE RPM 35-60 / PUMP 120 SPM = 540 GPM / PUMP PRESSURE ON/OFF BOTTOM 1575/1325/ PSI / MUD MOTOR RPM 1147/ PU/SO/ROT WT134/125/130/ TORQUE ON/OFF BOTTOM 7K/7K PUMP WEIGHTED SWEEPS TO CONTROL GAS / CONNECTION GAS W/ 5' FLARE // SLIDE 52' @ 4% OF FOOTAGE & 40 MIN @ 8% OF TIME / MUD WT 8.5 PPG VIS 27
4/3/2011	0:00 - 15:30	15.50	DRLPRO	02	B	P		DRILL F/ 4,832' TO 6,688' =1,101' @ 71 FPH / WOB 18K-20K / TOP DRIVE RPM 45-60 / PUMP 120 SPM = 540 GPM / PUMP PRESSURE ON/OFF BOTTOM 2000/1650 / PSI / MUD MOTOR RPM 114/ PU/SO/ROT WT140/132/134/ TORQUE ON/OFF BOTTOM 8K / 7K PUMP WEIGHTED SWEEPS TO CONTROL GAS / SLIDE 124' @ 6% OF FOOTAGE & 120 MIN @ 12% OF TIME / 5'-10' FLARE ON CONNECTION GAS MUD WT 8.6 PPG VIS 27
	15:30 - 16:00	0.50	DRLPRO	07	A	P		SERVICE RIG @ 6,688'
	16:00 - 0:00	8.00	DRLPRO	02	B	P		DRILL F/ 6,688' TO 7,325' =637' @ 79.62 FPH / WOB 18K-20K / TOP DRIVE RPM 45-60 / PUMP 120 SPM = 540 GPM / PUMP PRESSURE ON/OFF BOTTOM 2150 /1750 PSI / MUD MOTOR RPM 114/ PU/SO/ROT WT165/150/158/ TORQUE ON/OFF BOTTOM 8K / 6K PUMP WEIGHTED SWEEPS TO CONTROL GAS / SLIDE 40' @ 6% OF FOOTAGE & 75 MIN @ 15% OF TIME / 5'-10' FLARE ON CONNECTION GAS MUD WT 9.2 PPG VIS 30 (MUD UP @ 7,050') BOP DRILL
4/4/2011	0:00 - 6:00	6.00	DRLPRO	02	B	P		DRILL F/ 7,325' TO 7,653' =328' @ 54.66 FPH / WOB 18K-21K / TOP DRIVE RPM 45-60 / PUMP 110 SPM = 495 GPM / PUMP PRESSURE ON/OFF BOTTOM 2150 /1750 PSI / MUD MOTOR RPM 104/ PU/SO/ROT WT165/150/158/ TORQUE ON/OFF BOTTOM 8K / 6K MUD WT 9.7 PPG VIS 31
	6:00 - 14:30	8.50	DRLPRO	02	B	P		DRILL F/ 7,653' TO 8,019' =366' @ 43 FPH / WOB 18K-21K / TOP DRIVE RPM 45-60 / PUMP 110 SPM = 495 GPM / PUMP PRESSURE ON/OFF BOTTOM 1950 /1800 PSI / MUD MOTOR RPM 104/ PU/SO/ROT WT172/155/165/ TORQUE ON/OFF BOTTOM 8K / 6K MUD WT 10.1 PPG VIS 35
	14:30 - 15:00	0.50	DRLPRO	07	A	P		SERVICE RIG @ 8,019'
	15:00 - 0:00	9.00	DRLPRO	02	B	P		DRILL F/ 8,019' TO 8,340' =321' @ 36 FPH / WOB 18K-21K / TOP DRIVE RPM 45-60 / PUMP 110 SPM = 495 GPM / PUMP PRESSURE ON/OFF BOTTOM 2350 /2150 PSI / MUD MOTOR RPM 104/ PU/SO/ROT WT188/160/173/ TORQUE ON/OFF BOTTOM 8K / 6K MUD WT 10.5 PPG VIS 37
4/5/2011	0:00 - 14:00	14.00	DRLPRO	02	B	P		DRILL F/ 8,340' TO 8,870' =530' @ 37.85 FPH / WOB 18K-22K / TOP DRIVE RPM 45-50 / PUMP 110 SPM = 495 GPM / PUMP PRESSURE ON/OFF BOTTOM 2375 /2000 PSI / MUD MOTOR RPM 104/ PU/SO/ROT WT188/160/176/ TORQUE ON/OFF BOTTOM 6K / 6K MUD WT 11.0 PPG VIS 41
	14:00 - 14:30	0.50	DRLPRO	07	A	P		SERVICE RIG @ 8,870'

US ROCKIES REGION
Operation Summary Report

Well: NBU 920-12K Spud Conductor: 11/24/2010 Spud Date: 1/19/2011
 Project: UTAH-UJINTAH Site: NBU 920-12K Rig Name No: CAPSTAR 311/311, H&P 298/298
 Event: DRILLING Start Date: 11/14/2010 End Date: 4/10/2011
 Active Datum: RKB @4,729.00ft (above Mean Sea Level) UWI: NE/SW/0/9/S/20/E/12/0/0/26/PM/S/1913/W/0/2179/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	14:30 - 0:00	9.50	DRLPRO	02	B	P		DRILL F/ 8,870' TO 9,275' =405' @ 42.63 FPH / WOB 18K-22K / TOP DRIVE RPM 45-50 / PUMP 110 SPM = 495 GPM / PUMP PRESSURE ON/OFF BOTTOM 2650 /2400 PSI / MUD MOTOR RPM 104/ PU/SO/ROT WT196/168/180/ TORQUE ON/OFF BOTTOM 7K / 6K MUD WT 11.5 PPG VIS 42 (30' FLARE ON BTMS UP AFTER RIG SERVICE) 50 BBL MUD LOSE / 10 % LCM
4/6/2011	0:00 - 11:00	11.00	DRLPRO	02	B	P		DRILL F/ 9,275' TO 9,777' = 502' @ 45.63 FPH / WOB 18K-22K / TOP DRIVE RPM 45-50 / PUMP 110 SPM = 495 GPM / PUMP PRESSURE ON/OFF BOTTOM 2850 /2525 PSI / MUD MOTOR RPM 104/ PU/SO/ROT WT 198/174/187/ TORQUE ON/OFF BOTTOM 9K / 5K MUD WT 11.8 PPG VIS 42
	11:00 - 12:30	1.50	DRLPRO	05	C	P		CIRC & CLEAN HOLE @ 9,777'
	12:30 - 19:00	6.50	DRLPRO	06	A	P		TOOH F/ 9,777' TO BIT (WORK TIGHT HOLE @ 5,125') SAFETY STAND DOWN WITH CREW
	19:00 - 20:00	1.00	DRLPRO	06	A	P		CHANGE OUT BIT & MUD MTR, SCRIBE ,ORIENTATE, TEST SAME WITH WEATHERFORD, FUNCTION TEST BOP'S
	20:00 - 0:00	4.00	DRLPRO	06	A	P		TIH W/ BIT & BHA # 2 TO 7,100' WORK & REAM TIGHT HOLE @ 6,889' / BOP DRILL
4/7/2011	0:00 - 1:30	1.50	DRLPRO	06	A	P		TIH F/ 7,100' TO 9,600' WASH & REAM TO BTM @ 9,777' (NO FILL)
	1:30 - 15:00	13.50	DRLPRO	02	B	P		DRILL F/ 9,777' TO 10,387' = 610' @ 45.18 FPH / WOB 18K-22K / TOP DRIVE RPM 45-50 / PUMP 110 SPM = 495 GPM / PUMP PRESSURE ON/OFF BOTTOM 2875 /2700 PSI / MUD MOTOR RPM 104/ PU/SO/ROT WT 208/182/195/ TORQUE ON/OFF BOTTOM 8K / 6K MUD WT 12.2 PPG VIS 44 (10' FLARE W/ 4/10 MUD CUT ON BTM'S UP AFTER TRIP)
	15:00 - 15:30	0.50	DRLPRO	07	A	P		SERVICE RIG @ 10,387'
	15:30 - 0:00	8.50	DRLPRO	02	B	P		DRILL F/ 10,387' TO 10,651' = 264' @ 31.05 FPH / WOB 20K-23K / TOP DRIVE RPM 45-50 / PUMP 110 SPM = 495 GPM / PUMP PRESSURE ON/OFF BOTTOM 2900 /2725 PSI / MUD MOTOR RPM 104/ PU/SO/ROT WT 208/188/198/ TORQUE ON/OFF BOTTOM 8K / 6K MUD WT 12.4 PPG VIS 47 (15' FLARE ON BTM'S UP AFTER RIG SERVICE)
4/8/2011	0:00 - 6:30	6.50	DRLPRO	02	B	P		DRILL F/ 10,651' TO 10,801' TD = 150' @ 23.07 FPH / WOB 20K-23K / TOP DRIVE RPM 45-50 / PUMP 110 SPM = 495 GPM / PUMP PRESSURE ON/OFF BOTTOM 2900 /2725 PSI / MUD MOTOR RPM 104/ PU/SO/ROT WT 218/198/202/ TORQUE ON/OFF BOTTOM 8K / 6K MUD WT 12.4 PPG VIS 48 / 12% LCM
	6:30 - 8:30	2.00	DRLPRO	05	C	P		CIRC HOLE CLEAN @ 10,801' 6/10 MUD CUT ON BTMS UP
	8:30 - 17:00	8.50	DRLPRO	06	E	P		WIPER TRIP F/ 10,801' TO SHOE @ 2,835' / TIH W/ NO PROBLEMS / NO FILL
	17:00 - 20:00	3.00	DRLPRO	05	C	P		CIRC & COND MUD @ 10,801' / PJSM RU LD EQUIPMENT / MUD WT 12.5 VIS 48 / NO FILL / 20' FLARE ON BTMS UP 8/10 MUD CUT
	20:00 - 0:00	4.00	DRLPRO	06	A	P		TOOH L/D TUBULARS W/ WEATHERFORD F/ 10,801' TO 6,000' W/ NO PROBLEMS
4/9/2011	0:00 - 5:30	5.50	DRLPRO	06	A	P		CONTINUE TO LD TUBULARS F/ 6,000' TO BIT
	5:30 - 6:00	0.50	DRLPRO	06	A	P		R/D LD EQUIPMENT

US ROCKIES REGION
Operation Summary Report

Well: NBU 920-12K Spud Conductor: 11/24/2010 Spud Date: 1/19/2011
 Project: UTAH-UINTAH Site: NBU 920-12K Rig Name No: CAPSTAR 311/311, H&P 298/298
 Event: DRILLING Start Date: 11/14/2010 End Date: 4/10/2011
 Active Datum: RKB @4,729.00ft (above Mean Sea Level) UWI: NE/SW/0/9/S/20/E/12/0/0/26/PM/S/1913/W/0/2179/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	6:00 - 12:30	6.50	DRLPRO	11	D	P		RU & RUN TRIPPLE COMBO W/ HALLIBURTON TO BTM W/ NO PROBLEMS 10,803' W.L DEPTH DRILLERS DEPTH 10,801' / RD EQUIPMENT
	12:30 - 13:30	1.00	DRLPRO	12	A	P		PJSM RU WEATHERFORD TRS CSG EQUIPMENT
	13:30 - 22:30	9.00	COMP	12	C	P		RUN 4 1/2" 11.60# BTC CSG 258 JTS CSG SHOE @ 10,772' / FLOAT @ 10,746' (GL) WASATCH Marker @ 5,286' Mverde Marker @ 8,547' (31 JTS OF 11.60 P110 BTC CSG & 227 JTS OF 11.60 BTC CSG)
	22:30 - 23:30	1.00	COMP	05	A	P		CIRC BTM'S UP
	23:30 - 0:00	0.50	COMP	12	E	P		PJSM RU BJ EQUIPMENT
4/10/2011	0:00 - 3:00	3.00	COMP	12	E	P		TEST PUMPS & LINES TO 5000 PSI / PUMP 40 BBLs H2O + 692 SX LEAD CEMENT @ 12.5 ppg (PREM LITE II) 172 BBLs FRESH WATER / (10.44 gal/sx, 1.98 yield) + 1166 SX TAIL @ 14.3 ppg (CLS G 50/50 POZ 163.8.4 BBLs H2O / (5.90 gal/sx, 1.31 yield) / DROP PLUG & DISPLACE W/ 167.4 BBLs H2O + ADDITIVES / PLUG DOWN @ 02:10 LIFT PRESSURE @ 2890 PSI BUMP PRESSURE @3632 W/ 5 BBLcMT BACK TO PIT / FLOATS HELD W/ 2 BBLs H2O RETURNED TO INVENTORY / TOP OF TAIL CEMENT CALCULATED @ 4850' FULL RETURNS THROUGH OUT JOB, RD CMT EQUIP
	3:00 - 6:00	3.00	COMP	14	A	P		RAISE BOP'S / CUT OFF SET SLIPS W/ 100K / CUT OFF / ND BOP'S / CLEAN PITS / RELEASE RIG @ 06:00 4/10 / 11

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 920-12K Spud Conductor: 11/24/2010 Spud Date: 1/19/2011
 Project: UTAH-UINTAH Site: NBU 920-12K Rig Name No: CAPSTAR 311/311, H&P 298/298
 Event: DRILLING Start Date: 11/14/2010 End Date: 4/10/2011
 Active Datum: RKB @4,729.00ft (above Mean Sea Level) UWI: NE/SW/0/9/S/20/E/12/0/0/26/PM/S/1913/W/0/2179/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
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6:00 - 6:00 0.00 COMP

CONDUCTOR CASING:
 Cond. Depth set: 40'
 Cement sx used: 28

SPUD DATE/TIME: 1/19/2011 1:00

SURFACE HOLE:
 Surface From depth: 40
 Surface To depth: 2,865
 Total SURFACE hours: 65.50
 Surface Casing size: 9 5/8
 # of casing joints ran: 67
 Casing set MD: 2,835.0
 # sx of cement: 260/225/65
 Cement blend (ppg): 11/15.8/15.8
 Cement yield (ft3/sk): 1.15/3.52/1.15
 # of bbls to surface: 30
 Describe cement issues: NONE
 Describe hole issues:

PRODUCTION:
 Rig Move/Skid start date/time: 3/31/2011 6:00
 Rig Move/Skid finish date/time: 4/1/2011 10:30
 Total MOVE hours: 28.5
 Prod Rig Spud date/time: 4/2/2011 8:00
 Rig Release date/time: 4/10/2011 6:00
 Total SPUD to RR hours: 190.0
 Planned depth MD 10,798
 Planned depth TVD 10,798
 Actual MD: 10,801
 Actual TVD: 10,798
 Open Wells \$: \$989,766
 AFE \$: \$924,337
 Open wells \$/ft: \$91.64

PRODUCTION HOLE:
 Prod. From depth: 2,885
 Prod. To depth: 10,801
 Total PROD hours: 125.5
 Log Depth: 10,803
 Production Casing size: 4 1/2
 # of casing joints ran: 258
 Casing set MD: 10,798.0
 # sx of cement: 692-1166
 Cement blend (ppg): 12.5-14.3
 Cement yield (ft3/sk): 1.98-1.31
 Est. TOC (Lead & Tail) or 2 Stage : 0-4850
 Describe cement issues: 5 BBL CEMENT BACK TO PITS 2 BBL WATER BACK TO INVENTORY
 Describe hole issues: GOOD FULL RETURNS THROUGH OUT CMT JOB

DIRECTIONAL INFO: DIRECTIONAL
 KOP: 0
 Max angle: 1.50
 Departure: 0.00
 Max dogleg MD: .27/ 118

US ROCKIES REGION
Operation Summary Report

Well: NBU 920-12K		Spud Conductor: 11/24/2010	Spud Date: 1/19/2011
Project: UTAH-UINTAH	Site: NBU 920-12K		Rig Name No: SWABBCO 8/8
Event: COMPLETION	Start Date: 4/25/2011	End Date: 5/2/2011	
Active Datum: RKB @4,729.00ft (above Mean Sea Level)		UWI: NE/SW/0/9/S/20/E/12/0/0/26/PM/S/1913/W/0/2179/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
4/26/2011	7:00 - 7:30	0.50	COMP	48		P		HSM, RIGGING DOWN & MOVING
	7:30 - 9:30	2.00	COMP	30	A	P		RD OFF NBU 920-12I, MIRU, ND WH, NU BOPS, LOCKED OPEN SURFACE VALVE, RU FLOOR & TBG EQUIP,
	9:30 - 15:00	5.50	COMP	31	I	P		TALLY & PU 37/8 BIT & 204 JTS 23/8 L-80 OFF FLOAT.EOT @ 6443' SWI WIND BLOWING TO HARD TO TRIP.
4/27/2011	7:00 - 7:30	0.50	COMP	48		P		HSM, TRIPPING TBG IN WIND.
	7:30 - 9:00	1.50	COMP	31	I	P		SICP 0 PSI, POOH W/ 204 JTS 23/8 L-80 L/D BIT. RD FLOOR, ND BOPS NU FV. FILL 412 CSG & SURF W/ TREATED T-MAC.
	9:00 - 15:00	6.00	COMP	33	C	P		RU B&C, TEST 41/2 TO 1,000# FOR 15 MIN. LOST 16#, 3500# FOR 15 MIN LOST 38#, 7000# LOST 108# IN 13 MIN HAD FLANG LEAKING BLEAD OFF FIX, REPRESSURE TO 7000# LOST 124# IN 30 MIN, REPRESSURE TO 7000# LOST 54# IN 30 MIN GOOD TEST. RD B&C, PREP TO 1ST SHOOT IN AMSWI SDFN.
4/28/2011	7:00 - 7:30	0.50	COMP	48		P		WORKING W/ WIRELINE.
	7:30 - 15:00	7.50	COMP	37	B	P		RU CUTTERS RIH W/ 31/8 EXP GNS, .23 GRM, .36" HLS, 120 & 90 DEG PHASING & PERF. 10,576'-10,577' 4 SPF 4 HLS 10,564'- 10,566' 3 SPF 6 HLS 10,383'- 10,384' 4 SPF 4 HLS 10,369'-10,371' 4 SPF 8 HLS TOTAL 22 HLS, POOH SWI WAIT ON FRAC CREW.
4/29/2011	7:00 - 8:50	1.83	COMP	33	D	P		MIRU SUPERIOR, HELD SAFTEY MEETING, PRESSURE TEST TO 8,000# FOR 15 MIN LOST 470 # PSI. ISOLATE N2 POP OFF. TEST MEC POPOFF SET TO POP OFF @ 6900 PSI, OPEN BOTH POP OFFS. SET KICK OUT ON PUMPS, PMP#1 6827 PSI, PMP#2 6876 PSI, PMP#3 6838 PSI, PMP#4 6848 PSI, PMP#5 6900 PSI, PMP#6 6777 PSI
	8:50 - 9:21	0.52	COMP	36	E	P		(STG #1) WHP 1450 PSI, BRK 3378 PSI @ 4.7 BPM, ISIP 3034 PSI, FG .73. PUMP 100 BBLs @ 31.8 BPM @ 6350 PSI = 61% PERFS OPEN. MP 6696 PSI, MR 42.8 BPM, AP 6402 PSI, AR 34.1 BPM, ISIP 3465 PSI, FG .77. NPI 431 PSI, PMPD 730 BBLs SW & 5,236 LBS OF 30/50 SND & 5,000# 20/40 RESIN SAND. TOTAL PROP 10,236 LBS.
	9:21 - 11:05	1.73	COMP	36	E	P		(STG#2) PU 41/2" HAL CBP & 31/8 EXP GNS, 23 GRM, .36" HOLES. 90 DEG PHASING. SET CBP @ 10,310' PERF 10,277'-10,280 4 SPF 12 HLS, 10,190'-10,193' 4 SPF 12 HLS. 24 TOTAL HOLES WHP 615 PSI, BRK 4210 PSI @ 4.7 BPM, ISIP 3655 PSI, FG .80. PUMP 100 BBLs @ 35.2 BPM @ 6518 PSI = 60% PERFS OPEN. MP 6674 PSI, MR 43.5 BPM, AP 6434 PSI, AR 36.2 BPM, ISIP 3712 PSI, FG .80. NPI 57 PSI, PMPD 679 BBLs SW & 7,183 LBS OF 30/50 SND & 5,000# 20/40 RESIN SAND. TOTAL PROP 12,183 LBS.

US ROCKIES REGION
Operation Summary Report

Well: NBU 920-12K		Spud Conductor: 11/24/2010		Spud Date: 1/19/2011	
Project: UTAH-UINTAH		Site: NBU 920-12K		Rig Name No: SWABBCO 8/8	
Event: COMPLETION		Start Date: 4/25/2011		End Date: 5/2/2011	
Active Datum: RKB @4,729.00ft (above Mean Sea Level)			UWI: NE/SW/09/SI/20/E/12/0/0/26/PM/S/1913/W/0/2179/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	11:05 - 12:39	1.57	COMP	36	E	P		(STG#3) PU 41/2" HAL CBP & 31/8 EXP GNS, 23 GRM, .36" HOLES. 90 & 120 DEG PHASING. SET CBP @ 10,080' PERF 10,049'-10,051' 4 SPF 8 HLS, 10,032'-10,033' 4 SPF 4 HLS,9921'-9923' 3 SPF 6 HLS, 9872'-9873' 3 SPF 3 HLS,9792'-9793' 3 SPF, 3 HLS. 24 TOTAL HOLES. WHP 850 PSI, BRK 3304 PSI @ 3.7 BPM, ISIP 2752 PSI, FG .72. PUMP 100 BBLS @ 35.9 BPM @ 6496 PSI = 61% PERFS OPEN. MP 6655 PSI, MR 51.3 BPM, AP 6151 PSI, AR 44.6 BPM, ISIP 3333 PSI, FG .77. NPI 581 PSI, PMPD 890 BBLS SW & 11,981 LBS OF 30/50 SND & 5,000# 20/40 RESIN SAND. TOTAL PROP 16,981 LBS.
	12:39 - 13:57	1.30	COMP	36	E	P		(STG #4) PU 41/2" HAL CBP & 31/8 EXP GNS, 23 GRM, .36" HOLES. 90 & 120 DEG PHASING. SET CBP @ 9020' PERF 8992'-8993' 4 SPF 4 HLS, 8864'-8866' 3 WSPF 6 HLS, 8844'-8845' 4 SPF 4 HLS, 8777'-8778 4SPF 4 HLS, 8752'-8753' 4 SPF 4 HLS. 22 TOTAL HOLES. WHP 502 PSI, BRK 2603 PSI @ 3.1 BPM, ISIP 2417 PSI, FG .71. PUMP 100 BBLS @ 25.5 BPM @ 6580 PSI = 62% PERFS OPEN. MP 6664 PSI, MR 51.2 BPM, AP 6091 PSI, AR 48.5 BPM, ISIP 2957 PSI, FG .77. NPI 540 PSI, PMPD 789 BBLS SW & 9,320 LBS OF 30/50 SND & 5,000# 20/40 RESIN SAND. TOTAL PROP 14,320 LBS.
	13:57 - 15:16	1.32	COMP	36	E	P		(STG #5) PU 41/2" HAL CBP & 31/8 EXP GNS, 23 GRM, .36" HOLES. 90 DEG PHASING. SET CBP @ 8515' PERF 8494'-8497' 4 SPF 12 HLS, 8419'-8422' 4 SPF 12 HLS . 24 TOTAL HOLES. WHP 275 PSI, BRK 2548 PSI @ 4.7 BPM, ISIP 2342 PSI, FG .72. PUMP 100 BBLS @ 42.6 BPM @ 5660 PSI = 66% PERFS OPEN. MP 6515 PSI, MR 50.2 BPM, AP 5777 PSI, AR 29.5 BPM, ISIP 2801 PSI, FG .77. NPI 459 PSI, PMPD 787 BBLS SW & 9584 LBS OF 30/50 SND & 5,000# 20/40 RESIN SAND. TOTAL PROP 14,584 LBS.
	15:16 - 16:29	1.22	COMP	36	E	P		(STG #6) PU 41/2" HAL CBP & 31/8 EXP GNS, 23 GRM, .36" HOLES. 90 DEG PHASING. SET CBP @ 8100' PERF 8083'-8086' 4 SPF 12 HLS, 7837'-7840' 4 SPF 12 HLS . 24 TOTAL HOLES. WHP 510 PSI, BRK 2344 PSI @ 4.7 BPM, ISIP 1935 PSI, FG .68. PUMP 100 BBLS @ 47.4 BPM @ 6120 PSI = 63% PERFS OPEN. MP 6635 PSI, MR 51. BPM, AP 6209 PSI, AR 49.5 BPM, ISIP 2667 PSI, FG .77. NPI 732 PSI, PMPD 662 BBLS SW & 11,465 LBS OF 30/50 SND & 5,000# 20/40 RESIN SAND. TOTAL PROP 16,465 LBS.

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 920-12K		Spud Conductor: 11/24/2010		Spud Date: 1/19/2011	
Project: UTAH-UINTAH		Site: NBU 920-12K		Rig Name No: SWABBCO 8/8	
Event: COMPLETION		Start Date: 4/25/2011		End Date: 5/2/2011	
Active Datum: RKB @4,729.00ft (above Mean Sea Level)		UWI: NE/SW/0/9/S/20/E/12/0/0/26/PM/S/1913/W/0/2179/0/0			

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	16:29 - 17:44	1.25	COMP	36	E	P		(STG #7) PU 41/2" HAL CBP & 31/8 EXP GNS, 23 GRM, .36" HOLES. 90 DEG PHASING. SET CBP @ 6739' PERF 6706'-6709' 4 SPF 12 HLS, 6552'-6554' 4 SPF 8 HLS, 6542'-6543' 4 SPF 4 HLS . 24 TOTAL HOLES. WHP 458 PSI, BRK 2921 PSI @ 4.7 BPM, ISIP 2450 PSI, FG .81. PUMP 100 BBLS @ 38.3 BPM @ 6043 PSI = 61% PERFS OPEN. MP 6464 PSI, MR 50.6 BPM, AP 5629 PSI, AR 48.7 BPM, ISIP 1612 PSI, FG ,68. NPI -838 PSI, PMPD 905 BBLS SW & 22,534 LBS OF 30/50 SND & 5,000# 20/40 RESIN SAND. TOTAL PROP 27,534 LBS.
	17:44 - 19:00	1.27	COMP	34	I	P		(KILL PLUG) RIH SET KILL PLUG @ 6492 ' RD WL & FRAC CREW, SWI SDFWE. 112,303 TOTAL SAND \$.94 5442 BBLS TOTAL WTR 684 GALS SCALE INH 130 GAL BIOCID HSM, DRILLING CBPS
5/2/2011	7:00 - 7:30	0.50	COMP	48		P		ND FV, NU BOPS, RU FLOOR, RIH W/ POBS & TBG, TAG KILL PLUG, RU DRLG EQUIP.
	7:30 - 9:00	1.50	COMP	31	I	P		

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 920-12K		Spud Conductor: 11/24/2010	Spud Date: 1/19/2011
Project: UTAH-UINTAH		Site: NBU 920-12K	Rig Name No: SWABBCO 8/8
Event: COMPLETION		Start Date: 4/25/2011	End Date: 5/2/2011
Active Datum: RKB @4,729.00ft (above Mean Sea Level)		UWI: NE/SW/0/9/S/20/E/12/0/0/26/PM/S/1913/W/0/2179/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	9:00 - 17:00	8.00	COMP	44	C	P		<p>BROKE CIRC CONVENTIONAL, TEST BOPS TO 3,000# FOR 15 MIN LOST 40# PSI. RIH.</p> <p>C/O 15' SAND TAG 1ST PLUG @ 6492' DRL PLG IN 10 MIN 500# PSI INCREASE RIH.</p> <p>C/O 70' SAND TAG 2ND PLUG @ 6720' DRL PLG IN 6 MIN 500# PSI INCREASE RIH</p> <p>C/O 10' SAND TAG 3RD PLUG @ 8100' DRL PLG IN 5 MIN 300# PSI INCREASE RIH</p> <p>C/O 15' SAND TAG 4TH PLUG @ 8515' DRL PLG IN 4 MIN 1200# PSI INCREASE RIH</p> <p>C/O 20' SAND TAG 5TH PLUG @ 9020' DRL PLG IN 4 MIN 1000# PSI INCREASE RIH</p> <p>C/O 20' SAND TAG 6TH PLUG @ 10,080' DRL PLG IN 4 MIN 1000# PSI INCREASE RIH</p> <p>C/O 25' SAND TAG 7TH PLUG @ 10,310' DRL PLG IN 4 MIN 800# PSI INCREASE. RIH</p> <p>C/O TO @ 10,774' CIRC CLEAN, RACK OUT SWIVEL. L/D 16 JTS, LAND TBG ON 322 JTS 23/8 L-80. RD FLOOR, ND BOPS NU WH. PUMP OFF BIT, LET WELL SET FOR 30 MIN FOR BIT TO FALL. TURN WELL OVER TO FB CREW. RIG DWN RACK OUT EQUIP PREP TO MOVE IN AM. SICP = 20000 FTP = 100</p> <p>KB = 26' HANGER 41/16 = .83' 322 JTS 23/8 L-80 = 10,129.48' (SURFAC VALVE LOCKED OPEN W/ POPOFF ASSEMBLY) 1.875 X/N & POBS = 2.20' EOT @ 10,158.51'</p> <p>TWTR = 5562 BBLS TWR = 1100 BBLS TWLTR = 4462 BBLS</p> <p>351 JTS HAULED OUT 322 LANDED 29 TO RETURN</p>
	15:30 - 15:30	0.00	PROD	50				<p>WEELL TURNED TO SALES @ 1530 HR ON 5/2/11 - 475 MCFD, 2040 BWPD, CP 2000#, FTP 1600#, CK 20/64"</p>

1 General

1.1 Customer Information

Company	US ROCKIES REGION
Representative	
Address	

1.2 Well Information

Well	NBU 920-12K	Wellbore No.	OH
Well Name	NBU 920-12K	Common Name	NBU 920-12K
Project	UTAH-UINTAH	Site	NBU 920-12K
Vertical Section Azimuth	0.00 (°)	North Reference	True
Origin N/S		Origin E/W	
Spud Date	1/19/2011	UWI	NE/SW/0/9/S/20/E/12/0/0/26/PM/S/1913/W/0/21 79/0/0
Active Datum	RKB @4,729.00ft (above Mean Sea Level)		

2 Survey Name

2.1 Survey Name: Survey #3

Survey Name	Survey #3	Company	APC
Started	1/18/2011	Ended	
Tool Name		Engineer	Anadarko

2.1.1 Tie On Point

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)
35.00	0.00	0.00	35.00	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 (°)
4/2/2011	Tie On	35.00	0.00	0.00	35.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

2.2 Survey Name: Survey #1

Survey Name	Survey #1	Company	CAPSTAR
Started	1/19/2011	Ended	
Tool Name	TOT	Engineer	Anadarko

2.2.1 Tie On Point

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)
26.00	0.00	0.00	26.00	0.00	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 (°)
1/19/2011	Tie On	26.00	0.00	0.00	26.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/19/2011	NORMAL	118.00	0.25		118.00	0.20	0.00	0.20	0.27	0.27	0.00	0.00

2.2.2 Survey Stations (Continued)

Date	Type	MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Build (°/100ft)	Turn (°/100ft)	TFace (°)
1/19/2011	NORMAL	537.00	0.50		536.99	2.94	0.00	2.94	0.06	0.06	0.00	0.00
	NORMAL	949.00	0.50		948.97	6.54	0.00	6.54	0.00	0.00	0.00	0.00
	NORMAL	1,360.00	0.25		1,359.97	9.23	0.00	9.23	0.06	-0.06	0.00	180.00
1/20/2011	NORMAL	1,740.00	1.00		1,739.94	13.37	0.00	13.37	0.20	0.20	0.00	0.00
1/22/2011	NORMAL	2,826.00	1.50		2,825.68	37.06	0.00	37.06	0.05	0.05	0.00	0.00

2.3 Survey Name: Survey #2

Survey Name	Survey #2	Company	APC
Started	1/21/2011	Ended	
Tool Name		Engineer	Anadarko

2.3.1 Tie On Point

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)
35.00	0.00	0.00	35.00	0.00	0.00

2.3.2 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 (°)
1/21/2011	Tie On	35.00	0.00	0.00	35.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

2.4 Survey Name: Survey #2

Survey Name	Survey #2	Company	WEATHERFORD
Started	4/2/2011	Ended	
Tool Name	MWD	Engineer	Anadarko

2.4.1 Tie On Point

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

2.4.2 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 (°)
4/2/2011	Tie On	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/2/2011	NORMAL	2,945.00	1.59	172.44	2,944.62	-40.51	5.38	-40.51	0.05	0.05	0.00	172.44
	NORMAL	3,040.00	1.31	168.57	3,039.59	-42.88	5.76	-42.88	0.31	-0.29	-4.07	-162.65
	NORMAL	3,134.00	1.50	172.19	3,133.56	-45.15	6.14	-45.15	0.22	0.20	3.85	26.86
	NORMAL	3,229.00	1.56	181.57	3,228.53	-47.67	6.28	-47.67	0.27	0.06	9.87	81.24
	NORMAL	3,324.00	0.31	206.57	3,323.52	-49.20	6.13	-49.20	1.35	-1.32	26.32	174.15
	NORMAL	3,419.00	0.19	164.44	3,418.51	-49.58	6.05	-49.58	0.22	-0.13	-44.35	-142.99
	NORMAL	3,514.00	0.38	209.44	3,513.51	-50.00	5.94	-50.00	0.29	0.20	47.37	73.67
	NORMAL	3,608.00	0.88	214.57	3,607.51	-50.87	5.38	-50.87	0.53	0.53	5.46	9.01
	NORMAL	3,703.00	1.31	196.94	3,702.49	-52.51	4.65	-52.51	0.57	0.45	-18.56	-47.11
	NORMAL	3,798.00	0.56	247.94	3,797.48	-53.72	3.90	-53.72	1.11	-0.79	53.68	155.56
	NORMAL	3,892.00	0.75	205.19	3,891.47	-54.45	3.21	-54.45	0.54	0.20	-45.48	-91.04
	NORMAL	3,987.00	0.81	214.44	3,986.46	-55.57	2.57	-55.57	0.15	0.06	9.74	69.20
	NORMAL	4,082.00	0.81	1.57	4,081.46	-55.45	2.21	-55.45	1.64	0.00	154.87	163.56
	NORMAL	4,177.00	1.81	325.82	4,176.44	-53.54	1.38	-53.54	1.31	1.05	-37.63	-58.07
	NORMAL	4,272.00	1.69	317.44	4,271.39	-51.26	-0.41	-51.26	0.30	-0.13	-8.82	-119.27

2.4.2 Survey Stations (Continued)

Date	Type	MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Build (°/100ft)	Turn (°/100ft)	TFace (°)
4/2/2011	NORMAL	4,367.00	1.44	288.32	4,366.36	-49.86	-2.49	-49.86	0.87	-0.26	-30.65	-121.65
	NORMAL	4,461.00	1.63	273.44	4,460.32	-49.41	-4.94	-49.41	0.47	0.20	-15.83	-72.08
	NORMAL	4,556.00	1.44	238.94	4,555.29	-49.94	-7.31	-49.94	0.98	-0.20	-36.32	-118.52
	NORMAL	4,651.00	1.19	229.44	4,650.27	-51.20	-9.09	-51.20	0.35	-0.26	-10.00	-143.59
	NORMAL	4,746.00	1.56	215.44	4,745.24	-52.89	-10.58	-52.89	0.52	0.39	-14.74	-49.38
4/3/2011	NORMAL	4,841.00	1.38	204.07	4,840.21	-54.99	-11.80	-54.99	0.36	-0.19	-11.97	-127.28
	NORMAL	4,935.00	1.88	192.94	4,934.17	-57.53	-12.61	-57.53	0.63	0.53	-11.84	-37.99
	NORMAL	5,030.00	0.38	176.44	5,029.15	-59.36	-12.94	-59.36	1.60	-1.58	-17.37	-175.93
	NORMAL	5,125.00	0.13	49.82	5,124.15	-59.61	-12.84	-59.61	0.49	-0.26	-133.28	-167.15
	NORMAL	5,220.00	0.19	87.82	5,219.15	-59.53	-12.60	-59.53	0.12	0.06	40.00	80.43
	NORMAL	5,314.00	0.56	114.69	5,313.15	-59.72	-12.02	-59.72	0.43	0.39	28.59	39.27
	NORMAL	5,408.00	0.69	113.07	5,407.14	-60.13	-11.08	-60.13	0.14	0.14	-1.72	-8.55
	NORMAL	5,503.00	0.81	118.82	5,502.13	-60.68	-9.97	-60.68	0.15	0.13	6.05	34.99
	NORMAL	5,598.00	1.00	125.32	5,597.12	-61.48	-8.71	-61.48	0.23	0.20	6.84	31.66
	NORMAL	5,692.00	0.94	130.94	5,691.11	-62.46	-7.45	-62.46	0.12	-0.06	5.98	125.03
	NORMAL	5,787.00	1.19	144.57	5,786.09	-63.77	-6.29	-63.77	0.37	0.26	14.35	52.33
	NORMAL	5,882.00	1.00	216.94	5,881.08	-65.24	-6.22	-65.24	1.37	-0.20	76.18	132.94
	NORMAL	5,976.00	1.06	329.69	5,975.07	-65.15	-7.15	-65.15	1.83	0.06	119.95	145.26
	NORMAL	6,070.00	0.94	347.69	6,069.05	-63.64	-7.75	-63.64	0.36	-0.13	19.15	119.75
	NORMAL	6,165.00	0.81	350.57	6,164.04	-62.22	-8.03	-62.22	0.14	-0.14	3.03	162.74
	NORMAL	6,259.00	0.94	338.69	6,258.03	-60.84	-8.42	-60.84	0.24	0.14	-12.64	-60.41
	NORMAL	6,354.00	0.81	316.32	6,353.02	-59.63	-9.17	-59.63	0.38	-0.14	-23.55	-121.77
	NORMAL	6,449.00	0.50	324.07	6,448.02	-58.81	-9.87	-58.81	0.34	-0.33	8.16	167.90
	NORMAL	6,544.00	0.31	342.07	6,543.01	-58.23	-10.20	-58.23	0.24	-0.20	18.95	154.97
	NORMAL	6,638.00	1.31	339.69	6,637.00	-56.98	-10.65	-56.98	1.06	1.06	-2.53	-3.12
	NORMAL	6,734.00	1.50	333.57	6,732.97	-54.83	-11.59	-54.83	0.25	0.20	-6.37	-41.39
	NORMAL	6,829.00	1.13	323.19	6,827.95	-52.96	-12.70	-52.96	0.46	-0.39	-10.93	-152.34
	NORMAL	6,925.00	0.94	329.19	6,923.93	-51.53	-13.67	-51.53	0.23	-0.20	6.25	153.28
	NORMAL	7,020.00	0.50	332.69	7,018.93	-50.49	-14.26	-50.49	0.47	-0.46	3.68	176.04
	NORMAL	7,115.00	0.44	270.19	7,113.92	-50.12	-14.82	-50.12	0.52	-0.06	-65.79	-127.25
	NORMAL	7,210.00	0.63	7.44	7,208.92	-49.60	-15.11	-49.60	0.86	0.20	102.37	129.73
4/4/2011	NORMAL	7,305.00	1.50	1.94	7,303.90	-47.84	-15.00	-47.84	0.92	0.92	-5.79	-9.46
	NORMAL	7,399.00	1.44	3.44	7,397.87	-45.43	-14.89	-45.43	0.08	-0.06	1.60	148.07
	NORMAL	7,494.00	1.25	4.19	7,492.85	-43.21	-14.74	-43.21	0.20	-0.20	0.79	175.08
	NORMAL	7,589.00	0.75	21.19	7,587.83	-41.60	-14.44	-41.60	0.61	-0.53	17.89	157.63
	NORMAL	7,683.00	0.75	23.94	7,681.82	-40.46	-13.97	-40.46	0.04	0.00	2.93	91.37
	NORMAL	7,778.00	0.56	30.82	7,776.82	-39.49	-13.48	-39.49	0.22	-0.20	7.24	160.93
	NORMAL	7,873.00	0.31	82.32	7,871.81	-39.06	-12.99	-39.06	0.46	-0.26	54.21	146.53
	NORMAL	7,968.00	0.44	125.57	7,966.81	-39.24	-12.44	-39.24	0.32	0.14	45.53	88.01
	NORMAL	8,063.00	0.69	162.44	8,061.81	-40.00	-11.97	-40.00	0.45	0.26	38.81	74.86
	NORMAL	8,157.00	1.00	154.57	8,155.80	-41.28	-11.45	-41.28	0.35	0.33	-8.37	-24.49
	NORMAL	8,250.00	0.88	159.57	8,248.79	-42.68	-10.85	-42.68	0.16	-0.13	5.38	148.13
	NORMAL	8,347.00	1.06	169.19	8,345.77	-44.26	-10.42	-44.26	0.25	0.19	9.92	47.01
4/5/2011	NORMAL	8,441.00	1.31	169.69	8,439.75	-46.17	-10.06	-46.17	0.27	0.27	0.53	2.62
	NORMAL	8,536.00	1.19	176.69	8,534.73	-48.22	-9.81	-48.22	0.20	-0.13	7.37	131.63
	NORMAL	8,631.00	1.25	157.69	8,629.71	-50.17	-9.36	-50.17	0.43	0.06	-20.00	-91.14
	NORMAL	8,726.00	1.25	173.57	8,724.69	-52.15	-8.85	-52.15	0.36	0.00	16.72	97.94
	NORMAL	8,820.00	1.38	163.82	8,818.66	-54.26	-8.42	-54.26	0.27	0.14	-10.37	-64.78
	NORMAL	8,915.00	1.50	158.19	8,913.63	-56.51	-7.64	-56.51	0.20	0.13	-5.93	-52.53
	NORMAL	9,010.00	1.56	160.82	9,008.60	-58.89	-6.76	-58.89	0.10	0.06	2.77	50.81
	NORMAL	9,105.00	1.69	163.32	9,103.56	-61.45	-5.93	-61.45	0.16	0.14	2.63	29.86
	NORMAL	9,199.00	2.13	163.57	9,197.51	-64.45	-5.04	-64.45	0.47	0.47	0.27	1.21
	NORMAL	9,294.00	2.25	161.82	9,292.44	-67.92	-3.96	-67.92	0.14	0.13	-1.84	-30.01
4/6/2011	NORMAL	9,389.00	2.25	162.57	9,387.36	-71.47	-2.81	-71.47	0.03	0.00	0.79	90.37
	NORMAL	9,484.00	2.00	158.44	9,482.30	-74.79	-1.65	-74.79	0.31	-0.26	-4.35	-150.56
	NORMAL	9,578.00	2.31	151.82	9,576.23	-77.99	-0.15	-77.99	0.42	0.33	-7.04	-42.10
	NORMAL	9,673.00	2.38	152.94	9,671.15	-81.43	1.65	-81.43	0.09	0.07	1.18	33.77

2.4.2 Survey Stations (Continued)

Date	Type	MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Build (°/100ft)	Turn (°/100ft)	TFace (°)
4/6/2011	NORMAL	9,768.00	2.38	152.07	9,766.07	-84.93	3.47	-84.93	0.04	0.00	-0.92	-90.43
	NORMAL	9,862.00	2.69	159.32	9,859.98	-88.72	5.17	-88.72	0.47	0.33	7.71	49.63
4/7/2011	NORMAL	9,957.00	2.50	157.32	9,954.88	-92.72	6.75	-92.72	0.22	-0.20	-2.11	-155.51
	NORMAL	10,052.00	2.06	159.57	10,049.81	-96.23	8.15	-96.23	0.47	-0.46	2.37	169.62
	NORMAL	10,147.00	1.75	168.82	10,144.75	-99.25	9.02	-99.25	0.46	-0.33	9.74	139.79
	NORMAL	10,241.00	1.56	174.19	10,238.71	-101.93	9.43	-101.93	0.26	-0.20	5.71	143.44
	NORMAL	10,336.00	1.88	183.44	10,333.67	-104.77	9.47	-104.77	0.44	0.34	9.74	45.63
	NORMAL	10,431.00	2.06	182.82	10,428.61	-108.04	9.29	-108.04	0.19	0.19	-0.65	-7.06
	NORMAL	10,526.00	2.06	188.32	10,523.55	-111.43	8.96	-111.43	0.21	0.00	5.79	92.75
	NORMAL	10,621.00	2.13	182.44	10,618.49	-114.88	8.64	-114.88	0.24	0.07	-6.19	-74.91
	NORMAL	10,715.00	2.44	182.94	10,712.42	-118.63	8.46	-118.63	0.33	0.33	0.53	3.93
	NORMAL	10,751.00	2.44	180.82	10,748.38	-120.16	8.41	-120.16	0.25	0.00	-5.89	-91.06
4/8/2011	NORMAL	10,801.00	2.44	180.82	10,798.34	-122.29	8.38	-122.29	0.00	0.00	0.00	0.00