

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 920-12D		
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	491 FNL 857 FWL	NWNW	12	9.0 S	20.0 E	S
Top of Uppermost Producing Zone	491 FNL 857 FWL	NWNW	12	9.0 S	20.0 E	S
At Total Depth	491 FNL 857 FWL	NWNW	12	9.0 S	20.0 E	S
21. COUNTY UINTAH		22. DISTANCE TO NEAREST LEASE LINE (Feet) 491		23. NUMBER OF ACRES IN DRILLING UNIT 600		
		25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 2000		26. PROPOSED DEPTH MD: 10850 TVD:		
27. ELEVATION - GROUND LEVEL 4707		28. BOND NUMBER		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 10/22/2008	EMAIL Kevin.McIntyre@anadarko.com
API NUMBER ASSIGNED 43047501600000	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	315	1.18	15.6

Proposed Hole, Casing, and Cement

String	Hole Size	Casing Size	Top (MD)	Bottom (MD)		
Prod	7.875	4.5	0	10850		
Pipe	Grade	Length	Weight			
	Grade I-80 LT&C	10850	11.6			
	Cement Interval	Top (MD)	Bottom (MD)			
		0	10850			
		Cement Description	Class	Sacks	Yield	Weight
			Premium Lite High Strength	530	3.38	11.0
			Pozzuolanic Cement	1670	1.31	14.3

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 0.75	2020 1.54	453000 5.13
PRODUCTION	4-1/2"	0 to 10850	11.60	I-80	LTC	7780 1.67	6350 0.90	201000 1.83

- 1) Max Anticipated Surf. Press.(MASP) (Surface Casing) = (Pore Pressure at next csg point - (.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 4340 psi

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE	LEAD	500	Premium cmt + 2% CaCl + .25 pps flocele	215	60%	15.60	1.18
Option 1	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	NOTE: If well will circulate water to surface, option 2 will be utilized					
	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	4,860'	Premium Lite II + 3% KCl + 0.25 pps celloflake + 5 pps gilsonite + 10% gel + 0.5% extender	530	60%	11.00	3.38
	TAIL	5,990'	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 920-12D
NWNW 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	1891'
Bird's Nest	2153'
Mahogany	2681'
Wasatch	5367'
Mesaverde	8669'
MVU2	9644'
MVL1	10,154'
TD	10,850'

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

<u>Substance</u>	<u>Formation</u>	<u>Depth</u>
	Green River	1891'
	Bird's Nest	2153'
	Mahogany	2681'
Gas	Wasatch	5367'
Gas	Mesaverde	8669'
Gas	MVU2	9644'
Gas	MVL1	10,154'
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 10,850' TD, approximately equals 6727 psi (calculated at 0.62 psi/foot).

Maximum anticipated surface pressure equals approximately 4340 psi (bottomhole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

8. Anticipated Starting Dates:

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

9. Variances:

*Please see Natural Buttes Unit SOP Onshore Order #2 – Air Drilling Variance
Kerr-McGee Oil & Gas Onshore LP (KMG) respectfully requests a variance to several requirements associated with air drilling outlined in Onshore Order 2*

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

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

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

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

Background

In a typical well, KMG utilizes an air rig for drilling the surface casing hole, an interval from the surface to surface casing depths, which varies in depth from 1,700 to 2,800 feet.

The air rig drilling operation does not drill through productive or over pressured formations in KMG field, but does penetrate the Uinta and Green River Formations. The purpose of the air drilling operation is to overcome the severe loss circulation zone in the Green River known as the Bird's Nest while creating a stable hole for the surface casing. The surface casing hole is generally drilled to approximately 500 feet below the Bird's Nest.

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

The air rig is then mobilized to drill the surface casing hole by drilling a 12-1/4 inch hole

to just above the Bird's Nest interval with an air hammer. The hammer is then tripped and replaced with a 12-1/4 inch tri-cone bit. The tri-cone bit is used to drill to the surface casing point, approximately 500 feet below the loss circulation zone (Bird's Nest). The 9-5/8 inch surface casing is then run and cemented in place, thereby isolating the lost circulation zone.

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

Variance for BOPE Requirements

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

Variance for Mud Material Requirements

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

Variance for Special Drilling Operation (surface equipment placement) Requirements

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

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

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

Lastly, Onshore Order 2 addresses the need for an automatic igniter or continuous pilot

light on the blowie line. The air rig does not utilize an igniter as the surface hole drilling operation does not encounter productive formations.

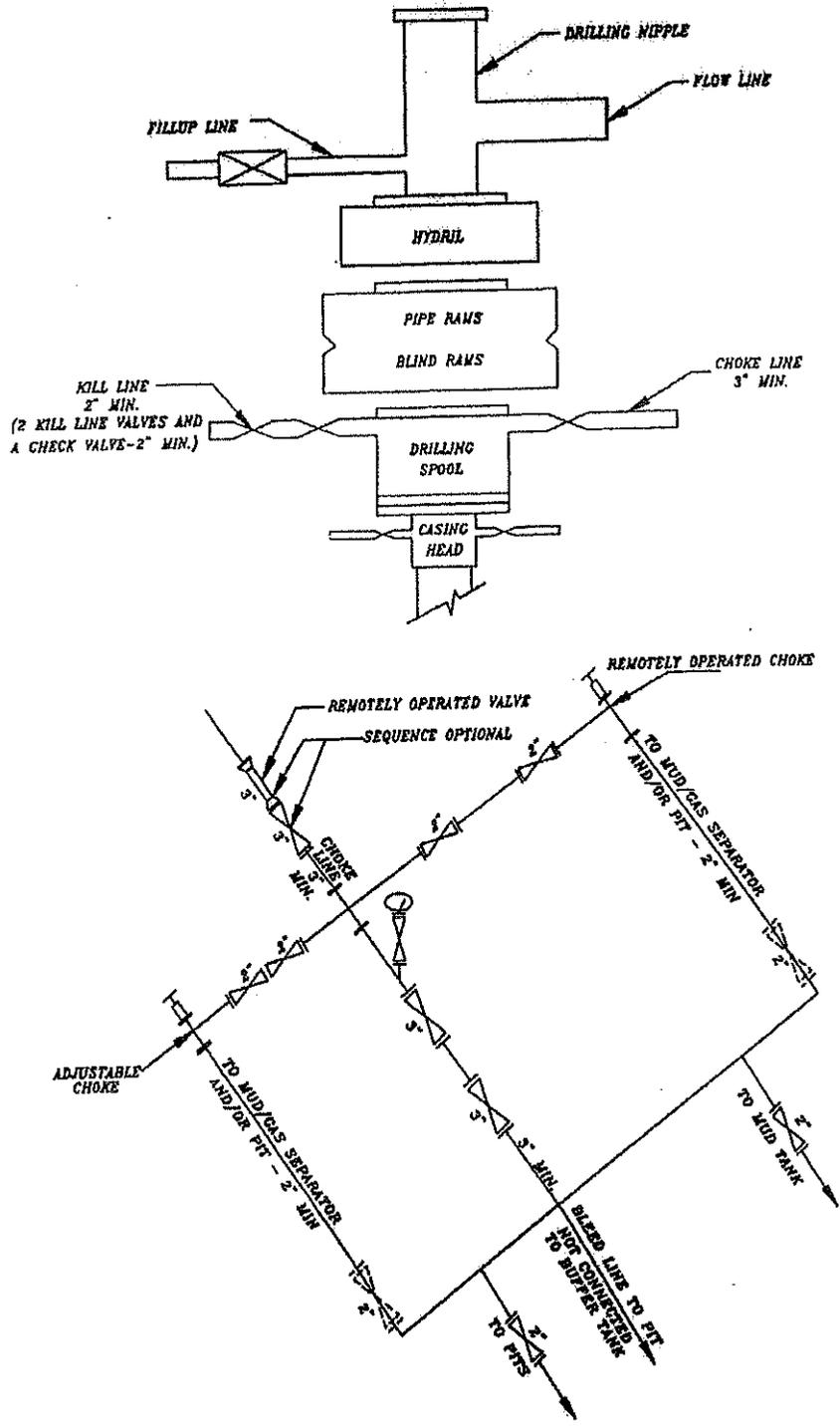
Conclusion

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

10. **Other Information:**

Please see Natural Buttes Unit SOP.

EXHIBIT A



SCHEMATIC DIAGRAM OF 5,000 PSI BOP STACK

**NBU 920-12D
NWNW 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 100' +/- 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 332' 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 332' of 4" steel pipeline will be installed on surface within the access corridor for the well location. As a Best Management Practice (BMP), the pipeline would be buried within the access road corridor if possible. The construction of pipelines requires the corridor of 30 feet.

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

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

Interim Surface Reclamation Plan:

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

5. Location and Type of Water Supply:

Please see the Natural Buttes SOP.

6. Source of Construction Materials:

Please see the Natural Buttes SOP.

7. Methods of Handling Waste Materials:

Please see the Natural Buttes SOP.

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

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

8. Ancillary Facilities:

Please see the Natural Buttes SOP.

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

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

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

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

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

Please see the Natural Buttes SOP.

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

Crested Wheatgrass 12 lbs.

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

11. **Surface/Mineral Ownership:**

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

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

The mineral ownership is listed below:

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

12. Stipulations/Notices/Mitigation:

There are no stipulations or notices for this location.

13. Other Information:

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

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

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

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

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

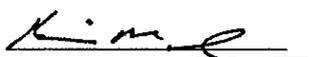
Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

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

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

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

I hereby certify that I, or persons under my supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions that currently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed by the Operator, its contractors, and subcontractors in conformity with this plan and the terms and conditions under which it is approved.


Kevin McIntyre

9/24/2008

Date

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

S89°20'W 79.02 (G.L.O.)
S89°19'55"W - 2606.52' (Meas.)

S89°21'44"W - 2608.33' (Meas.)

Found 1968
Brass Cap.

Found 1968
Brass Cap.

Found 1968
Brass Cap.
Pile of Stones.

N00°23'35"E - 2659.69' (Meas.)

N00°15'42"W - 2665.17' (Meas.)
N01°17'W 40.38 (G.L.O.)

857'

491'

Proposed Well

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

ELEV. UNGRADED GROUND = 4706.7'

NBU 920-12D (Proposed Well Head)
NAD 83 LATITUDE = 40.05592' (40° 03' 21.30")
LONGITUDE = 109.62159' (109° 37' 17.74")
NAD 27 LATITUDE = 40.05595' (40° 03' 21.43")
LONGITUDE = 109.62090' (109° 37' 15.25")

Found 1968
Brass Cap.
Pile of Stones.

Found 1968
Brass Cap.
Pile of Stones.

12

N0°21'E 80.60 (G.L.O.)

N00°27'12"W - 2615.05' (Meas.)
N0°28'W 39.69 (G.L.O.)

N00°21'43"E - 2659.80' (Meas.)

Found 1968
Brass Cap.
Pile of Stones.

Found 1968
Brass Cap.
Pile of Stones.

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.)

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

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'.



SCALE



SURVEYOR'S CERTIFICATE

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

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

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

NBU 920-12D
WELL PLAT
491' FNL, 857' FWL
NW 1/4 NW 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

TIMBERLINE (435) 789-1355
ENGINEERING & LAND SURVEYING, INC.
38 WEST 100 NORTH - VERNAL, UTAH 84078

DATE SURVEYED: 07-30-08	SURVEYED BY: M.S.B.	SHEET 1 OF 9
DATE DRAWN: 08-01-08	DRAWN BY: B.R.B.	
SCALE: 1" = 1000'		Date Last Revised:

WELL PAD LEGEND

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

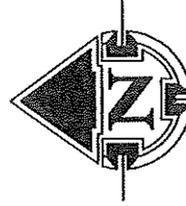
WELL PAD NBU 920-12D QUANTITIES

EXISTING GRADE @ LOC. STAKE = 4,706.7'
 FINISHED GRADE ELEVATION = 4,702.8'
 CUT SLOPES = 1.5:1
 FILL SLOPES = 1.5:1

TOTAL CUT FOR WELL PAD = 18,250 C.Y.
 TOTAL FILL FOR WELL PAD = 17,166 C.Y.
 TOPSOIL @ 6" DEPTH = 3,154 C.Y.
 TOTAL DISTURBANCE = 3.91 ACRES
 SHRINKAGE FACTOR = 1.15

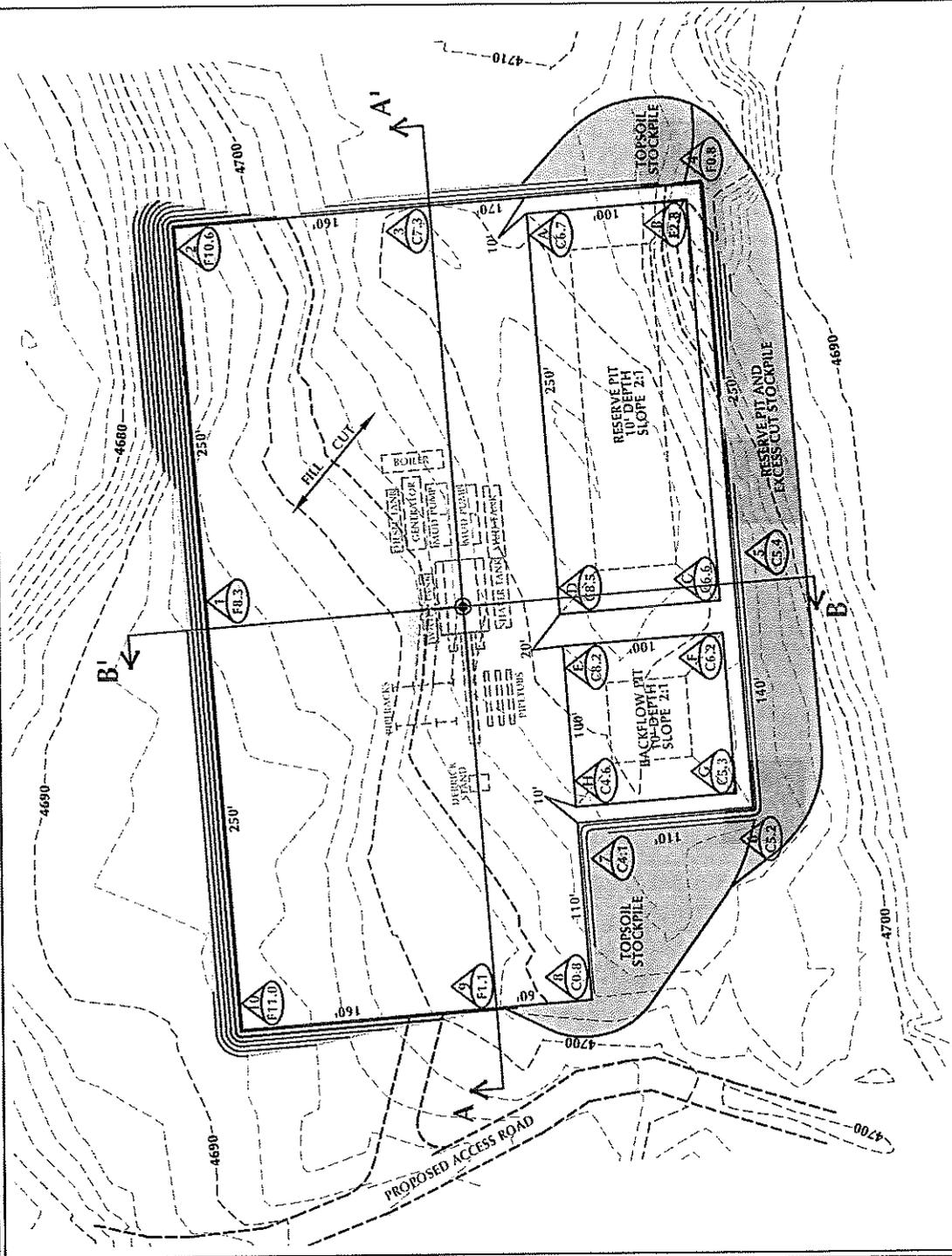
SWELL FACTOR = 1.00
 RESERVE PIT CAPACITY (2' OF FREEBOARD)
 +/- 25,880 BARRELS
 RESERVE PIT VOLUME
 +/- 7,185 CY

BACKFLOW PIT CAPACITY (2' OF FREEBOARD)
 +/- 8,760 BARRELS
 BACKFLOW PIT VOLUME
 +/- 2,520 CY



HORIZONTAL 0 50 100
 1" = 100'
 2' CONTOURS

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



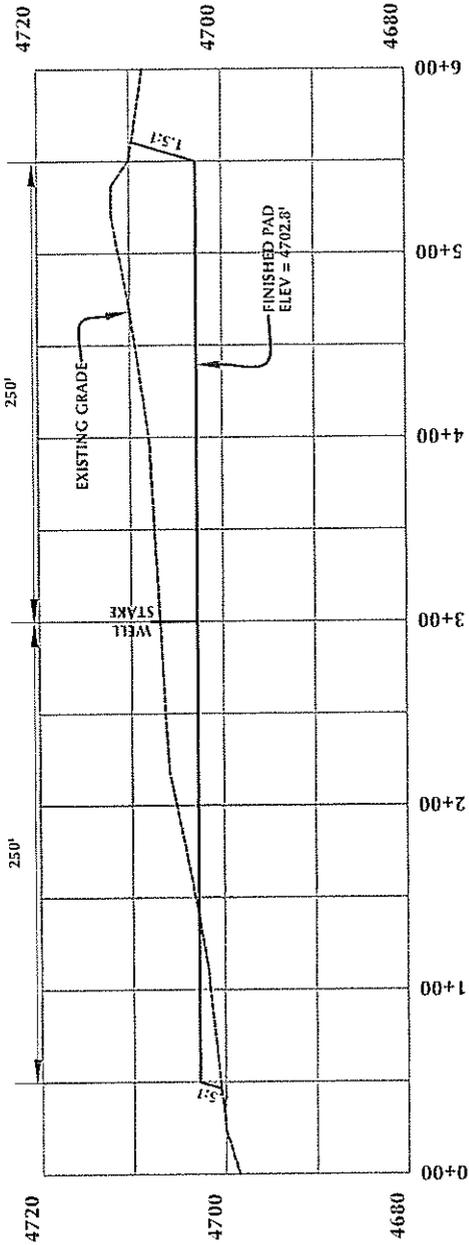
Scale: 1"=100'	Date: 8/15/08	SHEET NO: 2
REVISED:	BY DATE	2 OF 9



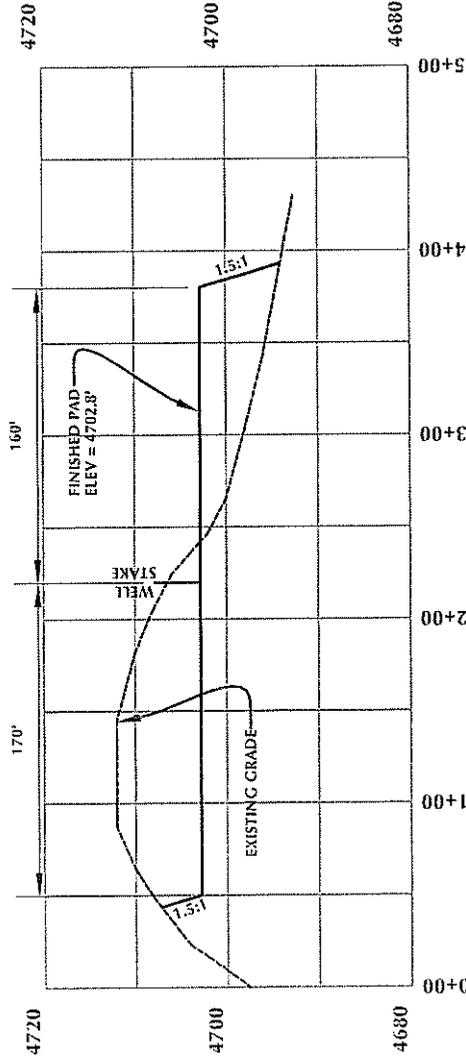
CONSULTING, LLC
 371 Coffeen Avenue
 Sheridan WY 82801
 Phone: 307-674-0609
 Fax: 307-674-0182

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

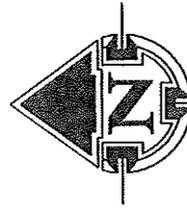
NBU 920-12D
WELL PAD - LOCATION LAYOUT
 491' FNL, 857' FWL
 NW1/4NW1/4, SECTION 12, T.9S., R.20E.
 S.L.B.&M., Uintah County, Utah



CROSS SECTION A-A'

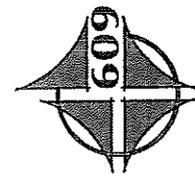


CROSS SECTION B-B'



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

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



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

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

NBU 920-12D
WELL PAD - CROSS SECTIONS
 491' FNL, 857' FWL
 NW1/4NW1/4, SECTION 12, T.9S., R.20E.
 S.L.B.&M., UINTAH COUNTY, UTAH

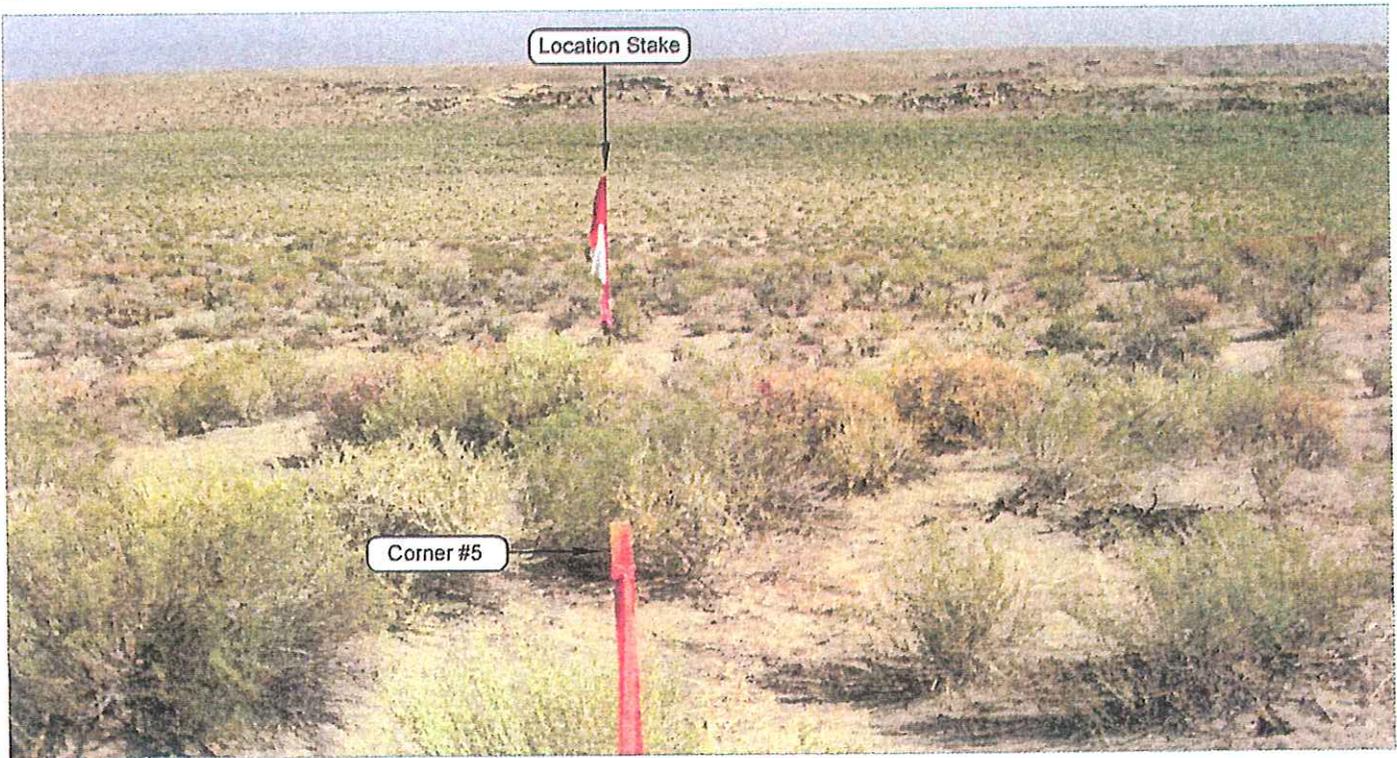


PHOTO VIEW: FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: NORTHERLY

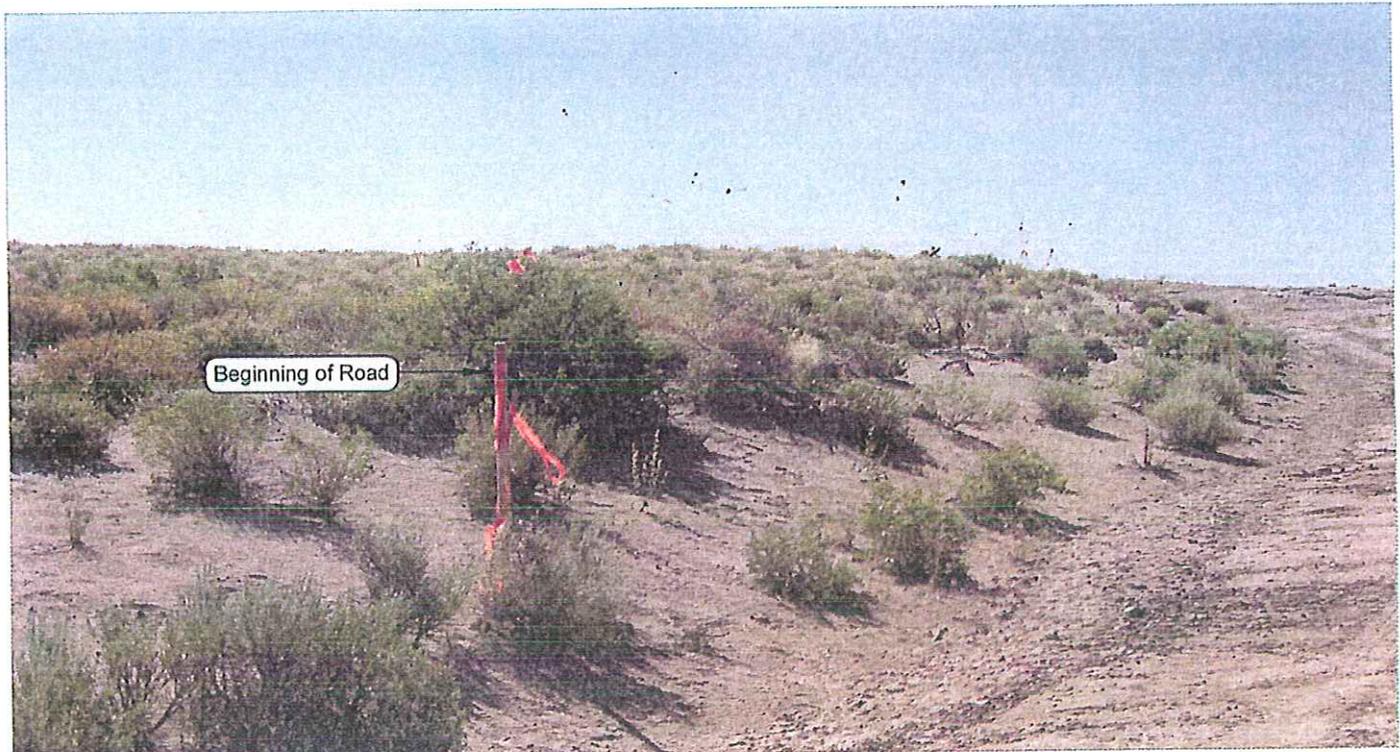


PHOTO VIEW: FROM BEGINNING OF PROPOSED ROAD

CAMERA ANGLE: SOUTHEASTERLY

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

NBU 920-12D
 491' FNL, 857' FWL
 NW ¼ NW ¼ OF SECTION 12, T9S, R20E,
 S.L.B.&M. UINTAH COUNTY, UTAH.



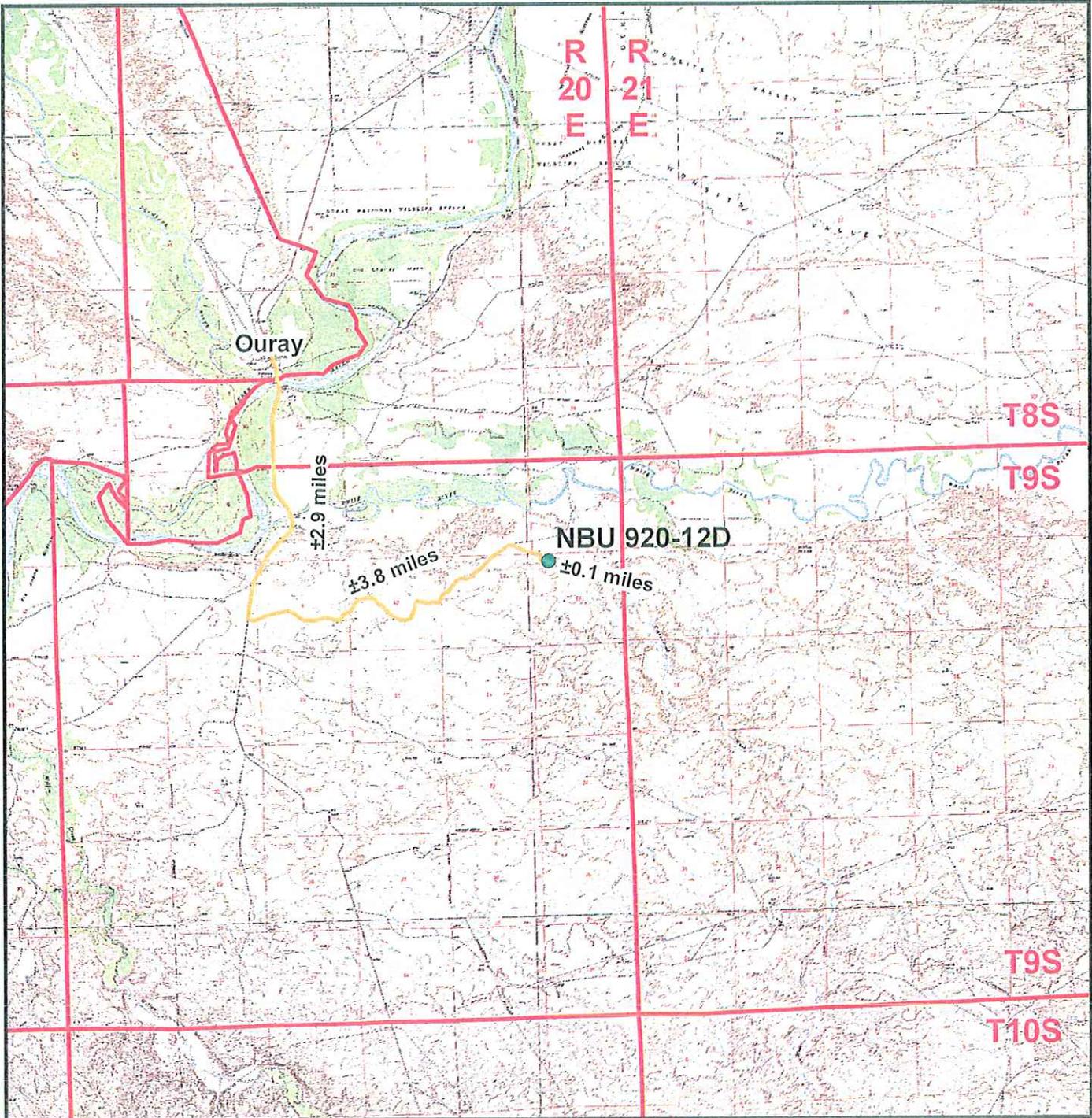
CONSULTING, LLC
 371 Coffeen Avenue
 Sheridan WY 82801
 Phone 307-674-0609
 Fax 307-674-0182

LOCATION PHOTOS		DATE TAKEN: 07-30-08
		DATE DRAWN: 08-01-08
TAKEN BY: M.S.B.	DRAWN BY: B.R.B.	REVISED:
Timberline Engineering & Land Surveying, Inc. 38 WEST 100 NORTH VERNAL, UTAH 84078		(435) 789-1365 SHEET 4 OF 9

Kerr-McGee Oil & Gas Onshore, LP
NBU 920-12D
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 340 FEET TO THE PROPOSED ACCESS ROAD. FOLLOW ROAD FLAGS IN A SOUTHEASTERLY DIRECTION APPROXIMATELY 100 FEET TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 37.5 MILES IN A SOUTHERLY DIRECTION.



Legend

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

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

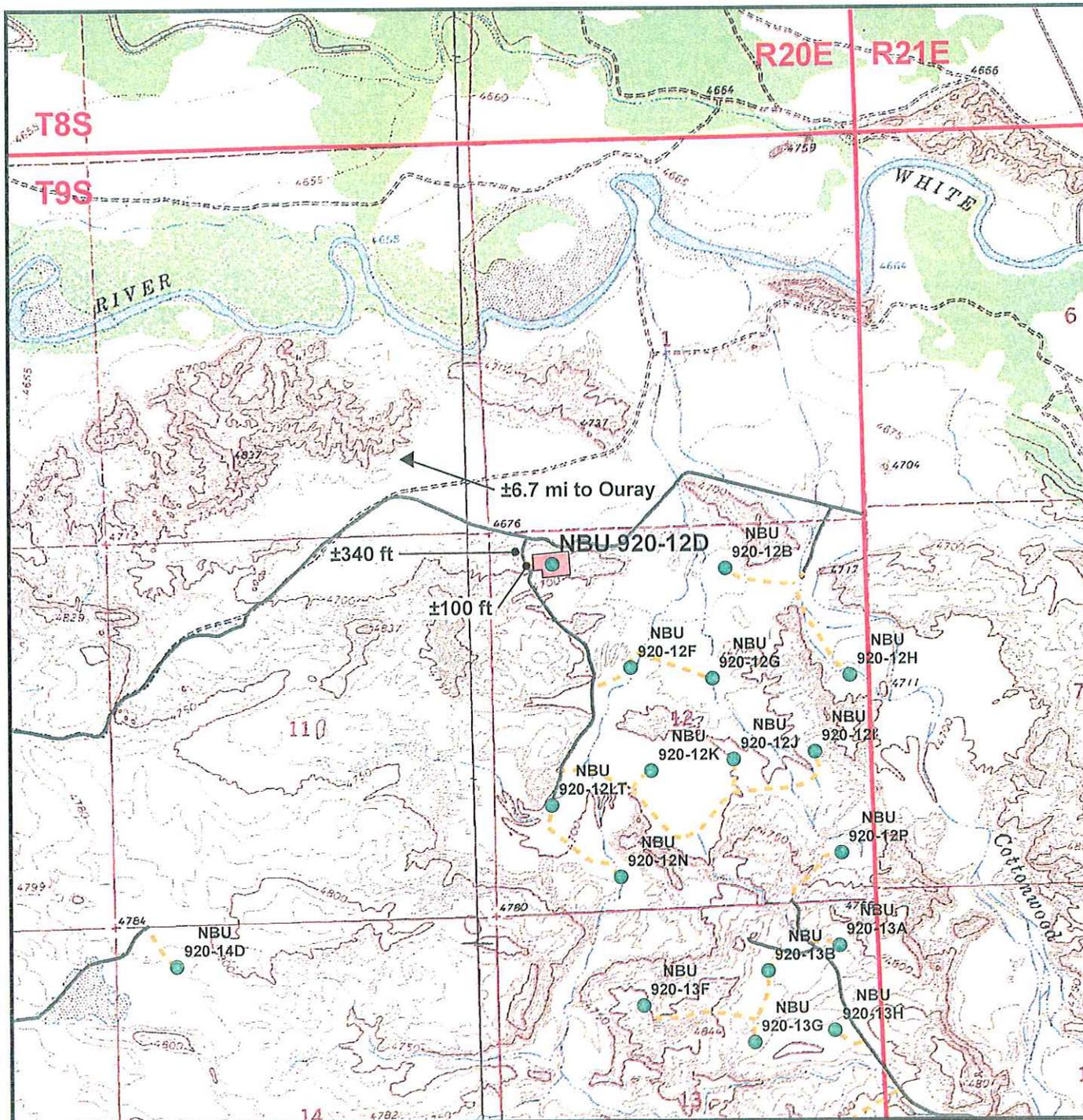
NBU 920-12D
 Topo A
 491' FNL, 857' FWL
 NW¼ NW¼, Section 12, T9S, R20E
 S.L.B.&M., Uintah County, Utah



CONSULTING, LLC
 371 Coffeen Avenue
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Scale: 1:100,000	NAD83 USP Central	Sheet No:
Drawn: JELO	Date: 14 Aug 2008	5
Revised:	Date:	



Legend

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

Total Proposed Road Length = ±100 ft

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

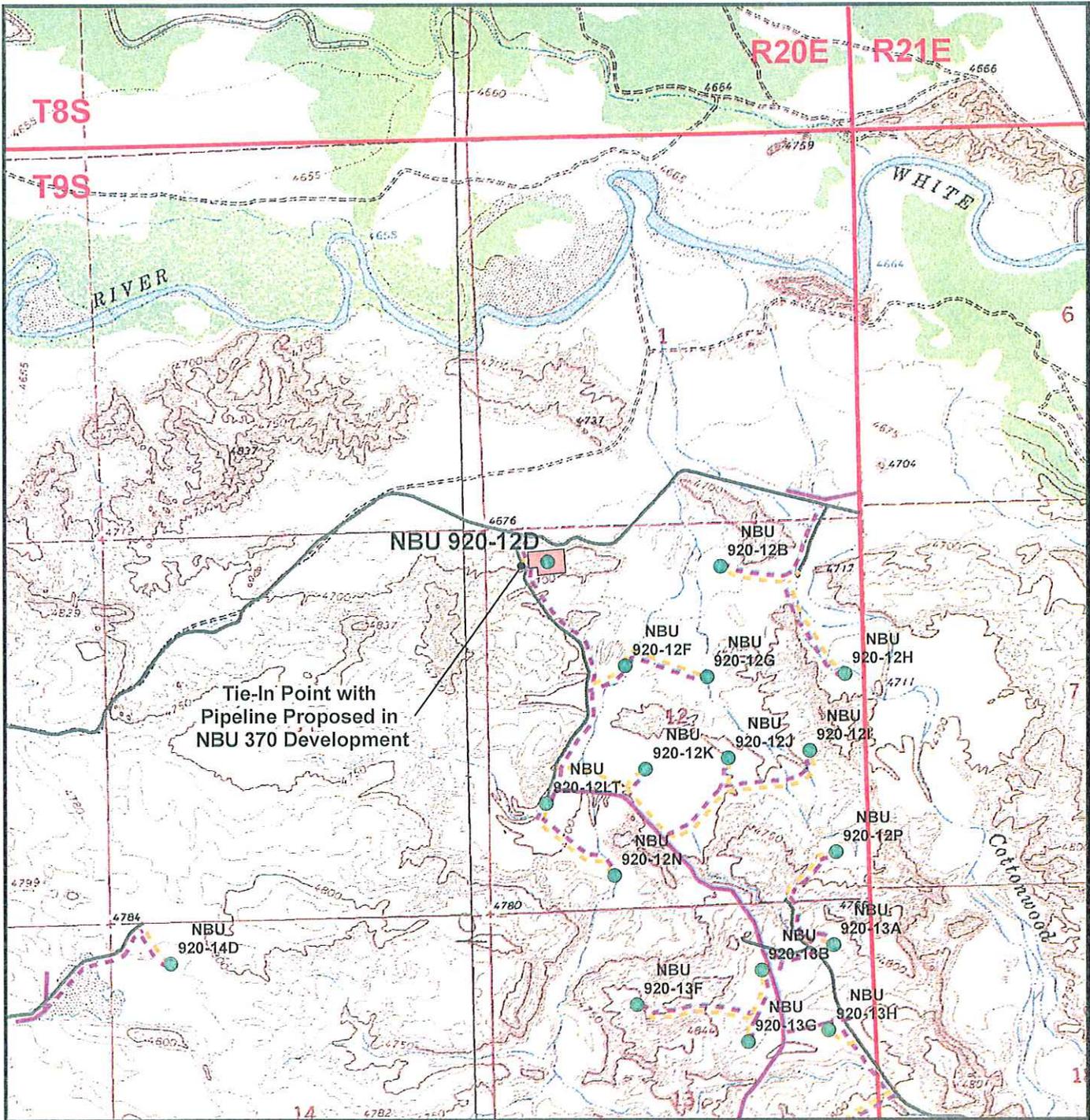
NBU 920-12D
 Topo B
 491' FNL, 857' FWL
 NW¼ NW¼, Section 12, T9S, R20E
 S.L.B.&M., Uintah County, Utah



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Scale: 1" = 2000ft	NAD83 USP Central	Sheet No: 6
Drawn: JELO	Date: 14 Aug 2008	6 of 9
Revised:	Date:	



Legend

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

Total Proposed Pipeline Length: ±332ft

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

NBU 920-12D
 Topo D
 491' FNL, 857' FWL
 NW¼ NW¼, Section 12, T9S, R20E
 S.L.B.&M., Uintah County, Utah

CONSULTING, LLC
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 Sheridan, WY 82801
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Scale: 1" = 2000ft	NAD83 USP Central	Sheet No: 8
Drawn: JELO	Date: 14 Aug 2008	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

"NBU #920-12I" (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 that are approximately 20 ft south of the proposed pipeline and well pad.	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
"NBU #920-12J" (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 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 <i>Echmatemys</i> carapace and plastron were found around the sandstone. Class 3a
"NBU #920-12K" (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 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 <i>Echmatemys</i> carapace and plastron were found around the sandstone. Class 3a
"NBU #920-13A" (Sec. 13, T 9 S, R 20, E)	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 <i>Echmatemys</i> that were loosely associated to each other. Class 3a
"NBU #920-13B" (Sec. 13, T 9 S, R 20, E)	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 <i>Echmatemys</i> carapace and plastron. Class 3a
"NBU #920-13H" (Sec. 13, T 9 S, R 20, E)	The proposed access road, pipeline, and well pad are staked on flat ground that is covered by colluvium.	No fossils were found. Class 3a

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 the 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.

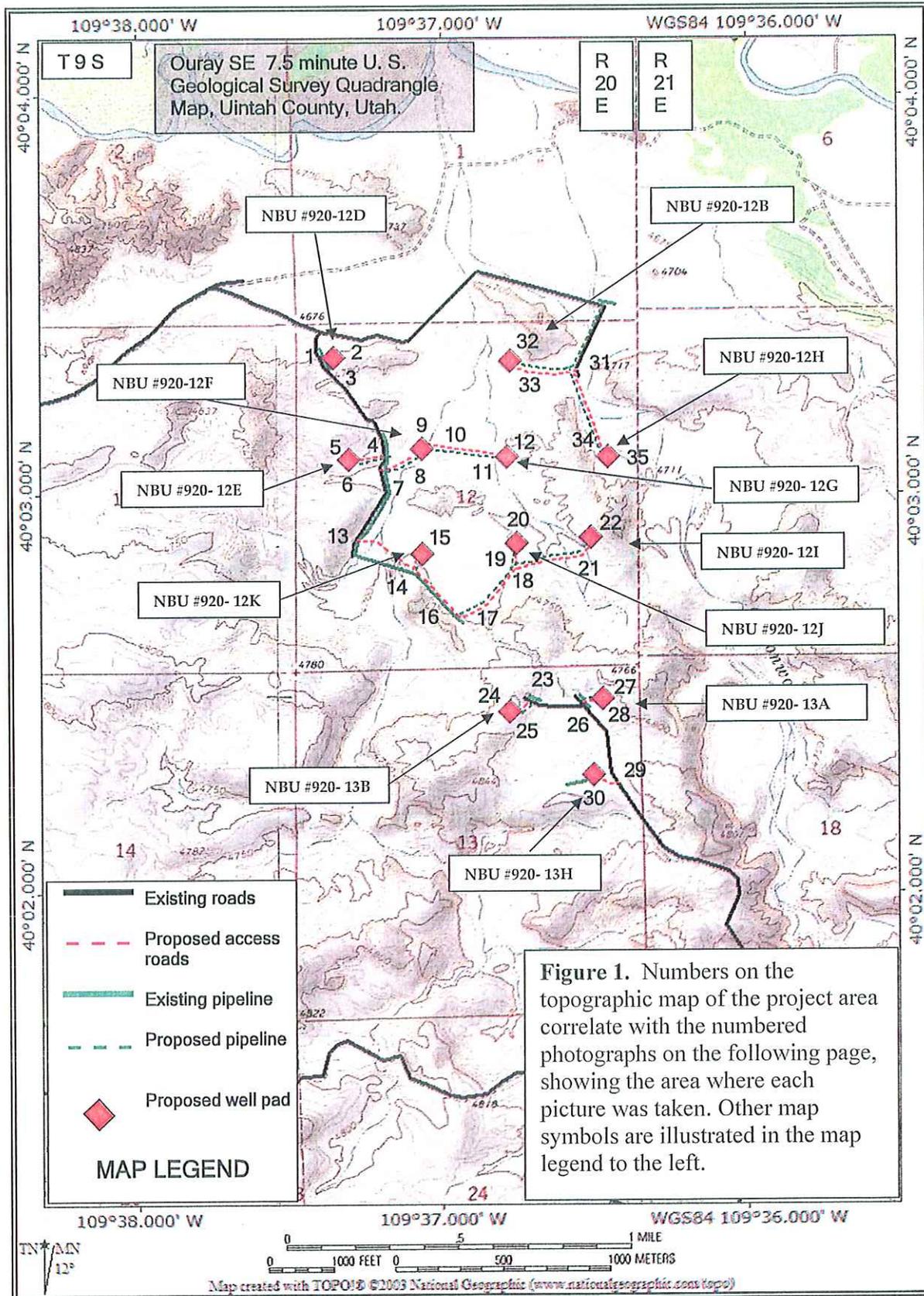


Figure 1. *continued...*

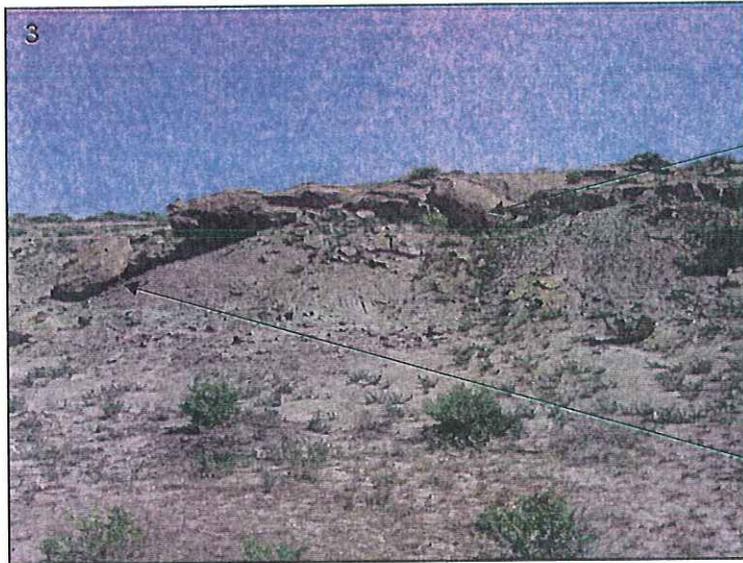
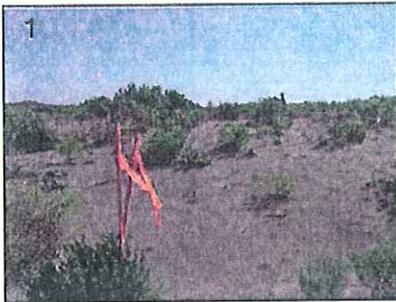


Figure 1. *continued...*

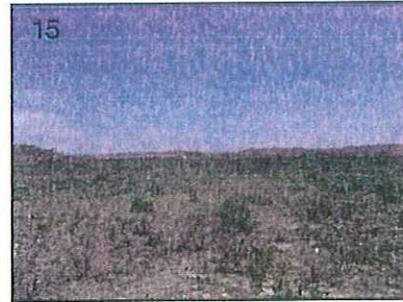
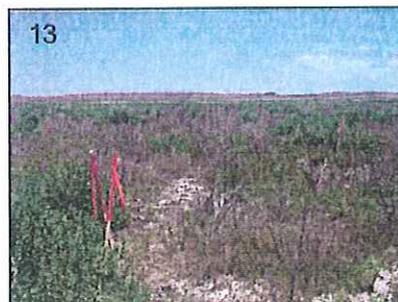
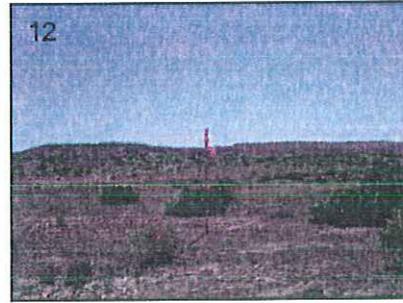
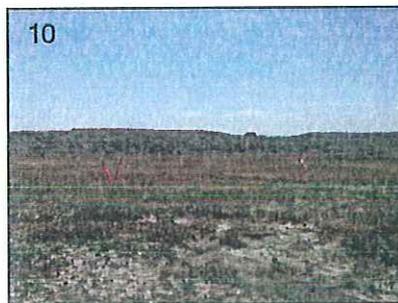
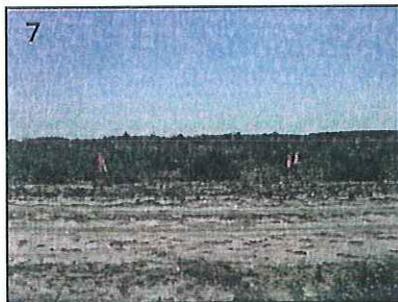
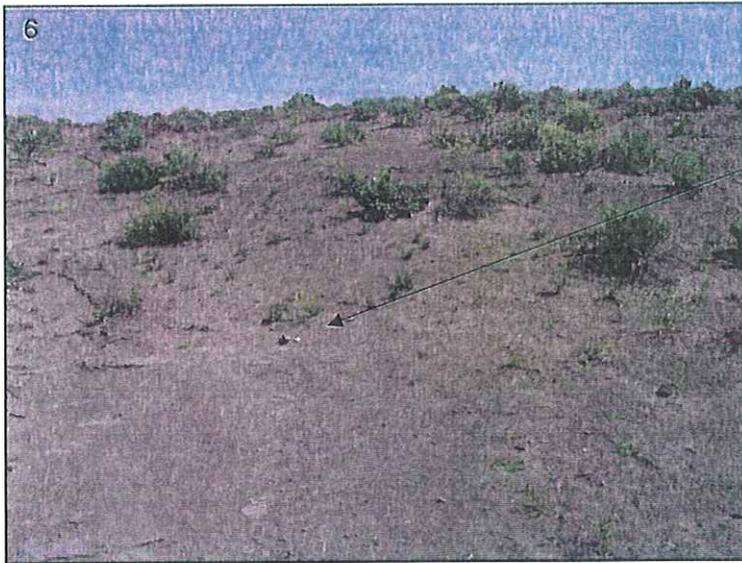


Figure 1. *continued...*

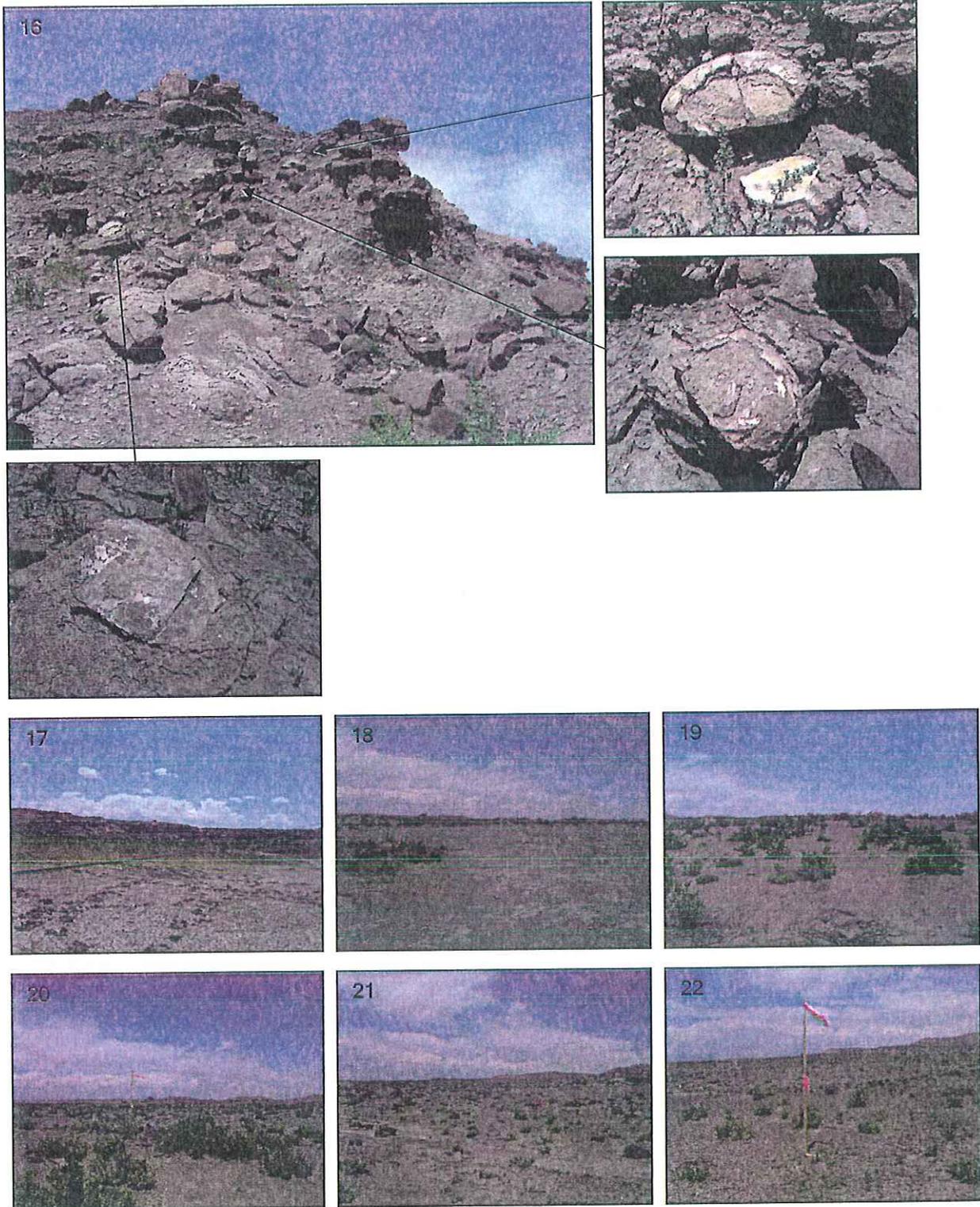


Figure 1. *continued...*

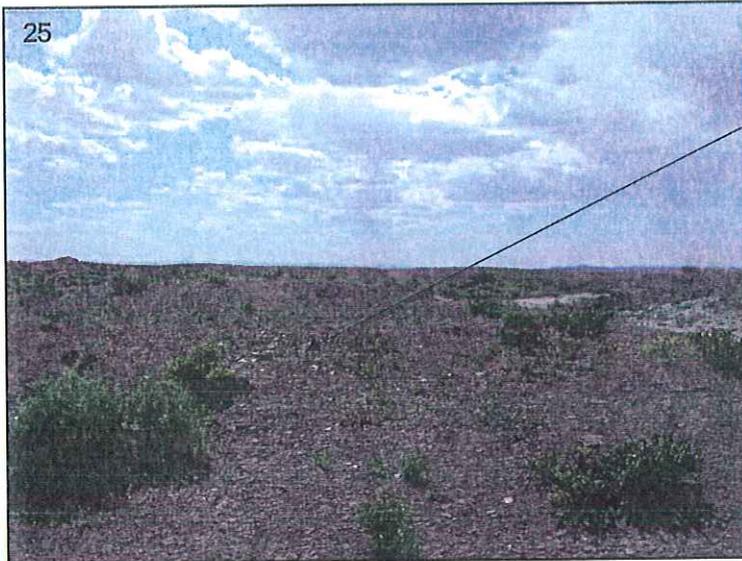
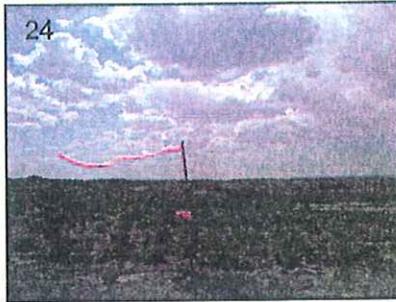
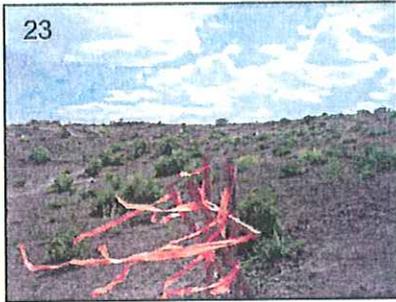


Figure 1. *continued...*



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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)

October 1, 2008

Memorandum

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

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2008 within the Natural Buttes Unit, Uintah County, Utah.

API #	WELL NAME	LOCATION
(Proposed PZ WASATCH-MESA VERDE)		
43-047-50157	NBU 920-13F	Sec 13 T09S R20E 1321 FNL 1950 FWL
43-047-40380	NBU 920-13D	Sec 13 T09S R20E 0186 FNL 0807 FWL
43-047-50163	NBU 920-12E	Sec 12 T09S R20E 2080 FNL 0747 FWL
43-047-50151	NBU 920-13G	Sec 13 T09S R20E 1907 FNL 1782 FEL
43-047-50160	NBU 920-12D	Sec 12 T09S R20E 0491 FNL 0857 FWL
43-047-50164	NBU 920-13A	Sec 13 T09S R20E 0625 FNL 0586 FEL
43-047-50165	NBU 1022-27C	Sec 27 T10S R22E 0922 FNL 2341 FWL

(Proposed PZ MESA VERDE)

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

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

/s/ Michael L. Coulthard

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

MCoulthard:mc:10-1-08

API Number: 4304750160

Well Name: NBU 920-12D

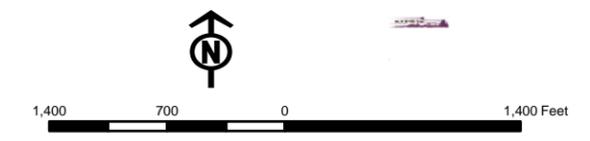
Township 09.0 S Range 20.0 E Section 12

Meridian: SLBM

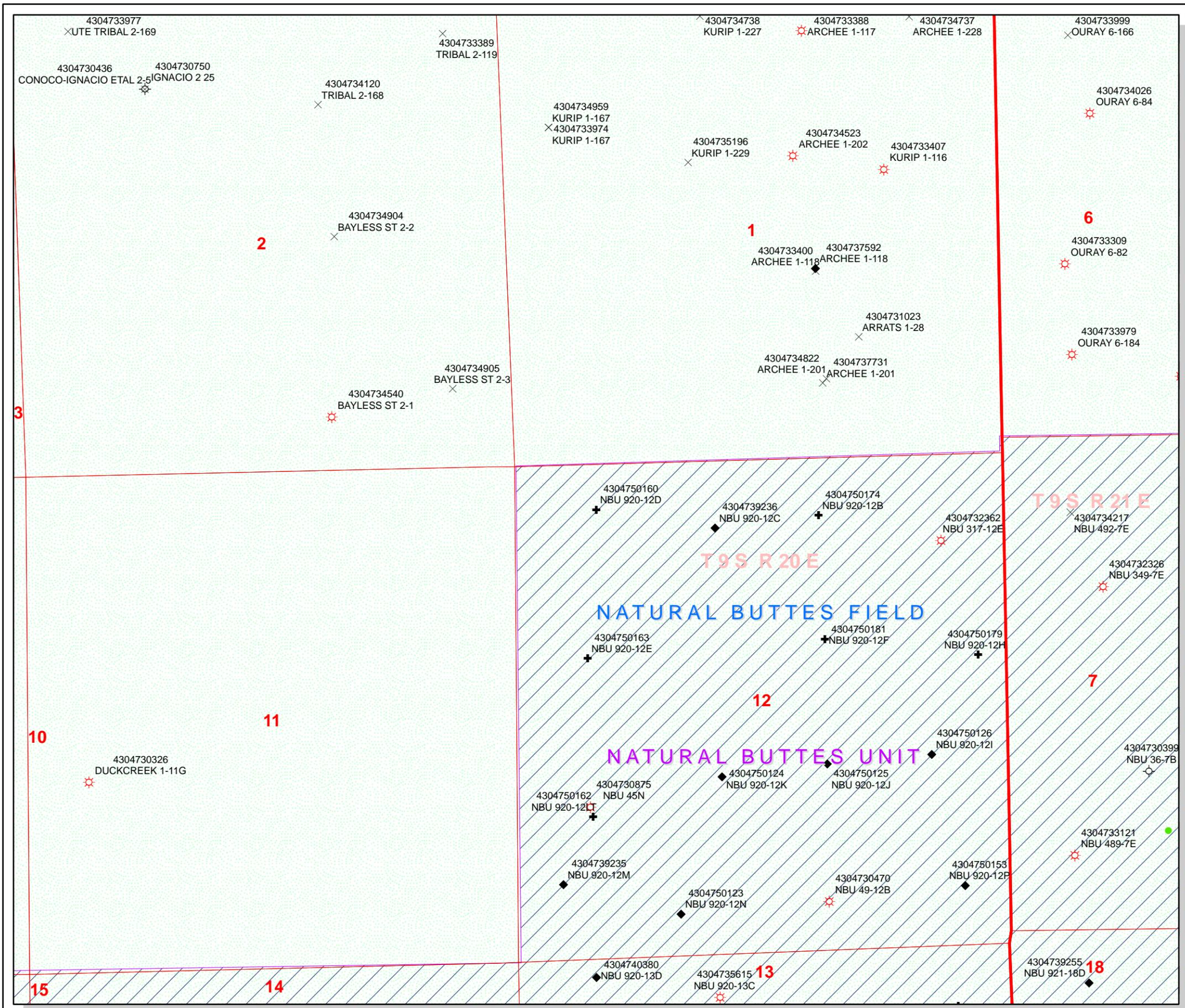
Operator: KERR-MCGEE OIL & GAS ONSHORE, L.P.

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



1:13,066



WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 10/1/2008

API NO. ASSIGNED: 43047501600000

WELL NAME: NBU 920-12D

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

PHONE NUMBER: 720 929-6226

CONTACT: Kevin McIntyre

PROPOSED LOCATION: NWNW 12 090S 200E

Permit Tech Review:

SURFACE: 0491 FNL 0857 FWL

Engineering Review:

BOTTOM: 0491 FNL 0857 FWL

Geology Review:

COUNTY: UINTAH

LATITUDE: 40.05588

LONGITUDE: -109.62087

UTM SURF EASTINGS: 617631.00

NORTHINGS: 4434660.00

FIELD NAME: NATURAL BUTTES

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU-0144868B

PROPOSED FORMATION: MVRD

SURFACE OWNER: 2 - Indian

COALBED METHANE: NO

RECEIVED AND/OR REVIEWED:

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

LOCATION AND SITING:

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

Comments: Presite Completed

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



JON M. HUNTSMAN, JR.
Governor

GARY R. HERBERT
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

Well Name: NBU 920-12D

API Well Number: 43047501600000

Lease Number: UTU-0144868B

Surface Owner: INDIAN

Approval Date: 10/22/2008

Issued to:

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

Authority:

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

Duration:

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

General:

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

Conditions of Approval:

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

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

Notification Requirements:

Notify the Division with 24 hours of spudding the well.

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

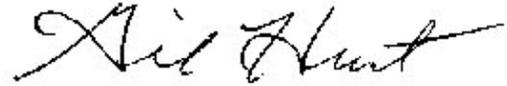
Notify the Division prior to commencing operations to plug and abandon the well.

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

Reporting Requirements:

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

Approved By:

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

Gil Hunt
Associate Director, Oil & Gas

RECEIVED
VERNAL FIELD OFFICE

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

SEP 11 2 PM 1 04
DEPT OF THE INTERIOR
BUREAU OF LAND MGMT

1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. UTU-0144868B
1b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name Ute
2. Name of Operator Kerr-McGee Oil & Gas Onshore, LP		7. If Unit or CA Agreement, Name and No. 891008900A
3a. Address P.O. Box 173779, Denver, CO 80217-3779	3b. Phone No. (include area code) 720.929.6226	8. Lease Name and Well No. NBU 920-12D
4. Location of Well (Report location clearly and in accordance with any State requirements.)* At surface NWNW 491' FNL & 857' FWL LAT 40.05595 LON -109.6209 (NAD 27) At proposed prod. zone N/A		9. API Well No. 43-047-5060
14. Distance in miles and direction from nearest town or post office* 6.7 miles southeast of Ouray, Utah		10. Field and Pool, or Exploratory Natural Buttes Field
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 491'	16. No. of acres in lease 600	11. Sec., T. R. M. or Blk. and Survey or Area Sec. 12, T 9S, R 20E
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 2000'	19. Proposed Depth 10,850'	12. County or Parish Uintah
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 4707' GL	22. Approximate date work will start*	13. State UT
23. Estimated duration 10 days		

24. Attachments

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

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

25. Signature 	Name (Printed/Typed) Kevin McIntyre	Date 09/24/2008
Title Regulatory Analyst I		
Approved by (Signature) 	Name (Printed/Typed) Stephanie J Howard	Date 9/2/09
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)

RECEIVED
SEP 15 2009

DIV. OF OIL, GAS & MINING

09JMO068A
NOTICE OF APPROVAL
UDDGM

No NOS
Posted: 10-20-2008

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) 781-4401



CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company:	Kerr McGee Oil & Gas Onshore LP	Location:	SWNW, Sec. 12, T9S R20E
Well No:	NBU 920-12D	Lease No:	UTU-0144868-B
API No:	43-047-50163 0	Agreement:	Natural Buttes Unit

OFFICE NUMBER: (435) 781-4400

OFFICE FAX NUMBER: (435) 781-3420

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

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

NOTIFICATION REQUIREMENTS

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

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

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

SITE SPECIFIC CONDITIONS OF APPROVAL

- Paint facilities "shadow gray."
- Monitoring by a permitted paleontologist during the construction process.
- Avoid archaeological site. Monitor location by a permitted archaeologist during the construction process.
- Utilize pit-run/gravel for well pad and access road support.
- Construction of the pipeline is dependent upon issuance of and approved ROW.
- If project construction operations are scheduled to occur after December 31, 2009, KMG will conduct additional raptor surveys in accordance with the guidelines specified in the Utah Field Office Guidelines for Raptor Protection for Human and Land Use Disturbances, 2002 and conduct its operations according to applicable seasonal restrictions and spatial offsets.
- If project construction operation are scheduled to occur after April 20, 2010, KMG will conduct additional biological surveys in accordance with the guidelines specified I the USFWS Rare Plant Conservation Measures for Uinta Basin hookless cactus and conduct its operation according to its specifications.

General Conditions of Approval:

- A 30' foot corridor right-of-way shall be approved. Upon completion of each pipeline in corridor, they shall be identified and filed with the Ute Tribe.
- A qualified Archaeologist accompanied by a Tribal Technician will monitor trenching construction of pipeline.
- The Ute Tribe Energy & Minerals Department is to be notified, in writing 48 hours prior to construction of pipeline.

- Construction Notice shall be given to the department on the Ute Tribe workdays, which are Monday through Thursday. The Company understands that they may be responsible for costs incurred by the Ute Tribe after hours.
- The Company shall inform contractors to maintain construction of pipelines within the approved ROW's.
- The Company shall assure the Ute Tribe that "ALL CONTRACTORS, INCLUDING SUB-CONTRACTORS, LEASING CONTRACTORS, AND ETC." have acquired a current and valid Ute Tribal Business License and have "Access Permits" prior to construction, and will have these permits in all vehicles at all times.
- You are hereby notified that working under the "umbrella" of a company does not allow you to be in the field, and can be subject to those fines of the Ute Tribe Severance Tax Ordinance.
- Any deviation of submitted APD's and ROW applications the Companies will notify the Ute Tribe and BIA in writing and will receive written authorization of any such change with appropriate authorization.
- The Company will implement "Safety and Emergency Plan." The Company's safety director will ensure its compliance.
- All Company employees and/or authorized personnel (sub-contractors) in the field will have approved applicable APD's and/or ROW permits/authorizations on their person(s) during all phases of construction.
- All vehicular traffic, personnel movement, construction/restoration operations should be confined to the area examined and approved, and to the existing roadways and/or evaluated access routes.
- All personnel should refrain from collecting artifacts, any paleontological fossils, and from disturbing any significant cultural resources in the area.
- The personnel from the Ute Tribe Energy & Minerals Department should be notified should cultural remains from subsurface deposits be exposed or identified during construction. All construction will cease.
- All mitigative stipulations contained in the Bureau of Indian Affairs Site Specific Environmental Assessment (EA) will be strictly adhered.
- Upon completion of Application for Corridor Right-Way, the company will notify the Ute Tribe Energy & Minerals Department, so that a Tribal Technician can verify Affidavit of Completion.

**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 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 (¼, 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.	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 920-12D
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047501600000
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: 0491 FNL 0857 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNW 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: 10/10/2009 <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: October 08, 2009

By: 

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



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43047501600000

API: 43047501600000

Well Name: NBU 920-12D

Location: 0491 FNL 0857 FWL QTR NWNW SEC 12 TWNP 090S RNG 200E MER S

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

Date Original Permit Issued: 10/21/2008

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

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

Approved by the Utah Division of Oil, Gas and Mining

Signature: Danielle Piernot

Date: 10/6/2009

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

Date: October 08, 2009

By: 

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 920-12D
------------------------------------	--

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047501600000
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3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6007 Ext	9. FIELD and POOL or WILDCAT: NATURAL BUTTES
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4. LOCATION OF WELL FOOTAGES AT SURFACE: 0491 FNL 0857 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNW Section: 12 Township: 09.0S Range: 20.0E Meridian: S	COUNTY: UINTAH STATE: UTAH
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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"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER:
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:			
<input checked="" type="checkbox"/> SPUD REPORT Date of Spud: 11/6/2009			
<input type="checkbox"/> DRILLING REPORT Report Date:			

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

MIRU PETE MARTIN BUCKET RIG. DRILLED 20" CONDUCTOR HOLE TO 40'.
 RAN 14" 36.7# SCHEDULE 10 PIPE. CMT W/28 SX READY MIX. SPUD WELL LOCATION ON 11/6/2009 AT 09:30 HRS.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
 November 10, 2009

NAME (PLEASE PRINT) Andy Lytle	PHONE NUMBER 720 929-6100	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 11/9/2009	

<p>STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING</p>	<p align="right">FORM 9</p>
<p>SUNDRY NOTICES AND REPORTS ON WELLS</p> <p>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.</p>	<p>5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-0144868B</p>
<p>1. TYPE OF WELL Gas Well</p>	<p>6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute</p>
<p>2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.</p>	<p>7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES</p>
<p>3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779</p>	<p>8. WELL NAME and NUMBER: NBU 920-12D</p>
<p>4. LOCATION OF WELL FOOTAGES AT SURFACE: 0491 FNL 0857 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNW Section: 12 Township: 09.0S Range: 20.0E Meridian: S</p>	<p>9. API NUMBER: 43047501600000</p>
<p>PHONE NUMBER: 720 929-6007 Ext</p>	<p>9. FIELD and POOL or WILDCAT: NATURAL BUTTES</p>
<p>COUNTY: UINTAH</p>	<p>STATE: UTAH</p>

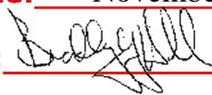
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<p><input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 11/9/2009</p> <p><input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:</p> <p><input type="checkbox"/> SPUD REPORT Date of Spud:</p> <p><input type="checkbox"/> DRILLING REPORT Report Date:</p>	<p><input type="checkbox"/> ACIDIZE</p> <p><input checked="" type="checkbox"/> CHANGE TO PREVIOUS PLANS</p> <p><input type="checkbox"/> CHANGE WELL STATUS</p> <p><input type="checkbox"/> DEEPEN</p> <p><input type="checkbox"/> OPERATOR CHANGE</p> <p><input type="checkbox"/> PRODUCTION START OR RESUME</p> <p><input type="checkbox"/> REPERFORATE CURRENT FORMATION</p> <p><input type="checkbox"/> TUBING REPAIR</p> <p><input type="checkbox"/> WATER SHUTOFF</p> <p><input type="checkbox"/> WILDCAT WELL DETERMINATION</p>	<p><input type="checkbox"/> ALTER CASING</p> <p><input type="checkbox"/> CHANGE TUBING</p> <p><input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS</p> <p><input type="checkbox"/> FRACTURE TREAT</p> <p><input type="checkbox"/> PLUG AND ABANDON</p> <p><input type="checkbox"/> RECLAMATION OF WELL SITE</p> <p><input type="checkbox"/> SIDETRACK TO REPAIR WELL</p> <p><input type="checkbox"/> VENT OR FLARE</p> <p><input type="checkbox"/> SI TA STATUS EXTENSION</p> <p><input type="checkbox"/> OTHER</p>	<p><input type="checkbox"/> CASING REPAIR</p> <p><input type="checkbox"/> CHANGE WELL NAME</p> <p><input type="checkbox"/> CONVERT WELL TYPE</p> <p><input type="checkbox"/> NEW CONSTRUCTION</p> <p><input type="checkbox"/> PLUG BACK</p> <p><input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION</p> <p><input type="checkbox"/> TEMPORARY ABANDON</p> <p><input type="checkbox"/> WATER DISPOSAL</p> <p><input type="checkbox"/> APD EXTENSION</p> <p>OTHER: </p>

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

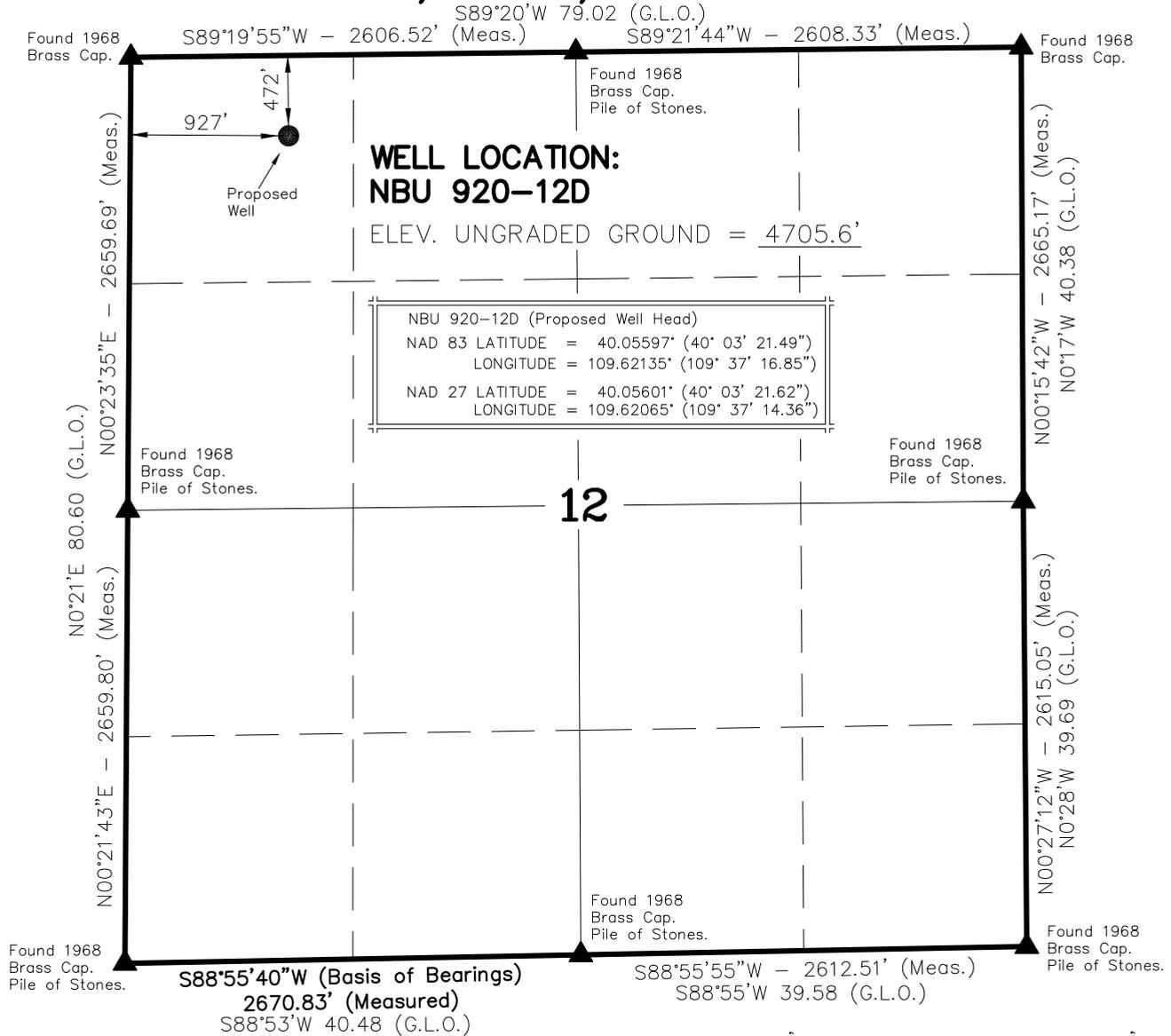
Kerr-McGee Oil & Gas Onshore LP (KMG) respectfully requests a minor change to the surface location of this well due to a new rig configuration. The surface location is changing FROM: 491' FNL 857' FWL TO: 472' FNL 927' FWL. All other information as originally submitted remains the same. No additional surface disturbance from that amount approved in the original APD is anticipated. If you have any questions, please contact the undersigned.
Thank you.

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

Date: November 12, 2009
By: 

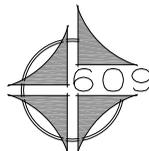
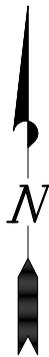
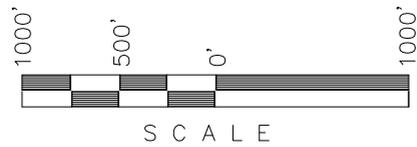
NAME (PLEASE PRINT) Danielle Piernot	PHONE NUMBER 720 929-6156	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 11/9/2009	

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



NOTES:

- ▲ = Section Corners Located
- 1. Well footages are measured at right angles to the Section Lines.
- 2. G.L.O. distances are shown in feet or chains. 1 chain = 66 feet.
- 3. Bearings are based on Global Positioning Satellite observations.
- 4. Basis of elevation is the Northwest Corner of Section 12, T9S, R20E, S.L.B.&M. The elevation of this Section Corner is shown on the Ouray SE 7.5 Min. Quadrangle as being 4676'.



SURVEYOR'S CERTIFICATE

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

John R. Slaugh
 REGISTERED LAND SURVEYOR
 REGISTRATION NO. 602869
 STATE OF UTAH

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

NBU 920-12D
WELL PLAT
472' FNL, 927' FWL
 NW ¼ NW ¼ 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

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

DATE SURVEYED: 07-30-08	SURVEYED BY: M.S.B.	SHEET 1 OF 9
DATE DRAWN: 09-17-08	DRAWN BY: J.R.S.	
SCALE: 1" = 1000'		Date Last Revised:

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

FORM 6

ENTITY ACTION FORM

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

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304750341	NBU 1021-13B3CS		NENE	13	10S	21E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
B	99999	2900	11/2/2009			11/10/09	
Comments: MIRU PETE MARTIN BUCKET RIG. <i>WSTMVD</i> SPUD WELL LOCATION ON 11/2/2009 AT 15:00 HRS. <i>BHL = NENE</i>							

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304750180	NBU 920-12G		SWNE	12	9S	20E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
B	99999	2900	11/5/2009			11/10/09	
Comments: MIRU PETE MARTIN BUCKET RIG. <i>MVRD = WSTMVD</i> SPUD WELL LOCATION ON 11/5/2009 AT 15:00 HRS.							

Well 3

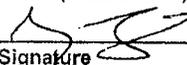
API Number	Well Name		QQ	Sec	Twp	Rng	County
4304750160	NBU 920-12D		NWNW	12	9S	20E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
B	99999	2900	11/6/2009			11/10/09	
Comments: MIRU PETE MARTIN BUCKET RIG. <i>MVRD = WSTMVD</i> SPUD WELL LOCATION ON 11/6/2009 AT 9:30 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)

ANDY LYTLE

Name (Please Print)

Signature 

REGULATORY ANALYST

11/9/2009

Title

Date

RECEIVED
NOV 09 2009

(5/2000)

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

Name of Company: KERR-McGEE OIL & GAS ONSHORE, L.P.

Well Name: NBU 920-12D

Api No: 43-047-50160 Lease Type: FEDERAL

Section 12 Township 09S Range 20E County UINTAH

Drilling Contractor PETE MARTIN DRLG RIG # BUCKET

SPUDDED:

Date 11/10/2009

Time 11:15 AM

How DRY

Drilling will Commence: _____

Reported by JAMES GOBEL

Telephone # (435) 828-7024

Date 11/10/2009 Signed CHD

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 920-12D
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2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047501600000
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3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6007 Ext	9. FIELD and POOL or WILDCAT: NATURAL BUTTES
---	--	--

4. LOCATION OF WELL FOOTAGES AT SURFACE: 0472 FNL 0927 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNW 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"/> 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: 11/10/2009	<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:

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

MIRU PROPETRO AIR RIG ON 11/8/2009. DRILLED 12-1/4" SURFACE HOLE TO 2820'. RAN 8-5/8" 28# J-55 SURFACE CASING. PUMP 130 BBLs OF H2O PUMP 20 BBLs OF GEL WATER. LEAD CMT W/350 SX CLASS G HI FILL @ 11. PPG, 3.82 YIELD. TAILED CMT W/225 SX CLASS G PREM LITE @ 15.8 PPG, 1.15 YIELD. DROP PLUG ON FLY AND DISPLACE W/168 BBLs OF 8.3# H2O 33 BBLs OF LEAD TO SURFACE W/810 PSI OF LIFT @ 5 BBLs/MIN. LAND PLUG 1100 PSI AND CHECK FLOAT. FLOAT HELD. PUMP 100 SX CLASS G PREM LITE TOP OUT @ 15.8 PPG, 1.15 YIELD CMT DOWN 1", 2 BBLs OF CMT TO SURFACE, CMT FELL BACK. WAIT 2 HRS AND PUMP 125 SX OF SAME CMT FOR TOP OUT #2. CMT TO SURFACE.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
 November 10, 2009

NAME (PLEASE PRINT) Andy Lytle	PHONE NUMBER 720 929-6100	TITLE Regulatory Analyst
SIGNATURE N/A		DATE 11/11/2009

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 920-12D
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047501600000
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: 0472 FNL 0927 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNW 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: 11/19/2009 <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 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 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: _____

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

Kerr-McGee Oil & Gas Onshore LP (KMG) respectfully requests to change the surface casing size for this well. The surface casing size is changing FROM: 9-5/8" TO: 8-5/8". Please see the attached drilling program for additional details. If you have any questions, please contact the undersigned. Thank you.

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

Date: November 18, 2009

By: *Danielle Piernot*

NAME (PLEASE PRINT) Danielle Piernot	PHONE NUMBER 720 929-6156	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 11/17/2009	



KERR-McGEE OIL & GAS ONSHORE LP
DRILLING PROGRAM

CASING PROGRAM

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS		
						BURST	COLLAPSE	TENSION
CONDUCTOR	14"	0-40'				3,390	1,880	437,000
SURFACE	8-5/8"	0 to 2885	28.00	J-55	LTC	0.75*	1.39	5.41
PRODUCTION	4-1/2"	0 to 9600	11.60	I-80	BTC	1.73	1.04	2.71
		9600 to 10850	11.60	HCP-110	LTC	2.38	1.26	23.65

*Burst on surface casing is controlled by fracture gradient as shoe with gas gradient above. D.F. = 1.87

1) Max Anticipated Surf. Press. (MASP) (Surf Csg) = (Pore Pressure at next csg point - (0.22 psi/ft-partial evac grad x TVD of next csg point))

2) MASP (Prod Casing) = Pore Pressure at TD - (0.22 psi/ft-partial evac gradient x TD)
 (Burst Assumptions: TD = 12.2 ppg) 0.22 psi/ft = gradient for partially evac wellbore
 (Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)
MASP 4,373 psi

3) Maximum Anticipated Bottom Hole Pressure (MABHP) = Pore Pressure at TD
 (Burst Assumptions: TD = 12.2 ppg) 0.62 psi/ft = bottomhole gradient
 (Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)
MABHP 6,760 psi

CEMENT PROGRAM

	FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE LEAD	500'	Premium cmt + 2% CaCl + 0.25 pps flocele	215	60%	15.60	1.18
Option 1 TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt + 2% CaCl + 0.25 pps flocele Premium cmt + 2% CaCl	260	0%	15.60	1.18
NOTE: If well will circulate water to surface, option 2 will be utilized						
SURFACE LEAD	2,385'	Prem cmt + 16% Gel + 10 pps gilsonite + 0.25 pps Flocele + 3% salt BWOC	220	35%	11.00	3.82
TAIL	500	Premium cmt + 2% CaCl + 0.25 pps flocele	150	35%	15.60	1.18
TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
PRODUCTION LEAD	4,860'	Premium Lite II + 0.25 pps celloflake + 5 pps gilsonite + 10% gel + 1% Retarder	390	40%	11.00	3.38
TAIL	5,990'	50/50 Poz/G + 10% salt + 2% gel + 0.1% R-3	1,470	40%	14.30	1.31

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

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

FLOAT EQUIPMENT & CENTRALIZERS

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe.
PRODUCTION	Float shoe, 1 jt, float collar. Centralize first 3 joints & every third joint for a total of 15 bow spring centralizers.

ADDITIONAL INFORMATION

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

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

Drop Totco surveys every 2000'. Maximum allowable hole angle is 5 degrees.

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

DRILLING ENGINEER: _____ DATE: _____
 John Huycke / Emile Goodwin

DRILLING SUPERINTENDENT: _____ DATE: _____
 John Merkel / Lovel Young

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 920-12D
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047501600000
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: 0472 FNL 0927 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNW 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: 11/30/2009 <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 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: _____

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

Kerr-McGee Oil & Gas Onshore LP (KMG) respectfully requests to change the grade of surface drilling pipe for this well. The surface pipe grade is changing FROM: J-55 LT&C TO: IJ-55 LT&C. Please see the attached drilling program for additional details. If you have any questions, please contact the undersigned. Thank you.

Accepted by the Utah Division of Oil, Gas and Mining

Date: November 25, 2009

By: *Dan K. Quist*

NAME (PLEASE PRINT) Danielle Piernot	PHONE NUMBER 720 929-6156	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 11/24/2009	



KERR-McGEE OIL & GAS ONSHORE LP
DRILLING PROGRAM

CASING PROGRAM

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS		
						BURST	COLLAPSE	TENSION
CONDUCTOR	14"	0-40'				3,390	1,880	348,000
SURFACE	8-5/8"	0 to 2885	28.00	IJ-55	LTC	0.75*	1.39	4.31
PRODUCTION	4-1/2"	0 to 9600	11.60	I-80	BTC	1.73	1.04	2.71
		9600 to 10850	11.60	HCP-110	LTC	2.38	1.26	23.65

*Burst on surface casing is controlled by fracture gradient as shoe with gas gradient above. D.F. = 1.87

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2) MASP (Prod Casing) = Pore Pressure at TD - (0.22 psi/ft-partial evac gradient x TD)
 (Burst Assumptions: TD = 12.2 ppg) 0.22 psi/ft = gradient for partially evac wellbore
 (Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)
MASP 4,373 psi

3) Maximum Anticipated Bottom Hole Pressure (MABHP) = Pore Pressure at TD
 (Burst Assumptions: TD = 12.2 ppg) 0.62 psi/ft = bottomhole gradient
 (Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)
MABHP 6,760 psi

CEMENT PROGRAM

	FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE LEAD	500'	Premium cmt + 2% CaCl + 0.25 pps flocele	215	60%	15.60	1.18
Option 1 TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt + 2% CaCl + 0.25 pps flocele Premium cmt + 2% CaCl	310	0%	15.60	1.18
NOTE: If well will circulate water to surface, option 2 will be utilized						
SURFACE LEAD	2,385'	Prem cmt + 16% Gel + 10 pps gilsonite + 0.25 pps Flocele + 3% salt BWOC	220	35%	11.00	3.82
TAIL	500	Premium cmt + 2% CaCl + 0.25 pps flocele	150	35%	15.60	1.18
TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
PRODUCTION LEAD	4,860'	Premium Lite II + 0.25 pps celloflake + 5 pps gilsonite + 10% gel + 1% Retarder	390	40%	11.00	3.38
TAIL	5,990'	50/50 Poz/G + 10% salt + 2% gel + 0.1% R-3	1,470	40%	14.30	1.31

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

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 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: _____
 John Huycke / Emile Goodwin
 DRILLING SUPERINTENDENT: _____ DATE: _____
 John Merkel / Lovel Young

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 920-12D
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047501600000
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: 0472 FNL 0927 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNW 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: 11/30/2009	<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: _____

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

FINISHED DRILLING FROM 2820' TO 10,951' ON 11/28/2009. RAN 4-1/2" 11.6# I-80 PRODUCTION CSG. PUMPED 40 BBLs WATER SPACER. CMT W/750 SX, 257 BBLs 12.6 PPG CLASS G LEAD CMT. TAILED CMT W/1468 SX CLASS G @ 14.3 PPG, 342 BBLs. DISPLACED W/169 BBLs WATER, BUMPED PLUG, FLOATS HELD. RETURNED 70 BBLs CMT TO SURFACE. N/D BOP. INSTALL PACKOFF. CLEAN PITS. RELEASE ENSIGN 145 RIG ON 11/30/2009 AT 06:00 HRS.

Accepted by the
 Utah Division of
 Oil, Gas and Mining
FOR RECORD ONLY
 December 01, 2009

NAME (PLEASE PRINT) Andy Lytle	PHONE NUMBER 720 929-6100	TITLE Regulatory Analyst
SIGNATURE N/A		DATE 12/1/2009

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
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2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047501600000
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: 0472 FNL 0927 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNW 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
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<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: 1/26/2010	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input checked="" type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
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	<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: _____

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

THE SUBJECT WELL WAS PLACED ON PRODUCTION ON 1/26/2010 AT 10:00 HRS. THE CHRONOLOGICAL WELL HISTORY WILL BE SUBMITTED WITH THE WELL COMPLETION REPORT.

Accepted by the
 Utah Division of
 Oil, Gas and Mining
FOR RECORD ONLY
 January 27, 2010

NAME (PLEASE PRINT) Andy Lytle	PHONE NUMBER 720 929-6100	TITLE Regulatory Analyst
SIGNATURE N/A		DATE 1/27/2010

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

a. 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: ANDY LYTLE
 Email: andrew.lytle@anadarko.com

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

3. Address **P.O. BOX 173779 DENVER, CO 80217** 3a. Phone No. (include area code)
 Ph: 720-929-6100

9. API Well No.
43-047-50160

4. Location of Well (Report location clearly and in accordance with Federal requirements)*
 At surface **NWNW 472FNL 927FWL 40.05601 N Lat, 109.62065 W Lon**
 At top prod interval reported below **NWNW 472FNL 927FWL 40.05601 N Lat, 109.62065 W Lon**
 At total depth **675 FNL 953 FWL NWNW 472FNL 927FWL 40.05601 N Lat, 109.62065 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 **11/06/2009** 15. Date T.D. Reached **11/28/2009** 16. Date Completed
 D & A Ready to Prod. **01/26/2010**

17. Elevations (DF, KB, RT, GL)*
4707 GL

18. Total Depth: MD **10951** TVD **10946** 19. Plug Back T.D.: MD **10895** TVD **10890** 20. Depth Bridge Plug Set: MD **10895** TVD **10890**

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
CHI TRIPLE COMBO CBL/CCL/GR IRATE 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 Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
20.000	14.000 STEEL	36.7		40		28			
11.000	8.625 J-55	28.0		2798		800			
7.875	4.500 I-80	11.6		10938		2218			

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	9941							

25. Producing Intervals 26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) WASATCH	7530	8336	7530 TO 8336	0.360	122	OPEN
B) MESAVERDE	8570	10588	8570 TO 10588	0.360	243	OPEN
C)						
D)						

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

Depth Interval	Amount and Type of Material
7530 TO 8336	PMP 3,277 BBLs SLICK H2O & 151,056 LBS 30/50 SD.
8570 TO 10588	PMP 7,039 BBLs SLICK H2O & 265,365 LBS 30/50 SD.

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
01/26/2010	02/01/2010	24	→	0.0	2824.0	360.0			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 1884	2463.0	→	0	2824	360		PGW	

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg.	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 #81955 VERIFIED BY THE BLM WELL INFORMATION SYSTEM
**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ****

RECEIVED
MAR 01 2010

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	1846				
MAHOGANY	2675				
WASATCH	5376	8551			
MESAVERDE	8554	10806			

32. Additional remarks (include plugging procedure):

ATTACHED TO THIS WELL COMPLETION REPORT IS THE CHRONOLOGICAL WELL HISTORY AND FINAL SURVEY.

33. Circle enclosed attachments:

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

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

**Electronic Submission #81955 Verified by the BLM Well Information System.
For KERR-MCGEE OIL&GAS ONSHORE, LP, sent to the Vernal**

Name (please print) ANDY LYTLE Title REGULATORY ANALYST

Signature  (Electronic Submission) Date 02/25/2010

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.

1 General

1.1 Customer Information

Company	US ROCKIES REGION
Representative	
Address	

1.2 Well Information

Well	NBU 920-12D	Wellbore No.	OH
Well Name	NBU 920-12D	Common Name	NBU 920-12D
Project	UTAH-UINTAH	Site	NBU 920-12D
Vertical Section Azimuth		North Reference	True
Origin N/S		Origin E/W	
Spud Date	11/8/2009	UWI	NW/NW/0/9/S/20/E/12/0/0/26/PM/N/472.00/W/0 /927.00/0/0
Active Datum	RKB @4,720.00ft (above Mean Sea Level)		

2 Survey Name

2.1 Survey Name: Survey #1

Survey Name	Survey #1	Company	PROPETRO
Started	11/8/2009	Ended	11/14/2009
Tool Name	INC	Engineer	Anadarko

2.1.1 Tie On Point

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

2.1.2 Survey Stations

Date	Type	MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Build (°/100ft)	Turn (°/100ft)	TFace (°)
11/8/2009	Tie On	9.00	0.00	0.00	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/9/2009	NORMAL	1,849.00	0.75		1,848.95	12.04	0.00	12.04	0.04	0.04	0.00	0.00
11/10/2009	NORMAL	2,719.00	1.50		2,718.77	29.12	0.00	29.12	0.09	0.09	0.00	0.00

2.2 Survey Name: Survey #2

Survey Name	Survey #2	Company	Extreme
Started	11/16/2009	Ended	
Tool Name	EM	Engineer	Anadarko

2.2.1 Tie On Point

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)
2,700.00	0.50	193.64	2,699.63	-17.01	25.49

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 (°)
11/16/2009	Tie On	2,700.00	0.50	193.64	2,699.63	-17.01	25.49	-17.01	0.00	0.00	0.00	0.00
11/18/2009	NORMAL	2,863.00	1.30	179.00	2,862.61	-19.55	25.35	-19.55	0.51	0.49	-8.98	336.56
	NORMAL	2,903.00	2.30	196.70	2,902.59	-20.77	25.13	-20.77	2.83	2.50	44.25	38.11
	NORMAL	2,953.00	2.40	199.20	2,952.55	-22.72	24.50	-22.72	0.29	0.20	5.00	46.96
	NORMAL	3,044.00	2.50	200.90	3,043.46	-26.38	23.16	-26.38	0.14	0.11	1.87	36.86
	NORMAL	3,144.00	2.60	198.00	3,143.36	-30.57	21.69	-30.57	0.16	0.10	-2.90	306.32
	NORMAL	3,219.00	2.50	188.70	3,218.29	-33.80	20.91	-33.80	0.57	-0.13	-12.40	251.80
	NORMAL	3,309.00	2.60	188.30	3,308.20	-37.77	20.32	-37.77	0.11	0.11	-0.44	349.71
	NORMAL	3,400.00	3.00	184.70	3,399.09	-42.18	19.83	-42.18	0.48	0.44	-3.96	334.46
	NORMAL	3,491.00	2.70	177.60	3,489.98	-46.70	19.72	-46.70	0.51	-0.33	-7.80	226.13
11/19/2009	NORMAL	3,581.00	2.60	183.50	3,579.88	-50.85	19.69	-50.85	0.32	-0.11	6.56	113.06
	NORMAL	3,672.00	2.40	181.20	3,670.80	-54.82	19.52	-54.82	0.25	-0.22	-2.53	205.49
	NORMAL	3,762.00	2.70	187.90	3,760.71	-58.80	19.19	-58.80	0.47	0.33	7.44	48.20
	NORMAL	3,853.00	2.70	183.30	3,851.61	-63.06	18.77	-63.06	0.24	0.00	-5.05	267.70
	NORMAL	3,943.00	2.80	187.00	3,941.50	-67.36	18.38	-67.36	0.23	0.11	4.11	62.46
	NORMAL	4,040.00	2.50	187.70	4,038.40	-71.81	17.81	-71.81	0.31	-0.31	0.72	174.19
	NORMAL	4,125.00	2.50	188.60	4,123.32	-75.48	17.28	-75.48	0.05	0.00	1.06	90.45
	NORMAL	4,215.00	2.90	191.30	4,213.22	-79.65	16.54	-79.65	0.47	0.44	3.00	18.99
	NORMAL	4,306.00	2.70	187.00	4,304.11	-84.04	15.83	-84.04	0.32	-0.22	-4.73	224.27
	NORMAL	4,396.00	2.50	187.80	4,394.02	-88.09	15.31	-88.09	0.23	-0.22	0.89	170.11
	NORMAL	4,487.00	2.60	186.20	4,484.93	-92.10	14.82	-92.10	0.13	0.11	-1.76	323.75
	NORMAL	4,578.00	2.40	187.80	4,575.84	-96.04	14.33	-96.04	0.23	-0.22	1.76	161.56
	NORMAL	4,668.00	2.60	185.00	4,665.76	-99.94	13.90	-99.94	0.26	0.22	-3.11	327.19
	NORMAL	4,759.00	2.80	183.10	4,756.65	-104.22	13.60	-104.22	0.24	0.22	-2.09	334.94
	NORMAL	4,849.00	2.40	183.20	4,846.56	-108.30	13.38	-108.30	0.44	-0.44	0.11	179.40
	NORMAL	4,937.00	2.40	176.30	4,934.48	-111.97	13.39	-111.97	0.33	0.00	-7.84	266.55
	NORMAL	5,027.00	2.50	177.00	5,024.40	-115.82	13.62	-115.82	0.12	0.11	0.78	17.01
	NORMAL	5,118.00	2.00	181.10	5,115.33	-119.38	13.69	-119.38	0.58	-0.55	4.51	164.20
	NORMAL	5,299.00	2.20	175.50	5,296.21	-126.01	13.90	-126.01	0.16	0.11	-3.09	311.44
	NORMAL	5,390.00	1.60	175.60	5,387.16	-129.01	14.14	-129.01	0.66	-0.66	0.11	179.73
11/20/2009	NORMAL	5,480.00	1.70	173.20	5,477.12	-131.59	14.39	-131.59	0.14	0.11	-2.67	324.15
	NORMAL	5,571.00	1.70	160.40	5,568.08	-134.20	15.00	-134.20	0.42	0.00	-14.07	263.60
	NORMAL	5,662.00	1.80	163.50	5,659.04	-136.85	15.86	-136.85	0.15	0.11	3.41	44.99
	NORMAL	5,752.00	2.30	163.50	5,748.98	-139.93	16.78	-139.93	0.56	0.56	0.00	0.00
	NORMAL	5,843.00	2.10	168.60	5,839.92	-143.32	17.62	-143.32	0.31	-0.22	5.60	138.14
	NORMAL	5,933.00	2.20	170.40	5,929.85	-146.64	18.24	-146.64	0.13	0.11	2.00	34.93
	NORMAL	6,024.00	2.70	162.90	6,020.77	-150.41	19.16	-150.41	0.65	0.55	-8.24	323.55
11/21/2009	NORMAL	6,117.00	2.20	160.40	6,113.68	-154.18	20.40	-154.18	0.55	-0.54	-2.69	190.82
	NORMAL	6,162.00	2.10	158.90	6,158.65	-155.77	20.99	-155.77	0.25	-0.22	-3.33	208.62
	NORMAL	6,298.00	2.30	157.80	6,294.55	-160.62	22.92	-160.62	0.15	0.15	-0.81	347.53
	NORMAL	6,389.00	2.20	158.10	6,385.48	-163.93	24.26	-163.93	0.11	-0.11	0.33	173.43
	NORMAL	6,661.00	2.10	158.80	6,657.29	-173.42	28.01	-173.42	0.04	-0.04	0.26	165.64
11/22/2009	NORMAL	6,978.00	2.10	164.70	6,974.08	-184.44	31.64	-184.44	0.07	0.00	1.86	92.95
	NORMAL	7,249.00	2.20	171.70	7,244.89	-194.37	33.70	-194.37	0.10	0.04	2.58	72.67
	NORMAL	7,464.00	1.60	165.70	7,459.77	-201.37	35.04	-201.37	0.29	-0.28	-2.79	195.36
	NORMAL	7,657.00	0.90	340.80	7,652.75	-202.55	35.21	-202.55	1.29	-0.36	90.73	178.24
	NORMAL	7,703.00	0.90	349.70	7,698.74	-201.85	35.02	-201.85	0.30	0.00	19.35	94.45
11/23/2009	NORMAL	7,797.00		352.10	7,792.74	-201.12	34.89	-201.12	0.96	-0.96	0.00	180.00
11/24/2009	NORMAL	7,924.00	0.40	308.30	7,919.74	-200.85	34.54	-200.85	0.31	0.31	0.00	308.30
	NORMAL	8,014.00	1.40	308.70	8,009.73	-199.97	33.44	-199.97	1.11	1.11	0.44	0.56
	NORMAL	8,105.00	1.40	301.80	8,100.70	-198.68	31.63	-198.68	0.19	0.00	-7.58	266.55
	NORMAL	8,195.00	1.20	293.50	8,190.68	-197.73	29.83	-197.73	0.30	-0.22	-9.22	219.18
	NORMAL	8,286.00	1.20	312.50	8,281.66	-196.71	28.25	-196.71	0.44	0.00	20.88	99.50
	NORMAL	8,377.00	1.60	325.40	8,372.63	-195.02	26.83	-195.02	0.56	0.44	14.18	44.80
	NORMAL	8,555.00	1.30	333.30	8,550.57	-191.17	24.51	-191.17	0.20	-0.17	4.44	150.23
	NORMAL	8,644.00	0.90	329.20	8,639.56	-189.66	23.70	-189.66	0.46	-0.45	-4.61	189.09
	NORMAL	8,733.00	0.80	344.20	8,728.55	-188.47	23.17	-188.47	0.27	-0.11	16.85	121.58

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 (°)
11/25/2009	NORMAL	8,823.00	0.60	349.10	8,818.54	-187.40	22.91	-187.40	0.23	-0.22	5.44	165.78
	NORMAL	8,955.00	0.40	336.00	8,950.53	-186.30	22.59	-186.30	0.17	-0.15	-9.92	203.31
	NORMAL	9,056.00	0.30	84.60	9,051.53	-185.95	22.71	-185.95	0.57	-0.10	107.52	150.16
	NORMAL	9,147.00	0.30	13.20	9,142.53	-185.70	23.00	-185.70	0.38	0.00	-78.46	234.30
	NORMAL	9,237.00	0.00	13.30	9,232.53	-185.47	23.06	-185.47	0.33	-0.33	0.00	180.00
	NORMAL	9,373.00	0.04	13.30	9,368.53	-185.42	23.07	-185.42	0.03	0.03	0.00	13.30
	NORMAL	9,464.00	0.40	13.30	9,459.53	-185.08	23.15	-185.08	0.40	0.40	0.00	0.00
11/26/2009	NORMAL	9,781.00	0.08	13.00	9,776.53	-183.79	23.45	-183.79	0.10	-0.10	-0.09	180.08
11/27/2009	NORMAL	10,400.00	1.60	169.24	10,395.45	-191.86	25.16	-191.86	0.27	0.25	25.24	157.34
	NORMAL	10,510.00	1.30	178.00	10,505.42	-194.61	25.49	-194.61	0.34	-0.27	7.96	147.86
11/28/2009	NORMAL	10,823.00	1.90	179.40	10,818.29	-203.35	25.67	-203.35	0.19	0.19	0.45	4.43

951
 128

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 920-12D	Spud Conductor: 11/6/2009	Spud Date: 11/8/2009
Project: UTAH-UINTAH	Site: NBU 920-12D	Rig Name No: PROPETRO/, ENSIGN 145/145
Event: DRILLING	Start Date: 10/29/2009	End Date: 11/30/2009
Active Datum: RKB @4,720.00ft (above Mean Sea Level) UWI: N/W/NW/O/S/S/20/E/12/O/O/26/PM/N/472.00/W/O/927.00/O/O		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
11/8/2009	12:00 - 15:30	3.50	MIRU	01	B	P		MOVE RIG IN, DRESS CONDUCTOR, INSTALL AIR BOWL, INSTALL BOWIE LINE, RIG UP RIG, RIG UP PUMPS. P/U AIR HAMMER
	15:30 - 17:30	2.00	MAINT	07	A	P		CHANGE MAIN WINCH LINE, SERVICE TOP DRIVE.
	17:30 - 18:30	1.00	DRLSUR	02	A	P		AIR SPUD 11/08/2009 17:30, AIR HAMMER 44'- 120'
	18:30 - 19:30	1.00	DRLSUR	06	A	P		P/U BHA #1, HC507Z SN 7015010 (2ND RUN) HUNTING MOTOR 1.50 BENT HOUSING MOTOR SN 8049 (2 ND RUN)
	19:30 - 0:00	4.50	DRLSUR	02	B	P		DRILL FROM 120'-790' (670', 148'/HR) WOB 5-20K RPM 45, MOTOR RPM 104, GPM 650, ON/OFF PSI-1300/1600, UP/DOWN/ROT= 57/55/57
11/9/2009	0:00 - 12:00	12.00	DRLSUR	02	B	P		DRILL 790'- 1900' (1110', 93'/HR) WOB 20K RPM 45, MOTOR RPM 104, GPM 650, ON/OFF PSI-1400/1700 UP/DOWN/ROT=68/66/67 FULL CIRC.W NO LOSS. CIRC RESERVE. NO AIR
	12:00 - 12:30	0.50	DRLSUR	10	A	P		CLEAN HOLE AND WIRELINE SURVEY= 3/4 DEGREE. INC. ONLY.
	12:30 - 0:00	11.50	DRLSUR	02	B	P		DRILL 1900'-2820' (920', 80'/HR) TD 11/9/2009 23:59 WOB 22K, RPM 45, MOTOR RPM 104, GPM 650, ON/OFF PSI 1500/1800 UP/DOWN/ROT 72/70/68 FULL CIRC. WITH NO LOSS. NO WATER GAIN. CIRC RESERVE. NO AIR
11/10/2009	0:00 - 1:00	1.00	CSG	05	F	P		CLEAN HOLE W/ AIR. FULL RETURNS WHILE CIRC. RESERVE PIT.
	1:00 - 1:30	0.50	DRLSUR	10	A	P		WIRELINE SURVEY W/ SINGLESLOT. 2710'= 1.5 DEGREES. INC ONLY
	1:30 - 5:00	3.50	CSG	06	D	P		LDDS, LDBHA.
	5:00 - 7:30	2.50	CSG	12	C	P		RUN 68 JTS OF 8-5/8" 28# J-55 CSG W/ LTC 8RD THREADS AND LAND @ 2790' KB, BAFFLE PLATE RAN IN TOP OF SHOE JT 2748' KB. FILL PIPE @ 1000' AND WHEN STARTING TO FILL CSG @ 2000' DRILLER NOTICED WHIPCHECK WAS NOT PUT ON. HE SHUT DOWN THE PUMP AND AFTER BREAKING UNION PROPETRO EMPLOYEE PLACED HAND OVER END OF CHICKSAN TO SEE IF PIPE WAS SUCKING OR BLOWING. THE SUCTION WAS SO GREAT IT SUCKED THE GLOVE OFF OF EMPLOYEES HAND AND DOWN CSG.
	7:30 - 11:30	4.00	CSG	22	O	Z		FILLED CSG OPEN ENDED TO SEE IF GLOVE WOULD FLOAT. WAITED FOR FISHING LINE AND HOOK TO SEE IF GLOVE COULD BE FISHED OUT OF CSG. AFTER SEVERAL DIFFERENT ATTEMPTS. RIGGED UP PUMP TRUCK BACK ON CSG AND PUMPED GLOVE THROUGH BAFFLE PLATE AND TO SHOE FLOAT. A GAIN OF 25-50 PSI WHEN GLOVE HIT FLOAT. PUMP 400 BBLs THROUGH CSG. NO CHANGE ON PRESSURE. 20-50 PSI INCREASE THROUGH OUT.
11:30 - 12:30	1.00	CSG	12	C	P		FINISHED RUNNING REMAINING 19 JTS OF CSG AND LANDED CSG 2790' KB. RUN 200' OF 1" DOWN BACKSIDE.	
12:30 - 13:00	0.50	RDMO	01	E	P		RIG DOWN RIG BUT HELD RIG ON LOCATION TILL PLUG DOWN ON CEMENT RIG RELEASED 11/10/2009 15:00	

US ROCKIES REGION

Operation Summary Report

Well: NBU 920-12D		Spud Conductor: 11/6/2009		Spud Date: 11/8/2009	
Project: UTAH-UINTAH		Site: NBU 920-12D		Rig Name No: PROPETRO/, ENSIGN 145/145	
Event: DRILLING		Start Date: 10/29/2009		End Date: 11/30/2009	
Active Datum: RKB @4,720.00ft (above Mean Sea Level) UWI: N/W/NW/0/9/S/20/E/12/0/0/26/PM/N/472.00/W/0/927.00/0/0					

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	13:00 - 17:30	4.50	CSG	12	E	P		TEST LINES TO 2000' PSI, PUMP 130 BBLs OF H2O , PUMP 20 BBLs OF GEL WATER. PUMP 350 (232 BBLs) SX OF 11#, 3.82 YD, 23 GAL SX HI FILL LEAC CEMENT. PUMP 225 SX (46 BBLs) OF 15.8#, 1.15 YD, 5 GAL/SK TAIL CEMENT, DROP PLUG ON FLY AND DISPLACE W/ 168 BBLs OF 8.3# H2O, 33 BBLs OF LEAD TO SURFACE W/ 810 PSI OF LIFT @ 5 BBLs/MIN. LAND PLUG 1100 PSI AND CHECK FLOAT. FLOAT HELD. PUMP 100 SX (20.4 BBLs) OF 4% CALC 15.8# 1.15 YD, 5 GAL/SK CEMENT DOWN 1" 2 BBLs OF CEMENT TO SURFACE. CEMENT FELL BACK. WAIT 2 HR AND PUMP 125 SX (25.6 BBLs) OF SAME CEMENT. CEMENT TO SUFACE.
11/14/2009	18:00 - 0:00	6.00	RDMO	01	A	P		RIG DOWN ON THE NBU 920-20N AND PREPARE TO MOVE THE RIG.
11/15/2009	0:00 - 7:00	7.00	RDMO	01	A	P		RIG DOWN AND PREPARE TO MOVE THE RIG THIS MORNING.LAY DERRICK OVER AT 01:00 AM. WAIT ON DAYLIGHT.
	7:00 - 18:00	11.00	MIRU	01	A	P		HELD DRIVER / CREW SAFETY MEETING. START MOVING THE RIG. 6.8 MILE MOVE. RODE RIG TO LOCATION, MIRU SAME. RELEASED TRUCKS 18:00 HRS.
	18:00 - 21:00	3.00	MIRU	01	A	P		HOOK UP KOOMEY LINES, FLOW LINES, FLARE LINES. CHANGE CHARGE PUMP IN HOPPER HOUSE.
	21:00 - 0:00	3.00	MIRU	08	B	Z		REPAIR IDM THAT WAS DAMAGED DURING RD.
11/16/2009	0:00 - 22:00	22.00	MIRU	08	B	Z		REPAIR IDM. REMOVE SUPPORT PINS. STRAIGHTEN BEAMS AND REINSTALL PINS. CHANGE BUSHING IN POWER SHOE.
	22:00 - 0:00	2.00	MIRU	01	A	P		RAISE THE DERRICK, CONTINUE RURT.
11/17/2009	0:00 - 9:00	9.00	MIRU	01	A	P		RURT, HOOK UP FLOW LINES, FLARE LINES, VIBRATOR HOSES, SPOOL DRILL LINE ONTO DRUM. DRESS THE FLOOR. LEVEL AND CENTER RIG OVER WELL.
	9:00 - 14:30	5.50	MIRU	15	A	P		HELD SAFETY MEETING, TEST BLIND RAMS, PIPE RAMS, FLOOR VALVES, CHOKE AND CHOKE MANIFOLD TO 250 AND 5000 PSI. TEST HYDRIL TO 250 AND 2500 PSI. TEST CASING TO 1500 PSI FOR 30 MINUTES. PERFORMED ACCUMULATOR EFFICIENCY TEST, FOUND TRASH IN THE SCREENS PREVENTING PSI BUILD UP. CLEANED AND REPAIRED .
	14:30 - 15:00	0.50	MIRU	14	B	P		INSTALL WEAR BUSHIING
	15:00 - 16:30	1.50	MIRU	07	C	P		SERVICE RIG, CHANGE OUT SAVER SUB ON TDS, CHANGE OUT DIES ON IRON ROUGHNECK, CHANGE BATTERIES IN PROXIMITY SWITCH ON TILT LINKS.
	16:30 - 19:00	2.50	MIRU	06	A	P		MAKE UP SEC. FMH3455Z PDC ON 1.5 DEG., 7/8 LOBE, 3.5 STAGE, .208 RPG MOTOR, 7 1/4" STABILIZER, NMDC, MWD/ UBHO, NMDC, 25 JTS. HWDP.
	19:00 - 19:30	0.50	MIRU	06	A	P		TIH PICKING UP SINGLE OFF RACK.
	19:30 - 20:30	1.00	MIRU	08	B	Z		REPLACE TOP SPINNER MOTOR ON IRON ROUGH NECK.
	20:30 - 23:00	2.50	MIRU	06	A	P		TIH PICKING UP SINGLES TO 1400'
	23:00 - 0:00	1.00	MIRU	08	B	Z		RELACEING BOTTOM SPINNER MOTOR ON IRON ROUGH NECK.
11/18/2009	0:00 - 13:30	13.50	DRLPRO	08	B	Z		RIG REPAIR, FINISH CHANGING OUT 3 BAD SPINNER MOTORS IN THE IRON ROUGH NECK.
	13:30 - 14:30	1.00	DRLPRO	06	A	P		FINISH PU DP. INSTALL ROTATING HEAD INSERT

US ROCKIES REGION

Operation Summary Report

Well: NBU 920-12D		Spud Conductor: 11/6/2009		Spud Date: 11/8/2009	
Project: UTAH-UINTAH		Site: NBU 920-12D		Rig Name No: PROPETRO/, ENSIGN 145/145	
Event: DRILLING		Start Date: 10/29/2009		End Date: 11/30/2009	
Active Datum: RKB @4,720.00ft (above Mean Sea Level)		UWI: NW/NW/0/9/S/20/E/12/0/0/26/PM/N/472.00/W/0/927.00/0/0			

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	14:30 - 16:00	1.50	DRLPRO	02	F	P		DRILL SHOE TRACK.
	16:00 - 17:00	1.00	DRLPRO	02	B	P		DRILL 2829'-2895' (66')
	17:00 - 17:30	0.50	DRLPRO	08	B	Z		REPAIR OVERHEATING PROBLEM IN THE VFD HOUSE, TOP DRIVE KEEPS KICKING OFF.
	17:30 - 0:00	6.50	DRLPRO	02	B	P		DRILL 2895'-3575' (680') 104.6'/HR. WOB-12-18, PP 1450-1850, SPM-120, GPM- 460, ROTARY RPM-30-40, MOTOR RPM-95,DIF PSI-200-450 MW-9.9, VIS-33 , BGG-40-250, CG 200-600
11/19/2009	0:00 - 9:30	9.50	DRLPRO	02	B	P		DRILL 3575'-4491' (916') 96.4'/HR. WOB-16-20, PP 1450-1850, SPM-120, GPM- 460, ROTARY RPM-30-40, MOTOR RPM-95,DIF PSI-200-450 MW-9.9, VIS-33 , BGG-40-250, CG 200-600
	9:30 - 10:30	1.00	DRLPRO	08	B	Z		REPAIR PICO, TOP DRIVE, UNABLE TO PU DRILL STRING.
	10:30 - 11:00	0.50	DRLPRO	07	A	P		SERVICE RIG, BOP DRILL DAYS 35 SEC.
	11:00 - 0:00	13.00	DRLPRO	02	B	P		DRILL 4491'-5380' (889') 68.3'/HR. WOB-16-20, PP 1750-2150, GPM- 460, ROTARY RPM-30-40, MOTOR RPM-95,DIF PSI-200-400 MW-10.3, VIS-33 , BGG-40-250, CG 200-650
11/20/2009	0:00 - 10:30	10.50	DRLPRO	02	B	P		DRILL 5380'-5933' (553') 52.6'/HR. WOB-16-20, PP 1850-2350, GPM- 460, ROTARY RPM-30-40, MOTOR RPM-95,DIF PSI-200-400 MW-10.3, VIS-33 , BGG-0-10,
	10:30 - 11:00	0.50	DRLPRO	07	A	P		SERVICE RIG.
	11:00 - 17:00	6.00	DRLPRO	02	B	P		DRILL 5933'-6090' (157') 29.1'/HR. WOB-16-20, PP 1850-2350, GPM- 460, ROTARY RPM-30-40, MOTOR RPM-95,DIF PSI-200-400 MW-10.3, VIS-33 , BGG-0-10,
	17:00 - 17:30	0.50	DRLPRO	05	C	P		CIRCLATE BOTTOMS UP.
	17:30 - 23:30	6.00	DRLPRO	06	A	P		POOH FOR BIT #2 DUE TO SLOW P-RATE. WORK AND PUMP THROUGH TIGHT SPOTS AT 2370' AND 5270'.
	23:30 - 0:00	0.50	DRLPRO	06	A	P		PU NEW 1.5 DEG, .16 RPG MOTOR AND NEW FMHX655ZM PDC. START IN THE HOLE.
11/21/2009	0:00 - 0:30	0.50	DRLPRO	06	A	P		TIH
	0:30 - 1:00	0.50	DRLPRO	08	B	Z		REPAIR HYDRAULIC LEAK ON THE IDM
	1:00 - 7:00	6.00	DRLPRO	06	A	P		FINISH IN THE HOLE.
	7:00 - 10:30	3.50	DRLPRO	02	B	P		DRILL 6090'-6253' (163') 46.5'/HR. WOB-10-12, PP 1850-2350, GPM- 460, ROTARY RPM-30-40, MOTOR RPM-73, DIF PSI-200-400 MW-10.3, VIS-33 , BGG-0-120, HIGH GAS 1200
	10:30 - 11:00	0.50	DRLPRO	07	A	P		SERVICE RIG
	11:00 - 0:00	13.00	DRLPRO	02	B	P		DRILL 6253'-6820' (567') 43.6'/HR. WOB-14-16, PP 1950-2350, GPM- 460, ROTARY RPM-30-40, MOTOR RPM-73,DIF PSI-200-400 MW-10.3, VIS-33 , BGG-10-50, CG-250-770, HIGH GAS 1230.
11/22/2009	0:00 - 11:30	11.50	DRLPRO	02	B	P		DRILL 6820'-7425' (605') 52.6'/HR. WOB-14-18, PP 1950-2350, GPM- 460, ROTARY RPM-30-40, MOTOR RPM-73,DIF PSI-200-400 MW-10.3, VIS-33 , BGG-10-50, CG-250-770, HIGH GAS 1230.
	11:30 - 12:00	0.50	DRLPRO	07	A	P		SERVICE RIG
	12:00 - 12:30	0.50	DRLPRO	02	B	P		DRILL 7425'-7438 (18') 36'/HR. WOB-14-18, PP 1950-2350, GPM- 460, ROTARY RPM-30-40, MOTOR RPM-73,DIF PSI-200-400 MW-10.4, VIS-33 , BGG-10-50, CG-250-770, HIGH GAS 1230.
	12:30 - 13:30	1.00	DRLPRO	02	B	P		SLIDE 7438'-7453' (15') TFO 340 MAG.

US ROCKIES REGION

Operation Summary Report

Well: NBU 920-12D		Spud Conductor: 11/6/2009		Spud Date: 11/8/2009	
Project: UTAH-UINTAH			Site: NBU 920-12D		Rig Name No: PROPETRO/, ENSIGN 145/145
Event: DRILLING			Start Date: 10/29/2009		End Date: 11/30/2009
Active Datum: RKB @4,720.00ft (above Mean Sea Leve			UWI: NW/NW/0/9/S/20/E/12/0/0/26/PM/N/472.00/W/0/927.00/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	13:30 - 17:00	3.50	DRLPRO	02	B	P		DRILL 7438'-7532' (94') 26.8'/HR. WOB-16-18, PP 1950-2350, GPM- 460, ROTARY RPM-30-40, MOTOR RPM-73,DIF PSI-200-400 MW-10.6, VIS-33, BGG-10-50, CG-250-450, HIGH GAS 770
	17:00 - 19:00	2.00	DRLPRO	02	B	P		SLIDE 7532'-7554' (22') TFO 340 MAG.
	19:00 - 20:30	1.50	DRLPRO	02	B	P		DRILL 7554'-7615' (61') 40.6'/HR. WOB-16-18, PP 1950-2350, GPM- 460, ROTARY RPM-30-40, MOTOR RPM-73,DIF PSI-200-400 MW-10.6, VIS-33, BGG-10-50, CG-250-450,
	20:30 - 22:30	2.00	DRLPRO	02	B	P		SLIDE 7615'-7640' (25') TFO 340-0 MAG.
	22:30 - 0:00	1.50	DRLPRO	02	B	P		DRILL 7640'-7685' (45') 30'/HR. WOB-16-18, PP 2050-2450, GPM- 460, ROTARY RPM-30-40, MOTOR RPM-73,DIF PSI-200-400 MW-10.7, VIS-37, BGG-10-50, CG-650-780
11/23/2009	0:00 - 9:00	9.00	DRLPRO	02	B	P		DRILL 7685'-7897' (212') 23.5 ' /HR. WOB-22-26, PP 2050-2450, GPM- 460, ROTARY RPM-30-40, MOTOR RPM-73,DIF PSI-200-400 MW-10.7, VIS-37, BGG-10-50, CG-650-780
	9:00 - 9:30	0.50	DRLPRO	05	C	P		CIRCULATE BOTTOMS UP. MIX AND PUMP A SLUG. PULL ONE STAND.
	9:30 - 10:30	1.00	DRLPRO	08	B	Z		REPAIR HYDRAULIC LEAK ON DERRICK LINES TO THE IDM.
	10:30 - 16:00	5.50	DRLPRO	06	A	P		FINISH OUT OF THE HOLE. LAY DOWN THE STABILIZER AND BIT. FUNCTION TEST BLIND RAMS.
	16:00 - 19:00	3.00	DRLPRO	06	A	P		MAKE UP NEW FM65D PDC ON 1.5 DEG. BH, .16 RPG MOTOR AND SCRIBE BHA. TIH TO THE SHOE.
	19:00 - 21:00	2.00	DRLPRO	09	A	P		SLIP AND CUT 63' OF DRILL LINE.
	21:00 - 22:00	1.00	DRLPRO	06	A	P		TIH
	22:00 - 23:00	1.00	DRLPRO	08	B	Z		REPLACE SPINNER MOTOR OF THE IRON ROUGH NECK. BLOWN SEALS.
	23:00 - 0:00	1.00	DRLPRO	06	A	P		CONTINUE TIH.
11/24/2009	0:00 - 2:30	2.50	DRLPRO	06	A	P		FINISH IN THE HOLE. TRIP GAS 1400 UNITS
	2:30 - 4:30	2.00	DRLPRO	02	B	P		DRILL 7897'-7978' (81') 40.5'/HR. WOB-18-20, PP 2300-2650, GPM- 460, ROTARY RPM-30-40, MOTOR RPM-73,DIF PSI-200-400 MW-10.8, VIS-37, BGG-10-50, CG-650-780
	4:30 - 6:30	2.00	DRLPRO	02	B	P		SLIDE 7978'-7998' (20') TFO 340 - 0MAG
	6:30 - 10:30	4.00	DRLPRO	02	B	P		DRILL 7998'-8199' (203') 50.7'/HR. WOB-18-24, PP 2380-2850, GPM- 460, ROTARY RPM-30-40, MOTOR RPM-73,DIF PSI-200-400 MW-11.0, VIS-37, BGG-10-50, CG-150-900
	10:30 - 11:00	0.50	DRLPRO	07	A	P		SERVICCE RIG
	11:00 - 13:00	2.00	DRLPRO	02	B	P		DRILL 8199'-8290' (91') 45.5'/HR. WOB-18-24, PP 2380-2850, GPM- 460, ROTARY RPM-30-40, MOTOR RPM-73,DIF PSI-200-400 MW-11.2, VIS-37, BGG-10-50, CG-150-900
	13:00 - 14:00	1.00	DRLPRO	02	B	P		SLIDE 8290'-8306' (16') TFO 10 - 30 MAG.
	14:00 - 0:00	10.00	DRLPRO	02	B	P		DRILL 8306'-8750' (444') 44.4'/HR. WOB-18-24, PP 2600-3100, GPM- 460, ROTARY RPM-30-40, MOTOR RPM-73,DIF PSI-200-400 MW-11.4, VIS-37, BGG-10-50, CG-200-620, HIGH GAS 1150. HOLE SEEPING 10 BBLs/HR. AT 8640', ADDED SAW DUST/CEDAR FIBER TO 2%, STOPPED SEEPAGE BY 8890', SHAKER BYPASSED, LOST A TOTAL OF 60 BBLs

US ROCKIES REGION

Operation Summary Report

Well: NBU 920-12D		Spud Conductor: 11/6/2009		Spud Date: 11/8/2009	
Project: UTAH-UINTAH		Site: NBU 920-12D		Rig Name No: PROPETRO/, ENSIGN 145/145	
Event: DRILLING		Start Date: 10/29/2009		End Date: 11/30/2009	
Active Datum: RKB @4,720.00ft (above Mean Sea Level)		UWI: NW/NW/0/9/S/20/E/12/0/0/26/PM/N/472.00/W/0/927.00/0/0			

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
11/25/2009	0:00 - 20:00	20.00	DRLPRO	02	B	P		DRILL 8750'- 9542 (792 ') 36 'HR. WOB-18-24, PF 2600-3100, GPM- 460, ROTARY RPM-30-40, MOTOR RPM-73,DIF PSI-200-400 MW-11.8, VIS-40 , BGG-10-50, CG-200-300, HIGH GAS 1278
	20:00 - 21:00	1.00	DRLPRO	05	C	P		CIRC BOTTOMS UP, PREP FOR TRIP
	21:00 - 0:00	3.00	DRLPRO	06	A	P		TRIP FOR BIT
11/26/2009	0:00 - 2:00	2.00	DRLPRO	06	A	P		TRIP FOR BIT
	2:00 - 3:00	1.00	DRLPRO	06	A	P		CHANGE OUT BIT
	3:00 - 9:30	6.50	DRLPRO	06	A	P		TIH W/ #4 BIT
	9:30 - 13:30	4.00	DRLPRO	02	B	P		DRILL 9542 - 9694 (152 ') WOB-18-24, SPP 2600-3100, GPM- 460, ROTARY RPM-30-40, MOTOR RPM-73,DIF PSI-200-400 MW-12.0, VIS-40 , BGG-10-50, CG-200-300, HIGH GAS 1480
	13:30 - 14:00	0.50	DRLPRO	07	A	P		LUBRICATE RIG
	14:00 - 0:00	10.00	DRLPRO	02	B	P		DRILL 9694- 10096 (554 ') WOB-18-24, SPP 2600-3100, GPM- 460, ROTARY RPM-30-40, MOTOR RPM-73,DIF PSI-200-400 MW-12.0, VIS-40 , BGG-10-50, CG-200-300, HIGH GAS 1520
11/27/2009	0:00 - 8:30	8.50	DRLPRO	02	B	P		DRILL 10096 TO 10403 WOB-18-24, SPP 2600-3100, GPM- 460, ROTARY RPM-30-40, MOTOR RPM-73,DIF PSI-200-400 MW-12.2, VIS-40 , BGG-10-50, CG-200-300, HIGH GAS 1520, TOOK KICK
	8:30 - 12:30	4.00	DRLPRO	05	B	P		PUT WELL ON CHOKE, CIRCULATE GAS KICK OUT MAINTAINING 1070 PSI ON DRILL PIPE RESULTING IN A 12 BBLS PIT GAIN WHEN GAS MADE IT TO SURFACE AND RAISE MUD WT FROM 12.2 TO 12.4 BG GAS 900-1100, LARGE PERCENTAGE OF GAS WAS CO2
	12:30 - 14:30	2.00	DRLPRO	05	B	P		TAKE WELL OFF CHOKE, CIRC AND RAISE MUD WT TO 12.6, 50 VIS, GAS & CO2 LAYING DOWN
	14:30 - 0:00	9.50	DRLPRO	02	B	P		DRILL 10403 TO 10686, WOB-18-24, SPP 2600-3100, GPM- 460, ROTARY RPM-30-40, MOTOR RPM-73,DIF PSI-200-400 MW-12.6, VIS-50 , BGG-193-809, CG-800, HIGH GAS 2490,
11/28/2009	0:00 - 11:00	11.00	DRLPRO	02	B	P		DRILL 10686- 10951-TD, WOB-18-24, SPP 2600-3100, GPM- 460, ROTARY RPM-30-40, MOTOR RPM-73,DIF PSI-200-400 MW-12.6, VIS-50 , BGG-193-809, CG-800, HIGH GAS 2490,
	11:00 - 13:00	2.00	DRLPRO	05	F	P		PUMP SWEEPS, CIRC 2 BOTTOMS UP, RECIPROCATING PIPE
	13:00 - 15:00	2.00	DRLPRO	06	E	P		WIPER TRIP TO 9500, LAST BIT TRIP
	15:00 - 17:00	2.00	DRLPRO	05	F	P		PUMP SWEEP, CIRC HOLE, TRIP GAS PEAK 2600, 10' FLARE
	17:00 - 0:00	7.00	DRLPRO	06	A	P		POOH & LD DRILL PIPE SINGLES
11/29/2009	0:00 - 2:00	2.00	DRLPRO	06	A	P		LD DRILL PIPE & BHA
	2:00 - 9:00	7.00	DRLPRO	11	D	P		RU LOGGERS, RUN TRIPLE COMBO, BRIDGED OUT AT 6902& COULD NOT WORK THRU, LOG OUT. RD LOGGERS
	9:00 - 10:00	1.00	DRLPRO	12	A	P		RU CASING CREW, HOLD SAFETY MEETING
	10:00 - 18:30	8.50	DRLPRO	12	C	P		RUN 35 JTS P-110 4 1/2,228 JTS 4 1/2 11.6# CSG, SHOE AT 10939.94, LAND MANDREL
	18:30 - 19:30	1.00	DRLPRO	12	B	P		RD CASERS, CIRC OUT TRIP GAS
	19:30 - 22:00	2.50	DRLPRO	12	B	P		CIRCULATE OUT TRIP GAS, RU CEMENTERS, HOLD SAFETY MEETING

US ROCKIES REGION

Operation Summary Report

Well: NBU 920-12D		Spud Conductor: 11/6/2009		Spud Date: 11/8/2009	
Project: UTAH-UINTAH		Site: NBU 920-12D		Rig Name No: PROPETRO/, ENSIGN 145/145	
Event: DRILLING		Start Date: 10/29/2009		End Date: 11/30/2009	
Active Datum: RKB @4,720.00ft (above Mean Sea Leve		UWI: NW/NW/0/9/S/20/E/12/0/0/26/PM/N/472.00/N/0/927.00/0/0			

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	22:00 - 0:00	2.00	DRLPRO	12	E	P		CEMENTING PROD CSG, PUMPED 40 BBLS WATER SPACER, 750 SX, 257 BBLS 12.6# LEAD, 1468 SX, 342 BBLS 14.3# TAIL, DISPLACED W/ 169 BBLS WATER, BUMPED PLUG, FLOATS HELD, RETURNED 70 BBLS CMT TO SURFACE.
11/30/2009	0:00 - 1:00	1.00	DRLPRO	12	E	P		CEMENTING PROD CSG, PUMPED 40 BBLS WATER SPACER, 750 SX, 257 BBLS 12.6# LEAD, 1468 SX, 342 BBLS 14.3# TAIL, DISPLACED W/ 169 BBLS WATER, BUMPED PLUG, FLOATS HELD, RETURNED 70 BBLS CMT TO SURFACE.
	1:00 - 2:00	1.00	DRLPRO	14	A	P		ND BOP, INSTALL PACK OFF
	2:00 - 6:00	4.00	DRLPRO	01	E	P		CLEAN PITS, RELEASE RIG AT 06:00

US ROCKIES REGION
Operation Summary Report

Well: NBU 920-12D	Spud Conductor: 11/6/2009	Spud Date: 11/8/2009
Project: UTAH-UINTAH	Site: NBU 920-12D	Rig Name No: MILES-GRAY 1/1
Event: COMPLETION	Start Date: 1/18/2010	End Date:
Active Datum: RKB @4,720.00ft (above Mean Sea Leve		
UWI: NW/NW/0/9/S/20/E/12/0/0/26/PM/N/472.00/W/0/927.00/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
12/7/2009	-							
1/18/2010	7:00 - 7:15	0.25	COMP	48		P		JSA-SAFETY MEETING #1, DAY 1
	7:15 - 11:00	3.75	COMP	30	A	P		ROAD RIG FROM NBU 920-20N TO LOC, MIRU, N/D WH, N/U BOPS, R/U TBG EQUIP.
	11:00 - 17:00	6.00	COMP	31	I	P		P/U 3 7/8" MILL, TIH W/ 2 3/8" TBG P/U OFF TRAILER, RIH TO @ 10000', P/O LAY DN 50 JTS, EOT @ 7800', SWI, SDFN
1/19/2010	7:00 - 7:15	0.25	COMP	48		P		JSA-SAFETY MEEETING #3, DAY 3
	7:15 - 15:00	7.75	COMP	31	I	P		TOOH W/ 2 3/8" TBG, N/D BOPS, N/U FRAC VALVE, PRESSURE TEST CSG AND FRAC VALVE TO 7000#, OK, R/U CASEHOLE SOLUCTION WIRELINE, (PERF STG #1) RIH W/ PERF GUNS, PERF THE MESAVERDE @ 10585'- 10588' 4-spf, 10510'- 10512 3-spf, 10440- 10444' 3-spf, 10310'- 10314' 3-spf, using 3 3/8" exp guns, 23gm, 0.36 HOLE, 90* PHS, 40 HOLES, SWI SDFN
1/20/2010	7:00 - 7:15	0.25	COMP	48		P		JSA-SAFETY MEETING #4 W/ FRAC PERF AND RIG CREW

US ROCKIES REGION

Operation Summary Report

Well: NBU 920-12D		Spud Conductor: 11/6/2009		Spud Date: 11/8/2009	
Project: UTAH-UINTAH		Site: NBU 920-12D		Rig Name No: MILES-GRAY 1/1	
Event: COMPLETION		Start Date: 1/18/2010		End Date:	
Active Datum: RKB @4,720.00ft (above Mean Sea Level) UWI: NW/NW/0/9/S/20/E/12/0/0/26/PM/N/472.00/W/0/927.00/0/0					

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	7:15 - 18:30	11.25	COMP	36	E	P		<p>R/U FRAC TECH, PRESSURE TEST SURFACE LINE TO 8000#, (STG #1) WHP = 1834 #, BRK DN PERF @ 4490 # @ 5 B/M, INJ-RT = 40 B/M, INJ-P = 5020 #, ISIP = 3668 # F.G.= 0.78 , PUMP 250 GAL 15% HCL AHEAD OF INJ., CALC PERF OPEN, PUMP 1481 BBLS SLK WTR & 52485# OTTAWA SAND, ISIP = 3627 #, F.G. = 0.78 , NPI = -78 #, MP = 6440 #, MR = 43.3 B/M, AP = 5045 #, AR = 42 B/M, 47485 # 30/50 OTTAWA SD, 5000 # 20/40 TLC SD, GALS NALCO SCALE INHIB, GALS NALCO BIOCID, COMMENTS = START 8:04, STOP 8:50</p> <p>(STG #2) RIH W BAKER 8K CBP AN PERF GUNS, SET THE CBP @ 10230 ' , PERF THE MESAVERDE @ 10188'- 10192' 4-SPF, 10078'- 10082' 3-SPF, 10026'- 10028' 3-SPF, 9976'- 9978' 3-SPF, USING 3 3/8" EXP GUNS, 23 gm, 0.36 HOLE, 90° PHS, 40 HOLES, WHP = 2643 #, BRK DN PERF @ 4079 # @ 2 B/M, INJ-RT = 50 B/M, INJ-P = 5586 #, ISIP = 3392 #, F.G.= 0.77 , CALC 83% PERF OPEN, PUMP 1291 BBLS SLK WTR & 48516 # OTTAWA SAND, ISIP = 3317 #, F.G.= 0.76 , NPI = -75 #, MP = 6350 #, MR = 52.2 B/M, AP = 5135 #, AR = 50 B/M, 43516 # 30/50 OTTAWA SD, 5000 # 20/40 TLC SD, GALS NALCO SCALE INHIB, GALS NALCO BIOCID, COMMENTS= LOST ONE PUMP,</p> <p>(STG #3) RIH W BAKER 8K CBP AND PERF GUNS, SET THE CBP @ 9940 ' , PERF THE MESAVERDE @ 9908'- 9910' 4-SPF, 9826'- 9830' 3-SPF, 9752'- 9754' 4-SPF, 9692'- 9696' 3-SPF, USING 3 3/8" EXP GUNS, 23 gm, 0.36 HOLE, 90° PHS, 40 HOLES, WHP = 1765 #, BRK DN PERF @ 4835 # @ 8 B/M, INJ-RT = 45 B/M, INJ-P = 5300 #, ISIP = 3004 #, F.G.= 0.74 , CALC 60% PERF OPEN, PUMP 1353 BBLS SLK WTR & 52851 # OTTAWA SAND, ISIP = 3246 #, F.G.= 0.76 , NPI = 242 #, MP = 6380 #, MR = 50.3 B/M, AP = 509 #, AR = 50 B/M, 47851 # 30/50 OTTAWA SD, 5000 # 20/40 TLC SD, GALS NALCO SCALE INHIB, GALS NALCO BIOCID, COMMENTS=</p> <p>(STG #4) RIH W BAKER 8K CBP AND PERF GUNS, SET THE CBP @ 9560 ' , PERF THE MESAVERDE @ 9514'- 9518' 3-SPF, 9408'- 9410' 4-SPF, 9340'- 9344' 3-SPF, 9266'- 9269' 3-SPF, USING 3 3/8" EXP GUNS, 23 gm, 0.36 HOLE, 90° PHS, 41 HOLES, WHP = 1645 #, BRK DN PERF @ 3640 # @ 6 B/M, INJ-RT = 45 B/M, INJ-P = 5216 #, ISIP = 2773 #, F.G.= 0.73 , CALC 68% PERF OPEN, PUMP 615 BBLS SLK WTR & 21723 # OTTAWA SAND, ISIP = 3173 #, F.G.= 0.77 , NPI = 400 #, MP = 6353 #, MR = 49.7 B/M, AP = 5040 #, AR = 45 B/M, 16723 # 30/50 OTTAWA SD, 5000 # 20/40 TLC SD, GALS NALCO SCALE INHIB, GALS NALCO BIOCID, COMMENTS=</p> <p>(STG #5) RIH W BAKER 8K CBP AND PERF GUNS, SET THE CBP @ 9198 ' , PERF THE MESAVERDE @ 9164'- 9168' 3-SPF, 9124'- 9126'</p>

US ROCKIES REGION

Operation Summary Report

Well: NBU 920-12D		Spud Conductor: 11/6/2009		Spud Date: 11/8/2009	
Project: UTAH-UINTAH		Site: NBU 920-12D		Rig Name No: MILES-GRAY 1/1	
Event: COMPLETION		Start Date: 1/18/2010		End Date:	
Active Datum: RKB @4,720.00ft (above Mean Sea Leve		UWI: NW/NW/0/9/S/20/E/12/0/0/26/PM/N/472.00/W/0/927.00/0/0			

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
								4-SPF, 9016'- 9018' 4-SPF, 8974'- 8976' 3-SPF, 8914'- 8916' 3-SPF, USING 3 3/8" EXP GUNS, 23 gm, 0.36 HOLE, 90* PHS, 40 HOLES, WHP = 1846 #, BRK DN PERF @ 3464 # @ 4 B/M, INJ-RT = 50 B/M, INJ-P = 5228 #, ISIP = 2917 #, F.G.= 0.76 , CALC 73% PERF OPEN, PUMP 905 BBLS SLK WTR & 33962 # OTTAWA SAND, ISIP = 3263 #, F.G.= 0.79 , NPI = 346 #, MP = 6420 #, MR = 52.2 B/M, AP = 5060 #, AR = 50 B/M, 28962 # 30/50 OTTAWA SD, 5000 # 20/40 TLC SD, COMMENTS= DN 1 HOUR REPAIR PUMP BEFORE PUMPING (STG #6) RIH W BAKER 8K CBP AND PERF GUNS, SET THE CBP @ 8802' , PERF THE MESAVERDE @ 8770'- 8772' 4-SPF, 8718'- 8720' 4-SPF, 8668'- 8672' 3-SPF, 8570'- 8574' 3-SPF, USING 3 3/8" EXP GUNS, 23 gm, 0.36 HOLE, 90* PHS, 40 HOLES, SHUT WELL IN, SDFN HSM, FRACING & WIRELINE
1/21/2010	7:00 - 7:15	0.25	COMP	48		P		

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 920-12D Spud Conductor: 11/6/2009 Spud Date: 11/8/2009
 Project: UTAH-UINTAH Site: NBU 920-12D Rig Name No: MILES-GRAY 1/1
 Event: COMPLETION Start Date: 1/18/2010 End Date:
 Active Datum: RKB @4,720.00ft (above Mean Sea Level) UWI: NW/NW/0/9/S/20/E/12/0/0/26/PM/N/472.00/W/0/927.00/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	7:15 - 17:00	9.75	COMP	36	E	P		FRAC STG #6 MESAVERDE 8570'-8772' [40 HOLES] STG #6] WHP=1436#, BRK DN PERFS=2820#, INJ RT=46.6, INJ PSI=4300#, ISIP=2052#, FG=.67, PUMP'D BBLS SLK WTR W/ # 30/50 MESH W/ 5000# RESIN COAT IN TAIL, ISIP=#, FG=, AR=, AP=#, MR=, MP=#, NPI=#, 68% CALC PERFS OPEN. STG #7] P/U RIH W/ BKR 8K CBP & PERF GUN, SET CBP @ 8366', PERF WASATCH USING 3-3/8 EXPEND, 23 GRM, 0.36" HOLE. 8330'-8336' 4 SPF, 90° PH, 24 HOLES. 8238'-8242' 4 SPF, 90° PH, 16 HOLES. [40 HOLES] WHP=1011#, BRK DN PERFS=2494#, INJ RT=50, INJ PSI=4300#, ISIP=1850#, FG=.66, PUMP'D 1567 BBLS SLK WTR W/ 74820# 30/50 MESH W/ 5000# RESIN COAT IN TAIL, ISIP=2815#, FG=.77, AR=51, AP=4273#, MR=51.5, MP=6280#, NPI=965#, CALC 65% PERFS OPEN. STG #8] P/U RIH W/ BKR 8K CBP & PERF GUN, SET CBP @ 8058', PERF WASATCH USING 3-3/8 EXPEND, 23 GRM, 0.36" HOLE. 8020'-8028' 4 SPF, 90° PH, 32 HOLES. 7980'-7982' 4 SPF, 90° PH, 8 HOLES. [40 HOLES] WHP=1474#, BRK DN PERFS=3417#, INJ RT=47, INJ PSI=4200#, ISIP=2372#, FG=.73, PUMP'D 1108 BBLS SLK WTR W/ 51496# 30/50 MESH W/ 5000# RESIN COAT IN TAIL, ISIP=2398#, FG=.73, AR=50.7, AP=3820#, MR=53.5, MP=6260#, NPI=26#, CALC 85% PERFS OPEN. STG #9] P/U RIH W/ BKR 8K CBP & PERF GUN, SET CBP @ 7752', PERF WASATCH USING 3-3/8 EXPEND, 23 GRM, 0.36" HOLE. 7720'-7722' 4 SPF, 90° PH, 8 HOLES. 7692'-7696' 4 SPF, 90° PH, 16 HOLES. 7530'-7536' 4 SPF, 90° PH, 18 HOLES. [42 HOLES] WHP=910#, BRK DN PERFS=3194#, INJ RT=51, INJ PSI=3630#, ISIP=2256#, FG=.73, PUMP'D 602 BBLS SLK WTR W/ 24740# 30/50 MESH W/ 5000# RESIN COAT IN TAIL, ISIP=2236#, FG=.73, AR=51.6, AP=3650#, MR=53.5, MP=6495#, NPI=20# CALC 100% PERFS OPEN. P/U RIH W/ BKR 8K CBP FOR TOP KILL, SET CBP @ 7480', POOH R/D CASED HOLE & FRAC TECH EQUIP, N/D FRAC VALVES, N/U BOPS, R/U TBG EQUIP, P/U POBS W/ MILL RIH TAG KILL PLUG @ 7480', P/U PWR SWWL PREP TO DRL OUT IN A.M SWIFN. HSM, DRLG PLUGS
1/22/2010	7:00 - 7:15	0.25	COMP	48		P		

US ROCKIES REGION

Operation Summary Report

Well: NBU 920-12D	Spud Conductor: 11/6/2009	Spud Date: 11/8/2009
Project: UTAH-UINTAH	Site: NBU 920-12D	Rig Name No: MILES-GRAY 1/1
Event: COMPLETION	Start Date: 1/18/2010	End Date:
Active Datum: RKB @4,720.00ft (above Mean Sea Level) UWI: NWNW/0/9/S/20/E/12/0/0/26/PM/N/472.00/W/0/927.00/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation										
	7:15 - 17:00	9.75	COMP	44	D	P		<p>OPEN WELL 0# SITP, 0# SICP, EST CIRC W/ RIG PUMP, DRL THROUGH KILL PLUG @ 7480' IN 38 MIN W/ 500# INCREASE.</p> <p>PLUG #2] CONTINUE TO RIH TAG SAND @ 7722', C/O & DRL THROUGH BKR 8K CBP @ 7770' IN 36 MIN W/ 500# INCREASE.</p> <p>PLUG #3] CONTINUE TO RIH TAG SAND @ 8028', C/O & DRL THROUGH BKR 8K CBP @ 8058' IN 60 MIN W/ 600# INCREASE.</p> <p>PLUG #4] CONTINUE TO RIH TAG SAND @ 8336', C/O & DRL THROUGH BKR 8K CBP @ 8366' IN 25 MIN W/ 900# INCREASE.</p> <p>PLUG #5] CONTINUE TO RIH TAG SAND @ 8772', C/O & DRL THROUGH BKR 8K CBP @ 8802' IN 30 MIN W/ 200# INCREASE.</p> <p>PLUG #6] CONTINUE TO RIH TAG SAND @ 9168', C/O & DRL THROUGH BKR 8K CBP @ 9198' IN 22 MIN W/ 700# INCREASE.</p> <p>PLUG #7] CONTINUE TO RIH TAG SAND @ 9518', C/O & DRL THROUGH BKR 8K CBP @ 9560' IN 23 MIN W/ 900# INCREASE.</p> <p>PLUG #8] CONTINUE TO RIH TAG SAND @ 9910', C/O & DRL THROUGH BKR 8K CBP @ 9940' IN 40 MIN W/ 900# INCREASE.</p> <p>PLUG #9] CONTINUE TO RIH TAG SAND @ 10192', C/O & DRL THROUGH BKR 8K CBP @ 100230' IN 38 MIN W/ 700# INCREASE.</p> <p>CONTINUE TO RIH C/O TO PBTD @ 10894' L/D 33 JNTS ON FLOAT, P/U LUBRICATE HANGER IN WELL & LAND W/ 313 JNTS 2-3/8 L-80 TBG, RD/ TBG EQUIP, N/D BOPS, N/U WELL HEAD DRP BALL PUMP OFF BIT W/ 12 BBLS @ 2000#, TURN WELL OVER TO F/B CREW</p> <p>TDG DETAIL</p> <table> <tr><td>KB</td><td>13.00</td></tr> <tr><td>HANGER</td><td>.83</td></tr> <tr><td>313 JNTS 2-3/8 L-80</td><td>9925.00</td></tr> <tr><td>PROFILE NIPPLE</td><td>2.20</td></tr> <tr><td>EOT @</td><td>9941.03</td></tr> </table>	KB	13.00	HANGER	.83	313 JNTS 2-3/8 L-80	9925.00	PROFILE NIPPLE	2.20	EOT @	9941.03
KB	13.00																	
HANGER	.83																	
313 JNTS 2-3/8 L-80	9925.00																	
PROFILE NIPPLE	2.20																	
EOT @	9941.03																	
1/23/2010	7:00 -			33	A			<p>7 AM FLBK REPORT: CP 2250#, TP 2200x#, 20/64" CK, 70 BWPH, HEAVY SAND, - GAS TTL BBLS RECOVERED: 4925 BBLS LEFT TO RECOVER: 5400</p>										
1/24/2010	7:00 -			33	A			<p>7 AM FLBK REPORT: CP 2400#, TP 2150#, 20/64" CK, 62 BWPH, HEAVY SAND, - GAS TTL BBLS RECOVERED: 6615 BBLS LEFT TO RECOVER: 3710</p>										
1/25/2010	7:00 -			33	A			<p>7 AM FLBK REPORT: CP 3175#, TP 2225#, 20/64" CK, 50 BWPH, MEDIUM SAND, - GAS TTL BBLS RECOVERED: 7938 BBLS LEFT TO RECOVER: 2387</p>										
1/26/2010	7:00 -			33	A			<p>7 AM FLBK REPORT: CP 3250#, TP 2200#, 20/64" CK, 42 BWPH, MEDIUM SAND, - GAS TTL BBLS RECOVERED: 8954 BBLS LEFT TO RECOVER: 1371</p>										

US ROCKIES REGION

Operation Summary Report

Well: NBU 920-12D	Spud Conductor: 11/6/2009	Spud Date: 11/8/2009
Project: UTAH-UINTAH	Site: NBU 920-12D	Rig Name No: MILES-GRAY 1/1
Event: COMPLETION	Start Date: 1/18/2010	End Date:
Active Datum: RKB @4,720.00ft (above Mean Sea Level) UWI: NW/NW/0/9/S/20/E/12/0/0/26/PM/N/472.00/W/0/927.00/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	10:00 -			50				WELL TURNED TO SALES @ 10:00 HR ON 1/26/2010 - FTP 2225#, CP 3250#, 1329 MCFD, 12000 BWPD, 20/64" CK
1/27/2010	7:00 -			33	A			7 AM FLBK REPORT: CP 3000#, TP 2025#, 20/64" CK, 33 BWPH, LIGHT SAND, 2.8 GAS TTL BBLS RECOVERED: 9841 BBLS LEFT TO RECOVER: 484
1/28/2010	7:00 -			33	A			7 AM FLBK REPORT: CP 3025#, TP 2025#, 20/64" CK, 27 BWPH, TRACE SAND, 2.9 GAS TTL BBLS RECOVERED: 10552 BBLS LEFT TO RECOVER: -227
2/1/2010	7:00 -		PROD	50				WELL IP'D ON 2/1/10 - 2824 MCFD, 0 BOPD, 360 BWPD, CP 2463#, FTP 1884#, CK 20/64", LP 110#, 24 HRS

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 920-12D
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047501600000
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: 0472 FNL 0927 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNW 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: 9/20/2011 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input checked="" type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 50px;" type="text"/>

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

The operator requests approval to conduct wellhead/casing repair operations on the subject well location. Please find the attached procedure for the proposed repair work on the subject well location.

Accepted by the Utah Division of Oil, Gas and Mining

Date: 09/26/2011

By: *Derek Quist*

NAME (PLEASE PRINT) Andy Lytle	PHONE NUMBER 720 929-6100	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 9/20/2011	

WORKORDER #: 88119381

Name: NBU 920-12D 7/1/2011
Surface Location: NWNW Sec. 12, T9S, R20E
 Uintah County, UT

API: 4304750160 **LEASE#:** UTU-0144868B

ELEVATIONS: 4706' GL 4720' KB

TOTAL DEPTH: 10,951' **PBTD:** 10,895'

SURFACE CASING: 8 5/8", 28# J-55 @ 2798'

PRODUCTION CASING: 4 1/2", 11.6#, I-80 @ 10,938'
 TOC @ 162' per CBL (with min 50' isolation)

PERFORATIONS: Wasatch 7530' - 8336'
 Mesaverde 8570' - 10,588'

Tubular/Borehole	Drift inches	Collapse psi	Burst psi	Capacities		
				Gal./ft.	Cuft/ft.	Bbl./ft.
2.375" 4.7# J-55 tbg.	1.901	8100	7700	0.1624	0.02171	0.00387
4.5" 11.6# I-80	3.875	6350	7780	0.6528	0.0872	0.0155
8.625" 28# J-55	8.097	1370	2950	2.6223	0.3505	0.0624
Annular Capacities						
2.375" tbg. X 4 1/2" 11.6# csg				0.4227	0.0565	0.01

GEOLOGICAL TOPS:

1846' Green River
 2675' Mahogany
 5376' Wasatch
 8554' Mesaverde

NBU 1022-9K-2T- WELLHEAD REPAIR PROCEDURE

PREP-WORK PRIOR TO MIRU:

1. Dig out down to the 2" surface casing valve or to the valve on the riser off the surface casing.
2. Install a tee with 2 valves, with a pressure gauge and sensor on one valve.
3. Open casing valve and record pressures.
4. Install nipple and steel hose on the other valve, the relief valve,. Do not use hammer unions. No impact equipment or tools to be used for any of this installation. Extend hose and hard piping to a downwind location at least 100' from the wellhead. Consider installing a manifold so that vent area could be in two locations approx. 90 degrees apart from the wellhead.
5. Open the relief valve and blow well down to the atmosphere.
6. Make a determination of amount of gas flow, either by installation of a choke nipple, bucket test or other.
7. Shut well in. Observe for rate of build-up by utilizing sensor data. Do not build-up for more than 24 hours. Vent gas through the vent line and leave open to the atmosphere.

WORKOVER PROCEDURE:

1. MIRU workover rig.
2. Kill well with 10# brine / KCL (dictated by well pressure).
3. Remove tree, install double BOP with blind and 2 3/8" pipe rams, with accumulator closing unit and manual back-ups. Function test BOP system.
4. POOH w/ tubing laying down extra tubing.
5. Rig up wireline service. RIH and set CBP @ ~7480'. Dump bail 4 sx cement on top of plug. POOH and RD wireline service. TIH w/ tubing and seating nipple. Land tubing ±60' above cement. RDMO.
6. Monitor well pressures. If surface casing is dead. MIRU. ND WH and NU BOP. POOH w/ tubing.
7. Depending on conditions at wellsite, continue with either CUT/PATCH Procedure or BACK-OFF Procedure.

CUT/PATCH PROCEDURE:

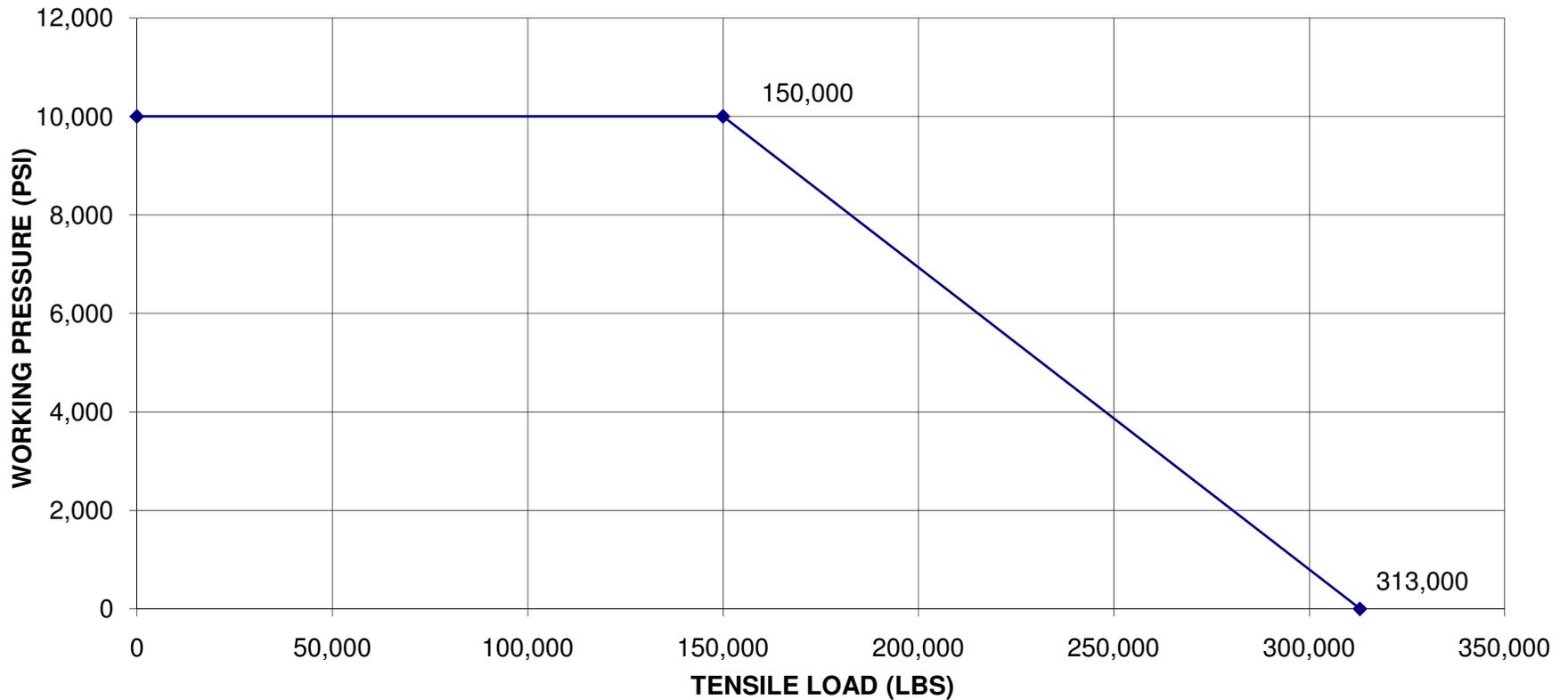
1. PU internal casing cutters and RIH. Cut casing at +/- 30' from surface.
2. POOH, LD cutters and casing.
3. PU 7 3/8" overshoot with 4 1/2" right hand standard wicker grapple, 1 - 4 3/4" drill collar with 3 1/2" IF threads, pup joint, manual bumper sub, and crossovers. If casing cut is deeper than ±30' utilize >7000 ft-lb torque pipe as needed. Pull a minimum of 10,000# to keep grapple engaged if cement top is high (<~900'). If cement top is low (>~900'), more weight will be required to put casing in neutral. Torque casing string to ±7000 ft-lbs, count number of turns to make-up, and document in the daily report. Ensure that tongs are safely anchored to rig and that all personnel are at a safe working distance from the tongs during torque-up and torque release. After initial make-up, place pipe torque to neutral and mark pipe. Place ±7000 ft-lbs on casing a second time, count turns, then return pipe torque to neutral and count turns. Repeat if torque-up turns do not equal torque release turns. Once torque-in equals torque-out, release overshoot, POOH, and lay down.
4. TIH w/ skirted mill and dress off the fish top for approximately 1/2 hour. TOO H.
5. PU & RIH w/ 4 1/2" 10k external casing patch on 4 1/2" P-110 casing. Ensure that sliding sleeve assembly shifts ±3' and casing tags no-go portion of patch. NOTE: Shear pins will shear at 3500 to 4500 lbs.
6. Latch fish, PU to 100,000# tension. RU B&C. Cycle pressure test to 3500 psi.
7. Install slips. Land casing w/ 80,000# tension.
8. Cut-off and dress 4 1/2" casing stub.
9. NUWH. PU 3 7/8" bit, POBS and RIH. D/O cement and plug ~7430'. Clean out to PBSD (10,895').
10. POOH, land tbg and pump off POBS.
11. NUWH, RDMO. Turn well over to production ops.

BACK-OFF PROCEDURE:

1. PU internal casing cutters and RIH. Cut casing at +/- 6' from surface.
2. POOH, LD cutters and casing.
3. PU 4 1/2" overshoot. RIH, latch fish. Pick string weight to neutral.
4. MIRU casing crew and wireline services. RIH and shoot string shot at casing collar @ ± 46'.
5. Back-off casing, POOH.

6. PU new casing joint with buttress threads and entry guide and RIH. Tag casing top. Thread into casing and torque up to ± 7000 ft-lbs, count number of additional turns to make-up, and document in the daily report. Ensure that tongs are safely anchored to rig and that all personnel are at a safe working distance from the tongs during torque-up and torque release. After initial make-up, place pipe torque to neutral and mark pipe. Place ± 7000 ft-lbs on casing a second time, count turns, then return pipe torque to neutral and count turns. Repeat if torque-up turns do not equal torque release turns. Once torque-in equals torque-out go to step 7.
7. PU 100,000# tension string weight. RU B&C. Cycle pressure test to 3500 psi.
8. Install slips. Land casing w/ 80,000# tension.
9. Cut-off and dress 4 1/2" casing stub.
10. NUWH. PU 3 7/8" bit, POBS and RIH. D/O cement and plug ~7430'. Clean out to PBTD (10,895').
11. POOH, land tbg and pump off POBS.
12. NUWH, RDMO. Turn well over to production ops.

**STRENGTH DATA FOR LOGAN 5.88" OD "L" TYPE CSG PATCH
4-1/2 CASING, 10K PSI MAX WP 125K YIELD MAT'L
LOGAN ASSEMBLY NO. 510L-005 -000**



COLLAPSE PRESSURE:
11,222 PSI @ 0 TENSILE
8,634 PSI @ 220K TENSILE

Tensile Strength @ Yield:
Tensile Strength w/ 0 Int. Press.= 472,791lbs.
Tensile Strength w/ 10K Int. Press.= 313,748lbs.

DATA BY SLS 11/16/2009

RECEIVED Sep. 20, 2011

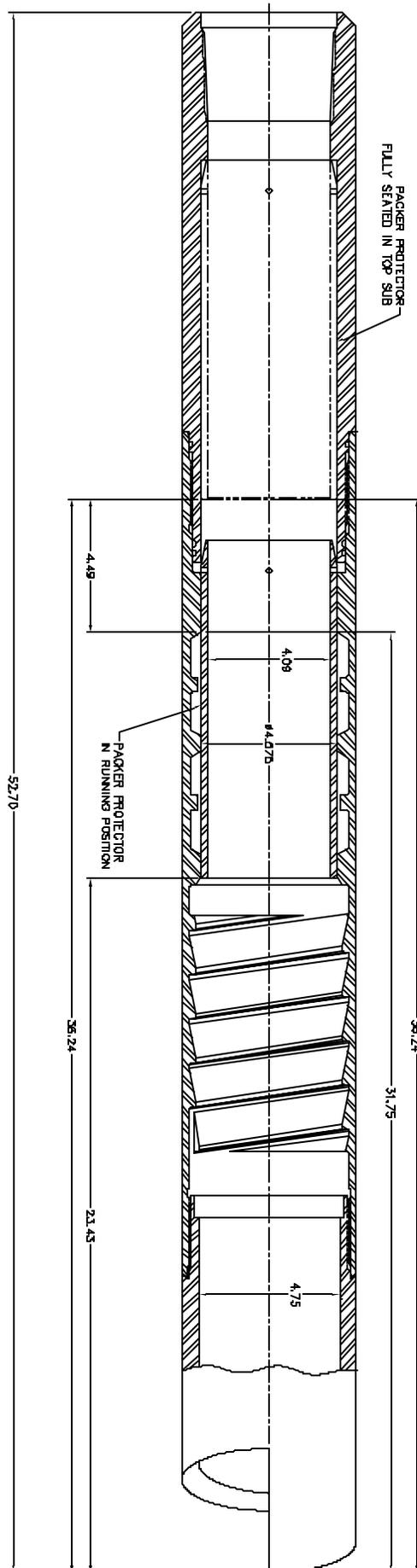


Logan High Pressure Casing Patches Assembly Procedure

All parts should be thoroughly greased before being assembled.

1. Install all four Logan Type "L" Packers in the spaces provided in the Casing Patch Bowl. Refer to diagram provided for proper installation.
2. Install Packer Protector from the Basket Grapple end of the Bowl. The beveled end of the Packer Protector goes in first. Carefully push the Packer Protector through the four Type "L" Packers.
3. Align Shear Pin Holes in Packer Protector so that the holes have just passed into the counter bore at the Top Sub end, refer to diagram. The Packer Protector is provided with four Shear Pin Holes. Use only two holes, 180 degrees apart and install the pins.
4. Screw the Basket Grapple in from the lower end of the Bowl, using left-hand rotation. The Tang Slot in the Basket Grapple must land in line with the slot in the Bowl.
5. Insert the Basket Grapple Control into the end of the Bowl. Align Tang on the Basket Grapple Control with the Tang Slot of the Bowl and Basket Grapple. This secures the Bowl and the Basket Grapple together.
6. Install the Cutlipped Guide into the lower end of the Bowl.
7. Install O-Rings on the two five-foot long Extensions. Screw the first Extension into the top end of the Bowl. Screw the second Extension into the top end of the first Extension.
8. Install O-Ring on Top Sub. Screw Top Sub into top end of second Extension.

Follow recommended Make-Up Torque as provided in chart.



510L-005-001 4-1/2" LOGAN HP CASING PATCH

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-0144868B
		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 920-12D
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		9. API NUMBER: 43047501600000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0472 FNL 0927 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNW 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"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> WILDCAT WELL DETERMINATION <input type="checkbox"/> OTHER	
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 12/6/2011	<input checked="" 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"/>	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<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"/> DRILLING REPORT Report Date:	<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	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.		
The operator has concluded the wellhead/casing repairs on the subject well location. Please see that attached chronological history for details of the operations.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY July 18, 2012		
NAME (PLEASE PRINT) Jaime Scharnowske	PHONE NUMBER 720 929-6304	TITLE Regularatory Analyst
SIGNATURE N/A		DATE 7/17/2012

US ROCKIES REGION
Operation Summary Report

US ROCKIES REGION								
Operation Summary Report								
Well: NBU 920-12D			Spud Conductor: 11/6/2009			Spud Date: 11/8/2009		
Project: UTAH-UINTAH			Site: NBU 920-12D			Rig Name No: LEED 698/698		
Event: WELL WORK EXPENSE			Start Date: 12/2/2011			End Date: 12/6/2011		
Active Datum: RKB @4,720.00usft (above Mean Sea Level)			UWI: NW/NW/0/9/S/20/E/12/0/0/26/PM/N/472.00/W/0/927.00/0/0					
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
12/2/2011	7:00 - 7:30	0.50	ALL	48		P		HSM, REVIEW TRIPPING TBG & WIRELINE SAFETY.
	7:30 - 8:30	1.00	ALL	30	A	P		MIRU.
	8:30 - 9:30	1.00	ALL	30	F	P		FCP. 96 PSI. FTP. 96 PSI. BLEW TBG DWN, CONTROL TBG W/ 10 BBLs, ND WH, NU BOP'S, RU FLOOR & TBG EQUIPMENT, DROP DRIFT SLEEVE DWN TBG, UNLAND TBG.
	9:30 - 12:00	2.50	ALL	31	I	P		POOH 313 JTS. 2-3/8 L-80 TBG, LD XN NIPPLE W/ HALF POBS.
	12:00 - 15:00	3.00	ALL	34	I	P		MIRU J-W WIRELINE RIH SET CIBP @ 7480, POOH, PU DUMP BAILER, RIH DUMP 2 SXS CMT ON CIBP, RD J-W WIRELINE COMPANY, FILL CSG W/ T-MAC, P.T. PLUG TO 3000 PSI. SWI, SDFWE.
12/5/2011	7:00 - 7:30	0.50	ALL	48	C	P		HSM, REVIEW BACK-OFF PROCEDURE
	7:30 - 8:00	0.50	ALL	47	A	P		RD FLOOR & TBG EQUIPMENT, ND BOP'S, ND CSG BOWL, RU PWR SWVL.
	8:00 - 9:30	1.50	ALL	31	B	P		PU INTERNAL CSG CUTTER & RIH, CUT CSG @ 3' F/ SURFACE, POOH, LD CUTTER & CSG MANDRAL, RD PWR SWVL, PU 4-1/2 OVERSHOT, RIH, LATCH FISH, MIRU CSG CREW & WIRELINE SERVICES, RIH STRING SHOT CSG COLLAR, BACK-OFF CSG, POOH, PU NEW CSG PUP JNT, RIH & TAG CSG TOP, TORQUE CSG TO 7000# W/ 14 ROUNDS, RD CSG CREW & WIRELINE SERVICES, PU CSG TO 100,000# TENSION.
	9:30 - 10:45	1.25	ALL	33	C	P		RU B&C QUICK TEST, P.T. 4-1/2 CSG TO 1000 PSI. LOST 10 PSI. IN 15 MIN, P.T. 4-1/2 CSG TO 3500 PSI. LOST 23 PSI. IN 30 MIN, NO COMMUNICATION BETWEEN SURFACE CSG & 4-1/2 CSG, RD B&C QUICK TEST.
	10:45 - 12:30	1.75	ALL	31	I			RU WEATHERFORD TECHNICIAN, SET C-21 SLIPS, LAND CSG W/ 80,000# TENSION, CUT-OFF & DRESS 4-1/2 CSG, INSTALL "H" PLATE, FLANGE, & CROSSOVER SPOOL, TORQUE ALL 1-7/8 BOLTS, RD WEATHERFORD TECHNICIAN
	12:30 - 16:00	3.50	ALL					NU CSG BOWL, NU BOP'S, RU FLOOR & TBG EQUIPMENT, PU 3-7/8 MILL W/ 1.875 XN POBS, RIH ON 2 3/8 TBG. TAG CMT @ 7470' W 236 JTS. SWI, SDFN.
12/6/2011	7:00 - 7:30	0.50	ALL	48		P		HSM, REVIEW ICE PLUGS
	7:30 - 8:00	0.50	ALL	47	A	P		RU PWR SWVL, RU TECH FOAM
	8:00 - 8:25	0.42	ALL	31	H	P		EST CIRC IN 25 MINS
	8:25 - 8:40	0.25	ALL	44	A	P		D/O CMT @ 7470' IN 15 MINS TO 7480'
	8:40 - 10:30	1.83	ALL	44	C	P		D/O CIBP @ 7480' IN 65 MINS, CIRC CLEAN, KILL TBG, RD PWR SWVL,

US ROCKIES REGION
Operation Summary Report

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Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	10:30 - 17:00	6.50	ALL	31	I	P		RIH 77 JTS. 2-3/8 L-80 TBG F/ DERRICK, PU 26 JTS. 2-3/8 TBG F/ TRAILER, TAG FILL @ 10,695' CIRC WELL CLEAN, DROP BALL, PUMP MILL-OFF W/ 1950 PSI. KILL TBG, RD TECH FOAM, POOH LD 26 JTS. TBG ON TRAILER, LAND TBG, RU SWAB EQUIPMENT, RIH & BROACH TBG TO XN W/ 1.9 BROACH, POOH, RD SWAB EQUIPMENT, RD FLOOR & TBG EQUIPMENT, ND BOP'S, NU WH, RDMO. MOVE TO THE NBU 922-32AT. TBG DETAIL KB----- -----13' HANGER----- -----83" 313 JTS. 2-3/8 L-80 TBG @----- -9925.00' 1.875 XN POBS----- ---2.20' EOT @----- -9941.03' WLTR. 45 BBLS. TOP PERF @ 7530' BTM PERF @ 10,588' PBTD @ 10,895' API# 4304750160