



Kerr McGee Oil and Gas Onshore LP  
1368 SOUTH 1200 EAST • VERNAL, UT 84078  
435-789-4433 • FAX 435-781-7094

June 28, 2007

Diana Whitney  
State of Utah  
Division of Oil, Gas and Mining  
P.O. Box 145801  
Salt Lake City, UT 84114-5801

RE: Directional Drilling R649-3-11  
NBU 1022-13M1S 1538'FSL, 1275'FWL (Surface)  
930'FSL, 700'FWL (Bottomhole)  
Uintah County, Utah

Dear Ms. Whitney:

Pursuant to filing of Kerr McGee Oil & Gas Onshore L.P. Application for Permit to Drill regarding the above referenced well on June 28, 2007, we are hereby submitting this letter in accordance with Oil & Gas Conservation Rule R649-3-11 pertaining to the Exception to location and siting of wells.

- NBU 1022-13M1S is located within the Natural Buttes Unit Area.
- Kerr McGee Oil & Gas Onshore L.P., is permitting this well as a directional well in order to minimize surface disturbance. Locating the well at the surface location and directionally drilling from this location, Kerr McGee Oil & Gas Onshore L.P., will be able to utilize the existing road and pipeline in the area.
- Furthermore, Kerr McGee Oil & Gas Onshore L.P. hereby certifies that it is the sole working interest owner within 460 feet of the entire directional well bore.

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

Sincerely,

  
Sheila Upchego  
Senior Land Admin Specialist

RECEIVED  
AUG 06 2007  
DIV. OF OIL, GAS & MINING

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

FORM 3

AMENDED REPORT   
(highlight changes)

<b>APPLICATION FOR PERMIT TO DRILL</b>				5. MINERAL LEASE NO: <b>STUO-08512-ST</b>	6. SURFACE: State
1A. TYPE OF WORK: DRILL <input checked="" type="checkbox"/> REENTER <input type="checkbox"/> DEEPEN <input type="checkbox"/>				7. IF INDIAN, ALLOTTEE OR TRIBE NAME:	
B. TYPE OF WELL: OIL <input type="checkbox"/> GAS <input checked="" type="checkbox"/> OTHER _____ SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input checked="" type="checkbox"/>				8. UNIT or CA AGREEMENT NAME: <b>UNIT #891008900A</b>	
2. NAME OF OPERATOR: <b>KERR MCGEE OIL &amp; GAS ONSHORE L.P.</b>				9. WELL NAME and NUMBER: <b>NBU 1022-13M1S</b>	
3. ADDRESS OF OPERATOR: <b>1368 S 1200 E</b> CITY <b>VERNAL</b> STATE <b>UT</b> ZIP <b>84078</b>			PHONE NUMBER: <b>(435) 781-7024</b>	10. FIELD AND POOL, OR WILDCAT: <b>NATURAL BUTTES</b>	
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: <b>1538'FSL, 1275'FWL</b> AT PROPOSED PRODUCING ZONE: <b>930'FSL, 700'FWL SWSW</b> <b>637102X 4422589Y 39.944213 -109.394518</b>				11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: <b>NWSW 13 10S 22E</b>	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE: <b>27.7 MILES SOUTH OF OURAY, UTAH</b>				12. COUNTY: <b>UINTAH</b>	13. STATE: <b>UTAH</b>
15. DISTANCE TO NEAREST PROPERTY OR LEASE LINE (FEET) <b>1275'</b>		16. NUMBER OF ACRES IN LEASE: <b>600.00</b>		17. NUMBER OF ACRES ASSIGNED TO THIS WELL:	
18. DISTANCE TO NEAREST WELL (DRILLING, COMPLETED, OR APPLIED FOR) ON THIS LEASE (FEET) <b>REFER TO TOPO C</b>		19. PROPOSED DEPTH: <b>8,210</b>		20. BOND DESCRIPTION: <b>REB0005297 22613542</b>	
21. ELEVATIONS (SHOW WHETHER DF, RT, GR, ETC.): <b>5287'GL</b>		22. APPROXIMATE DATE WORK WILL START:		23. ESTIMATED DURATION:	

**24. PROPOSED CASING AND CEMENTING PROGRAM**

SIZE OF HOLE	CASING SIZE, GRADE, AND WEIGHT PER FOOT			SETTING DEPTH	CEMENT TYPE, QUANTITY, YIELD, AND SLURRY WEIGHT		
12 1/4"	9 5/8	32.3#	H-40	2,100	265 SX CLASS G	1.18 YIELD	15.6 PPG
7 7/8"	4 1/2	11.6#	I-80	8,210	1320 SX 50/50 POZ	1.31 YIELD	14.3 PPG

**25. ATTACHMENTS**

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

- |  |  |
|--|--|
| <input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER     | <input checked="" type="checkbox"/> COMPLETE DRILLING PLAN                                   |
| <input checked="" type="checkbox"/> EVIDENCE OF DIVISION OF WATER RIGHTS APPROVAL FOR USE OF WATER | <input type="checkbox"/> FORM 5, IF OPERATOR IS PERSON OR COMPANY OTHER THAN THE LEASE OWNER |

NAME (PLEASE PRINT) SHEILA UPCHEGO TITLE SENIOR LAND ADMIN SPECIALIST  
 SIGNATURE *[Signature]* DATE 6/28/2007

(This space for State use only)

API NUMBER ASSIGNED: 43-047-34482

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

APPROVAL:

Date: 09-11-07

By: *[Signature]*

**RECEIVED**  
**AUG 06 2007**

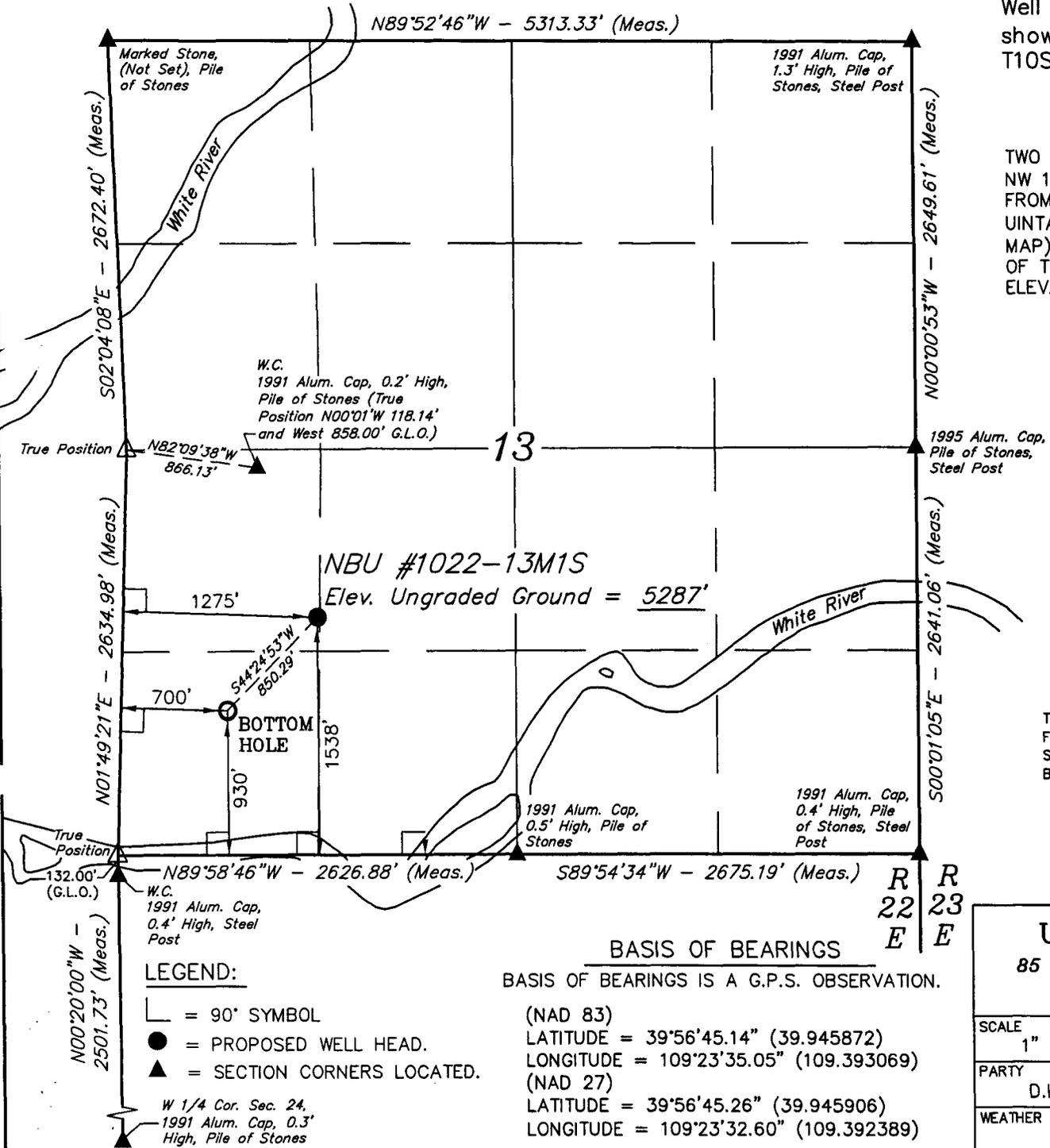
DIV. OF OIL, GAS & MINING

# T10S, R22E, S.L.B.&M.

## Kerr-McGee Oil & Gas Onshore LP

Well location, NBU #1022-13M1S, located as shown in the NW 1/4 SW 1/4 of Section 13, T10S, R22E, S.L.B.&M. Uintah County, Utah.

NB9°52'46"W - 5313.33' (Meas.)



### BASIS OF ELEVATION

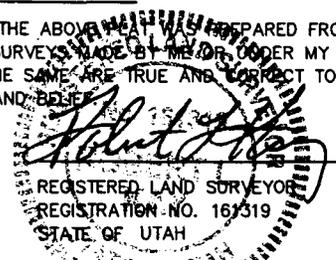
TWO WATER TRIANGULATION STATION LOCATED IN THE NW 1/4 OF SECTION 1, T10S, R21E, S.L.B.&M. TAKEN FROM THE BIG PACK MTN NE, QUADRANGLE, UTAH, UTAH COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 5238 FEET.



SCALE

### 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.



### BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.

(NAD 83)  
 LATITUDE = 39°56'45.14" (39.945872)  
 LONGITUDE = 109°23'35.05" (109.393069)  
 (NAD 27)  
 LATITUDE = 39°56'45.26" (39.945906)  
 LONGITUDE = 109°23'32.60" (109.392389)

### LEGEND:

- └─┘ = 90° SYMBOL
- = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED.

W 1/4 Cor. Sec. 24,  
 1991 Alum. Cap, 0.3'  
 High, Pile of Stones

**UTAH ENGINEERING & LAND SURVEYING**  
 85 SOUTH 200 EAST - VERNAL, UTAH 84078  
 (435) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: 5-17-07	DATE DRAWN: 6-13-07
PARTY D.K. L.K. K.G.	REFERENCES G.L.O. PLAT	
WEATHER COOL	FILE Kerr-McGee Oil & Gas Onshore LP	

**NBU 1022-13M1S  
NW/SW SEC. 13, T10S, R22E  
Uintah County, UT  
UTSTUO-08512-ST**

**ONSHORE ORDER NO. 1**

***MULTI-POINT SURFACE USE & OPERATIONS PLAN***

**1. Existing Roads:**

Refer to Topo Map A for directions to the location.

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

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

All existing roads will be maintained and kept in good repair during all drilling and completion operations associated with this well.

**2. Planned Access Roads:**

The operator will utilize an existing access road. Refer to Topo Map B for the location of the existing access road.

The upgraded and new portions of the access road will be crowned and ditched with a running surface of 18 feet and a maximum disturbed width of 30 feet. Appropriate water control will be installed to control erosion.

***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.***

The access road was centerline flagged during time of staking.

Surfacing material may be necessary, depending upon weather conditions.

Surface disturbance and vehicular traffic will be limited to the approved location and approved access route. Any additional area needed will be approved in advance.

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

Please refer to Topo Map C.

**4. Location of Existing & Proposed Facilities:**

*The following guidelines will apply if the well is productive.*

All production facilities will be located on the disturbed portion of the well pad and at a minimum of 25 feet from the toe of the back slope or the top of the fill slope.

A dike will be constructed completely around those production facilities which contain

fluids (i.e., production tanks, produced water tanks, and/or heater/treater). These dikes will be constructed of compacted subsoil, be impervious, hold 100% of the capacity of the largest tank, and be independent of the back cut.

All permanent (on-site six months or longer) above the ground structures constructed or installed, including pumping units, will be painted a flat, non-reflective, earthtone color to match one of the standard environmental colors, as determined by the five state Rocky Mountain Inter-Agency Committee.

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 required color is Carlsbad Canyon, standard color number 2.5Y 6/2.

Any necessary pits will be properly fenced to protect livestock and prevent wildlife entry.

A 30' rights-of-way will be required for approximately 12,184' +/- of 10" steel pipeline is proposed. The pipeline shall run from the location into Section 18, T10S, R23E (Lease #UTU-38421) and travel north into Sec. 7, T10S, R23E (Lease #UTU-49226) to tie-in to and existing pipeline. Refer to the attached Topo Map D for pipeline placement.

A 30' rights of way will be required for approximately 12,184' +/- of 6" steel pipeline is proposed. The pipeline shall run from the location into Section 18, T10S, R23E (Lease #UTU-38421) and travel north into Sec. 7, T10S, R23E (Lease #UTU-49226) to tie-in to and existing pipeline. Refer to the attached Topo Map D for pipeline placement.

**5. Location and Type of Water Supply:**

Water for drilling purposes will be obtained from Dalbo Inc.'s underground well located in Ouray, Utah, Sec. 32, T4S, R3E, Water User Claim #43-8496, Application #53617.

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

No water well is to be drilled on this lease.

**6. Source of Construction Materials:**

Surface and subsoil materials in the immediate area will be utilized.

Any gravel will be obtained from a commercial source.

**7. Methods of Handling Waste Materials:**

Drill cuttings will be contained and buried in the reserve pit.

Drilling fluids, including salts and chemicals, will be contained in the reserve pit. Upon termination of drilling and completion operations, the liquid contents of the reserve pit will be removed and disposed of at an approved waste disposal facility within 120 days after drilling is terminated.

The reserve pit will be constructed on the location and will not be located within natural drainage, where a flood hazard exists or surface runoff will destroy or damage the pit

walls. The reserve pit will be constructed so that it will not leak, break, or allow discharge of liquids.

Due to difficult topography and proximity to the White River, the reserve pit will be constructed utilizing a double liner and double felt. The liner will be approximately 60 mil in thickness versus our standard 20 mil and the reserve pits will also have a leak detection system installed between the liners.

Any spills of oil, gas, salt water, or other noxious fluids will be immediately cleaned up and removed to an approved disposal site.

A chemical porta-toilet will be furnished with the drilling rig.

Garbage, trash, and other waste materials will be collected in a portable, self-contained, fully enclosed trash cage during operations. No trash will be burned on location.

All debris and other waste material not contained in the trash cage will be cleaned up and removed from the location immediately after removal of the drilling rig.

Any open pits will be fenced during the operations. The fencing will be maintained until such time as the pits are backfilled.

No chemicals subject to reporting under SARA Title III (hazardous materials) in an amount greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling of this well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported, or disposed of in association with the drilling of this well.

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.

**8. Ancillary Facilities:**

None are anticipated.

**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.

The reserve pit will be lined, and when the reserve pit is closed, the pit liner will be buried below plow depth.

All pits will be fenced according to the following minimum standards:

39 inch net wire will be used with at least one strand of barbed wire on top of the net wire. Barbed wire is not necessary if pipe or some type of reinforcement rod is attached to the top of the entire fence.

The net wire shall be no more than two inches above the ground. The barbed wire shall be three inches over the net wire. Total height of the fence shall be at least 42 inches.

Corner posts shall be cemented and/or braced in such a manner to keep the fence tight at all times.

Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any 2 fence posts shall be no greater than 16 feet.

All wire shall be stretched, by using a stretching device, before it is attached to corner posts.

The reserve pit fencing will be on three sides during drilling operations, and on the fourth side when the rig moves off location. Pits will be fenced and maintained until cleanup.

Location size may change prior to the drilling of the well due to 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 9 shall be submitted.

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

##### *Producing Location:*

Immediately upon well completion, the location and surrounding area will be cleared of all unused tubing, materials, trash, and debris not required for production.

Immediately upon well completion, any hydrocarbons in the pit shall be removed in accordance with 43 CFR 3162.7-1.

A plastic, nylon reinforced liner will be used, it shall be torn and perforated before backfilling of the reserve pit.

Before any dirt work associated with location restoration takes place, the reserve pit shall be as dry as possible. All debris in it will be removed. Other waste and spoil materials will be disposed of immediately upon completion of operations.

The reserve pit and that portion of the location not needed for production facilities/operations will be recontoured to the approximate natural contours. The reserve pit will be reclaimed within 90 days from the date of well completion, weather permitting.

To prevent surface water (s) from standing (ponding) on the reclaimed reserve pit area, final reclamation of the reserve pit will consist of "mounding" the surface three feet above surrounding ground surface to allow the reclaimed pit area to drain effectively.

Upon completion of backfilling, leveling, and recontouring, the stockpiled topsoil will be spread evenly over the reclaimed area(s).

*Dry Hole/Abandoned Location:*

Abandoned well sites, roads, and other disturbed areas will be restored as near as practical to their original condition. Where applicable, these conditions include the re-establishment of irrigation systems, the re-establishment of appropriate soil conditions, and re-establishment of vegetation as specified.

All disturbed surfaces will be recontoured to the approximate natural contours, with reclamation of the well pad and access road to be performed as soon as practical after final abandonment. Reseeding operations will be performed after completion of other reclamation operations.

**11. Surface Ownership:**

SITLA  
675 East 500 South, Suite 500  
Salt Lake City, UT 84102

**12. Other Information:**

All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, the approved Plan of Operations, and any applicable Notice of Lessees. The Operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished to the field representative to ensure compliance.

The Operator will control noxious weeds along Rights-Of-Way for roads, pipelines, well sites, or other applicable facilities.

A Class III archaeological survey will be submitted when report becomes available.

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.

**13. Lessee's or Operators's Representative & Certification:**

Sheila Upchego  
Senior Land Admin Specialist  
Kerr-McGee Oil & Gas Onshore LP  
1368 South 1200 East.  
Vernal, UT 84078  
(435) 781-7024

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.

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

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

Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by State Surety Bond #RLB0005237.

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.

  
Sheila Upchego

6/15/2007  
Date

**NBU 1022-13M1S  
NW/SW SEC. 13, T10S, R22E  
UINTAH COUNTY, UTAH  
UTSTUO-08512-ST**

**ONSHORE ORDER NO. 1**

***DRILLING PROGRAM***

**1. Estimated Tops of Important Geologic Markers:**

<u>Formation</u>	<u>Depth</u>
Uinta	0- Surface
Green River	945'
Top of Birds Nest Water	1278'
Mahogany	1623'
Wasatch	3996'
Mesaverde	6225'
MVU2	7086'
MVL1	7654'
TD	8210'

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

<u>Substance</u>	<u>Formation</u>	<u>Depth</u>
Water	Green River	945'
	Top of Birds Nest Water	1278'
	Mahogany	1623'
Gas	Wasatch	3996'
Gas	Mesaverde	6225'
Gas	MVU2	7086'
Gas	MVL1	7654'
Water	N/A	
Other Minerals	N/A	

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

*Please refer to the attached Drilling Program.*

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

*Please refer to the attached Drilling Program.*

**5. Drilling Fluids Program:**

*Please refer to the attached Drilling Program.*

The operator will use fresh water mud with 0-8% Bio Diesel.

6. **Evaluation Program:**

*Please refer to the attached Drilling Program.*

7. **Abnormal Conditions:**

Maximum anticipated bottomhole pressure calculated at 8210' TD, approximately equals 5090 psi (calculated at 0.62 psi/foot).

Maximum anticipated surface pressure equals approximately 3284 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 refer to the attached Drilling Program.*

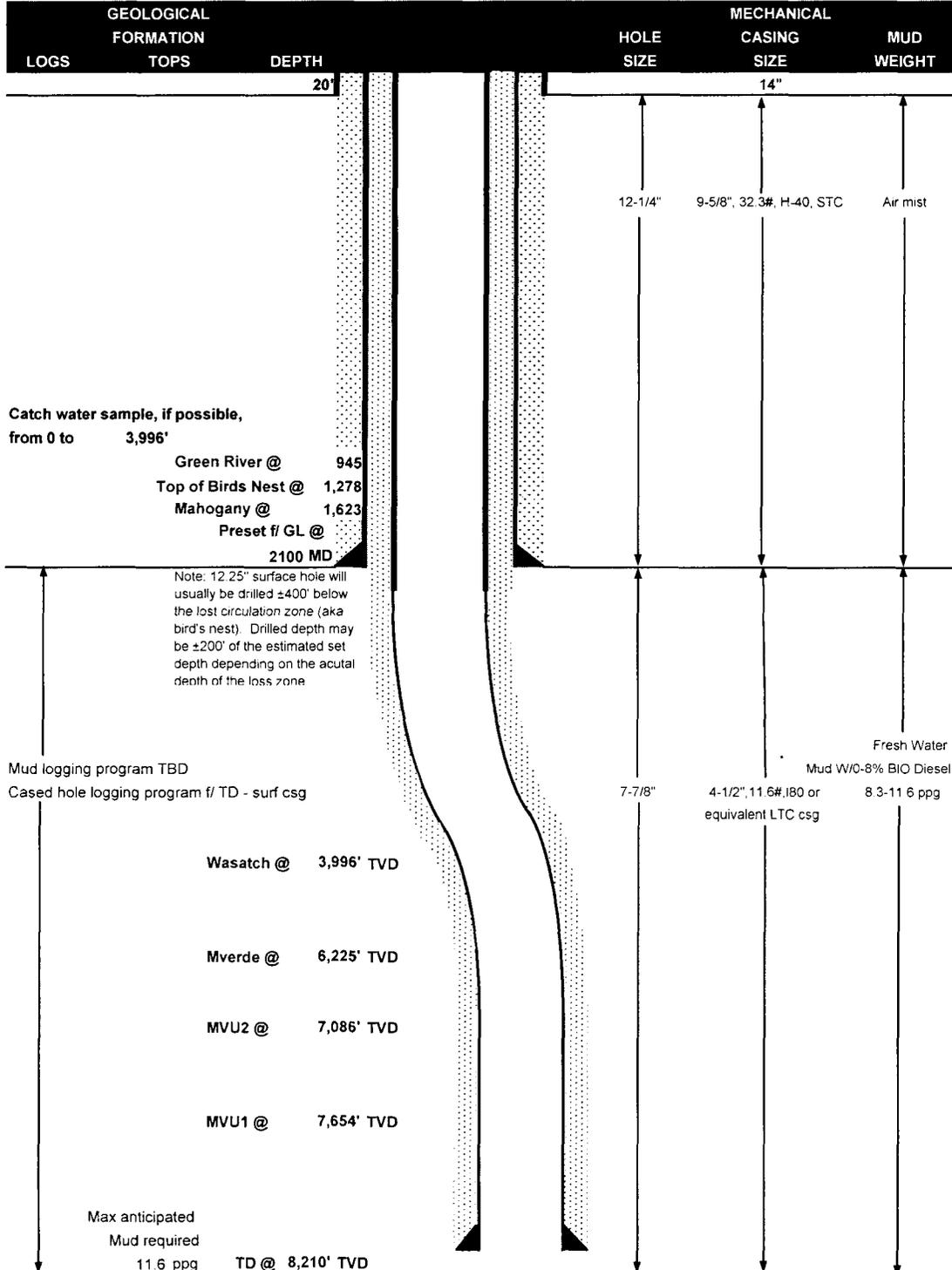
10. **Other Information:**

*Please refer to the attached Drilling Program.*



# KERR-McGEE OIL & GAS ONSHORE LP DRILLING PROGRAM

COMPANY NAME KERR-McGEE OIL & GAS ONSHORE LP DATE July 25, 2007  
 WELL NAME NBU 1022-13M1S TD 8,210' TVD  
 FIELD Natural Buttes COUNTY Uintah STATE Utah ELEVATION 5,287' GL KB 5,302'  
 SURFACE LOCATION NW/SW SEC. 13, T10S, R21E 1538'FSL, 1275'FWL  
 Latitude: 39.945911 Longitude: 109.393019  
 BTM HOLE LOCATION NE/SW/SW SEC. 13, T10S, R22E 930'FSL, 700'FWL  
 OBJECTIVE ZONE(S) Wasatch/Mesaverde  
 ADDITIONAL INFO Regulatory Agencies: UDOGM (MINERALS AND SURFACE), BLM, Tri-County Health Dept.





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

**CASING PROGRAM**

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS		
						BURST	COLLAPSE	TENSION
CONDUCTOR	14"	0-40'						
SURFACE	9-5/8"	0 to 2100	32.30	H-40	STC	2270 0.72*****	1370 1.39	254000 4.28
PRODUCTION	4-1/2"	0 to 8210	11.60	I-80	LTC	7780 2.47	6350 1.28	201000 2.42

- 1) Max Anticipated Surf. Press. (MASP) (Surface Casing) = (Pore Pressure at next csg point - (0.22 psi/ft - partial evac gradient x TVD of next csg point))  
 2) MASP (Prod Casing) = Pore Pressure at TD - (.22 psi/ft - partial evac gradient x TD)  
 (Burst Assumptions: TD = 0.0 ppg) .22 psi/ft = gradient for partially evac wellbore  
 (Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing \* Buoy. Fact. of water)  
 MASP 3146 psi

\*\*\*\*\* Burst SF is low but csg is much stronger than formation at 2000'. EMW @ 2000' for 2270# is 21.8 ppg or 1.13 psi/ft

**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
<b>Option 1</b>							
	TOP OUT CMT (1)	200	20 gals sodium silicate + Premium cmt + 2% CaCl + .25 pps flocele	50		15.60	1.18
	TOP OUT CMT (2)	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
SURFACE		<b>NOTE: If well will circulate water to surface, option 2 will be utilized</b>					
<b>Option 2</b>							
	LEAD	1500	65/35 Poz + 6% Gel + 10 pps gilsonite + .25 pps Flocele + 3% salt BWOW	360	35%	12.60	1.81
	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	5,720'	Premium Lite II + 3% KCl + 0.25 pps celloflake + 5 pps gilsonite + 10% gel + 0.5% extender	620	60%	11.00	3.38
	TAIL	2,490'	50/50 Poz/G + 10% salt + 2% gel +.1% R-3	700	60%	14.30	1.31

\*Substitute caliper hole volume plus 15% excess 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 System for mud monitoring. If no PVT is available, visual monitoring will be utilized.

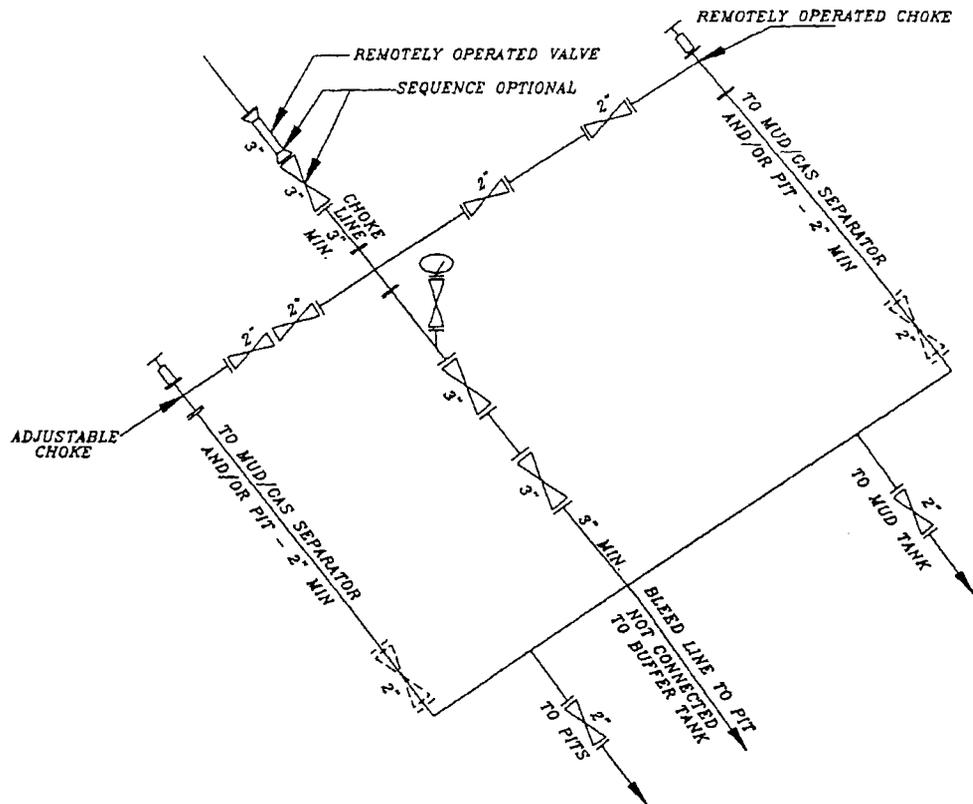
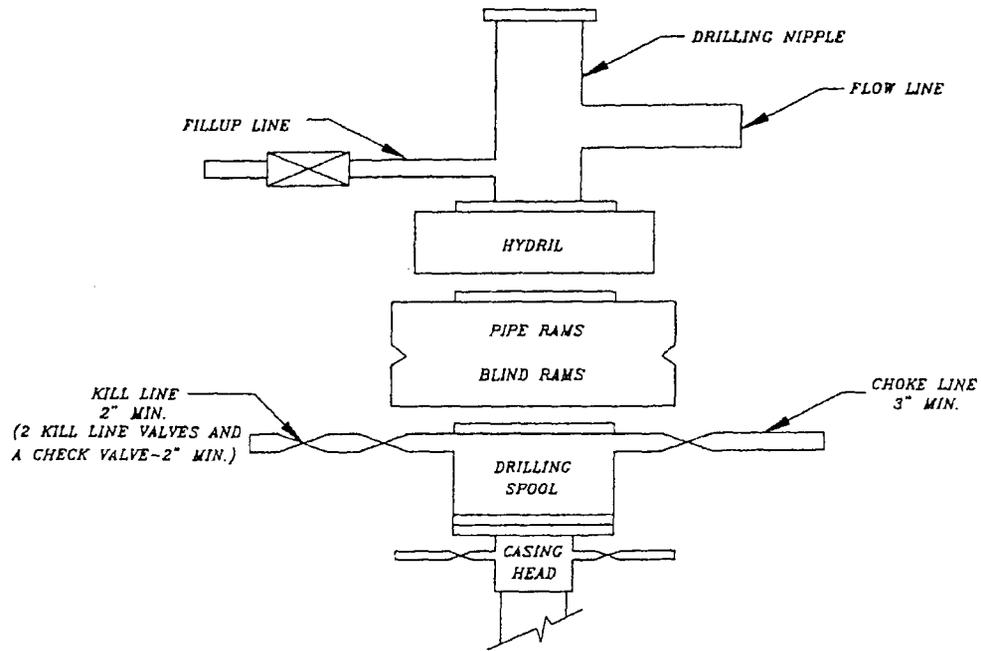
DRILLING ENGINEER: \_\_\_\_\_  
Brad Laney

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

DRILLING SUPERINTENDENT: \_\_\_\_\_  
Randy Bayne

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

# 5M BOP STACK and CHOKE MANIFOLD SYSTEM



## Kerr-McGee Oil & Gas Onshore LP

NBU #1022-13K-3T, #1022-13O4S, #1022-13O1CS, #1022-13O2S,  
#1022-13D4S, #1022-13I3S, #1022-13O1AS, #1022-13J4S, #1022-  
13I4S, #1022-13L4S, #1022-13L3S, #1022-13K3S, #1022-13M2AS,  
#1022-13N2S, #1022-13N1S, #1022-13M2CS & #1022-13M1S

### SECTION 13, T10S, R22E, S.L.B.&M.

PROCEED IN A WESTERLY DIRECTION FROM VERNAL, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 14.0 MILES TO THE JUNCTION OF STATE HIGHWAY 88; EXIT LEFT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 17.0 MILES TO OURAY, UTAH; PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 0.3 MILES ON THE SEEP RIDGE ROAD TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE EAST; TURN LEFT AND PROCEED IN AN EASTERLY DIRECTION APPROXIMATELY 12.3 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTH; TURN RIGHT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 1.7 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE EAST; TURN LEFT AND PROCEED IN AN EASTERLY DIRECTION APPROXIMATELY 1.9 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHEAST; TURN RIGHT AND PROCEED IN A SOUTHEASTERLY DIRECTION APPROXIMATELY 0.5 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE EAST; TURN LEFT AND PROCEED IN AN EASTERLY, THEN SOUTHEASTERLY DIRECTION APPROXIMATELY 3.3 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHWEST; TURN RIGHT AND PROCEED IN A SOUTHWESTERLY DIRECTION APPROXIMATELY 0.7 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHEAST; TURN LEFT AND PROCEED IN A SOUTHEASTERLY, THEN SOUTHWESTERLY, THEN SOUTHEASTERLY DIRECTION APPROXIMATELY 5.1 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTH; TURN RIGHT AND PROCEED IN A SOUTHERLY, THEN SOUTHWESTERLY DIRECTION APPROXIMATELY 1.9 MILES TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 58.7 MILES.



**Weatherford<sup>®</sup>**

## **Drilling Services**

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## **Proposal**

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### **ANADARKO - KERR McGEE**

NBU#1022-13M1S

UINTAH COUNTY, UTAH

WELL FILE: PLAN1

DATE: JULY 05, 2007

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KERR MCGEE OIL & GAS  
 NBU #1022-13MIS  
 UTAH COUNTY, UTAH



**Weatherford**

KB = 5302'  
 GR = 5287'

SECTION DETAILS

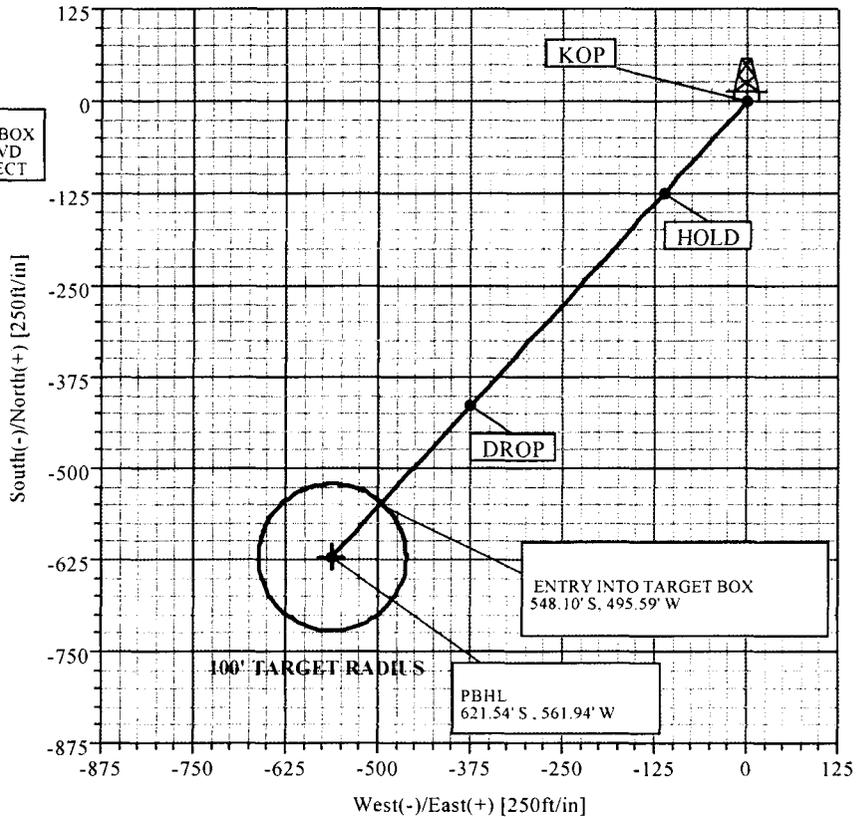
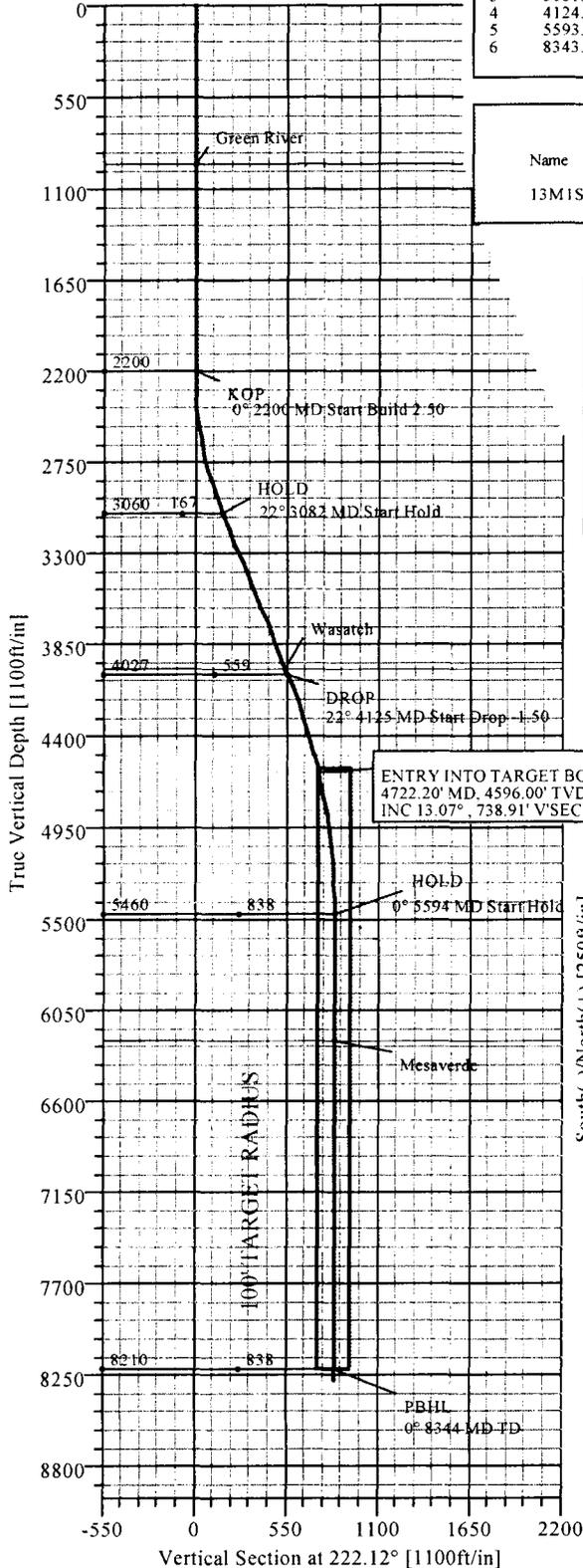
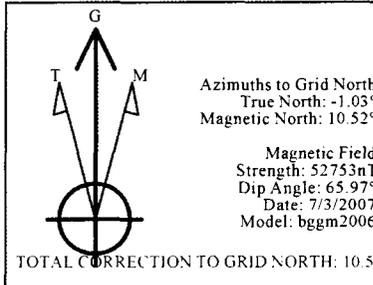
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	222.12	0.00	0.00	0.00	0.00	0.00	0.00	
2	2200.00	0.00	222.12	2200.00	0.00	0.00	0.00	0.00	0.00	KOP
3	3081.53	22.04	222.12	3059.95	-124.21	-112.30	2.50	222.12	167.45	HOLD
4	4124.53	22.04	222.12	4026.75	-414.52	-374.77	0.00	0.00	558.82	DROP
5	5593.74	0.00	222.12	5460.00	-621.54	-561.94	1.50	180.00	837.91	HOLD
6	8343.74	0.00	222.12	8210.00	-621.54	-561.94	0.00	222.12	837.91	PBHL

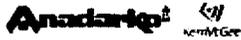
WELL DETAILS

Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
13MIS	0.00	0.00	14510379.20	2090932.70	39°56'45.007N	109°23'33.561W	N/A

FIELD DETAILS

UINTAH COUNTY, UTAH (UTM Zone 12N-NAD 27)  
 Geodetic System: Universal Transverse Mercator (USfeet)  
 Ellipsoid: NAD27 (Clarke 1866)  
 Zone: UTM Zone 12, North 114W to 108W  
 Magnetic Model: bggm2006  
 System Datum: Mean Sea Level  
 Local North: Grid North





# Weatherford International, Ltd.

## DIRECTIONAL PLAN REPORT



<b>Company:</b> Anadarko-Kerr-McGee	<b>Date:</b> 7/6/2007	<b>Time:</b> 10:42:34	<b>Page:</b> 1
<b>Field:</b> UINTAH COUNTY, UTAH (UTM Zone 12N-NAD 27)	<b>Co-ordinate(NE) Reference:</b>	<b>Site:</b> NBU 1022-13M1S, Grid North	
<b>Site:</b> NBU 1022-13M1S	<b>Vertical (TVD) Reference:</b>	<b>SITE</b> 5302.0	
<b>Well:</b> 13M1S	<b>Section (VS) Reference:</b>	<b>Well (0.00N,0.00E,222.12Azi)</b>	
<b>Wellpath:</b> 1	<b>Survey Calculation Method:</b>	<b>Minimum Curvature</b>	<b>Db:</b> Sybase

<b>Survey:</b>	<b>Start Date:</b>
<b>Company:</b>	<b>Engineer:</b>
<b>Tool:</b>	<b>Tied-to:</b>

**Field:** UINTAH COUNTY, UTAH (UTM Zone 12N-NAD 27)

<b>Map System:</b> Universal Transverse Mercator (USfeet)	<b>Map Zone:</b> UTM Zone 12, North 114W to 108W
<b>Geo Datum:</b> NAD27 (Clarke 1866)	<b>Coordinate System:</b> Site Centre
<b>Sys Datum:</b> Mean Sea Level	<b>Geomagnetic Model:</b> bggm2006

**Site:** NBU 1022-13M1S

<b>Site Position:</b>	<b>Northing:</b> 14510379.20 ft	<b>Latitude:</b> 39 56 45.007 N
<b>From:</b> Map	<b>Easting:</b> 2090932.70 ft	<b>Longitude:</b> 109 23 33.561 W
<b>Position Uncertainty:</b> 0.00 ft		<b>North Reference:</b> Grid
<b>Ground Level:</b> 5287.00 ft		<b>Grid Convergence:</b> 1.03 deg

**Well:** 13M1S **Slot Name:**

<b>Well Position:</b> +N/-S 0.00 ft	<b>Northing:</b> 14510379.20 ft	<b>Latitude:</b> 39 56 45.007 N
+E/-W 0.00 ft	<b>Easting:</b> 2090932.70 ft	<b>Longitude:</b> 109 23 33.561 W
<b>Position Uncertainty:</b> 0.00 ft		

**Wellpath:** 1 **Drilled From:** Surface

<b>Current Datum:</b> SITE	<b>Height</b> 5302.00 ft	<b>Tie-on Depth:</b> 0.00 ft
<b>Magnetic Data:</b> 7/3/2007		<b>Above System Datum:</b> Mean Sea Level
<b>Field Strength:</b> 52753 nT		<b>Declination:</b> 11.55 deg
<b>Vertical Section:</b> Depth From (TVD)	+N/-S	<b>Mag Dip Angle:</b> 65.97 deg
ft	ft	ft
8210.00	0.00	0.00
		<b>Direction</b> 222.12 deg

**Plan Section Information**

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg	Target
0.00	0.00	222.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2200.00	0.00	222.12	2200.00	0.00	0.00	0.00	0.00	0.00	0.00	
3081.53	22.04	222.12	3059.95	-124.21	-112.30	2.50	2.50	0.00	222.12	
4124.53	22.04	222.12	4026.75	-414.52	-374.77	0.00	0.00	0.00	0.00	
5593.74	0.00	222.12	5460.00	-621.54	-561.94	1.50	-1.50	0.00	180.00	
8343.74	0.00	222.12	8210.00	-621.54	-561.94	0.00	0.00	0.00	222.12	PBHL 13M1S

**Survey**

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	MapN ft	MapE ft	Comment
2200.00	0.00	222.12	2200.00	0.00	0.00	0.00	0.00	1.45103e07	2090932.70	KOP
2300.00	2.50	222.12	2299.97	-1.62	-1.46	2.18	2.50	1.45103e07	2090931.24	
2400.00	5.00	222.12	2399.75	-6.47	-5.85	8.72	2.50	1.45103e07	2090926.85	
2500.00	7.50	222.12	2499.14	-14.54	-13.15	19.61	2.50	1.45103e07	2090919.55	
2600.00	10.00	222.12	2597.97	-25.83	-23.35	34.82	2.50	1.45103e07	2090909.35	
2700.00	12.50	222.12	2696.04	-40.30	-36.43	54.33	2.50	1.45103e07	2090896.27	
2800.00	15.00	222.12	2793.17	-57.93	-52.37	78.09	2.50	1.45103e07	2090880.33	
2900.00	17.50	222.12	2889.17	-78.68	-71.14	106.07	2.50	1.45103e07	2090861.56	
3000.00	20.00	222.12	2983.85	-102.52	-92.69	138.21	2.50	1.45102e07	2090840.01	
3081.53	22.04	222.12	3059.95	-124.21	-112.30	167.45	2.50	1.45102e07	2090820.40	HOLD
3100.00	22.04	222.12	3077.07	-129.36	-116.95	174.39	0.00	1.45102e07	2090815.75	
3200.00	22.04	222.12	3169.77	-157.19	-142.12	211.91	0.00	1.45102e07	2090790.58	
3300.00	22.04	222.12	3262.46	-185.02	-167.28	249.43	0.00	1.45101e07	2090765.42	
3400.00	22.04	222.12	3355.15	-212.86	-192.44	286.95	0.00	1.45101e07	2090740.26	
3500.00	22.04	222.12	3447.85	-240.69	-217.61	324.48	0.00	1.45101e07	2090715.09	



# Weatherford International, Ltd.

## DIRECTIONAL PLAN REPORT



<b>Company:</b> Anadarko-Kerr-McGee <b>Field:</b> UINTAH COUNTY, UTAH (UTM Zone 12N-NAD 27) <b>Site:</b> NBU 1022-13M1S <b>Well:</b> 13M1S <b>Wellpath:</b> 1	<b>Date:</b> 7/6/2007 <b>Co-ordinate(NE) Reference:</b> <b>Vertical (TVD) Reference:</b> <b>Section (VS) Reference:</b> <b>Survey Calculation Method:</b>	<b>Time:</b> 10:42:34 <b>Site:</b> NBU 1022-13M1S, Grid North <b>SITE:</b> 5302.0 <b>Well (0.00N,0.00E,222.12Azi)</b> <b>Minimum Curvature</b>	<b>Page:</b> 2 <b>Db:</b> Sybase
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**Survey**

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	MapN ft	MapE ft	Comment
3600.00	22.04	222.12	3540.54	-268.52	-242.77	362.00	0.00	1.45101e07	2090689.93	
3700.00	22.04	222.12	3633.23	-296.36	-267.94	399.52	0.00	1.45100e07	2090664.76	
3800.00	22.04	222.12	3725.93	-324.19	-293.10	437.04	0.00	1.45100e07	2090639.60	
3900.00	22.04	222.12	3818.62	-352.02	-318.27	474.57	0.00	1.45100e07	2090614.43	
4000.00	22.04	222.12	3911.31	-379.85	-343.43	512.09	0.00	1.45099e07	2090589.27	
4091.36	22.04	222.12	3996.00	-405.28	-366.42	546.37	0.00	1.45099e07	2090566.28	Wasatch
4100.00	22.04	222.12	4004.01	-407.69	-368.59	549.61	0.00	1.45099e07	2090564.11	
4124.53	22.04	222.12	4026.75	-414.52	-374.77	558.82	0.00	1.45099e07	2090557.93	DROP
4200.00	20.91	222.12	4096.98	-435.01	-393.29	586.44	1.50	1.45099e07	2090539.41	
4300.00	19.41	222.12	4190.85	-460.57	-416.40	620.90	1.50	1.45099e07	2090516.30	
4400.00	17.91	222.12	4285.59	-484.29	-437.86	652.88	1.50	1.45098e07	2090494.84	
4500.00	16.41	222.12	4381.14	-506.17	-457.64	682.38	1.50	1.45098e07	2090475.06	
4600.00	14.91	222.12	4477.43	-526.19	-475.74	709.37	1.50	1.45098e07	2090456.96	
4700.00	13.41	222.12	4574.39	-544.33	-492.14	733.82	1.50	1.45098e07	2090440.56	
4722.20	13.07	222.12	4596.00	-548.10	-495.55	738.91	1.50	1.45098e07	2090437.15	ENTRY INTO TARGET BO
4800.00	11.91	222.12	4671.96	-560.58	-506.83	755.73	1.50	1.45098e07	2090425.87	
4900.00	10.41	222.12	4770.06	-574.94	-519.81	775.08	1.50	1.45098e07	2090412.89	
5000.00	8.91	222.12	4868.64	-587.38	-531.05	791.85	1.50	1.45097e07	2090401.65	
5100.00	7.41	222.12	4967.63	-597.90	-540.57	806.04	1.50	1.45097e07	2090392.13	
5200.00	5.91	222.12	5066.95	-606.50	-548.34	817.63	1.50	1.45097e07	2090384.36	
5300.00	4.41	222.12	5166.54	-613.17	-554.37	826.62	1.50	1.45097e07	2090378.33	
5400.00	2.91	222.12	5266.34	-617.90	-558.65	832.99	1.50	1.45097e07	2090374.05	
5500.00	1.41	222.12	5366.26	-620.69	-561.17	836.76	1.50	1.45097e07	2090371.53	
5593.74	0.00	222.12	5460.00	-621.54	-561.94	837.91	1.50	1.45097e07	2090370.76	HOLD
5600.00	0.00	222.12	5466.26	-621.54	-561.94	837.91	0.00	1.45097e07	2090370.76	
5700.00	0.00	222.12	5566.26	-621.54	-561.94	837.91	0.00	1.45097e07	2090370.76	
5800.00	0.00	222.12	5666.26	-621.54	-561.94	837.91	0.00	1.45097e07	2090370.76	
5900.00	0.00	222.12	5766.26	-621.54	-561.94	837.91	0.00	1.45097e07	2090370.76	
6000.00	0.00	222.12	5866.26	-621.54	-561.94	837.91	0.00	1.45097e07	2090370.76	
6100.00	0.00	222.12	5966.26	-621.54	-561.94	837.91	0.00	1.45097e07	2090370.76	
6200.00	0.00	222.12	6066.26	-621.54	-561.94	837.91	0.00	1.45097e07	2090370.76	
6300.00	0.00	222.12	6166.26	-621.54	-561.94	837.91	0.00	1.45097e07	2090370.76	
6358.74	0.00	222.12	6225.00	-621.54	-561.94	837.91	0.00	1.45097e07	2090370.76	Mesaverde
6400.00	0.00	222.12	6266.26	-621.54	-561.94	837.91	0.00	1.45097e07	2090370.76	
6500.00	0.00	222.12	6366.26	-621.54	-561.94	837.91	0.00	1.45097e07	2090370.76	
6600.00	0.00	222.12	6466.26	-621.54	-561.94	837.91	0.00	1.45097e07	2090370.76	
6700.00	0.00	222.12	6566.26	-621.54	-561.94	837.91	0.00	1.45097e07	2090370.76	
6800.00	0.00	222.12	6666.26	-621.54	-561.94	837.91	0.00	1.45097e07	2090370.76	
6900.00	0.00	222.12	6766.26	-621.54	-561.94	837.91	0.00	1.45097e07	2090370.76	
7000.00	0.00	222.12	6866.26	-621.54	-561.94	837.91	0.00	1.45097e07	2090370.76	
7100.00	0.00	222.12	6966.26	-621.54	-561.94	837.91	0.00	1.45097e07	2090370.76	
7200.00	0.00	222.12	7066.26	-621.54	-561.94	837.91	0.00	1.45097e07	2090370.76	
7300.00	0.00	222.12	7166.26	-621.54	-561.94	837.91	0.00	1.45097e07	2090370.76	
7400.00	0.00	222.12	7266.26	-621.54	-561.94	837.91	0.00	1.45097e07	2090370.76	
7500.00	0.00	222.12	7366.26	-621.54	-561.94	837.91	0.00	1.45097e07	2090370.76	
7600.00	0.00	222.12	7466.26	-621.54	-561.94	837.91	0.00	1.45097e07	2090370.76	
7700.00	0.00	222.12	7566.26	-621.54	-561.94	837.91	0.00	1.45097e07	2090370.76	
7800.00	0.00	222.12	7666.26	-621.54	-561.94	837.91	0.00	1.45097e07	2090370.76	
7900.00	0.00	222.12	7766.26	-621.54	-561.94	837.91	0.00	1.45097e07	2090370.76	
8000.00	0.00	222.12	7866.26	-621.54	-561.94	837.91	0.00	1.45097e07	2090370.76	
8100.00	0.00	222.12	7966.26	-621.54	-561.94	837.91	0.00	1.45097e07	2090370.76	
8200.00	0.00	222.12	8066.26	-621.54	-561.94	837.91	0.00	1.45097e07	2090370.76	

<b>Company:</b> Anadarko-Kerr-McGee	<b>Date:</b> 7/6/2007	<b>Time:</b> 10:42:34	<b>Page:</b> 3
<b>Field:</b> UTAH COUNTY, UTAH (UTM Zone 12N-NAD 27)	<b>Co-ordinate(NE) Reference:</b>	<b>Site:</b> NBU 1022-13M1S, Grid North	
<b>Site:</b> NBU 1022-13M1S	<b>Vertical (TVD) Reference:</b>	<b>SITE</b> 5302.0	
<b>Well:</b> 13M1S	<b>Section (VS) Reference:</b>	<b>Well</b> (0.00N,0.00E,222.12Azi)	
<b>Wellpath:</b> 1	<b>Survey Calculation Method:</b>	<b>Minimum Curvature</b>	<b>Db:</b> Sybase

**Survey**

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	MapN ft	MapE ft	Comment
8300.00	0.00	222.12	8166.26	-621.54	-561.94	837.91	0.00	1.45097e07	2090370.76	
8343.74	0.00	222.12	8210.00	-621.54	-561.94	837.91	0.00	1.45097e07	2090370.76	PBHL 13M1S

**Targets**

Name	Description Dip.	TVD Dir.	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	<--- Latitude ---> Deg Min Sec	<--- Longitude ---> Deg Min Sec
PBHL 13M1S			8210.00	-621.54	-561.94	14509757.662090370.76	39 56 38.964 N	109 23 40.920 W
	-Circle (Radius: 100)							
	-Plan hit target							

**Casing Points**

MD	TVD	Diameter	Hole Size	Name

**Annotation**

MD ft	TVD ft	
2200.00	2200.00	KOP
3081.53	3059.95	HOLD
4124.53	4026.75	DROP
4722.20	4596.00	ENTRY INTO TARGET BOX
5593.74	5460.00	HOLD
8343.74	8210.00	PBHL

**Formations**

MD ft	TVD ft	Formations	Lithology	Dip Angle deg	Dip Direction deg
945.00	945.00	Green River		0.00	0.00
4091.36	3996.00	Wasatch		0.00	0.00
6358.74	6225.00	Mesaverde		0.00	0.00

<b>Company:</b>	Anadarko-Kerr-McGee	<b>Date:</b> 7/6/2007	<b>Time:</b> 12:25:20	<b>Page:</b> 1
<b>Field:</b>	UINTAH COUNTY, UTAH (UTM Zone 12N-NAD 27)			
<b>Reference Site:</b>	NBU 1022-13M1S	<b>Co-ordinate(NE) Reference:</b>	Site: NBU 1022-13M1S, Grid North	
<b>Reference Well:</b>	13M1S	<b>Vertical (TVD) Reference:</b>	SITE 5302.0	
<b>Reference Wellpath:</b>	1	<b>Db:</b> Sybase		

<b>NO GLOBAL SCAN: Using user defined selection &amp; scan criteria</b>		<b>Reference:</b>	Plan: Plan #1
<b>Interpolation Method:</b> MD	<b>Interval:</b> 100.00 ft	<b>Error Model:</b>	ISCWSA Ellipse
<b>Depth Range:</b> 2200.00 to 8343.75 ft		<b>Scan Method:</b>	Closest Approach 3D
<b>Maximum Radius:</b> 10000.00 ft		<b>Error Surface:</b>	Ellipse

<b>Plan:</b> Plan #1	<b>Date Composed:</b> 7/6/2007
<b>Principal:</b> Yes	<b>Version:</b> 1
	<b>Tied-to:</b> From Surface

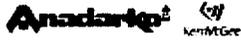
**Summary**

Site	Offset Wellpath Well	Wellpath	Reference MD ft	Offset MD ft	Ctr-Ctr Distance ft	Edge Distance ft	Separation Factor	Warning
NBU 1022-13M2CS	13M2CS	1 VO Plan: Undefined	2900.00	2905.45	19.26	6.67	1.53	

Site: NBU 1022-13M2CS  
 Well: 13M2CS  
 Wellpath: 1 VO Plan: Undefined

**Inter-Site Error:** 0.00 ft

Reference MD ft	TVD ft	Offset MD ft	TVD ft	Semi-Major Axis Ref ft	Offset ft	TFO-HS deg	Offset Location North ft	East ft	Ctr-Ctr Distance ft	Edge Distance ft	Separation Factor	Warning
2200.00	2200.00	2200.00	2200.00	4.49	4.49	179.72	15.30	13.70	20.54	11.57	2.29	
2300.00	2299.97	2300.82	2300.80	4.70	4.70	179.15	14.34	12.54	21.25	11.86	2.26	
2400.00	2399.75	2401.93	2401.67	4.91	4.91	176.54	10.08	7.39	21.28	11.50	2.17	
2500.00	2499.14	2502.98	2502.00	5.13	5.14	171.57	2.44	-1.87	20.59	10.42	2.02	
2600.00	2597.97	2603.93	2601.45	5.36	5.38	163.48	-8.57	-15.18	19.41	8.86	1.84	
2700.00	2696.04	2704.70	2699.67	5.63	5.66	151.26	-22.87	-32.50	18.23	7.22	1.66	
2800.00	2793.17	2805.23	2796.34	5.92	5.98	134.43	-40.41	-53.72	17.85	6.19	1.53	
2900.00	2889.17	2905.45	2891.15	6.27	6.37	115.07	-61.10	-78.76	19.26	6.67	1.53	
3000.00	2983.85	3005.32	2983.79	6.68	6.84	97.45	-84.84	-107.49	23.06	9.42	1.69	
3100.00	3077.07	3104.78	3073.99	7.15	7.40	83.94	-111.51	-139.76	29.13	14.50	1.99	
3200.00	3169.77	3203.45	3161.21	7.68	8.05	70.42	-140.89	-175.32	37.97	22.54	2.46	
3300.00	3262.46	3300.80	3244.81	8.24	8.80	57.72	-172.66	-213.76	51.23	35.35	3.23	
3400.00	3355.15	3396.36	3324.29	8.82	9.63	47.75	-206.43	-254.63	69.72	53.65	4.34	
3500.00	3447.85	3489.71	3399.28	9.43	10.54	40.42	-241.83	-297.47	93.48	77.16	5.73	
3600.00	3540.54	3583.78	3472.64	10.05	11.54	35.15	-279.34	-342.87	121.44	104.75	7.27	
3700.00	3633.23	3679.21	3546.87	10.69	12.59	31.75	-317.55	-389.10	150.29	133.04	8.71	
3800.00	3725.93	3774.65	3621.11	11.34	13.66	29.44	-355.75	-435.33	179.48	161.58	10.03	
3900.00	3818.62	3870.09	3695.35	12.00	14.76	27.78	-393.95	-481.57	208.86	190.26	11.23	
4000.00	3911.31	3965.52	3769.59	12.67	15.87	26.52	-432.15	-527.80	238.36	219.03	12.33	
4100.00	4004.01	4060.96	3843.82	13.34	16.99	25.55	-470.36	-574.03	267.94	247.85	13.34	
4200.00	4096.98	4156.18	3917.89	13.87	18.12	24.85	-508.47	-620.16	298.22	277.48	14.38	
4300.00	4190.85	4263.44	4002.38	14.15	19.09	24.16	-550.55	-671.08	329.36	308.28	15.62	
4400.00	4285.59	4377.23	4095.53	14.43	19.96	23.62	-592.17	-721.45	358.03	336.69	16.77	
4500.00	4381.14	4493.78	4194.48	14.69	20.79	23.24	-631.38	-768.90	383.93	362.34	17.78	
4600.00	4477.43	4612.91	4299.03	14.94	21.58	22.98	-667.75	-812.91	406.88	385.07	18.65	
4700.00	4574.39	4734.40	4408.82	15.17	22.30	22.82	-700.86	-852.97	426.75	404.78	19.42	
4800.00	4671.96	4857.96	4523.39	15.37	22.94	22.73	-730.29	-888.59	443.41	421.34	20.09	
4900.00	4770.06	4983.27	4642.18	15.55	23.49	22.71	-755.67	-919.31	456.75	434.64	20.66	
5000.00	4868.64	5109.96	4764.49	15.69	23.94	22.76	-776.65	-944.70	466.67	444.59	21.14	
5100.00	4967.63	5237.62	4889.54	15.81	24.26	22.86	-792.97	-964.45	473.10	451.14	21.54	
5200.00	5066.95	5365.83	5016.46	15.89	24.47	23.03	-804.42	-978.31	476.02	454.24	21.85	
5300.00	5166.54	5494.15	5144.36	15.94	24.57	23.26	-810.88	-986.13	475.39	453.86	22.08	
5400.00	5266.34	5616.17	5266.34	15.96	24.57	23.54	-812.43	-988.00	471.37	438.54	14.36	
5500.00	5366.26	5716.10	5366.26	15.94	24.62	23.70	-812.43	-988.00	467.92	435.11	14.26	
5600.00	5466.26	5816.09	5466.26	15.88	24.67	245.87	-812.43	-988.00	466.87	428.85	12.28	
5700.00	5566.26	5916.09	5566.26	15.96	24.72	245.87	-812.43	-988.00	466.87	428.72	12.24	



# Weatherford International, Ltd.

## Anticollision Report



**Company:** Anadarko-Kerr-McGee      **Date:** 7/6/2007      **Time:** 12:25:20      **Page:** 2  
**Field:** UINTAH COUNTY, UTAH (UTM Zone 12N-NAD 27)  
**Reference Site:** NBU 1022-13M1S      **Co-ordinate(NE) Reference:** Site: NBU 1022-13M1S, Grid North  
**Reference Well:** 13M1S      **Vertical (TVD) Reference:** SITE 5302.0  
**Reference Wellpath:** 1      **Db:** Sybase

**Site:** NBU 1022-13M2CS  
**Well:** 13M2CS  
**Wellpath:** 1 V0 Plan: Undefined

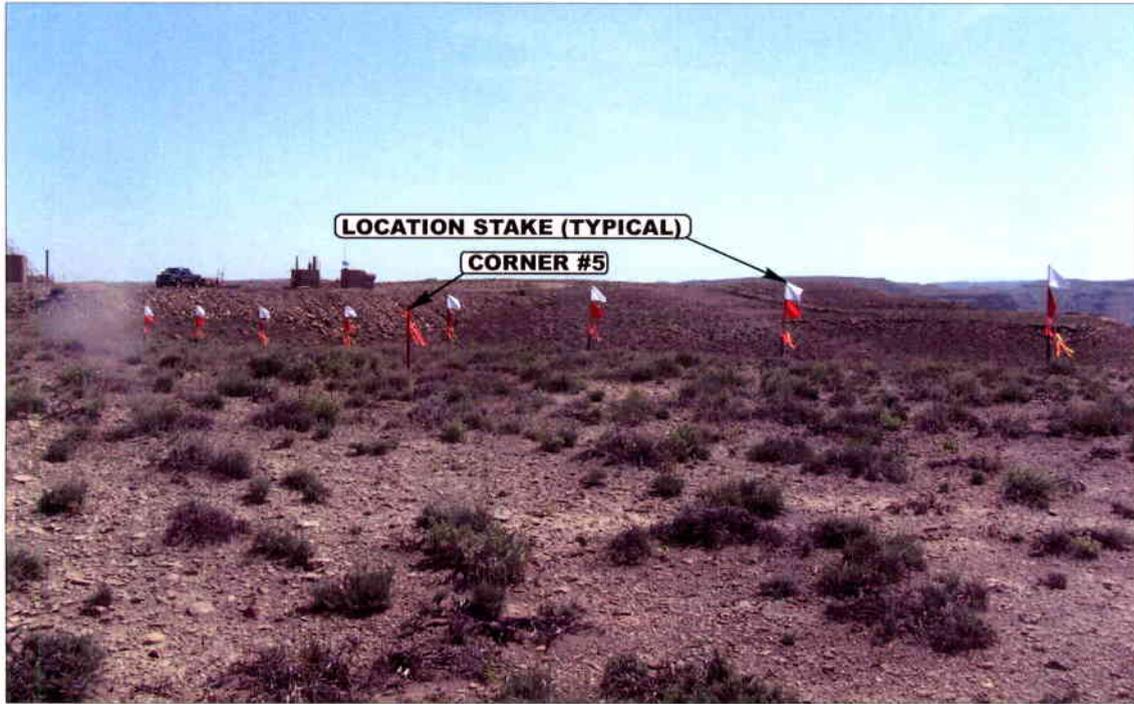
**Inter-Site Error:** 0.00 ft

Reference		Offset		Semi-Major Axis			Offset Location		Ctr-Ctr Distance	Edge Distance	Separation Factor	Warning
MD	TVD	MD	TVD	Ref	Offset	TFO-HS	North	East				
ft	ft	ft	ft	ft	ft	deg	ft	ft	ft	ft		
5800.00	5666.26	6016.09	5666.26	16.04	24.78	245.87	-812.43	-988.00	466.87	428.58	12.19	
5900.00	5766.26	6116.09	5766.26	16.12	24.83	245.87	-812.43	-988.00	466.87	428.43	12.15	
6000.00	5866.26	6216.09	5866.26	16.20	24.89	245.87	-812.43	-988.00	466.87	428.28	12.10	
6100.00	5966.26	6316.09	5966.26	16.28	24.95	245.87	-812.43	-988.00	466.87	428.13	12.05	
6200.00	6066.26	6416.09	6066.26	16.37	25.01	245.87	-812.43	-988.00	466.87	427.97	12.00	
6300.00	6166.26	6516.09	6166.26	16.46	25.07	245.87	-812.43	-988.00	466.87	427.81	11.95	
6400.00	6266.26	6616.09	6266.26	16.55	25.14	245.87	-812.43	-988.00	466.87	427.64	11.90	
6500.00	6366.26	6716.09	6366.26	16.64	25.21	245.87	-812.43	-988.00	466.87	427.47	11.85	
6600.00	6466.26	6816.09	6466.26	16.74	25.27	245.87	-812.43	-988.00	466.87	427.30	11.80	
6700.00	6566.26	6916.09	6566.26	16.83	25.34	245.87	-812.43	-988.00	466.87	427.12	11.75	
6800.00	6666.26	7016.09	6666.26	16.93	25.41	245.87	-812.43	-988.00	466.87	426.94	11.69	
6900.00	6766.26	7116.09	6766.26	17.04	25.48	245.87	-812.43	-988.00	466.87	426.76	11.64	
7000.00	6866.26	7216.09	6866.26	17.14	25.56	245.87	-812.43	-988.00	466.87	426.57	11.59	
7100.00	6966.26	7316.09	6966.26	17.24	25.63	245.87	-812.43	-988.00	466.87	426.38	11.53	
7200.00	7066.26	7416.09	7066.26	17.35	25.71	245.87	-812.43	-988.00	466.87	426.18	11.48	
7300.00	7166.26	7516.09	7166.26	17.46	25.79	245.87	-812.43	-988.00	466.87	425.98	11.42	
7400.00	7266.26	7616.09	7266.26	17.57	25.87	245.87	-812.43	-988.00	466.87	425.78	11.36	
7500.00	7366.26	7716.09	7366.26	17.68	25.95	245.87	-812.43	-988.00	466.87	425.58	11.31	
7600.00	7466.26	7816.09	7466.26	17.80	26.03	245.87	-812.43	-988.00	466.87	425.37	11.25	
7700.00	7566.26	7916.09	7566.26	17.91	26.12	245.87	-812.43	-988.00	466.87	425.16	11.19	
7800.00	7666.26	8016.09	7666.26	18.03	26.20	245.87	-812.43	-988.00	466.87	424.94	11.14	
7900.00	7766.26	8116.09	7766.26	18.15	26.29	245.87	-812.43	-988.00	466.87	424.73	11.08	
8000.00	7866.26	8216.09	7866.26	18.27	26.38	245.87	-812.43	-988.00	466.87	424.50	11.02	
8100.00	7966.26	8316.09	7966.26	18.39	26.47	245.87	-812.43	-988.00	466.87	424.28	10.96	
8200.00	8066.26	8416.09	8066.26	18.52	26.56	245.87	-812.43	-988.00	466.87	424.05	10.90	
8300.00	8166.26	8516.09	8166.26	18.64	26.65	245.87	-812.43	-988.00	466.87	423.82	10.85	

# Kerr-McGee Oil & Gas Onshore LP

NBU #1022-13K-3T, #1022-13O4S, #1022-13O1CS, #1022-13O2S,  
 #1022-13K4S, #1022-13I3S, #1022-13O1AS, #1022-13J4S,  
 #1022-13I4S, #1022-13L4S, #1022-13L3S, #1022-13K3S,  
 #1022-13M2AS, #1022-13N2S, #1022-13N1S, #1022-13M2CS  
 & #1022-13M1S

**LOCATED IN UTAH COUNTY, UTAH  
 SECTION 13, T10S, R22E, S.L.B.&M.**



**PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKES**

**CAMERA ANGLE: SOUTHERLY**



**PHOTO: VIEW OF EXISTING ACCESS**

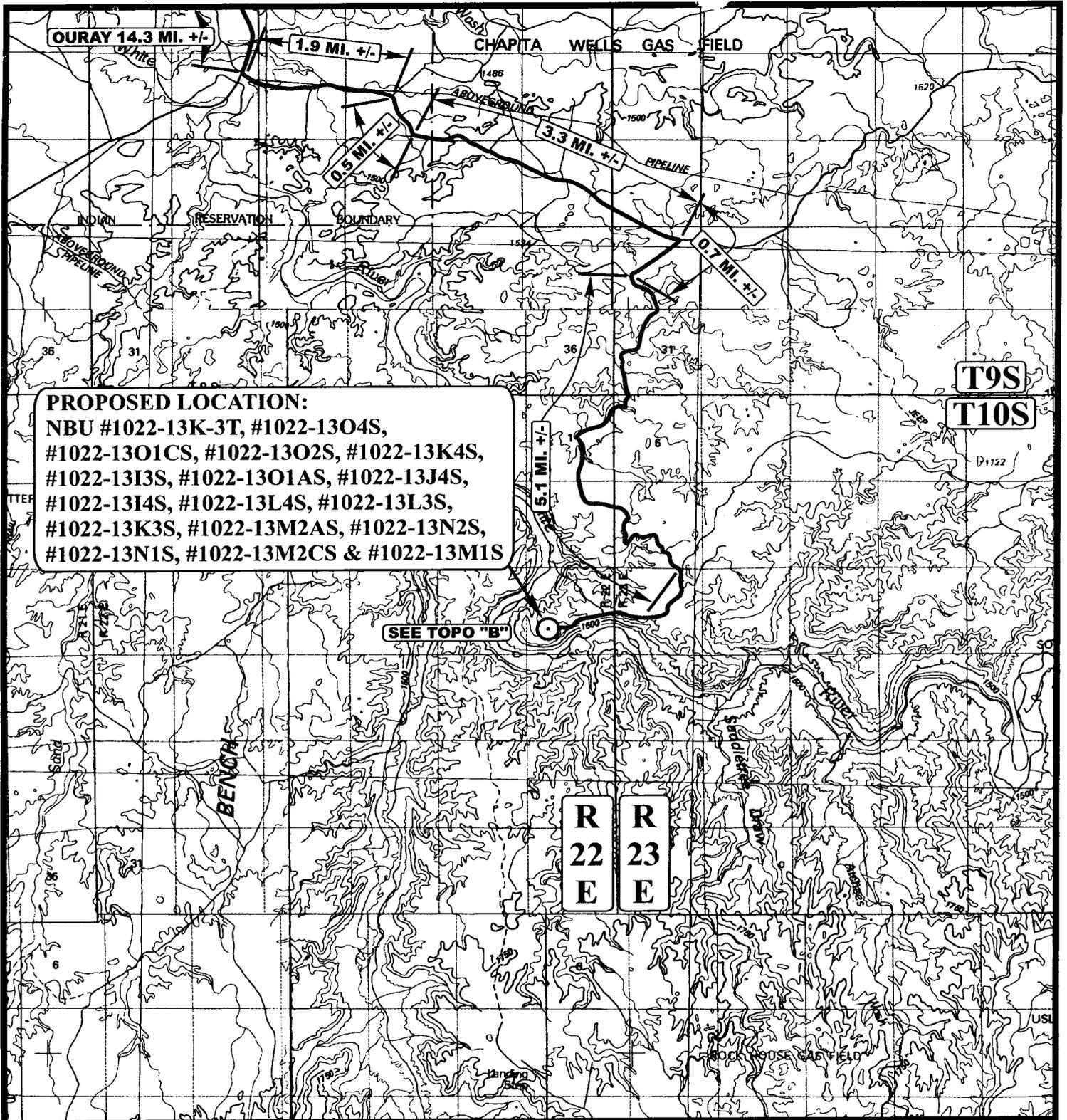
**CAMERA ANGLE: WESTERLY**



**U E L S** Uintah Engineering & Land Surveying  
 85 South 200 East Vernal, Utah 84078  
 435-789-1017 uels@uelsinc.com

- Since 1964 -

<b>LOCATION PHOTOS</b>	<b>05</b>	<b>17</b>	<b>07</b>	<b>PHOTO</b>
	MONTH	DAY	YEAR	
TAKEN BY: L.K.	DRAWN BY: C.P.	REVISED: 00-00-00		



**PROPOSED LOCATION:**  
 NBU #1022-13K-3T, #1022-13O4S,  
 #1022-13O1CS, #1022-13O2S, #1022-13K4S,  
 #1022-13I3S, #1022-13O1AS, #1022-13J4S,  
 #1022-13I4S, #1022-13L4S, #1022-13L3S,  
 #1022-13K3S, #1022-13M2AS, #1022-13N2S,  
 #1022-13N1S, #1022-13M2CS & #1022-13M1S

**LEGEND:**

○ PROPOSED LOCATION



**Kerr-McGee Oil & Gas Onshore LP**

NBU#1022-13K-3T, #1022-13O4S, #1022-13O1CS, #1022-13O2S,  
 #1022-13K4S, #1022-13I3S, #1022-13O1AS, #1022-13J4S,  
 #1022-13I4S, #1022-13L4S, #1022-13L3S, #1022-13K3S,  
 #1022-13M2AS, #1022-13N2S, #1022-13N1S, #1022-13M2CS  
 & #1022-13M1S

SECTION 13, T10S, R22E, S.L.B.&M.; SW 1/4



Utah Engineering & Land Surveying  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813

TOPOGRAPHIC  
 MAP

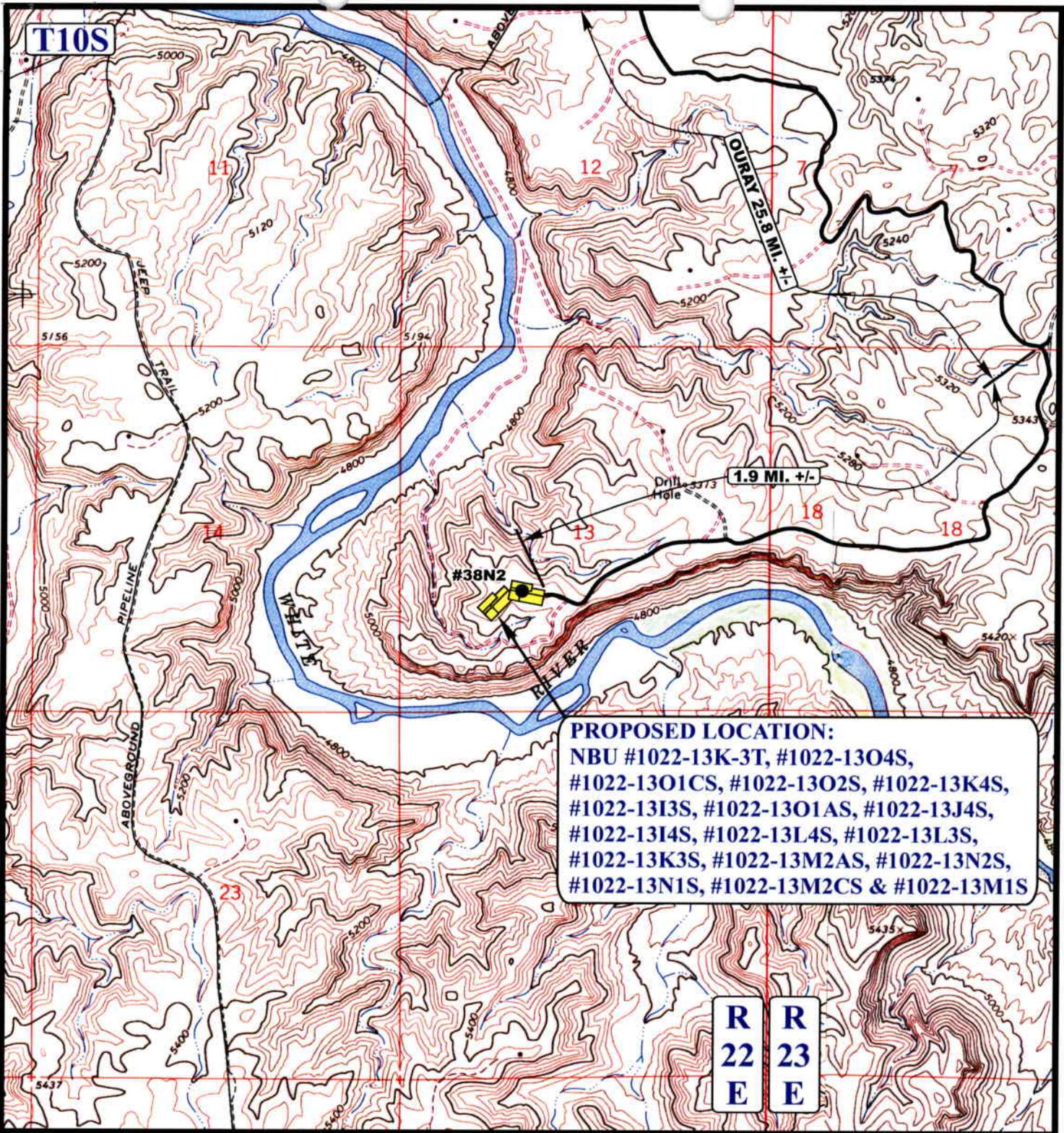
05 17 07  
 MONTH DAY YEAR

SCALE: 1:100,000

DRAWN BY: C.P.

REVISED: 00-00-00





**PROPOSED LOCATION:**  
 NBU #1022-13K-3T, #1022-13O4S,  
 #1022-13O1CS, #1022-13O2S, #1022-13K4S,  
 #1022-13I3S, #1022-13O1AS, #1022-13J4S,  
 #1022-13I4S, #1022-13L4S, #1022-13L3S,  
 #1022-13K3S, #1022-13M2AS, #1022-13N2S,  
 #1022-13N1S, #1022-13M2CS & #1022-13M1S

**R R**  
**22 23**  
**E E**

**LEGEND:**

- EXISTING ROAD
- - - - - PROPOSED ACCESS ROAD

**Kerr-McGee Oil & Gas Onshore LP**

NBU#1022-13K-3T, #1022-13O4S, #1022-13O1CS, #1022-13O2S,  
 #1022-13K4S, #1022-13I3S, #1022-13O1AS, #1022-13J4S,  
 #1022-13I4S, #1022-13L4S, #1022-13L3S, #1022-13K3S,  
 #1022-13M2AS, #1022-13N2S, #1022-13N1S, #1022-13M2CS  
 & #1022-13M1S

SECTION 13, T10S, R22E, S.L.B.&M.; SW 1/4

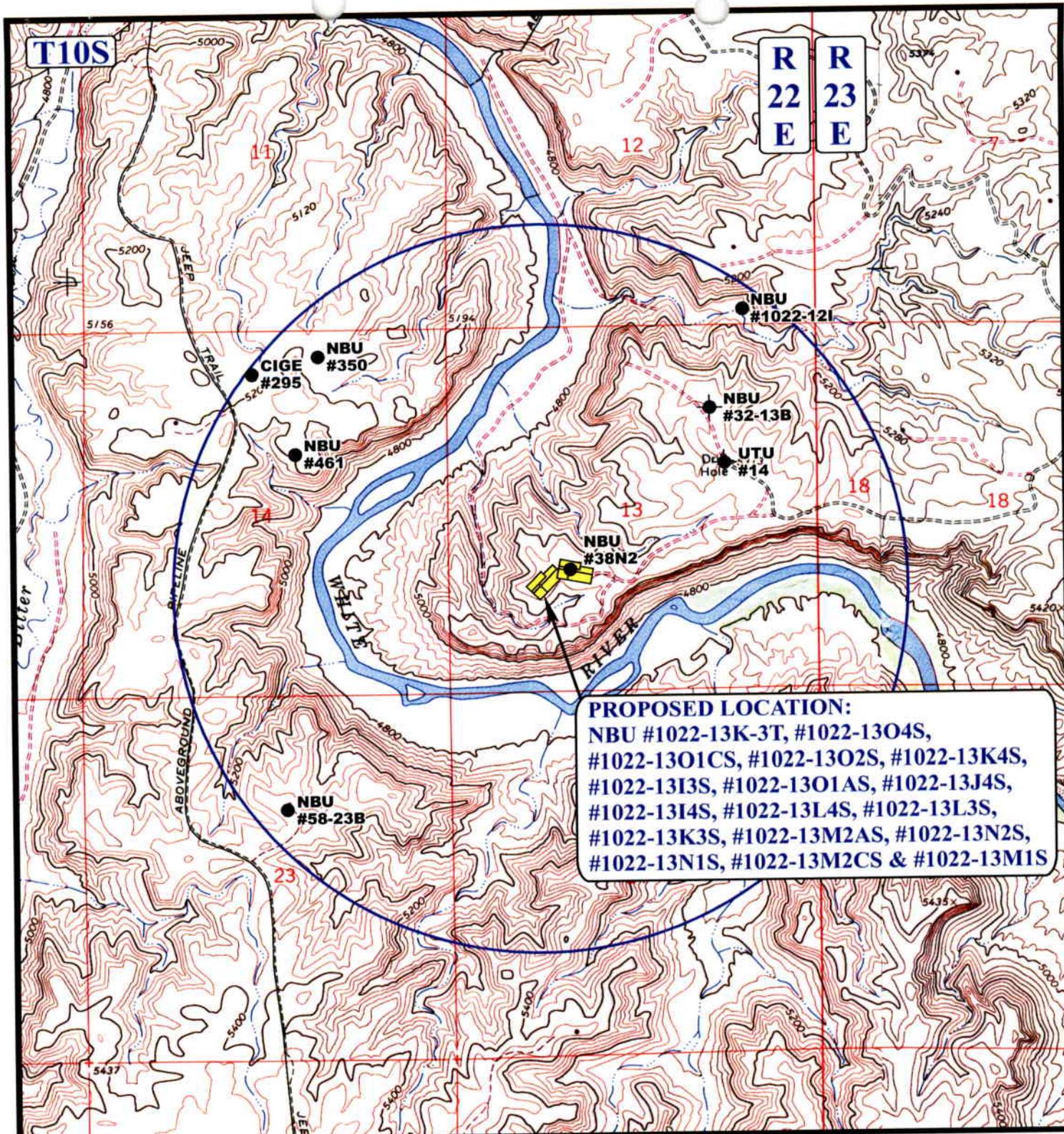


**Uintah Engineering & Land Surveying**  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813



**TOPOGRAPHIC MAP** **05 17 07**  
 MONTH DAY YEAR  
 SCALE: 1" = 2000' DRAWN BY: C.P. REVISED: 00-00-00





**PROPOSED LOCATION:**  
 NBU #1022-13K-3T, #1022-13O4S,  
 #1022-13O1CS, #1022-13O2S, #1022-13K4S,  
 #1022-13I3S, #1022-13O1AS, #1022-13J4S,  
 #1022-13I4S, #1022-13L4S, #1022-13L3S,  
 #1022-13K3S, #1022-13M2AS, #1022-13N2S,  
 #1022-13N1S, #1022-13M2CS & #1022-13M1S

**LEGEND:**

- ⊗ DISPOSAL WELLS
- PRODUCING WELLS
- SHUT IN WELLS
- ⊗ WATER WELLS
- ABANDONED WELLS
- TEMPORARILY ABANDONED



**Kerr-McGee Oil & Gas Onshore LP**

NBU#1022-13K-3T, #1022-13O4S, #1022-13O1CS, #1022-13O2S,  
 #1022-13K4S, #1022-13I3S, #1022-13O1AS, #1022-13J4S,  
 #1022-13I4S, #1022-13L4S, #1022-13L3S, #1022-13K3S,  
 #1022-13M2AS, #1022-13N2S, #1022-13N1S, #1022-13M2CS  
 & #1022-13M1S

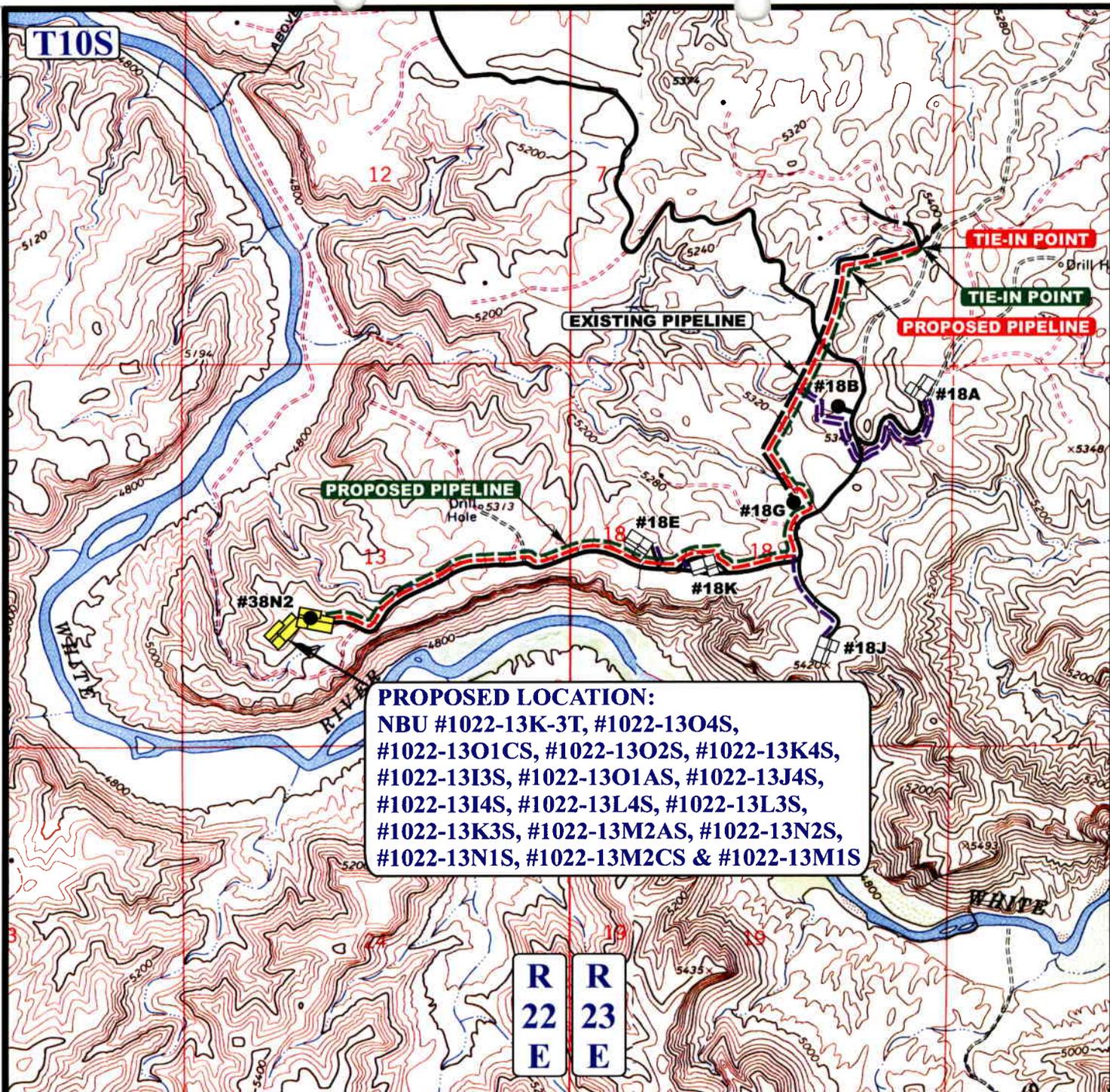
SECTION 13, T10S, R22E, S.L.B.&M.; SW 1/4



**Uintah Engineering & Land Surveying**  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813

**TOPOGRAPHIC MAP** 05 17 07  
 MONTH DAY YEAR  
 SCALE: 1" = 2000' DRAWN BY: C.P. REVISED: 00-00-00





**APPROXIMATE TOTAL 10" PIPELINE DISTANCE = 12,184' +/-**

**APPROXIMATE TOTAL 6" PIPELINE DISTANCE = 12,184' +/-**

**LEGEND:**

- EXISTING ROAD
- EXISTING PIPELINE
- PROPOSED PIPELINE
- PROPOSED PIPELINE
- PROPOSED PIPELINE (SERVICING OTHER WELLS)



**Kerr-McGee Oil & Gas Onshore LP**

NBU#1022-13K-3T, #1022-13O4S, #1022-13O1CS, #1022-13O2S,  
 #1022-13K4S, #1022-13I3S, #1022-13O1AS, #1022-13J4S,  
 #1022-13I4S, #1022-13L4S, #1022-13L3S, #1022-13K3S,  
 #1022-13M2AS, #1022-13N2S, #1022-13N1S, #1022-13M2CS  
 & #1022-13M1S

SECTION 13, T10S, R22E, S.L.B.&M.; SW 1/4



**Uintah Engineering & Land Surveying**  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813

**TOPOGRAPHIC  
 MAP**

**05 17 07**  
 MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: C.P. REVISED: 07-19-07



# Kerr-McGee Oil & Gas Onshore LP

NBU #1022-13K-3T, #1022-13O4S, #1022-13O1CS, #1022-13O2S,  
#1022-13K4S, #1022-13I3S, #1022-13O1AS, #1022-13J4S,  
#1022-13I4S, #1022-13L4S, #1022-13L3S, #1022-13K3S,  
#1022-13M2AS, #1022-13N2S, #1022-13N1S, #1022-13M2CS  
& #1022-13M1S

PIPELINE ALIGNMENT  
LOCATED IN UINTAH COUNTY, UTAH  
SECTION 13, T10S, R22E, S.L.B.&M.



PHOTO: VIEW FROM TIE-IN POINT

CAMERA ANGLE: WESTERLY



PHOTO: VIEW OF PIPELINE ALIGNMENT

CAMERA ANGLE: WESTERLY



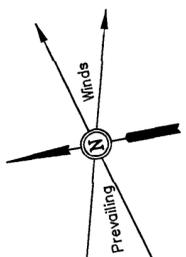
**UELS** Uintah Engineering & Land Surveying  
85 South 200 East Vernal, Utah 84078  
435-789-1017 uels@uelsinc.com

PIPELINE PHOTOS	05	17	07	PHOTO
	MONTH	DAY	YEAR	
TAKEN BY: L.K.	DRAWN BY: C.P.		REVISED: 00-00-00	

FIGURE #1

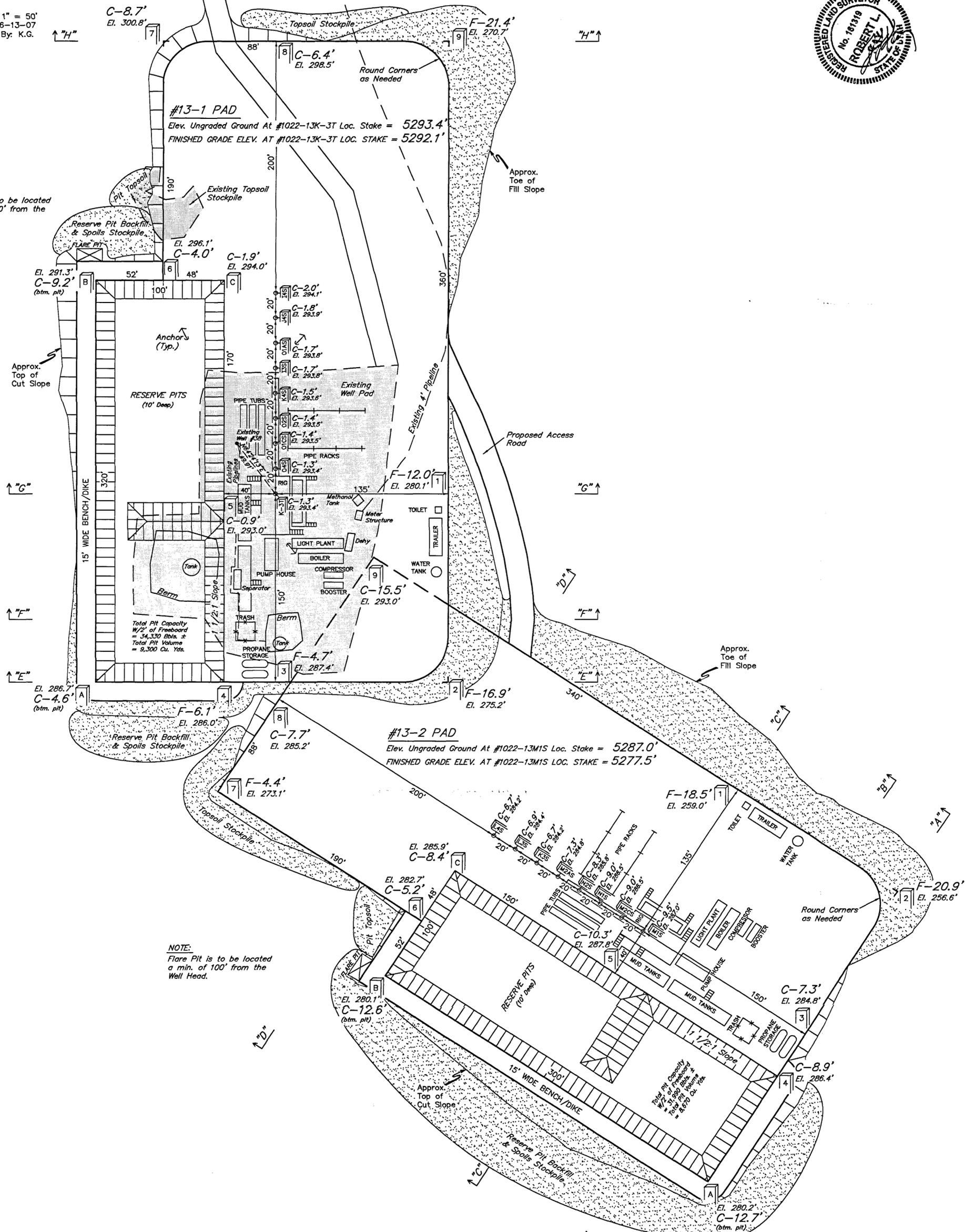
LOCATION LAYOUT FOR

NBU #1022-13K-3T, #1022-13O4S,  
 #1022-13O1CS, #1022-13O2S, #1022-13K4S,  
 #1022-13I3S, #1022-13O1AS, #1022-13J4S,  
 #1022-13I4S, #1022-13L4S, #1022-13L3S,  
 #1022-13K3S, #1022-13M2AS, #1022-13N2S,  
 #1022-13N1S, #1022-13M2CS & #1022-13M1S  
 SECTION 13, T10S, R22E, S.L.B.&M.  
 SW 1/4



SCALE: 1" = 50'  
 DATE: 6-13-07  
 Drawn By: K.G.

NOTE:  
 Flare Pit is to be located  
 a min. of 100' from the  
 Well Head.



NOTE:  
 Flare Pit is to be located  
 a min. of 100' from the  
 Well Head.

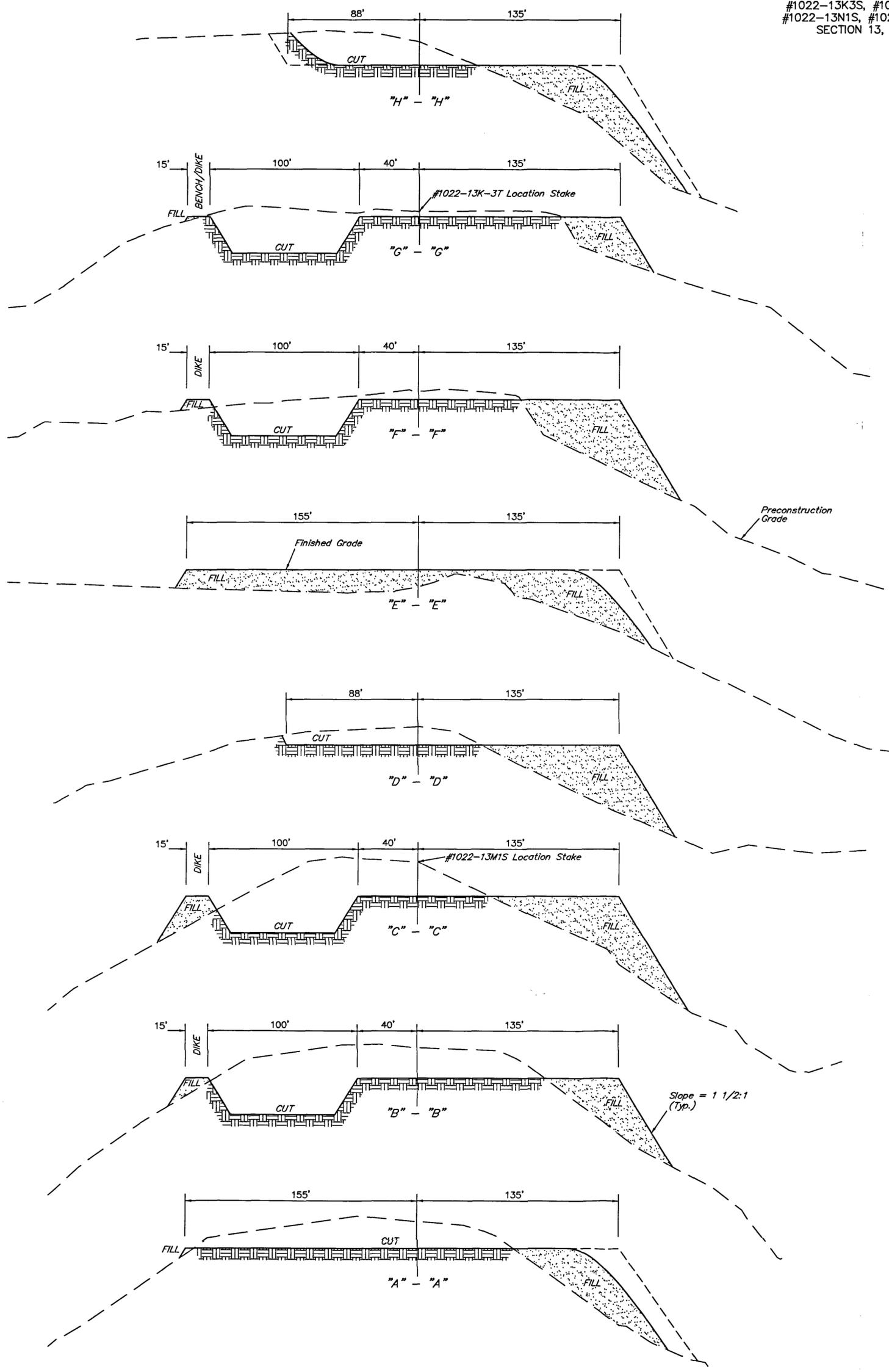
FIGURE #2

TYPICAL CROSS SECTIONS FOR

NBU #1022-13K-3T, #1022-1304S,  
 #1022-1301CS, #1022-1302S, #1022-13K4S,  
 #1022-13J3S, #1022-1301AS, #1022-13J4S,  
 #1022-13I4S, #1022-13L4S, #1022-13L3S,  
 #1022-13K3S, #1022-13M2AS, #1022-13N2S,  
 #1022-13N1S, #1022-13M2CS & #1022-13M1S  
 SECTION 13, T10S, R22E, S.L.B.&M.  
 SW 1/4



1" = 20'  
 X-Section  
 Scale  
 1" = 50'  
 DATE: 6-13-07  
 Drawn By: K.G.



NOTE:  
 Topsoil should not be Stripped Below Finished Grade on Substructure Area.

APPROXIMATE YARDAGES FOR #13-1 PAD

CUT	
(6") Topsoil Stripping	= 3,160 Cu. Yds.
Remaining Location	= 18,230 Cu. Yds.
<b>TOTAL CUT</b>	<b>= 21,390 CU.YDS.</b>
<b>FILL</b>	<b>= 13,580 CU.YDS.</b>
EXCESS MATERIAL	= 7,810 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	= 7,810 Cu. Yds.
EXCESS UNBALANCE (After Interim Rehabilitation)	= 0 Cu. Yds.

APPROXIMATE YARDAGES FOR #13-2 PAD

CUT	
(6") Topsoil Stripping	= 2,860 Cu. Yds.
Remaining Location	= 24,050 Cu. Yds.
<b>TOTAL CUT</b>	<b>= 26,910 CU.YDS.</b>
<b>FILL</b>	<b>= 19,710 CU.YDS.</b>
EXCESS MATERIAL	= 7,200 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	= 7,200 Cu. Yds.
EXCESS UNBALANCE (After Interim Rehabilitation)	= 0 Cu. Yds.

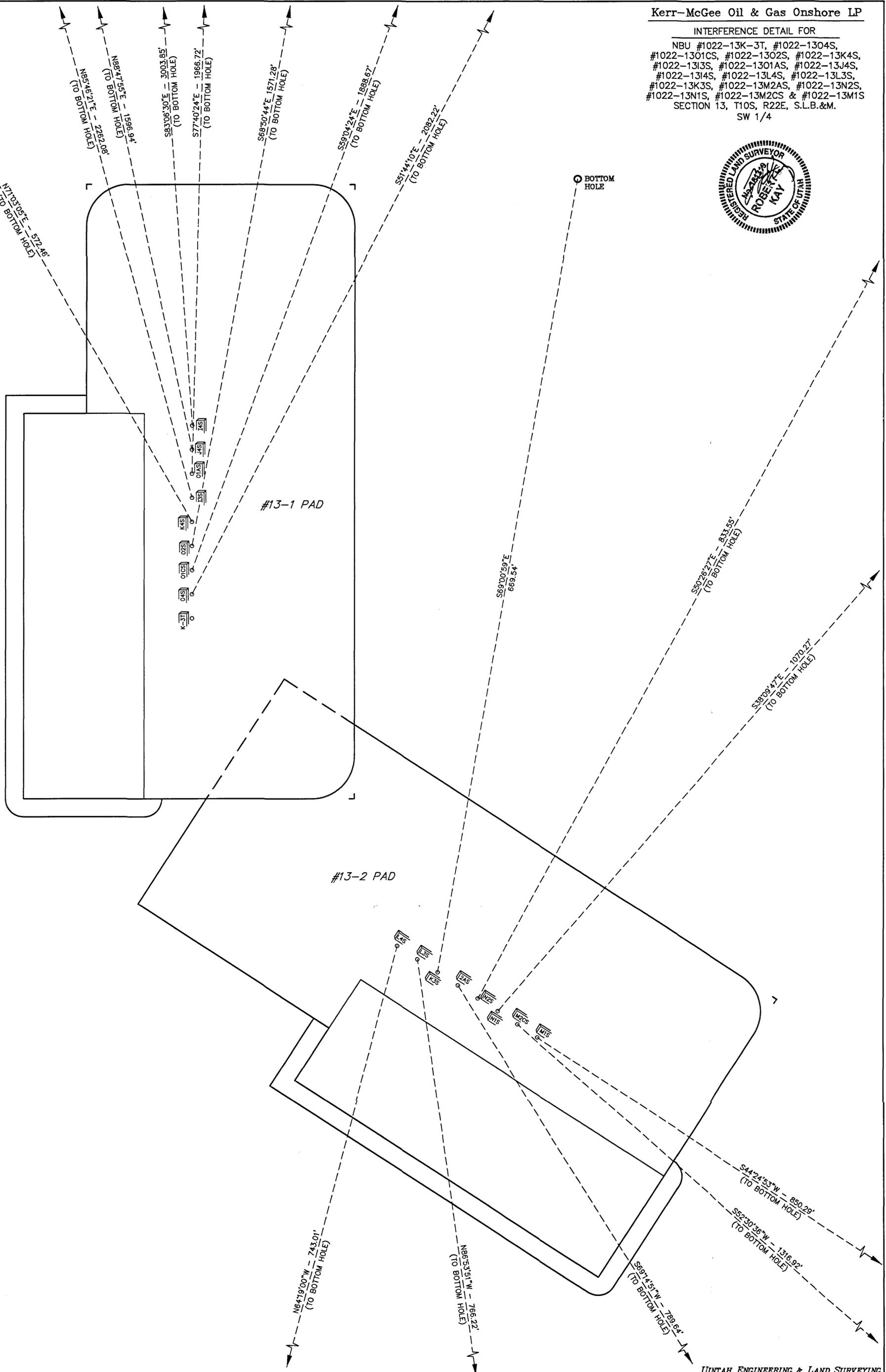
\* NOTE:  
 FILL QUANTITY INCLUDES 5% FOR COMPACTION

INTERFERENCE DETAIL FOR

NBU #1022-13K-3T, #1022-13O4S,  
#1022-13O1CS, #1022-13O2S, #1022-13K4S,  
#1022-13I3S, #1022-13O1AS, #1022-13J4S,  
#1022-13I4S, #1022-13L4S, #1022-13L3S,  
#1022-13K3S, #1022-13M2AS, #1022-13N2S,  
#1022-13N1S, #1022-13M2CS & #1022-13M1S  
SECTION 13, T10S, R22E, S.L.B.&M.  
SW 1/4



SCALE: 1" = 50'  
DATE: 6-13-07  
Drawn By: K.G.



**WORKSHEET  
APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 08/06/2007

API NO. ASSIGNED: 43-047-39482

WELL NAME: NBU 1022-13M1S  
 OPERATOR: KERR-MCGEE OIL & GAS ( N2995 )  
 CONTACT: SHEILA UPCHEGO

PHONE NUMBER: 435-781-7024

PROPOSED LOCATION:

NWSW 13 100S 220E  
 SURFACE: 1538 FSL 1275 FWL  
 BOTTOM: 0930 FSL 0700 FWL  
 COUNTY: UINTAH  
 LATITUDE: 39.94589 LONGITUDE: -109.3925  
 UTM SURF EASTINGS: 637333 NORTHINGS: 4422778  
 FIELD NAME: NATURAL BUTTES ( 630 )

INSPECT LOCATN BY: / /		
Tech Review	Initials	Date
Engineering	DKD	9/7/07
Geology		
Surface		

*SWSW*

LEASE TYPE: 3 - State  
 LEASE NUMBER: STUO-08512-ST  
 SURFACE OWNER: 3 - State

PROPOSED FORMATION: WSMVD  
 COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

- Plat
- Bond: Fed[] Ind[] Sta[] Fee[]  
(No. 22013542 )
- Potash (Y/N)
- Oil Shale 190-5 (B) or 190-3 or 190-13
- Water Permit  
(No. 43-8496 )
- RDCC Review (Y/N)  
(Date: \_\_\_\_\_ )
- Fee Surf Agreement (Y/N)
- Intent to Commingle (Y/N)

LOCATION AND SITING:

- R649-2-3.
- Unit: NATURAL BUTTES
- R649-3-2. General  
Siting: 460 From Qtr/Qtr & 920' Between Wells
- R649-3-3. Exception
- Drilling Unit  
Board Cause No: 17214  
Eff Date: 12-29-07  
Siting: 460' from well to drilling unit on Tract
- R649-3-11. Directional Drill

COMMENTS:

*Needs permit (06-27-07)*

STIPULATIONS:

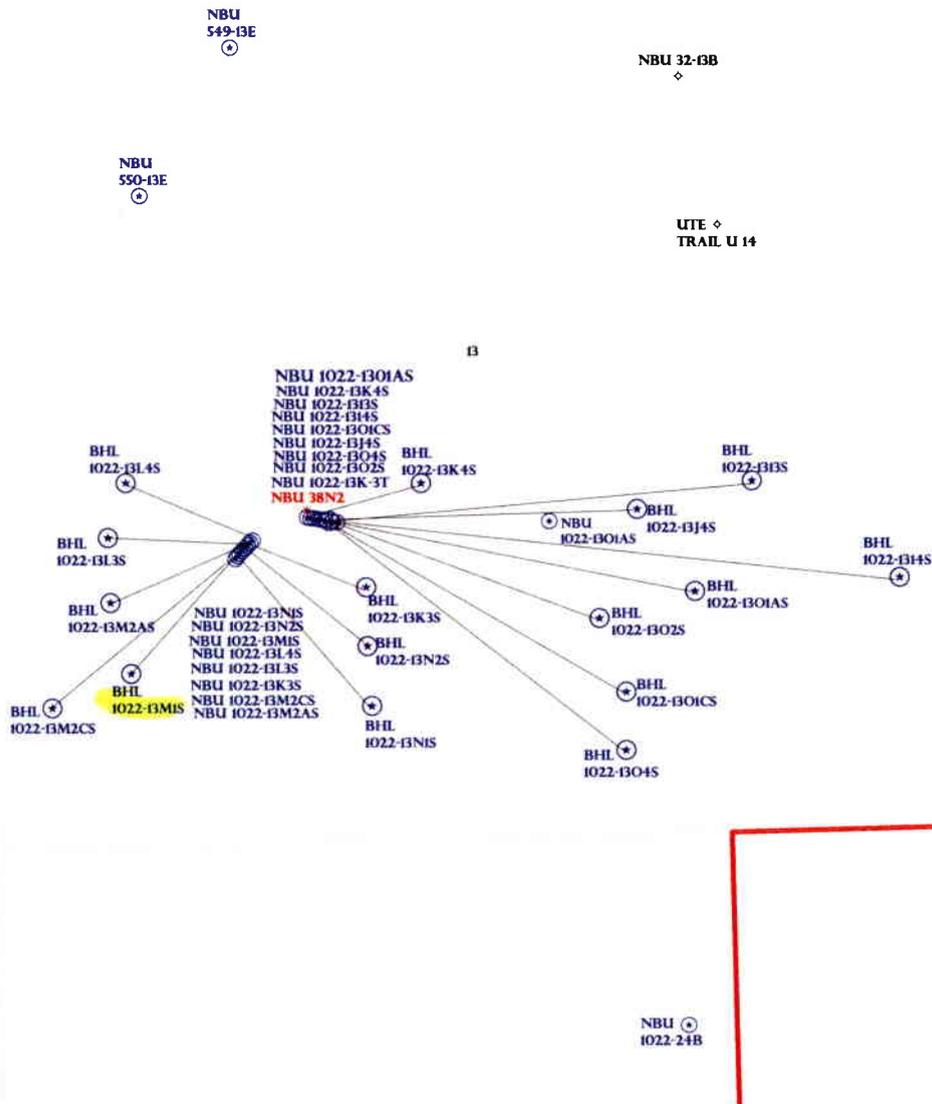
- 1- STATEMENT OF BASIS*
- 2- OIL SHALE*
- 3- Surface Csg Cont Strip*

T10S R22E

T10S R23E

# NATURAL BUTTES FIELD NATURAL BUTTES UNIT

CAUSE: 173-14 / 12-2-1999



OPERATOR: KERR MCGEE O&G (N2995)

SEC: 13 T.10S R. 22E

FIELD: NATURAL BUTTES (630)

COUNTY: UINTAH

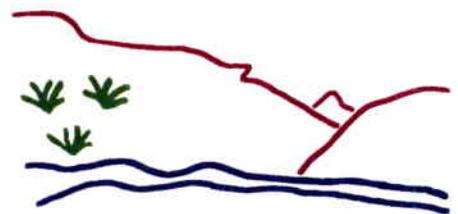
CAUSE: 173-14 / 12-2-1999

Field Status	
	ABANDONED
	ACTIVE
	COMBINED
	INACTIVE
	PROPOSED
	STORAGE
	TERMINATED

Unit Status	
	EXPLORATORY
	GAS STORAGE
	NE PP OIL
	NE SECONDARY
	PENDING
	PI OIL
	PP GAS
	PP GEOTHERML
	PP OIL
	SECONDARY
	TERMINATED

**Wells Status**

- GAS INJECTION
- GAS STORAGE
- LOCATION ABANDONED
- NEW LOCATION
- PLUGGED & ABANDONED
- PRODUCING GAS
- PRODUCING OIL
- SHUT-IN GAS
- SHUT-IN OIL
- TEMP. ABANDONED
- TEST WELL
- WATER INJECTION
- WATER SUPPLY
- WATER DISPOSAL
- DRILLING



*Utah Oil Gas and Mining*



PREPARED BY: DIANA MASON  
DATE: 8-AUGUST-2007

# Application for Permit to Drill

## Statement of Basis

8/21/2007

Utah Division of Oil, Gas and Mining

Page 1

APD No	API WellNo	Status	Well Type	Surf Ownr	CBM
489	43-047-39482-00-00		GW	S	No
<b>Operator</b>	KERR-MCGEE OIL & GAS ONSHORE, LP		<b>Surface Owner-APD</b>		
<b>Well Name</b>	NBU 1022-13M1S		<b>Unit</b>		
<b>Field</b>	UNDESIGNATED		<b>Type of Work</b>		
<b>Location</b>	NWSW 13 10S 22E S 1538 FSL 1275 FWL GPS Coord (UTM) 637333E 4422778N				

### Geologic Statement of Basis

Kerr McGee proposes to set 2,100' of surface casing at this location. The depth to the base of the moderately saline water at this location is estimated to be at a depth of 4,300'. A search of Division of Water Rights records shows no water wells within a 10,000 foot radius of the center of Section 13. The surface formation at this site is the Uinta Formation. The Uinta Formation is made up of interbedded shales and sandstones. The sandstones are mostly lenticular and discontinuous and should not be a significant source of useable ground water. Production casing cement should be brought up above the base of the moderately saline ground water to isolate it from fresher waters uphole.

Brad Hill  
APD Evaluator

8/21/2007  
Date / Time

### Surface Statement of Basis

The general area is in the southeast end of the Natural Buttes Unit, which contains the White River and short rugged drainages that drain into the White River. Topography is varied and frequently dissected by short draws or washes, which become overly steep as they approach the White River breaks or rim. Distance to the White River varies from ¼ mile to 2 miles. The side drainages are dry except for ephemeral flows. No seeps or springs exist in the area. An occasional pond has been constructed to supply water for livestock and antelope. Vernal, Utah is approximately 43 air miles to the northwest. Access from Ouray, Utah is approximately 27.7 road miles following Utah State, Uintah County and oilfield development roads to the location.

Seventeen new gas wells are proposed on two connected pads. The pads form a dogleg with the upper pad (#13-1) extending in an east-west direction and the lower pad (#13-2) in a northeast to southwest direction. Corners of the pads overlap with fill from the upper pad, corner 2, extending onto the lower pad at corner 9. Finished elevation of the upper pad is 15 feet higher than the lower pad. A road is proposed on the inside of the dog-leg ramping down to the lower pad. The pads are located on top of a medium width to narrow ridge-top elevated about 500 vertical feet above the White River. The White River forms a bend in the area and somewhat surrounds the locations except on the east-northeast sides. Closest horizontal distance to any well is approximately 1550 feet. Slopes from the ridge steepen and become near vertical sandstone ledges short distances from the pads. Soils are shallow with a rocky subsurface. Except for reserve pit construction blasting is not expected to be required. Pad construction will primarily consist of excavating the top of the ridge filling on the sides of the ridge. All fills will catch on existing natural side slopes. No drainage concerns exist. Elongated reserve pits are planned. Pits will be in cut except along corner 'C' on the lower #13-2 pad and corner 'F' on the upper #13-1 pad. Both areas will be reinforced with embankments which include a 15' wide bench and spoils storage. Reserve pits will be lined with double 20 mil. liners and a appropriate thickness of sub-felt to cushion all rocks. A pad for a producing gas well (NBU #38-N2) exist on a portion of the upper pad. Area encompassed for the pads not including spoils storage is approximately 6.7 acres.

Both the surface and minerals for this location are owned by SITLA. Jim Davis of SITLA attended the pre-site visit and expressed no concerns regarding the proposed location except for those discussed above.

The location appears to be the only site for constructing pads and drilling and operating multiple wells in the

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# Application for Permit to Drill

## Statement of Basis

8/21/2007

Utah Division of Oil, Gas and Mining

Page 2

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area.

It was mutually agreed that the most significant environmental concern with drilling and operating wells in this area was to avoid any leaks or spills from the operations reaching the White River. To reduce chances of this happening, Carroll Estes of Kerr McGee committed to line the pit with a double 20 mil liner with an appropriate thickness of felt sub-liner dependent upon the roughness of the surface of the constructed pit. He also stated they would formulate and follow a plan to monitor the level of fluids in the reserve pit as well as observing the surrounding terrain for any possible leaks. Corrugated metal containments will be constructed around all tanks used for production.

Floyd Bartlett  
Onsite Evaluator

6/27/2007  
Date / Time

### Conditions of Approval / Application for Permit to Drill

Category	Condition
Pits	A double synthetic liner each with a minimum thickness of 20 mils and an appropriate thickness of felt sub-liner to cushion the liners shall be properly installed and maintained in the reserve pit.

# ON-SITE PREDRILL EVALUATION

## Utah Division of Oil, Gas and Mining

**Operator** KERR-MCGEE OIL & GAS ONSHORE, LP  
**Well Name** NBU 1022-13M1S  
**API Number** 43-047-39482-0      **APD No** 489      **Field/Unit** UNDESIGNATED  
**Location:** 1/4,1/4 NWSW      **Sec** 13      **Tw** 10S      **Rng** 22E      1538 FSL 1275 FWL  
**GPS Coord (UTM)**      **Surface Owner**

### Participants

Floyd Bartlett (DOGM), Jim Davis (SITLA), Carroll Estes, Tony Kznick, and Clay Einerson (Kerr McGee), David Kay (Uintah Engineering and Land Surveying), and Daniel Emmett (UDWR)

### Regional/Local Setting & Topography

The general area is in the southeast end of the Natural Buttes Unit, which contains the White River and short rugged drainages that drain into the White River. Topography is varied and frequently dissected by short draws or washes, which become overly steep as they approach the White River breaks or rim. Distance to the White River varies from ¼ mile to 2 miles. The side drainages are dry except for ephemeral flows. No seeps or springs exist in the area. An occasional pond has been constructed to supply water for livestock and antelope. Vernal, Utah is approximately 43 air miles to the northwest. Access from Ouray, Utah is approximately 27.7 road miles following Utah State, Uintah County and oilfield development roads to the location.

Seventeen new gas wells are proposed on two connected pads. The pads form a dogleg with the upper pad (#13-1) extending in an east-west direction and the lower pad (#13-2) in a northeast to southwest direction. Corners of the pads overlap with fill from the upper pad, corner 2, extending onto the lower pad at corner 9. Finished elevation of the upper pad is 15 feet higher than the lower pad. A road is proposed on the inside of the dog-leg ramping down to the lower pad. The pads are located on top of a medium width to narrow ridge-top elevated about 500 vertical feet above the White River. The White River forms a bend in the area and somewhat surrounds the locations except on the east-northeast sides. Closest horizontal distance to any well is approximately 1550 feet. Slopes from the ridge steepen and become near vertical sandstone ledges short distances from the pads. Soils are shallow with a rocky subsurface. Except for reserve pit construction blasting is not expected to be required. Pad construction will primarily consist of excavating the top of the ridge filling on the sides of the ridge. All fills will catch on existing natural side slopes. No drainage concerns exist. Elongated reserve pits are planned. Pits will be in cut except along corner 'C' on the lower #13-2 pad and corner 'F' on the upper #13-1 pad. Both areas will be reinforced with embankments which include a 15' wide bench and spoils storage. Reserve pits will be lined with double 20 mil. liners and a appropriate thickness of sub-felt to cushion all rocks. A pad for a producing gas well (NBU #38-N2) exist on a portion of the upper pad. Area encompassed for the pads not including spoils storage is approximately 6.7 acres.

Both the surface and minerals for this location are owned by SITLA.

### Surface Use Plan

#### **Current Surface Use**

Grazing  
Recreational  
Wildlfe Habitat

#### **New Road**

<b>Miles</b>	<b>Well Pad</b>	<b>Src Const Material</b>	<b>Surface Formation</b>
	<b>Width</b>	<b>Length</b>	

#### **Ancillary Facilities**

### Waste Management Plan Adequate?

**Environmental Parameters**

**Affected Floodplains and/or Wetland** N

**Flora / Fauna**

Moderately vegetated with black sagebrush, halogeton, shadscale, rabbit brush, broom snakeweed, cheatgrass, six-week fescue and spring annuals.

Antelope, coyote, small mammals and birds. Winter domestic sheep grazing

**Soil Type and Characteristics**

Shallow gravely sandy loam.

**Erosion Issues** N

**Sedimentation Issues** N

**Site Stability Issues** N

**Drainage Diversion Required** N

**Berm Required?** N

**Erosion Sedimentation Control Required?** N

**Paleo Survey Run?** Y    **Paleo Potential Observed?** N    **Cultural Survey Run?** Y    **Cultural Resources?**

**Reserve Pit**

<b>Site-Specific Factors</b>		<b>Site Ranking</b>
<b>Distance to Groundwater (feet)</b>	>200	0
<b>Distance to Surface Water (feet)</b>	>1000	0
<b>Dist. Nearest Municipal Well (ft)</b>	>5280	0
<b>Distance to Other Wells (feet)</b>	<300	20
<b>Native Soil Type</b>	Mod permeability	10
<b>Fluid Type</b>	Fresh Water	5
<b>Drill Cuttings</b>	Normal Rock	0
<b>Annual Precipitation (inches)</b>	<10	0
<b>Affected Populations</b>	<10	0
<b>Presence Nearby Utility Conduits</b>	Not Present	0
<b>Final Score</b>		<b>35</b>
		<b>1 Sensitivity Level</b>

**Characteristics / Requirements**

The reserve pit is proposed on the southwest corner of the lower pad. Portions of the outer edge will be within partial fill. A 15' wide bench/dike is planned along the outer edge as well as reserve pit spoils storage along the west end. Finished pit dimensions are 100' x 300' x 10' deep. Carroll Estes of Kerr McGee committed to line the pit with a double 20 mil liner with an appropriate thickness of felt sub-liner dependent upon the roughness of the surface of the constructed pit.

Mr. Estes also stated they would formulate and follow a plan to monitor the level of fluids in the reserve pit as well as observing the surrounding terrain for any possible leaks.

**Closed Loop Mud Required?** N    **Liner Required?** Y    **Liner Thickness** 40    **Pit Underlayment Required?** Y

**Other Observations / Comments**

Daniel Emmet represented the Utah Division of Wildlife Resources. Mr. Emmet stated the area is classified as critical yearlong habitat for antelope. He however recommended no stipulations for this species as the loss of forage from this location is not significant and water not forage is the factor limiting the herd population in the area. No other wildlife is expected to be affected. He gave Carrol Estes, representing Kerr McGee, and Jim Davis copies of his evaluation and a DWR recommended seed mix to use when re-vegetating the area.

Floyd Bartlett

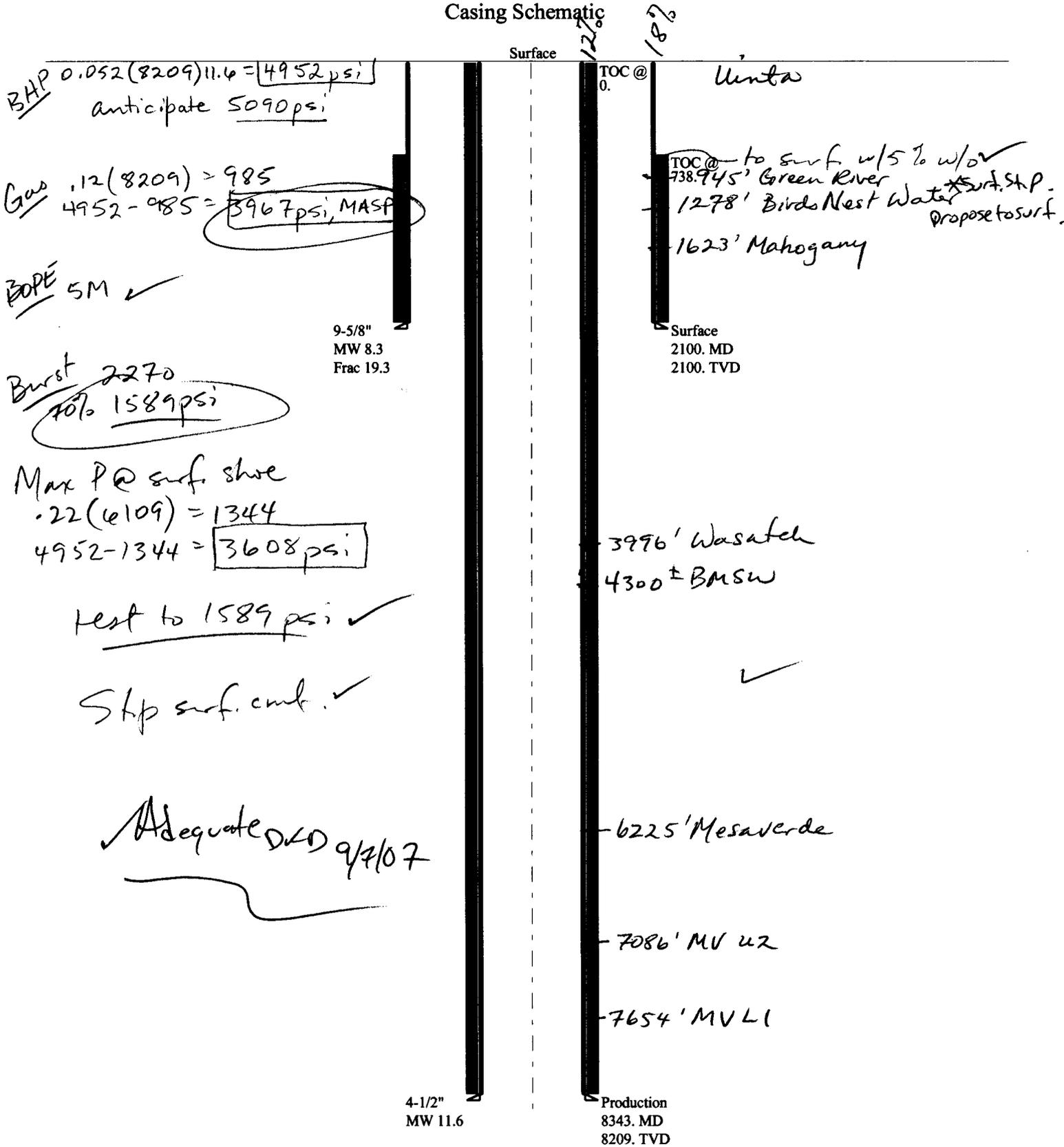
**Evaluator**

6/27/2007

**Date / Time**

2007-09 Kerr McGee NBU 1022-13M1S

Casing Schematic



Well name:	<b>2007-09 Kerr McGee NBU 1022-13M1S</b>	
Operator:	<b>Kerr McGee Oil &amp; Gas Onshore L.P.</b>	
String type:	Surface	Project ID: 43-047-39482
Location:	Uintah County, Utah	

**Design parameters:**

**Collapse**

Mud weight: 8.300 ppg  
Design is based on evacuated pipe.

**Burst**

Max anticipated surface pressure: 1,848 psi  
Internal gradient: 0.120 psi/ft  
Calculated BHP: 2,100 psi

No backup mud specified.

**Minimum design factors:**

**Collapse:**

Design factor 1.125

**Burst:**

Design factor 1.00

**Tension:**

8 Round STC: 1.80 (J)  
8 Round LTC: 1.80 (J)  
Buttress: 1.60 (J)  
Premium: 1.50 (J)  
Body yield: 1.50 (B)

Tension is based on buoyed weight.  
Neutral point: 1,844 ft

**Environment:**

H2S considered? No  
Surface temperature: 75 °F  
Bottom hole temperature: 104 °F  
Temperature gradient: 1.40 °F/100ft  
Minimum section length: 1,300 ft

Cement top: 738 ft

**Non-directional string.**

**Re subsequent strings:**

Next setting depth: 8,209 ft  
Next mud weight: 11.600 ppg  
Next setting BHP: 4,947 psi  
Fracture mud wt: 19.250 ppg  
Fracture depth: 2,100 ft  
Injection pressure: 2,100 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	2100	9.625	32.30	H-40	ST&C	2100	2100	8.876	927.9

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	905	1370	1.513	2100	2270	1.08	60	254	4.26 J

Prepared by: Helen Sadik-Macdonald  
Div of Oil, Gas & Minerals

Phone: (801) 538-5357  
FAX: (801) 359-3940

Date: September 5, 2007  
Salt Lake City, Utah

**Remarks:**

Collapse is based on a vertical depth of 2100 ft, a mud weight of 8.3 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

*Engineering responsibility for use of this design will be that of the purchaser.*

Well name:	<b>2007-09 Kerr McGee NBU 1022-13M1S</b>	
Operator:	<b>Kerr McGee Oil &amp; Gas Onshore L.P.</b>	
String type:	Production	Project ID: 43-047-39482
Location:	Uintah County, Utah	

**Design parameters:**

**Collapse**  
Mud weight: 11.600 ppg  
Design is based on evacuated pipe.

**Minimum design factors:**

**Collapse:**  
Design factor 1.125

**Environment:**

H2S considered? No  
Surface temperature: 75 °F  
Bottom hole temperature: 190 °F  
Temperature gradient: 1.40 °F/100ft  
Minimum section length: 1,500 ft

**Burst**

Max anticipated surface pressure: 3,141 psi  
Internal gradient: 0.220 psi/ft  
Calculated BHP 4,947 psi

No backup mud specified.

**Burst:**  
Design factor 1.00

Cement top: Surface

**Tension:**

8 Round STC: 1.80 (J)  
8 Round LTC: 1.80 (J)  
Buttress: 1.60 (J)  
Premium: 1.50 (J)  
Body yield: 1.50 (B)

**Directional well information:**

Kick-off point 2200 ft  
Departure at shoe: 838 ft  
Maximum dogleg: 2.5 °/100ft  
Inclination at shoe: 0 °

Tension is based on buoyed weight.  
Neutral point: 6,920 ft

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	8343	4.5	11.60	I-80	LT&C	8209	8343	3.875	728.1
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	4947	6360	1.286	4947	7780	1.57	79	212	2.69 J

Prepared by: Helen Sadik-Macdonald  
Div of Oil, Gas & Minerals

Phone: (801) 538-5357  
FAX: (801) 359-3940

Date: September 5, 2007  
Salt Lake City, Utah

Remarks:  
Collapse is based on a vertical depth of 8209 ft, a mud weight of 11.6 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.  
Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

# 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)

August 9, 2007

Memorandum

To: Assistant District Manager Minerals, Vernal District  
From: Michael Coulthard, Petroleum Engineer  
Subject: 2007 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 2007 within the Natural Buttes Unit, Uintah County, Utah.

API#	WELL NAME	LOCATION
(Proposed PZ Wasatch/MesaVerde)		
43-047-39473	NBU 1022-13K4S	Sec 13 T10S R22E 1739 FSL 1745 FWL
	BHL	Sec 13 T10S R22E 1925 FSL 2280 FWL
43-047-39474	NBU 1022-1313S	Sec 13 T10S R22E 1735 FSL 1764 FWL
	BHL	Sec 13 T10S R22E 1900 FSL 1225 FEL
43-047-39475	NBU 1022-1314S	Sec 13 T10S R22E 1724 FSL 1824 FWL
	BHL	Sec 13 T10S R22E 1360 FSL 0440 FEL
43-047-39476	NBU 1022-1301CS	Sec 13 T10S R22E 1747 FSL 1705 FWL
	BHL	Sec 13 T10S R22E 0775 FSL 1920 FEL
43-047-39477	NBU 1022-13J4S	Sec 13 T10S R22E 1728 FSL 1804 FWL
	BHL	Sec 13 T10S R22E 1760 FSL 1845 FEL
43-047-39478	NBU 1022-1301AS	Sec 13 T10S R22E 1731 FSL 1784 FWL
	BHL	Sec 13 T10S R22E 1310 FSL 1540 FEL
43-047-39479	NBU 1022-1302S	Sec 13 T10S R22E 1743 FSL 1725 FWL
	BHL	Sec 13 T10S R22E 1175 FSL 2055 FEL

43-047-39480	NBU 1022-1304S	Sec 13 T10S R22E 1750 FSL 1686 FWL
	BHL	Sec 13 T10S R22E 0460 FSL 1925 FEL
43-047-39481	NBU 1022-13K3S	Sec 13 T10S R22E 1610 FSL 1343 FWL
	BHL	Sec 13 T10S R22E 1370 FSL 1975 FWL
43-047-39482	NBU 1022-13M1S	Sec 13 T10S R22E 1538 FSL 1275 FWL
	BHL	Sec 13 T10S R22E 0930 FSL 0700 FWL
43-047-39483	NBU 1022-13M2AS	Sec 13 T10S R22E 1595 FSL 1329 FWL
	BHL	Sec 13 T10S R22E 1315 FSL 0600 FWL
43-047-39484	NBU 1022-13N1S	Sec 13 T10S R22E 1566 FSL 1302 FWL
	BHL	Sec 13 T10S R22E 0725 FSL 1990 FWL
43-047-39485	NBU 1022-13L3S	Sec 13 T10S R22E 1624 FSL 1356 FWL
	BHL	Sec 13 T10S R22E 1665 FSL 0590 FWL
43-047-39486	NBU 1022-13L4S	Sec 13 T10S R22E 1638 FSL 1370 FWL
	BHL	Sec 13 T10S R22E 1960 FSL 0690 FWL
43-047-39487	NBU 1022-13N2S	Sec 13 T10S R22E 1581 FSL 1316 FWL
	BHL	Sec 13 T10S R22E 1050 FSL 1975 FWL
43-047-39488	NBU 1022-13M2CS	Sec 13 T10S R22E 1552 FSL 1289 FWL
	BHL	Sec 13 T10S R22E 0750 FSL 0270 FWL
43-047-39489	NBU 1022-13K-3T	Sec 13 T10S R22E 1754 FSL 1666 FWL

Our records indicate the bottom hole location of the NBU 1022-1314S is closer than 460 feet from the Natural Buttes Unit boundary.

We have no objections to permitting the wells so long as the unit operator receives an exception to the locating and siting requirements of the State of Utah (R649-3-2).

/s/ Michael L. Coulthard

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

MCoulthard:mc:8-9-07

**From:** Ed Bonner  
**To:** Mason, Diana  
**Date:** 8/20/2007 3:07 PM  
**Subject:** Well Clearance

**CC:** Davis, Jim; Garrison, LaVonne; Hill, Brad; Hunt, Gil

The following wells have been given cultural resources clearance by the Trust Lands Cultural Resources Group:

Cabot Oil & Gas Corporation  
McKenna 21-32 (API 43 037 31863) ✓

Kerr McGee Oil & Gas Onshore LP  
NBU 1022-13K4S (API 43 047 39473)  
NBU 1022-13I3S (API 43 047 39474)  
NBU 1022-13I4S (API 43 047 39475)  
NBU 1022-13O1CS (API 43 047 39476)  
NBU 1022-13J4S (API 43 047 39477)  
NBU 1022-13O1AS (API 43 047 39478)  
NBU 1022-13O2S (API 43 047 39479)  
NBU 1022-13O4S (API 43 047 39480)  
NBU 1022-13K3S (API 43 047 39481)  
NBU 1023-13M1S (API 43 047 39482)  
NBU 1022-13M2AS (API 43 047 39483)  
NBU 1022-13N1S (API 43 047 39484)  
NBU 1022-13L3S (API 43 047 39485)  
NBU 1022-13L4S (API 43 047 39486)  
NBU 1022-13N2S (API 43 047 39487)  
NBU 1022-13M2SC (API 43 047 39488)  
NBU 1022-13K-3T (API 43 047 39489)

Petro-Canada Resources (USA), Inc  
State 16-41 (API 43 015 30721)  
State 32-44 (API 43 015 30722)

Royale Energy, Inc  
Vernal Equinox 2-2 (API 43 019 31552)

XTO Energy, Inc  
State of Utah 16-8-31-13 (API 43 015 30719)  
State of Utah 16-8-31-33D (API 43 015 30718)

If you have any questions regarding this matter please give me a call.



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

September 11, 2007

Kerr McGee Oil & Gas Onshore LP  
1368 S 1200 E  
Vernal, UT 84078

Re: NBU 1022-13M1S Well, 1538' FSL, 1275' FWL, NW SW, Sec. 13, T. 10 South,  
R. 22 East, Bottom Location 930' FSL, 700' FWL, SW SW, Sec. 13, T. 10 South,  
R. 22 East, Uintah County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. § 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

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. The API identification number assigned to this well is 43-047-39482.

Sincerely,

A handwritten signature in cursive script, appearing to read "Gil Hunt".

Gil Hunt  
Associate Director

pab  
Enclosures

cc: Uintah County Assessor  
SITLA  
Bureau of Land Management, Vernal Office



Operator: Kerr McGee Oil & Gas Onshore LP  
 Well Name & Number NBU 1022-13M1S  
 API Number: 43-047-39482  
 Lease: STUO-08512-ST

Location: NW SW Sec. 13 T. 10 South R. 22 East  
 Bottom Location: SW SW Sec. 13 T. 10 South R. 22 East

### Conditions of Approval

#### 1. 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.

#### 2. Notification Requirements

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

- 24 hours prior to cementing or testing casing – contact Dan Jarvis
- 24 hours prior to testing blowout prevention equipment – contact Dan Jarvis
- 24 hours prior to spudding the well – contact Carol Daniels
- Within 24 hours of any emergency changes made to the approved drilling program – contact Dustin Doucet
- Prior to commencing operations to plug and abandon the well – contact Dan Jarvis

The operator is required to get approval from the Division of Oil, Gas and Mining before performing any of the following actions during the drilling of this well:

- Plugging and abandonment or significant plug back of this well – contact Dustin Doucet
- Any changes to the approved drilling plan – contact Dustin Doucet

The following are Division of Oil, Gas and Mining contacts and their telephone numbers (please leave a voice mail message if the person is not available to take the call):

- Dan Jarvis at: (801) 538-5338 office (801) 942-0873 home
- Carol Daniels at: (801) 538-5284 office
- Dustin Doucet at: (801) 538-5281 office (801) 733-0983 home

#### 3. 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.

4. Compliance with the State of Utah Antiquities Act forbids disturbance of archeological, historical, or paleontological remains. Should archeological, historical or paleontological remains be encountered during your operations, you are required to immediately suspend all operations and immediately inform the Trust Lands Administration and the Division of State History of the discovery of such remains.
5. Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis. (Copy Attached)
6. In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.
7. In accordance with Order in Cause No. 190-5(b) dated October 28, 1982, the Operator shall comply with requirements of Rules R649-3-31 and R649-3-27 pertaining to Designated Oil Shale Areas. Additionally, the operator shall ensure that the surface and/or production casing is properly cemented over the entire oil shale interval as defined by Rule R649-3-31. The Operator shall report the actual depth the oil shale is encountered to the Division.
8. Surface casing shall be cemented to the surface.

**DIVISION OF OIL, GAS AND MINING**

**SPUDDING INFORMATION**

Name of Company: KERR-McGEE OIL & GAS ONSHORE, LP

Well Name: NBU 1022-13M1S

Api No: 43-047-39482 Lease Type: STATE

Section 13 Township 10S Range 22E County UINTAH

Drilling Contractor PETE MARTIN DRLG RIG # RATHOLE

**SPUDDED:**

Date 10/30/07

Time 8:00 AM

How DRY

**Drilling will Commence:** \_\_\_\_\_

Reported by LOU WELDON

Telephone # (435) 828-7035

Date 10/31/07 Signed CHD

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

FORM 6

**ENTITY ACTION FORM**

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

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304739482	NBU 1022-13M1S		NWSW	13	10S	22E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
<u>B</u>	99999	<u>2900</u>	10/30/2007			<u>10/31/07</u>	
Comments: MIRU PETE MARTIN BUCKET RIG. <u>W57MVD</u> SPUD WELL LOCATION ON 10/30/2007 AT 0800 HRS							

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304737113	BITTER CREEK 1122-5B		NWNE	5	11S	22E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
<u>A</u>	99999	<u>16453</u>	10/30/2007			<u>10/31/07</u>	
Comments: MIRU PETE MARTIN BUCKET. <u>W57MVD</u> SPUD WELL LOCATION ON 10/30/2007 AT 1030 HRS.							

Well 3

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

**ACTION CODES:**

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

SHEILA UPCHEGO

Name (Please Print)

Signature

SENIOR LAND SPECIALIST

Title

10/31/2007

Date

RECEIVED

OCT 31 2007

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

FORM 9

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>		5. LEASE DESIGNATION AND SERIAL NUMBER: <b>STUO-08512-ST</b>
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		7. UNIT or CA AGREEMENT NAME: <b>UNIT #891008900A</b>
2. NAME OF OPERATOR: <b>KERR MCGEE OIL &amp; GAS ONSHORE LP</b>		8. WELL NAME and NUMBER: <b>NBU 1022-13M1S</b>
3. ADDRESS OF OPERATOR: 1368 SOUTH 1200 EAST CITY <b>VERNAL</b> STATE <b>UT</b> ZIP <b>84078</b>		9. API NUMBER: <b>4304739482</b>
4. LOCATION OF WELL FOOTAGES AT SURFACE: <b>1538'FSL, 1275'FWL</b>		10. FIELD AND POOL, OR WILDCAT: <b>NATURAL BUTTES</b>
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: <b>NWSW 13 10S 22E</b>		COUNTY: <b>UINTAH</b>
		STATE: <b>UTAH</b>

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 (Submit in Duplicate)  Approximate date work will start: _____  <input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only)  Date of work completion: _____	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PLUG BACK <input type="checkbox"/> PRODUCTION (START/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"/> TEMPORARILY ABANDON <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> WATER SHUT-OFF <input checked="" type="checkbox"/> OTHER: <u>WELL SPUD</u>

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 10/30/2007 AT 0800 HRS.

NAME (PLEASE PRINT) <u>SHEILA UPCHEGO</u>	TITLE <u>SENIOR LAND ADMIN SPECIALIST</u>
SIGNATURE	DATE <u>10/31/2007</u>

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**NOV 02 2007**  
DIV. OF OIL, GAS & MINING

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

FORM 9

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>		5. LEASE DESIGNATION AND SERIAL NUMBER: <b>STUO-08512-ST</b>
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		7. UNIT or CA AGREEMENT NAME: <b>UNIT #891008900A</b>
2. NAME OF OPERATOR: <b>KERR MCGEE OIL &amp; GAS ONSHORE LP</b>		8. WELL NAME and NUMBER: <b>NBU 1022-13M1S</b>
3. ADDRESS OF OPERATOR: 1368 SOUTH 1200 EAST CITY <b>VERNAL</b> STATE <b>UT</b> ZIP <b>84078</b>		9. API NUMBER: <b>4304739482</b>
PHONE NUMBER: <b>(435) 781-7024</b>		10. FIELD AND POOL, OR WILDCAT: <b>NATURAL BUTTES</b>
4. LOCATION OF WELL FOOTAGES AT SURFACE: <b>1538'FSL, 1275'FWL</b>		COUNTY: <b>UINTAH</b>
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: <b>NWSW 13 10S 22E</b>		STATE: <b>UTAH</b>

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 (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: <b>SET SURFACE CSG</b>
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

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

MIRU BILL MARTIN AIR RIG ON 11/08/2007. DRILLED 12 1/4" SURFACE HOLE TO 2160'. RAN 9 5/8" 42 JTS OF 32.3# H-40 AND 12 JTS OF 36# J-55 SURFACE CSG. LEAD CMT W/300 SX PREM CLASS G @15.8 PPG 1.15 YIELD. TAILED CMT W/150 SX PREM CLASS G @15.8 PPG 1.15 YIELD. NO RETURNS TO PIT. TOP OUT W/750 SX PREM CLASS G @15.8 PPG 1.15 YIELD. DOWN BACKSIDE GOOD CMT TO SURFACE HOLE STAYED FULL.

WORT.

NAME (PLEASE PRINT) <b>SHEILA UPCHEGO</b>	TITLE <b>SENIOR LAND ADMIN SPECIALIST</b>
SIGNATURE	DATE <b>11/12/2007</b>

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DIV. OF OIL, GAS & MINING

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

FORM 9

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>		5. LEASE DESIGNATION AND SERIAL NUMBER: <b>STUO-08512-ST</b>
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		7. UNIT or CA AGREEMENT NAME: <b>UNIT #891008900A</b>
2. NAME OF OPERATOR: <b>KERR MCGEE OIL &amp; GAS ONSHORE LP</b>		8. WELL NAME and NUMBER: <b>NBU 1022-13M1S</b>
3. ADDRESS OF OPERATOR: <b>1368 SOUTH 1200 EAST</b> CITY <b>VERNAL</b> STATE <b>UT</b> ZIP <b>84078</b>		9. API NUMBER: <b>4304739482</b>
4. LOCATION OF WELL FOOTAGES AT SURFACE: <b>1538'FSL, 1275'FWL</b>		10. FIELD AND POOL, OR WILDCAT: <b>NATURAL BUTTES</b>
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: <b>NWSW 13 10S 22E</b>		COUNTY: <b>UINTAH</b>
		STATE: <b>UTAH</b>

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 (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: <b>FINAL DRILLING OPERATIONS</b>
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

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

FINISHED DRILLING FROM 2160' TO 8100' ON 12/08/2007. RAN 4 1/2" 11.6# I-80 PRODUCTION CSG. LEAD CMT W/300 SX PREM LITE II @11.0 PPG 3.80 YIELD. TAILED CMT W/1200 SX 50/50 POZ @14.3 PPG 1.31 YIELD. DROPPED PLUG AND DISPLACED W/125 BBLs FRESH WATER @2100 PSI BUMPED PLUG W/2700 PSI FLOATS HELD. W/1.5 BBLs RETURN. GOOD CIRC THROUGHOUT CMT JOB W/10 BBLs CMT TO SURFACE. N/DN BOP & SET SLIPS PROD CSG W/85K STRING WT MAKE ROUGH CUT CSG & L/OUT SAME INSTALL PACKOFF IN FMC WELL HEAD.

RELEASED PIONEER RIG 54 ON 12/10/2007 AT 1500 HRS.

NAME (PLEASE PRINT) <u>SHEILA UPCHEGO</u>	TITLE <u>SENIOR LAND ADMIN SPECIALIST</u>
SIGNATURE	DATE <u>12/11/2007</u>

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**DEC 14 2007**

DIV. OF OIL, GAS & MINING

**NOTICE OF LATE REPORTING  
DRILLING & COMPLETION INFORMATION**

Utah Oil and Gas Conservation General Rule R649-3-6 states that,

- Operators shall submit monthly status reports for each drilling well (including wells where drilling operations have been suspended).

Utah Oil and Gas Conservation General Rule R649-3-21 states that,

- A well is considered completed when the well has been adequately worked to be capable of producing oil or gas or when well testing as required by the division is concluded.
  
- Within 30 days after the completion or plugging of a well, the following shall be filed:
  - Form 8, Well Completion or Recompletion Report and Log
  - A copy of electric and radioactivity logs, if run
  - A copy of drillstem test reports,
  - A copy of formation water analyses, porosity, permeability or fluid saturation determinations
  - A copy of core analyses, and lithologic logs or sample descriptions if compiled
  - A copy of directional, deviation, and/or measurement-while-drilling survey for each horizontal well

Failure to submit reports in a timely manner will result in the issuance of a Notice of Violation by the Division of Oil, Gas and Mining, and may result in the Division pursuing enforcement action as outlined in Rule R649-10, Administrative Procedures, and Section 40-6-11 of the Utah Code.

---

As of the mailing of this notice, the division has not received the required reports for

Operator: Kerr-McGee Oil & Gas Onshore, LP Today's Date: 04/21/2008

Well: 43 047 391482 API Number: \_\_\_\_\_ Drilling Commenced: \_\_\_\_\_  
NBU 1022-13M1S  
10S 22E 13

List Attached

To avoid compliance action, required reports should be mailed within 7 business days to:

Utah Division of Oil, Gas and Mining  
1594 West North Temple, Suite 1210  
P.O. Box 145801  
Salt Lake City, Utah 84114-5801

If you have questions or concerns regarding this matter, please contact Rachel Medina  
at (801) 538-5260.

cc: Well File  
Compliance File

**NOTICE OF LATE REPORTING  
DRILLING & COMPLETION INFORMATION**

**ATTACHMENT**

Operator: Kerr-McGee Oil & Gas Onshore, LP

Today's Date: 04/21/2008

Well:	API Number:	Drilling Commenced:
NBU 1022-13L3S	4304739485	10/26/2007
NBU 1022-13L4S	4304739486	10/26/2007
NBU 1022-13K3S	4304739481	10/27/2007
NBU 1022-13N2S	4304739487	10/27/2007
NBU 1022-13M2AS	4304739483	10/29/2007
NBU 1022-13N1S	4304739484	10/29/2007
NBU 1022-13M2CS	4304739488	10/29/2007
NBU 1022-13M1S	4304739482	10/30/2007
NBU 1021-1G	4304739001	11/01/2007
NBU 102213O4S	4304739480	11/12/2007
NBU 1022-13K-3T	4304739489	11/12/2007
NBU 1022-13O1CS	4304739476	11/13/2007
NBU 1022-13I4S	4304739475	11/15/2007
NBU 1022-13J4S	4304739477	11/15/2007

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

FORM 9

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: <b>STUO-08512-ST</b>
2. NAME OF OPERATOR: <b>KERR MCGEE OIL &amp; GAS ONSHORE LP</b>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: <b>1368 SOUTH 1200 EAST</b> CITY <b>VERNAL</b> STATE <b>UT</b> ZIP <b>84078</b>		7. UNIT or CA AGREEMENT NAME: <b>UNIT #891008900A</b>
4. LOCATION OF WELL FOOTAGES AT SURFACE: <b>1538'FSL, 1275'FWL</b>		8. WELL NAME and NUMBER: <b>NBU 1022-13M1S</b>
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: <b>NWSW 13 10S 22E</b>		9. API NUMBER: <b>4304739482</b>
COUNTY: <b>UINTAH</b>		10. FIELD AND POOL, OR WILDCAT: <b>NATURAL BUTTES</b>
STATE: <b>UTAH</b>		

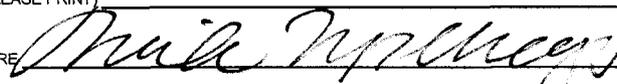
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: <b>PRODUCTION START-UP</b>
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

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

THE SUBJECT WELL LOCATION WAS PLACED ON PRODUCTION ON 05/09/2008 AT 5:00 PM.

PLEASE REFER TO THE ATTACHED CHRONOLOGICAL WELL HISTORY.

NAME (PLEASE PRINT) <u>SHEILA UPCHEGO</u>	TITLE <u>SENIOR LAND ADMIN SPECIALIST</u>
SIGNATURE 	DATE <u>5/12/2008</u>

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**RECEIVED**  
**MAY 14 2008**  
DIV. OF OIL, GAS & MINING

(5/2000) (See Instructions on Reverse Side)

Wins No.: 95384

**NBU 1022-13M-1S**

**Well Operations Summary Long**

Operator KERR-MCGEE OIL & GAS ONSHORE LP	FIELD NAME NATURAL BUTTES	SPUD DATE 10/30/2007	GL 5,287	KB 5306	ROUTE
API 4304739482	STATE UTAH	COUNTY UINTAH	DIVISION ROCKIES		
Long/Lat.: 39.94591 / -109.39300		Q-Q/Sect/Town/Range: / 13 / 10S / 22E	Footages: 1,538.00' FSL 1,275.00' FWL		

**Wellbore: NBU 1022-13M-1S**

MTD 7,988	TVD 7,979	PBMD	PBTVD
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<b>EVENT INFORMATION:</b>	EVENT ACTIVITY: DRILLING	START DATE: 10/30/2007
	OBJECTIVE: DEVELOPMENT	END DATE: 12/11/2007
	OBJECTIVE 2:	DATE WELL STARTED PROD.:
	REASON:	Event End Status: COMPLETE

<b>RIG OPERATIONS:</b>	Begin Mobilization	Rig On Location	Rig Charges	Rig Operation Start	Finish Drilling	Rig Release	Rig Off Location
PETE MARTIN DRILLING / UI	10/30/2007	10/30/2007	10/30/2007	10/30/2007	10/30/2007	10/30/2007	10/30/2007

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode	P/U	Operation
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10/30/2007

SUPERVISOR: LEW WELDON

0:00 - 6:00	6.00	DRLCON	12	F	P	WAIT ON PETE MARTIN BUCKET RIG
6:00 - 12:00	6.00	DRLCON	02	A	P	MOVE IN AND RIG UP BUCKET RIG SPUD WELL @ 0800 HR 10/30/07 DRILL AND SET 40' OF SCEDULE 10 PIPE DRILL RODENT HOLES FOR RIG 54 BLM AND STATE NOTIFIED OF SPUD
12:00 - 0:00	12.00	DRLCON	12	F	P	WOAR

11/6/2007

SUPERVISOR: LEW WELDON

0:00 - 9:00	9.00	DRLSUR	12	F	P	WAIT ON BILL JR AIR RIG
9:00 - 18:00	9.00	DRLSUR	02	A	P	MOVE IN AND TIG UP AIR RIG SPUD WELL @ 0900 HR DA AT REPORT TIME
18:00 - 20:00	2.00	DRLSUR	02	A	P	RIG T/D PILOT HOLE @ 1020' CONDITION HOLE 1 HR
20:00 - 0:00	4.00	DRLSUR	12	F	P	WAIT ON BILL JR AIR RIG TO FINISH SURFACE

11/8/2007

SUPERVISOR: LEW WELDON

0:00 - 18:30	18.50	DRLSUR	12	F	P	WAIT ON BILL JR AIR RIG
18:30 - 0:00	5.50	DRLSUR	02	A	P	MOVE OVER AND RIG UP AIR RIG SPUD WELL @ 1830 HR 11/8/07

Wins No.: 95384

NBU 1022-13M-1S

API No.: 4304739482

11/9/2007

SUPERVISOR: LEW WELDON

0:00 - 6:00	6.00	DRLSUR	02	A	P	HIT TRONA WATER @ 1400' CIRCULATING WITH SKID PUMP DA AT REPORT TIME
6:00 - 18:00	12.00	DRLSUR	02	A	P	DRILL FROM 1440' TO 1860' CIRCULATING WITH SKID PUMP
18:00 - 0:00	6.00	DRLSUR	02	A	P	RIG TD @ 2160' CONDITION HOLE 1 HR

11/10/2007

SUPERVISOR: LEW WELDON

0:00 - 5:00	5.00	DRLSUR	02	A	P	RIG T/D @ 2160' CONDITION HOLE 1 HR
5:00 - 9:00	4.00	DRLSUR	05	A	P	TRIP DP OUT OF HOLE
9:00 - 12:00	3.00	DRLSUR	11	B	P	RUN 2124' OF 9 5/8 CSG AND RIG DOWN AIR RIG
12:00 - 13:00	1.00	DRLSUR	15	A	P	CEMENT 1ST STAGE WITH 300 SKS NO RETURNS TO PIT
13:00 - 13:30	0.50	DRLSUR	15	A	P	1ST TOP JOB 150 SKS DOWN BS WOC
13:30 - 15:30	2.00	DRLSUR	15	A	P	2ND TOP JOB 125 SKS DOWN BS WOC
15:30 - 17:30	2.00	DRLSUR	15	A	P	3RD TOP JOB 125 SKS DOWN BS WOC
17:30 - 20:00	2.50	DRLSUR	15	A	P	4TH TOP JOB 200 SKS DOWN BS WOC
20:00 - 22:30	2.50	DRLSUR	15	A	P	5TH TOP JOB 225 SKS DOWN BS WOC
22:30 - 0:00	1.50	DRLSUR	15	A	P	6TH TOP JOB 75 SKS DOWN BS CEMENT TO SURFACE AND STAYED AT SURFACE

11/26/2007

SUPERVISOR: STUART NEILSON

0:00 - 0:00	24.00	MIRU	01	A	P	MOVE TO NBU 1022-13M-1S
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11/27/2007

SUPERVISOR: STUART NEILSON

0:00 - 0:00	24.00	MIRU	01	A	P	
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11/28/2007

SUPERVISOR: STEWART NELSON & TIM OXNER

0:00 - 15:00	15.00	MIRU	01	B	P	RIGGING UP,RAISE DERRICK,RIG UP RIG FLOOR. RIG IS 95% RIGGED UP.
15:00 - 19:00	4.00	DRLPRO	13	A	P	NIPPLE UP BOP,CHOKE,ETC
19:00 - 0:00	5.00	DRLPRO	13	C	P	TEST PIPE,BLIND RAMS,CHOKE VALVES & ALL FLOOR RELATED VALVES 250 -5000PSI,TEST HYDRILL 250-2500PSI

11/29/2007

SUPERVISOR: STUART NEILSON/TIM OXNER

0:00 - 2:00	2.00	DRLPRO	13	C	P	TEST SUPER CHOKE,TEST CSG 250-1500 PSI & HOLD 30 MIN.
2:00 - 7:00	5.00	DRLPRO	05	A	P	PICK UP HWDP & 33 JTS DP,RACK BACK IN DERRICK
7:00 - 0:00	17.00	MAINT	07	B	P	WAIT ON PUMP REPAIR

11/30/2007

SUPERVISOR: STUART NEILSON/TIM OXNER

0:00 - 0:00	24.00	MAINT	07	B	S	WAITING ON # 1 MUD PUMP,SET # 1 PUMP & RIG UP.PUMP ICED UP,THAW & GO WORK ON PUMP. WORK ON BOILER
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12/1/2007

SUPERVISOR: STUART NEILSON/TIM OXNER

0:00 - 18:00	18.00	MAINT	07	B	P	FINISH WORKING ON # 1 MUD PUMP,CLEAN & VACUME BOILER,REMOVE SNOW & THAW RIG FLOOR.WORK ON MUD PUMP,YELLOWDOG
18:00 - 20:00	2.00	PRPSPD	05	A	P	PICK UP DIR TOOLS & TIH TO 1986',KELLY UP & INSTALL ROTATING HEAD RUBBER.
20:00 - 21:00	1.00	PRPSPD	06	A	P	PRESPUD RIG INSPECTION
21:00 - 23:30	2.50	PRPSPD	02	F	P	DRLG CMT,FLOAT,SHOE & 35' PRE DRILLED HOLE. CMT TOP @ 2045' / FLOAT TOP @ 2100' / SHOE TOP @ 2144'
23:30 - 0:00	0.50	PRPSPD	02	A	P	DRLG F/ 2179' - 2200'

12/2/2007

SUPERVISOR: STUART NEILSON/TIM OXNER

0:00 - 13:30	13.50	DRLPRO	02	D	P	DRLG F/ 2200' TO 3071' 871' @ 64.5' PH W 8.5 PPG DRLG & SLIDE-BIULD ANGLE TO 21.19 AZM 221.95 @ 2.5 DEG PER 100'
13:30 - 14:00	0.50	DRLPRO	06	A	P	SERVICE RIG
14:00 - 0:00	10.00	DRLPRO	02	D	P	DRLG F/ 3071' - 3700'. 629' TOTAL @ 62.9' HR. DRLG & SLIDE ANGLE TO 19.56 TO 17.5 AZM 223.2 36 VIS/8.9 MW

Wins No.: 95384

NBU 1022-13M-1S

API No.: 4304739482

14:00 - 0:00	10.00	DRLPRO	02	D	P	DRLG F/ 3071' - 3700'. 629' TOTAL @ 62.9' HR. DRLG & SLIDE ANGLE TO 19.56 TO 17.5 AZM 223.2 36 VIS/8.9 MW
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12/3/2007

SUPERVISOR: STUART NEILSON/TIM OXNER

0:00 - 10:00	10.00	DRLPRO	02	D	P	DRLG F/ 3700' - 4082'. 382' TOTAL @ 38.2' HR.MAINTAIN ANGLE 20.38 TO 21.44 AZM 221.08
10:00 - 10:30	0.50	DRLPRO	06	A	P	RIG SERVICE
10:30 - 13:00	2.50	DRLPRO	07	B	S	REPAIR PUMP CLUTCH
13:00 - 22:00	9.00	DRLPRO	02	D	P	DRLG F/ 4082' - 4431'. 349' TOTAL @ 38.7' HR.START DROPPING @4254'
22:00 - 22:30	0.50	DRLPRO	07	B	S	WORK ON # 2 MUD PUMP.# 1 PUMP STILL DOWN.
22:30 - 0:00	1.50	DRLPRO	02	B	P	DRLG F/ 4431' - 4500'. 69' TOTAL @ 46.0' HR. 19.94 DEG 220.83 AZM. 42 VIS/ 9.5 MW

12/4/2007

SUPERVISOR: KENT MOORE

0:00 - 6:00	6.00	DRLPRO	02	D	P	DRILL/SLIDE F/4500' TO 4810' (310' @ 51.6fph) 9.5ppg
6:00 - 7:00	1.00	DRLPRO	07	B	S	REPAIR #2 PUMP -
7:00 - 10:00	3.00	DRLPRO	02	D	P	DRILL/SLIDE F/4810' TO 4873' (63' @ 21fph) 9.5ppg
10:00 - 11:00	1.00	DRLPRO	07	A	S	UN-THAW AIR LINES TO MUD PUMPS
11:00 - 14:30	3.50	DRLPRO	02	D	P	DRILL/SLIDE F/4873' TO 5000' (127' @ 36.3fph) 9.5 ppg
14:30 - 15:00	0.50	DRLPRO	06	A	P	RIG SER
15:00 - 17:30	2.50	DRLPRO	02	D	P	DRILL/SLIDE F/5000' TO 5076' (76' @ 30.4fph) 9.6 ppg
17:30 - 18:00	0.50	DRLPRO	07	B	S	REPAIR RIG #1 PUMP - C/OUT ALL 3 SWABS
18:00 - 0:00	6.00	DRLPRO	02	D	P	DRILL/SLIDE F/5076' TO 5270' (194' @ 32.3fph) 9.6ppg

12/5/2007

SUPERVISOR: KENT MOORE

0:00 - 12:00	12.00	DRLPRO	02	D	P	DRILL F/5270' TO 5822' (552') 46'/HR. 16/18K WOB
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Wins No.: 95384 NEU 1022-13M-1S API No.: 4304739482

0:00 - 12:00	12.00	DRLPRO	02	D	P	DRILL F/5270' TO 5822' (552') 46'/HR. 16/18K WOB
12:00 - 12:30	0.50	DRLPRO	06	D	P	SERVICE RIG
12:30 - 0:00	11.50	DRLPRO	02	D	P	DRILL 5822'-6266' (444') 38.6'/HR. 18/20K WOB

12/6/2007

SUPERVISOR: KENT MOORE/BRUCE TAYLOR

0:00 - 12:00	12.00	DRLPRO	02	D	P	DRILL F/6266' TO 6772' 506' @ 42.2fph 10.4ppg
12:00 - 17:30	5.50	DRLPRO	05	A	P	TFNB - L/DN DIRECTIONAL BHA
17:30 - 21:00	3.50	DRLPRO	05	A	P	SET MOTOR TO "0", TIH, FILL PIPE AT BHA AND SHOE. FIH. WASH 45' TO BOTTOM.
21:00 - 0:00	3.00	DRLPRO	02	B	P	DRILL 6772'-6890' (118') 39.3'/HR. 16/18K WOB

12/7/2007

SUPERVISOR: KENT MOORE/BRUCE TAYLOR

0:00 - 14:30	14.50	DRLPRO	02	B	P	DRILL F/6890' TO 7564' (674' @ 46.5fph) 10.6ppg
14:30 - 15:00	0.50	DRLPRO	06	A	P	RIG SER
15:00 - 0:00	9.00	DRLPRO	02	B	P	DRILL F/7564' TO 7823' (259') 28.7'/HR. 10.8 PPG, 45 VIS

12/8/2007

SUPERVISOR: KENT MOORE/BRUCE TAYLOR

0:00 - 15:00	15.00	DRLPRO	02	B	P	DRILL F/7823' TO 8100' (277' @ 18.5fph) 11.0ppg
15:00 - 16:00	1.00	DRLPRO	04	C	P	CIRC
16:00 - 20:00	4.00	DRLPRO	05	E	P	W/TRIP TO 9 5/8" CSG SHOE @ 2144', TIH
20:00 - 20:30	0.50	DRLPRO	03	E	P	WASH 60' TO BOTTOM, PRECAUTIONARY ONLY.
20:30 - 22:00	1.50	DRLPRO	04	C	P	CIRCULATE BOTTOMS UP, TRIIP GAS 10,700 UNITS. CIRC. GAS DOWN, BUILD AND PUMP SLUG.
22:00 - 0:00	2.00	DRLPRO	05	B	P	POOH STANDING BACK TO LOG.

12/9/2007

SUPERVISOR: KENT MOORE/BRUCE TAYLOR

0:00 - 1:30	1.50	DRLPRO	05	B	P	POOH F/LOGS
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Wins No.: 95384

NBU 1022-13M-1S

API No.: 4304739482

0:00 - 1:30	1.50	DRLPRO	05	B	P	POOH F/LOGS
1:30 - 7:30	6.00	DRLPRO	08	F	P	R/UP RUN QUAD-COMBO TO LOGGERS TD @ 8100'
7:30 - 12:00	4.50	DRLPRO	05	F	P	TIH CLEAN OUT RUN
12:00 - 13:30	1.50	DRLPRO	04	C	P	CIRC & COND - HPJSM - R/UP LD MACHINE
13:30 - 19:30	6.00	DRLPRO	05	C	P	LDDP/BHA
19:30 - 20:00	0.50	DRLPRO	05	C	P	PULL WEAR BUSHING
20:00 - 21:00	1.00	DRLPRO	11	A	P	HELD SAFETY MEETING WITH CALIBER CASING CREW AND LD MACH. RIG UP SAME.
21:00 - 0:00	3.00	DRLPRO	11	B	P	START RUNNING 4 1/2" CSG.

12/10/2007

SUPERVISOR: KENT MOORE/BRUCE TAYLOR

0:00 - 4:00	4.00	DRLPRO	11	B	P	RUN 193 JTS 4 1/2 PROD CASING TO 8100' - R/DN CASING CREW
4:00 - 7:00	3.00	DRLPRO	04	E	P	CIRC CASING - (WAIT ON BJ BULK TRUCK, STUCK IN SNOW ON ROAD)
7:00 - 11:00	4.00	DRLPRO	15	A	P	R/UP BJ CMT HEAD - TEST LINES 5500 PSI - CEMENT 4 1/2 PROD CASING - PUMP 20 BBLS MUD CLEAN, 20 SKS SCAVENGER 9.5PPG 8.45 YIELD, 300 SKS LEAD 11.0 PPG 3.8 YIELD, 1200 SKS TAIL 14.3 PPG 1.31 YIELD, DROPPED PLUG & DISPLACED W/125 BBLS FRESH WATER @ 2100 PSI, BUMPED PLUG W/2700 PSI, FLOATS HELD W/1.5 BBLS RETURN - GOOD CIRC THROUGHOUT CEMENT JOB W/10 BBLS CEMENT TO SURFACE
11:00 - 15:00	4.00	DRLPRO	13	A	P	N/DN BOP & SET SLIPS PROD CASING W/85K STRING WT - MAKE ROUGH CUT CSG & L/OUT SAME - INSTALL PACKOFF IN FMC WELL HEAD - RELEASE RIG @ 15:00 HRS - RESERVE PIT LINER "OK" - RESERVE PIT 1/4 FULL - NO LEAKS
15:00 - 0:00	9.00	DRLPRO	01	E	P	RDRT

Wins No.: 95384 NBU 1022-13M-1S API No.: 4304739482

EVENT INFORMATION: EVENT ACTIVITY: COMPLETION START DATE: 4/1/2008  
OBJECTIVE: CONSTRUCTION END DATE:  
OBJECTIVE 2: ORIGINAL DATE WELL STARTED PROD.  
REASON: SURF FACILITIES Event End Status:

RIG OPERATIONS: Begin Mobilization Rig On Location Rig Charges Rig Operation Start Finish Drilling Rig Release Rig Off Location

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode	P/U	Operation
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SUPERVISOR: KENT MOORE/BRUCE TAYLOR

Wins No.: 95384

NBU 1022-13M-1S

API No.: 4304739482

EVENT INFORMATION:	EVENT ACTIVITY: COMPLETION	START DATE: 4/21/2008
	OBJECTIVE: DEVELOPMENT	END DATE:
	OBJECTIVE 2: ORIGINAL	DATE WELL STARTED PROD.:
	REASON: MV - WHR PAD#2	Event End Status:

RIG OPERATIONS:	Begin Mobilization	Rig On Location	Rig Charges	Rig Operation Start	Finish Drilling	Rig Release	Rig Off Location
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Date	Time Start-End	Duration (hr)	Phase	Code	Subcode	P/U	Operation
4/21/2008							
SUPERVISOR: DOUG CHIVERS							
	7:00 - 7:30	0.50	COMP	48		P	HSM. FRACING & PERFORATING
	7:30 - 18:00	10.50	COMP	36	B	P	PRIME UP PUMPS & LINES. PRESSURE TEST SURFACE EQUIPMENT TO 8,500 PSI.
<p>STG 1) RIH W/ 3 3/8" EXP GNS, 23 GRM, .36 HOLES, 90 DEG PHASING.            PERF 7,990' - 92' 8 SPF, 7,978' - 80' 4 SPF, 7,960' - 62' 4 SPF, 7,952' - 54' 4 SPF. 40 HOLES.            WHP 800 PSI, BRK 3,816 PSI @ 2.9 BPM, ISIP 2,568 PSI, FG .76.            PUMP 100 BBLs @ 51.1 BPM @ 4,350 PSI = 36 OF 40 HOLES OPEN.            MP 7,047 PSI, MR 51.3 BPM, AP 4,355 PSI, AR 50.8 BPM. ISIP 2,572 PSI, FG .76, NPI 4 PSI.            PUMP 706 BBLs OF SW &amp; 13,482 LBS OF 30/50 SAND &amp; 5,312 LBS OF RESIN COATED SAND. TOTAL PROP 18,794 LBS.</p> <p>STG 2) RIH W/ 3 3/8" EXP GNS, 23 GRM, .36 HOLES, 90 120 &amp; 180 DEG PHASING.            SET 8K BAKER CBP @ 7,893' &amp; PERF 7,859' - 63' 4 SPF, 7,809' - 13' 3 SPF, 7,737' - 39' 2 SPF, 7,677' - 79' 2 SPF. 36 HOLES.            WHP 2,300 PSI, BRK 3,551 PSI @ 2.9 BPM, ISIP 2,558 PSI, FG .77.            PUMP 100 BBLs @ 51.5 BPM @ 5,400 PSI = 24 OF 36 HOLES OPEN.            MP 7,282 PSI, MR 52 BPM, AP 4,790 PSI, AR 51.5 BPM. ISIP 2,832 PSI, FG .80, NPI 274 PSI.            PUMP 1,436 BBLs OF SW &amp; 46,549 LBS OF 30/50 SAND &amp; 5,076 LBS OF RESIN COATED SAND. TOTAL PROP 51,625 LBS.</p> <p>STG 3) RIH W/ 3 3/8" EXP GNS, 23 GRM, .36 HOLES, 90 DEG PHASING.            SET 8K BAKER CBP @ 7,568' &amp; PERF 7,531' - 38' 4 SPF, 7,505' - 08' 4 SPF, 40 HOLES.            WHP 2,400 PSI, BRK 5,294 PSI @ 3.3 BPM, ISIP 2,594 PSI, FG .78.            PUMP 100 BBLs @ 51.3 BPM @ 5,300 PSI = 26 OF 40 HOLES OPEN.            MP 5,538 PSI, MR 51.7 BPM, AP 4,751 PSI, AR 51.4 BPM. ISIP 2,285 PSI, FG .74. NPI -309 PSI.            PUMP 1,436 BBLs OF SW &amp; 11,816 LBS OF 30/50 SAND &amp; 5,312 LBS OF RESIN COATED SAND. TOTAL PROP 17,134 LBS.            SWI SDFN</p>							
4/22/2008							
SUPERVISOR: DOUG CHIVERS							
	7:00 - 7:30	0.50	COMP	48		P	HSM. FRACING & PERFORATING

Wins No.: 95384

NBU 1022-13M-1S

API No.: 4304739482

7:30 - 18:00 10.50 COMP 36 B P

STG 4) RIH W/ 3 3/8" EXP GNS, 23 GRM, .36 HOLES, 90 & 120 DEG PHASING.  
 SET 8K BAKER CBP @ 7,414' & PERF 7,376' - 84' 3 SPF, 7,357' - 59' 4 SPF, 7,293' - 97' 3 SPF 40 HOLES.  
 WHP 2,000 PSI, BRK 3,303 PSI @ 3.0 BPM, ISIP 2,301 PSI, FG .75.  
 PUMP 100 BBLS @ 49.8 BPM @ 4,500 PSI = 32 OF 44 HOLES OPEN 72%.  
 MP 5,168 PSI, MR 53.1 BPM, AP 3,750 PSI, AR 50 BPM. ISIP 2,524 PSI, FG .78. NPI 223 PSI.  
 PUMP 1,620 BBLS OF SW & 53,612 LBS OF 30/50 SAND & 5,046 LBS OF RESIN COATED SAND. TOTAL PROP 58,658 LBS.

STG 5) RIH W/ 3 3/8" EXP GNS, 23 GRM, .36 HOLES, 120 DEG PHASING.  
 SET 8K BAKER CBP @ 7,127' & PERF 7,087' - 97' 3 SPF, 7,056' - 60' 3 SPF, 42 HOLES.  
 WHP 2,000 PSI, BRK 2,855 PSI @ 3.1 BPM, ISIP 2,239 PSI, FG .76.  
 PUMP 100 BBLS @ 49.7 BPM @ 4,650 PSI = 29 OF 42 HOLES OPEN 71%.  
 MP 6,409 PSI, MR 50.3 BPM, AP 4,381 PSI, AR 49.9 BPM. ISIP 2,512 PSI, FG .79. NPI 273 PSI.  
 PUMP 898 BBLS OF SW & 24,589 LBS OF 30/50 SAND & 5,043 LBS OF RESIN COATED SAND. TOTAL PROP 29,632 LBS.

STG 6) RIH W/ 3 3/8" EXP GNS, 23 GRM, .36 HOLES, 90 & 180 DEG PHASING.  
 SET 8K BAKER CBP @ 6,944' & PERF 6,907' - 14' 4 SPF, 6,871' - 74' 2 SPF, 6,807' - 11' 2 SPF, 42 HOLES.  
 WHP 2,150 PSI, BRK 2,156 PSI @ 3.2 BPM, ISIP 1,988 PSI, FG .73.  
 PUMP 100 BBLS @ 51.8 BPM @ 4,600 PSI = 31 OF 42 HOLES OPEN 74%.  
 MP 4,910 PSI, MR 52.4 BPM, AP 3,904 PSI, AR 52 BPM. ISIP 2,460 PSI, FG .80 NPI 472 PSI.  
 PUMP 1,909 BBLS OF SW & 65,171 LBS OF 30/50 SAND & 5,171 LBS OF RESIN COATED SAND. TOTAL PROP 70,342 LBS.  
 SWI SDFN

4/23/2008

SUPERVISOR: DOUG CHIVERS

7:00 - 7:30 0.50 COMP 48 P

HSM. FRACING & PERFORATING

Wins No.: 95384

NBU 1022-13M-1S

API No.: 4304739482

7:30 - 16:00 8.50 COMP 36 B P STG 7) RIH W/ 3 3/8" EXP GNS, 23 GRM, .36 HOLES, 90 DEG PHASING.  
 SET 8K BAKER CBP @ 6,740' & PERF 6,708' - 10' 4 SPF, 6,667' - 72' 4 SPF, 6,638' - 41' 4 SPF, 40 HOLES.  
 WHP 1,600 PSI, BRK 2,260 PSI @ 5.2 BPM, ISIP 2,047 PSI, FG .75.  
 PUMP 100 BBLS @ 51.4 BPM @ 4,000 PSI = 32 OF 40 HOLES OPEN 80%.  
 MP 4,603 PSI, MR 54 BPM, AP 3,884 PSI, AR 51.3 BPM. ISIP 2,375 PSI, FG .80 NPI 328 PSI.  
 PUMP 676 BBLS OF SW & 15,714 LBS OF 30/50 SAND & 4,704 LBS OF RESIN COATED SAND. TOTAL PROP 20,418 LBS.

STG 8) RIH W/ 3 3/8" EXP GNS, 23 GRM, .36 HOLES, 90 & 180 DEG PHASING.  
 SET 8K BAKER CBP @ 6,568' & PERF 6,534' - 38' 2 SPF, 6,496' - 04' 4 SPF, 6,483' - 85' 2 SPF, 44 HOLES.  
 WHP 1,775 PSI, BRK 4,713 PSI @ 3.1 BPM, ISIP 1,685 PSI, FG .70.  
 PUMP 100 BBLS @ 51.6 BPM @ 3,550 PSI = 36 OF 44 HOLES OPEN 82%.  
 MP 4,713 PSI, MR 52.1 BPM, AP 3,476 PSI, AR 51.4 BPM. ISIP 2,192 PSI, FG .78 NPI 507 PSI.  
 PUMP 1,871 BBLS OF SW & 63,811 LBS OF 30/50 SAND & 5,648 LBS OF RESIN COATED SAND. TOTAL PROP 69,459 LBS.

STG 9) RIH W/ 3 3/8" EXP GNS, 23 GRM, .36 HOLES, 90 & 120 DEG PHASING.  
 SET BAKER 8K CBP @ 6,370' & PERF 6,331' - 40' 3 SPF, 6,322' - 24' 4 SPF, 6,309' - 11' 3 SPF, 41 HOLES.  
 WHP 1,450 PSI, BRK 3,104 PSI @ 3.0 BPM, ISIP 2,080 PSI, FG .68.  
 PUMP 100 BBLS @ 50.5 BPM @ 3,600 PSI = 41 OF 41 HOLES OPEN 100%.  
 MP 4,688 PSI, MR 51 BPM, AP 3,550 PSI, AR 50.5 BPM. ISIP 2,080 PSI, FG .77 NPI 570 PSI.  
 PUMP 1,005 BBLS OF SW & 29,254 LBS OF 30/50 SAND & 5,065 LBS OF RESIN COATED SAND. TOTAL PROP 34,319 LBS.

KILL PLG ) RIH W/ 4 1/2" WEATHERFORD CONVERTIBLE CBP @ 6,050'  
 PRESSURE UP TO 4,500 PSI CBP CONVERTED. SWI WELL READY FOR FLOW BACK.

4/30/2008

SUPERVISOR: MARK BONNIE

7:00 - 33 A 7 AM REPORT: CP 25#, TP 0#, 20/64" CK, 20 BWPH, TRACE SAND, LIGHT GAS  
 TTL BBLS RECOVERED: 430  
 BBLS LEFT TO RECOVER: 10,245

5/1/2008

SUPERVISOR: MARK BONNIE

7:00 - 33 A 7 AM REPORT: CP 0#, TP 0#, OPEN CK, 0 BWPH, TRACE SAND, LIGHT GAS  
 TTL BBLS RECOVERED: 555  
 BBLS LEFT TO RECOVER: 10,120

5/2/2008

SUPERVISOR: MARK BONNIE

7:00 - 33 A 7 AM REPORT: CP 0#, TP 0#, OPEN CK, 0 BWPH, NO SAND, TRACE GAS  
 TTL BBLS RECOVERED: 675  
 BBLS LEFT TO RECOVER: 10,000

5/3/2008

SUPERVISOR: MARK BONNIE

7:00 - 33 A 7 AM REPORT: CP 0#, TP 0#, OPEN CK, 0 BWPH, NO SAND, TRACE GAS  
 TTL BBLS RECOVERED: 741  
 BBLS LEFT TO RECOVER: 9934

5/4/2008

SUPERVISOR: MARK BONNIE

7:00 - 33 A 7 AM REPORT: CP 0#, TP 0#, OPEN CK, 0 BWPH, NO SAND, TRACE GAS  
 TTL BBLS RECOVERED: 765  
 BBLS LEFT TO RECOVER: 9910

Wins No.: 95384

NBU 1022-13M-1S

API No.: 4304739482

5/5/2008

SUPERVISOR: MARK BONNIE

7:00 -

33

A

NO FLOW, NO PRESS - WELL DEAD

5/6/2008

SUPERVISOR: MARK BONNIE

7:00 -

33

A

7 AM REPORT: CP 40#, TP 0#, OPEN CK, 2 BWPH, NO SAND,  
TRACE GAS  
TTL BBLs RECOVERED: 780  
BBLs LEFT TO RECOVER: 9895

5/7/2008

SUPERVISOR: MARK BONNIE

7:00 -

33

A

NO PRESS, NO FLOW - WELL DEAD

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

AMENDED REPORT  FORM 8  
(highlight changes)

**WELL COMPLETION OR RECOMPLETION REPORT AND LOG**

5. LEASE DESIGNATION AND SERIAL NUMBER:  
**STUO-08512-ST**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT or CA AGREEMENT NAME  
**UNIT #891008900A**

8. WELL NAME and NUMBER:  
**NBU 1022-13M1S**

9. API NUMBER:  
**4304739482**

10. FIELD AND POOL, OR WILDCAT  
**NATURAL BUTTES**

11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:  
**NWSW 13 10S 22E**

12. COUNTY  
**UINTAH**

13. STATE  
**UTAH**

1a. TYPE OF WELL: OIL WELL  GAS WELL  DRY  OTHER \_\_\_\_\_

b. TYPE OF WORK: NEW WELL  HORIZ. LATS.  DEEP-EN  RE-ENTRY  DIFF. RESVR.  OTHER \_\_\_\_\_

2. NAME OF OPERATOR:  
**KERR MCGEE OIL & GAS ONSHORE LP**

3. ADDRESS OF OPERATOR: **1368 S 1200 E** CITY **VERNAL** STATE **UT** ZIP **84078** PHONE NUMBER: **(435) 781-7024**

4. LOCATION OF WELL (FOOTAGES)  
AT SURFACE: **1584' FSL, 1310' FWL**  
**1538' FSL 1275' FWL**  
AT TOP PRODUCING INTERVAL REPORTED BELOW:  
  
AT TOTAL DEPTH: **930' FSL, 700' FWL (SW/SW)** **845 fsl 708 fwl**

*Per DKD Review*

14. DATE SPUNDED: **10/30/2007** 15. DATE T.D. REACHED: **12/8/2007** 16. DATE COMPLETED: **5/9/2008** ABANDONED  READY TO PRODUCE

17. ELEVATIONS (DF, RKB, RT, GL): **5287' GL**

18. TOTAL DEPTH: MD **8,100** 19. PLUG BACK T.D.: MD **8,055** 20. IF MULTIPLE COMPLETIONS, HOW MANY? \*  
TVD **7,961** TVD **7,916**

21. DEPTH BRIDGE MD  
PLUG SET: TVD

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)  
**CBL-CCL-GR Comp 2, CD, CN, Cal, HDI, DA**  
**CVL**

23. WAS WELL CORED? NO  YES  (Submit analysis)  
WAS DST RUN? NO  YES  (Submit report)  
DIRECTIONAL SURVEY? NO  YES  (Submit copy)

24. CASING AND LINER RECORD (Report all strings set in well)

HOLE SIZE	SIZE/GRADE	WEIGHT (#ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
20"	14" STL	36.7#		40		28			
12 1/4"	9 5/8 J-55	32.3# 36#		2,160		1200			
7 7/8"	4 1/2 I-80	11.6#		8,100		1500			

25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 3/8"	7.638							

26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)	INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
(A) MESAVERDE	6,309	7,992			6,309 7,992	0.36	369	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
(B) <b>WSMVD</b>								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
(C)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
(D)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>

27. PERFORATION RECORD

28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
6309'-7992'	PMP 10,675 BBLs SLICK H2O & 370,381# 30/50 SD

29. ENCLOSED ATTACHMENTS:

ELECTRICAL/MECHANICAL LOGS  GEOLOGIC REPORT  DST REPORT  DIRECTIONAL SURVEY

SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION  CORE ANALYSIS  OTHER: \_\_\_\_\_

30. WELL STATUS:  
**PROD**

**RECEIVED**

31. INITIAL PRODUCTION

INTERVAL A (As shown in item #26)

DATE FIRST PRODUCED: 5/9/2008		TEST DATE: 5/31/2008		HOURS TESTED: 24		TEST PRODUCTION RATES: →	OIL - BBL: 0	GAS - MCF: 1,875	WATER - BBL: 360	PROD. METHOD: FLOWING
CHOKE SIZE: 22/64	TBG. PRESS. 750	CSG. PRESS. 1,450	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL - BBL: 0	GAS - MCF: 1,875	WATER - BBL: 360	INTERVAL STATUS: PROD

INTERVAL B (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS:

INTERVAL C (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS:

INTERVAL D (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS:

32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)

SOLD

33. SUMMARY OF POROUS ZONES (Include Aquifers):

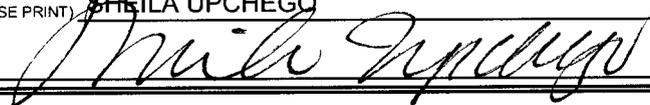
Show all important zones of porosity and contents thereof. Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
WASATCH MESAVERDE	4,083 6,301	6,301			

35. ADDITIONAL REMARKS (Include plugging procedure)

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

NAME (PLEASE PRINT) SHEILA UPCHEGO TITLE SENIOR LAND ADMIN SPECIALIST  
 SIGNATURE  DATE 6/3/2008

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

\* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

\*\* ITEM 24: Cement Top - Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining  
 1594 West North Temple, Suite 1210  
 Box 145801  
 Salt Lake City, Utah 84114-5801

Phone: 801-538-5340  
 Fax: 801-359-3940



Job Number: 083217505100  
 Company: Kerr McGee Oil & Gas (Anadarko)  
 Lease/Well: NBU 1022-13M-1S  
 Location: Uintah County, Utah  
 Rig Name: Delsco Northwest  
 RKB:  
 G.L. or M.S.L.:

State/Country: Utah/USA  
 Declination: 11.00°  
 Grid: East To Grid  
 File name: F:\SURVEY\2008SU~1\KERRMC~1\NBU13M1S  
 Date/Time: 06-Mar-08 / 11:49  
 Curve Name: 6600' - 7988' M.D. (gyroscopic)

WINSERVE SURVEY CALCULATIONS

Minimum Curvature Method

Vertical Section Plane 207.49

Vertical Section Referenced to offset from Wellhead: EW =.00 Ft , NS=.00 Ft

Rectangular Coordinates Referenced to Wellhead

Measured	Incl	Drift	TRUE			Vertical	CLOSURE	CLOSURE	Dogleg
Depth	Angle	Direction	Vertical	N-S	E-W	Section	Distance	Direction	Severity
FT	Deg	Deg	Depth	FT	FT	FT	FT	Deg	Deg/100
6500	0.75	159.33	6361.67	-650.61	-588.01	848.57	876.95	222.11	0
6600	0.75	133.73	6461.66	-651.67	-587.31	849.19	877.27	222.03	0.33
6700	1.25	142.69	6561.65	-652.99	-586.17	849.84	877.5	221.91	0.52
6800	2	147.65	6661.61	-655.34	-584.58	851.18	878.18	221.73	0.76
6900	2	152.62	6761.54	-658.36	-582.84	853.06	879.28	221.52	0.17
7000	2.5	154.58	6861.47	-661.88	-581.1	855.38	880.77	221.28	0.51
7100	2.25	157.55	6961.38	-665.66	-579.42	857.96	882.51	221.04	0.28
7200	2	168.53	7061.31	-669.19	-578.32	860.58	884.46	220.83	0.48
7300	2	158.5	7161.25	-672.52	-577.33	863.08	886.34	220.64	0.35
7400	2.25	152.47	7261.18	-675.89	-575.79	865.35	887.89	220.43	0.34
7500	2	144.44	7361.11	-679.05	-573.86	867.27	889.06	220.2	0.39
7600	2	165.41	7461.06	-682.15	-572.41	869.35	890.5	220	0.73
7700	2	162.23	7560.99	-685.5	-571.44	871.88	892.44	219.81	0.11
7800	2	155.2	7660.93	-688.75	-570.17	874.17	894.13	219.62	0.25
7900	2	137.17	7760.87	-691.61	-568.26	875.83	895.12	219.41	0.63
7988	1.25	140.09	7848.84	-693.48	-566.6	876.71	895.51	219.25	0.86

:SVY

[Comment:]

MWD Tie-In Information Provided By Operator

## NBU 1022-13M1S

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TRUE Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE Distance FT	CLOSURE Direction Deg	Dogleg Severity Deg/100
0	0	0	0	0	0	0	0	0	0 Surf Gyro
100	0.25	2.73	100	0.22	0.01	0.22	0.22	2.73	0.25 Surf Gyro
200	0.5	287.48	200	0.57	-0.4	0.57	0.69	325.11	0.5 Surf Gyro
300	0.5	332.22	299.99	1.08	-1.01	1.08	1.48	316.88	0.38 Surf Gyro
400	0.5	313.96	399.99	1.77	-1.53	1.77	2.34	319.16	0.16 Surf Gyro
500	0.25	300.71	499.99	2.19	-2.03	2.19	2.99	317.08	0.26 Surf Gyro
600	0.75	283.45	599.98	2.45	-2.86	2.45	3.77	310.61	0.52 Surf Gyro
700	0.75	289.19	699.98	2.82	-4.11	2.82	4.99	304.42	0.08 Surf Gyro
800	1	304.94	799.96	3.53	-5.45	3.53	6.49	302.97	0.34 Surf Gyro
900	1.25	335.67	899.95	5.03	-6.61	5.03	8.31	307.25	0.64 Surf Gyro
1000	1.5	345.41	999.92	7.29	-7.39	7.29	10.38	314.6	0.34 Surf Gyro
1100	1.5	355.16	1099.88	9.86	-7.83	9.86	12.59	321.54	0.25 Surf Gyro
1200	1.75	356.9	1199.84	12.69	-8.02	12.69	15.01	327.69	0.25 Surf Gyro
1300	2.25	355.63	1299.78	16.17	-8.26	16.17	18.15	332.95	0.5 Surf Gyro
1400	2.25	356.38	1399.7	20.09	-8.53	20.09	21.82	336.99	0.03 Surf Gyro
1500	1.75	11.85	1499.64	23.54	-8.34	23.54	24.97	340.49	0.73 Surf Gyro
1600	1	27.6	1599.61	25.81	-7.62	25.81	26.91	343.55	0.83 Surf Gyro
1700	0.75	52.35	1699.6	26.98	-6.7	26.98	27.8	346.06	0.45 Surf Gyro
1800	0.5	31.09	1799.6	27.75	-5.96	27.75	28.38	347.89	0.34 Surf Gyro
1900	0.25	145.83	1899.6	27.95	-5.61	27.95	28.5	348.65	0.65 Surf Gyro
1978	1.25	140.57	1977.59	27.15	-4.97	27.15	27.6	349.62	1.28 Surf Gyro

MD	Inc	Azi	TVD	N/S	E/W	Vs	Dleg	Build	Turn
2,168	1.08	151.79	2,167.96	23.971	-2.807	-15.898	0.149	-0.089	5.905 MWD
2,231	1.94	206.7	2,230.94	22.495	-3.006	-14.67	2.52	1.365	87.159 MWD
2,294	3.38	238.2	2,293.88	20.564	-5.064	-11.857	3.177	2.286	50 MWD
2,358	4.94	231.2	2,357.71	17.843	-8.815	-7.323	2.559	2.438	-10.937 MWD
2,421	7.19	232.83	2,420.35	13.761	-14.071	-0.77	3.582	3.571	2.587 MWD
2,484	9.81	232.7	2,482.65	8.125	-21.483	8.382	4.159	4.159	-0.206 MWD
2,548	11.94	232.58	2,545.50	0.798	-31.079	20.253	3.328	3.328	-0.188 MWD
2,610	13.94	232.08	2,605.92	-7.69	-42.065	33.917	3.231	3.226	-0.806 MWD
2,674	15.5	229.45	2,667.82	-17.988	-54.646	49.992	2.651	2.438	-4.109 MWD
2,737	17	225.08	2,728.30	-29.965	-67.565	67.541	3.07	2.381	-6.937 MWD
2,800	18.38	224.7	2,788.32	-43.529	-81.073	86.662	2.198	2.19	-0.603 MWD
2,863	19.38	224.83	2,847.93	-58.002	-95.429	107.026	1.589	1.587	0.206 MWD
2,926	20.31	223.7	2,907.19	-73.32	-110.353	128.397	1.597	1.476	-1.794 MWD
2,989	21.19	221.95	2,966.10	-89.694	-125.518	150.713	1.709	1.397	-2.778 MWD
3,052	19.75	221.2	3,025.12	-106.172	-140.142	172.743	2.323	-2.286	-1.19 MWD
3,115	18.44	219.83	3,084.66	-121.833	-153.536	193.343	2.198	-2.079	-2.175 MWD
3,179	19.44	219.7	3,145.19	-137.801	-166.822	214.098	1.564	1.563	-0.203 MWD
3,241	19.06	218.95	3,203.72	-153.612	-179.777	234.514	0.731	-0.613	-1.21 MWD
3,305	18.38	217.08	3,264.34	-169.789	-192.43	254.999	1.417	-1.063	-2.922 MWD
3,368	18.25	217.2	3,324.15	-185.571	-204.383	274.722	0.215	-0.206	0.19 MWD
3,431	17.13	216.08	3,384.17	-200.927	-215.811	293.777	1.858	-1.778	-1.778 MWD
3,494	17.81	215.95	3,444.26	-216.225	-226.931	312.583	1.081	1.079	-0.206 MWD
3,557	19.56	221.7	3,503.94	-231.901	-239.605	332.711	4.03	2.778	9.127 MWD
3,621	17.5	223.2	3,564.62	-246.917	-253.321	353.047	3.304	-3.219	2.344 MWD
3,684	16.24	221.7	3,624.91	-260.4	-265.666	371.328	2.116	-2	-2.381 MWD
3,747	19.44	223.32	3,684.87	-274.608	-278.722	390.623	5.14	5.079	2.571 MWD
3,811	20.38	221.58	3,745.05	-290.693	-293.425	412.415	1.736	1.469	-2.719 MWD
3,874	20.13	221.7	3,804.15	-306.993	-307.917	434.225	0.402	-0.397	0.19 MWD
3,937	20.25	222.58	3,863.28	-323.115	-322.506	455.968	0.518	0.19	1.397 MWD

4,001	21.81	223.83	3,923.02	-339.848	-338.234	478.928	2.536	2.438	1.953 MWD
4,064	21.44	221.08	3,981.58	-356.971	-353.905	502.139	1.712	-0.587	-4.365 MWD
4,127	21.56	221.58	4,040.20	-374.309	-369.154	525.227	0.348	0.19	0.794 MWD
4,190	22.5	223.33	4,098.60	-391.737	-385.108	548.854	1.82	1.492	2.778 MWD
4,254	22.44	222.45	4,157.74	-409.658	-401.756	573.312	0.534	-0.094	-1.375 MWD
4,317	21.94	222.45	4,216.08	-427.214	-417.815	597.105	0.794	-0.794	0 MWD
4,380	21.06	221.83	4,274.69	-444.333	-433.309	620.194	1.443	-1.397	-0.984 MWD
4,443	19.94	220.83	4,333.70	-460.897	-447.882	642.254	1.863	-1.778	-1.587 MWD
4,507	19.13	221.58	4,394.02	-476.999	-461.977	663.651	1.325	-1.266	1.172 MWD
4,570	18.25	220.95	4,453.69	-492.172	-475.294	683.837	1.433	-1.397	-1 MWD
4,633	17.81	221.08	4,513.60	-506.885	-488.09	703.333	0.701	-0.698	0.206 MWD
4,697	16.88	220.83	4,574.69	-521.294	-500.597	722.408	1.458	-1.453	-0.391 MWD
4,760	16	219.58	4,635.11	-534.907	-512.11	740.227	1.505	-1.397	-1.984 MWD
4,823	15.31	219.83	4,695.78	-547.986	-522.969	757.212	1.1	-1.095	0.397 MWD
4,887	15.06	220.2	4,757.54	-560.825	-533.748	773.965	0.419	-0.391	0.578 MWD
4,950	14.13	218.7	4,818.51	-573.078	-543.839	789.821	1.593	-1.476	-2.381 MWD
5,013	12.81	218.7	4,879.77	-584.531	-553.014	804.47	2.095	-2.095	0 MWD
5,077	11.44	218.45	4,942.34	-595.039	-561.398	817.887	2.142	-2.141	-0.391 MWD
5,140	10.31	217.83	5,004.21	-604.385	-568.741	829.744	1.803	-1.794	-0.984 MWD
5,203	8.69	220.33	5,066.35	-612.467	-575.279	840.124	2.653	-2.571	3.968 MWD
5,266	6.88	211.95	5,128.77	-619.298	-580.356	848.596	3.384	-2.873	-13.302 MWD
5,329	6.05	206.28	5,191.36	-625.476	-583.823	855.504	1.661	-1.317	-9 MWD
5,392	4.81	200.58	5,254.08	-630.926	-586.222	861.155	2.144	-1.968	-9.048 MWD
5,456	3.44	196.2	5,317.91	-635.282	-587.701	865.378	2.195	-2.141	-6.844 MWD
5,519	2.31	183.08	5,380.83	-638.365	-588.296	868.064	2.064	-1.794	-20.825 MWD
5,582	2	179.7	5,443.79	-640.732	-588.359	869.862	0.532	-0.492	-5.365 MWD
5,645	1.88	179.45	5,506.75	-642.865	-588.343	871.433	0.191	-0.19	-0.397 MWD
5,708	1.94	178.08	5,569.72	-644.964	-588.297	872.96	0.12	0.095	-2.175 MWD
5,772	1.44	168.45	5,633.69	-646.835	-588.1	874.215	0.896	-0.781	-15.047 MWD
5,835	0.13	146.08	5,696.68	-647.67	-587.902	874.701	2.096	-2.079	-35.508 MWD
5,930	0	146.95	5,791.68	-647.759	-587.842	874.727	0.137	-0.137	0 MWD
6,025	0.19	237.2	5,886.68	-647.844	-587.974	874.879	0.2	0.2	0 MWD
6,120	0.19	221.46	5,981.68	-648.048	-588.211	875.189	0.055	0	-16.568 MWD
6,215	0.32	187.32	6,076.68	-648.429	-588.349	875.564	0.205	0.137	-35.937 MWD
6,310	0.38	182.33	6,171.68	-649.007	-588.395	876.024	0.071	0.063	-5.253 MWD
6,405	0.44	165.45	6,266.68	-649.675	-588.317	876.466	0.141	0.063	-17.768 MWD

Last Survey Depth Recorded

6500	0.75	159.33	6361.67	-650.61	-588.01	848.57	876.95	222.11	0 MWD
Measured	Incl	Drift	TRUE	N-S	E-W	Vertical	CLOSURE	CLOSURE	Dogleg
Depth	Angle	Direction	Vertical	FT	FT	Section	Distance	Direction	Severity
FT	Deg	Deg	Depth			FT	FT	Deg	Deg/100
6600	0.75	133.73	6461.66	-651.67	-587.31	849.19	877.27	222.03	0.33 Btm Gyro
6700	1.25	142.69	6561.65	-652.99	-586.17	849.84	877.5	221.91	0.52 Btm Gyro
6800	2	147.65	6661.61	-655.34	-584.58	851.18	878.18	221.73	0.76 Btm Gyro
6900	2	152.62	6761.54	-658.36	-582.84	853.06	879.28	221.52	0.17 Btm Gyro
7000	2.5	154.58	6861.47	-661.88	-581.1	855.38	880.77	221.28	0.51 Btm Gyro
7100	2.25	157.55	6961.38	-665.66	-579.42	857.96	882.51	221.04	0.28 Btm Gyro
7200	2	168.53	7061.31	-669.19	-578.32	860.58	884.46	220.83	0.48 Btm Gyro
7300	2	158.5	7161.25	-672.52	-577.33	863.08	886.34	220.64	0.35 Btm Gyro
7400	2.25	152.47	7261.18	-675.89	-575.79	865.35	887.89	220.43	0.34 Btm Gyro
7500	2	144.44	7361.11	-679.05	-573.86	867.27	889.06	220.2	0.39 Btm Gyro
7600	2	165.41	7461.06	-682.15	-572.41	869.35	890.5	220	0.73 Btm Gyro
7700	2	162.23	7560.99	-685.5	-571.44	871.88	892.44	219.81	0.11 Btm Gyro
7800	2	155.2	7660.93	-688.75	-570.17	874.17	894.13	219.62	0.25 Btm Gyro
7900	2	137.17	7760.87	-691.61	-568.26	875.83	895.12	219.41	0.63 Btm Gyro
7988	1.25	140.09	7848.84	-693.48	-566.6	876.71	895.51	219.25	0.86 Btm Gyro

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>  <b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> STUO-08512-ST
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>  <b>7. UNIT or CA AGREEMENT NAME:</b> NATURAL BUTTES
<b>1. TYPE OF WELL</b> Gas Well	<b>8. WELL NAME and NUMBER:</b> NBU 1022-13M1S
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.	<b>9. API NUMBER:</b> 43047394820000
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	<b>PHONE NUMBER:</b> 720 929-6007 Ext
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 1538 FSL 1275 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWSW Section: 13 Township: 10.0S Range: 22.0E Meridian: S	<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES  <b>COUNTY:</b> UINTAH  <b>STATE:</b> UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 11/4/2009	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input checked="" type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: _____

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

THIS WELL RETURNED TO PRODUCTION ON 11/04/2009.

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

<b>NAME (PLEASE PRINT)</b> Andy Lytle	<b>PHONE NUMBER</b> 720 929-6100	<b>TITLE</b> Regulatory Analyst
<b>SIGNATURE</b> N/A		<b>DATE</b> 11/5/2009

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>	
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	
<b>1. TYPE OF WELL</b> Gas Well	<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> STUO-08512-ST
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.	<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	<b>7. UNIT or CA AGREEMENT NAME:</b> NATURAL BUTTES
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 1538 FSL 1275 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWSW Section: 13 Township: 10.0S Range: 22.0E Meridian: S	<b>8. WELL NAME and NUMBER:</b> NBU 1022-13M1S
<b>PHONE NUMBER:</b> 720 929-6511	<b>9. API NUMBER:</b> 43047394820000
<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES	<b>COUNTY:</b> UINTAH
	<b>STATE:</b> UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 3/23/2012	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

The operator requests authorization to recomplete the subject well. The operator requests approval to recomplete the Wasatch formation. The operator will commingle the Wasatch and the Mesaverde formations. Please see the attached procedure. Thank you.

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

**Date:** March 29, 2012

**By:** 

<b>NAME (PLEASE PRINT)</b> Jaime Scharnowske	<b>PHONE NUMBER</b> 720 929-6304	<b>TITLE</b> Regulatory Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 3/23/2012	

# Greater Natural Buttes Unit



**NBU 1022-13M1S**  
**RE-COMPLETIONS PROCEDURE**

**DATE:03/20/2012**  
**AFE#:**  
**API#:4304739482**  
**USER ID: WIU473** (Frac Invoices Only)

**COMPLETIONS ENGINEER:** Patricia Cuba, Denver, CO  
(720) 929-6348 (Office)  
(303) 601-7259 (Cell)

**SIGNATURE:**

**ENGINEERING MANAGER: JEFF DUFRESNE**

**SIGNATURE:**

**REMEMBER SAFETY FIRST!**

**Name:** NBU 1022-13M1S  
**Location:** NE SW SW SEC 13 T10S R22E  
**LAT:** 39.945872 **LONG:** -109.393069 **COORDINATE:** NAD83 (Surface)  
 Uintah County, UT  
**Date:** 03/20/2012

**ELEVATIONS:** 5287' GL 5306' KB *Frac Registry TVD: 7961*

**TOTAL DEPTH:** 8100' **PBTD:** 8055'  
**SURFACE CASING:** 9 5/8", 36# J-55 LT&C @ 102'  
 9 5/8", 32.3# H-40 LT&C @ 102'-1723'  
 9 5/8", 36# J-55 LT&C @ 1723'-2144'

**PRODUCTION CASING:** 4 1/2", 11.6#, I-80 LT&C @ 8100'  
 Marker Joint **3985-4009-4032'**

**TUBULAR PROPERTIES:**

	BURST (psi)	COLLAPSE (psi)	DRIFT DIA. (in.)	CAPACITIES	
				(bbl/ft)	(gal/ft)
2 3/8" 4.7# J-55 tbg	7,700	8,100	1.901"	0.00387	0.1624
4 1/2" 11.6# I-80 (See above)	7780	6350	3.875"	0.0155	0.6528
2 3/8" by 4 1/2" Annulus				0.0101	0.4227

**TOPS:**

1033' Green River Top  
 1283' Bird's Nest Top  
 1676' Mahogany Top  
 4083' Wasatch Top  
 6301' Mesaverde Top

**BOTTOMS:**

6301' Wasatch Bottom  
 8100' Mesaverde Bottom (TD)

**T.O.C.** @ 600' from Cutters CBL 03/16/2008

**Hydraulic Isolation** @ 1190'

**GENERAL:**

- A minimum of **7** tanks (cleaned lined 500 bbl) of recycled water will be required. Note: Use biocide in tanks and the water needs to be at least 45°F at pump time.
- All perforation depths are from Bakers Induction-Density-Neutron log dated 12/09/2007
- **3** fracturing stages required for coverage.
- Procedure calls for **4** CBP's (**8000** psi) .
- Calculate open perforations after each breakdown. If less than 60% of the perforations appear to be open, ball out with 15% HCl.
- Pump scale inhibitor at 3 gpt (in pad and until 1.25 ppg ramp up is reached) and 10 gpt in all flushes except the final stage. Remember to pre-load the casing with scale inhibitor for the very first stage with 10 gpt.
- 30/50 mesh Ottawa sand, **Slickwater frac.**

- Maximum surface pressure **6200** psi.
- Flush volumes are the sum of slick water and acid used during displacement (include scale inhibitor as mentioned above). Stage acid and scale inhibitor if necessary to cover the next perforated interval.
- **Call flush at 0 PPG @ inline densimeters. Slow to 5 bbl/min over last 10-20 bbls of flush. Flush to top perf.**
- **If distance between plug and top perf of previous stage is less than 50', it is considered to be tight spacing - over flush stage by 5 bbls (from top perf)**
- Tubing Currently Landed @~8006'
- Originally completed on 4/23/2008

### Existing Perforations:

<u>PERFORATIONS</u>							
<u>Formation</u>	<u>Zone</u>	<u>Top</u>	<u>Btm</u>	<u>spf</u>	<u>Shots</u>	<u>Date</u>	<u>Reason</u>
MESA VERDE		6309	6311	3	6	04/21/2008	PRODUCTION
MESA VERDE		6322	6324	4	8	04/21/2008	PRODUCTION
MESA VERDE		6331	6340	3	27	04/21/2008	PRODUCTION
MESA VERDE		6483	6485	2	4	04/21/2008	PRODUCTION
MESA VERDE		6496	6504	4	32	04/21/2008	PRODUCTION
MESA VERDE		6534	6538	2	8	04/21/2008	PRODUCTION
MESA VERDE		6638	6641	4	12	04/21/2008	PRODUCTION
MESA VERDE		6667	6672	4	20	04/21/2008	PRODUCTION
MESA VERDE		6708	6710	4	8	04/21/2008	PRODUCTION
MESA VERDE		6807	6811	2	8	04/21/2008	PRODUCTION
MESA VERDE		6871	6874	2	6	04/21/2008	PRODUCTION
MESA VERDE		6907	6914	4	28	04/21/2008	PRODUCTION
MESA VERDE		7056	7060	3	12	04/21/2008	PRODUCTION
MESA VERDE		7087	7097	3	30	04/21/2008	PRODUCTION
MESA VERDE		7293	7297	3	12	04/21/2008	PRODUCTION
MESA VERDE		7357	7359	4	8	04/21/2008	PRODUCTION
MESA VERDE		7376	7384	3	24	04/21/2008	PRODUCTION
MESA VERDE		7505	7508	4	12	04/21/2008	PRODUCTION
MESA VERDE		7531	7538	4	28	04/21/2008	PRODUCTION
MESA VERDE		7552	7954	4	1608	04/21/2008	PRODUCTION
MESA VERDE		7677	7679	2	4	04/21/2008	PRODUCTION
MESA VERDE		7737	7739	2	4	04/21/2008	PRODUCTION
MESA VERDE		7809	7813	3	12	04/21/2008	PRODUCTION
MESA VERDE		7859	7863	4	16	04/21/2008	PRODUCTION
MESA VERDE		7960	7962	4	8	04/21/2008	PRODUCTION
MESA VERDE		7978	7980	4	8	04/21/2008	PRODUCTION
MESA VERDE		7990	7992	4	8	04/21/2008	PRODUCTION

**Relevant History:**

04/23/2008: Originally completed with 9 frac stages of Upper Mesaverde with 485,394 gal of Slickwater and 323,998 lbs of 30/50 Ottawa sand and ~ 46,383 lbs of 30/50 resin coated sand.

03/14/2011: Slickline Report:

Travel to location rig up went in with jdc stacked out at 7634 beat down latch on plunger came out had a viper plunger went back in latch on spring hit oil jars 2 broke loose came out had a titanium spring put on bailer run T.D stacked out at 8006 beat down came out bailer had some sand scratch and brouch tubing had some scale and sand came out 1.90 brouch was clean plunger was good titanium spring had some scale clean spring drop titanium spring and viper plunger chase to bottom came out rig down travel to next location.

FLUID LEVEL7400SEAT NIPPLE DEPTH7634  
SN TYPEXTD (Max Depth) 8006'

**JOB DETAILS**

**SPRING AND/OR PRODUCTION TOOL DETAIL**

Spring OutUsed-TitaniumSpring InUsed-Titanium

Stuck SpringYes, stuck but able to latch onCorrosion on SpringNo

Bailed AcidNo

Broken SpringNoScale on SpringYes

Production ToolsNoneDepth of Tool

Other HardwareNone

**PLUNGER DETAIL**

Stuck PlungerYes, stuck but able to latch onCorrosion on PlungerNo

Broken PlungerNoScale on PlungerNo

**SOLIDS DETAIL**

Tight SpotsNoneSeverity of TrashLight

Solid sample to turn inYesSolid Sample SourceTubing

Speculated Type of SolidIron SulfideSpeculated Depth of Solid

**LOST SLICKLINE TOOLS**

Slickline Tools LostNoDepth of Tool

**H2S History:**

Production Date	Gas (avg mcf/day)	Water (avg bb/day)	Oil (avg bb/day)	LGR (bb/Mmcf)	Max H2S Seperator (ppm)
2/28/2009	395.46	46.46	3.50	126.34	0.00
3/31/2009	352.55	47.71	3.35	144.84	10.00
4/30/2009	314.90	44.97	2.80	151.69	66.00
5/31/2009	300.00	59.55	0.03	198.60	113.00
6/30/2009	274.63	46.43	0.00	169.07	10.00
7/31/2009	240.58	46.45	0.00	193.08	22.00
8/31/2009	215.58	30.10	0.00	139.61	7.00
9/30/2009	0.00	0.00	0.00	#NA	98.00
10/31/2009	0.00	0.00	0.00	#NA	
11/30/2009	360.27	23.10	0.00	64.12	
12/31/2009	170.55	14.10	0.00	82.66	81.00
1/31/2010	192.00	30.42	0.00	158.43	60.00
2/28/2010	237.61	16.25	0.00	68.39	64.00
3/31/2010	176.16	5.42	0.00	30.76	16.00
4/30/2010	80.93	6.13	0.00	75.78	60.00
5/31/2010	105.35	3.29	0.00	31.23	0.00
6/30/2010	201.63	5.17	0.00	25.62	10.00
7/31/2010	215.23	4.90	0.00	22.78	86.00
8/31/2010	87.94	1.29	0.00	14.67	10.00
9/30/2010	36.53	0.37	0.00	10.04	10.00
10/31/2010	200.97	4.71	0.00	23.43	91.00
11/30/2010	218.53	5.43	0.00	24.86	
12/31/2010	195.23	5.39	0.00	27.59	135.00
1/31/2011	168.90	5.42	0.00	32.09	140.00
2/28/2011	145.00	5.18	0.00	35.71	
3/31/2011	152.94	5.39	0.00	35.22	91.00
4/30/2011	147.40	5.30	0.00	35.96	98.00
5/31/2011	129.39	5.32	0.00	41.14	70.00
6/30/2011	131.10	27.47	0.00	209.51	67.00
7/31/2011	136.77	26.74	11.97	283.02	61.00
8/31/2011	143.55	27.00	13.84	284.49	69.00
9/30/2011	148.13	27.00	12.37	265.75	64.00
10/31/2011	142.52	27.00	13.61	284.97	137.00
11/30/2011	136.13	27.00	14.37	303.87	45.00
12/31/2011	131.90	26.26	12.42	293.23	92.00
1/31/2012	119.39	25.77	11.58	312.89	88.00
2/29/2012	115.24	25.17	12.59	327.65	78.00

**PROCEDURE: (If using any chemicals for pickling tubing or H2S Scavenging, have MSDS for all chemicals prior to starting work.)**

1. MIRU. Control well with recycled water and biocide as required. ND WH, NU BOP's and test.

2. The tubing is below the proposed CBP depth, TOO H with 2-3/8", 4.7#, J-55 (or N-80) tubing (currently landed at ~8006'). Visually inspect for scale and consider replacing if needed.
3. If tbg looks ok consider running a gauge ring to 6280' (50' below proposed CBP). Otherwise P/U a mill and C/O to 6280' (50' below proposed CBP).
4. Set 8000 psi CBP at ~ 6230'. ND BOPs and NU frac valves. Test frac valves and casing to 1000 and 3500 psi for 15 minutes each and to 6200 psi for 30 minutes. As per standard operating procedure install steel blowdown line to reserve pit from 4-1/2" X 9-5/8" annulus with pressure relief valve in line. Pressure relief will be set to release at 500 psig. Lock **OPEN** the Braden head valve. Annulus will be monitored throughout stimulation. If release occurs, stimulation will be shut down. Well conditions will be assessed and actions taken as necessary to secure the well. UDOGM will be notified if a release to the annulus occurs.
5. Perf the following with 3-3/8" gun, 23 gm, 0.36"hole:
 

Zone	From	To	spf	# of shots
WASATCH	5974	5975	4	4
WASATCH	6118	6119	4	4
WASATCH	6176	6180	4	16
6. Breakdown perfs and establish injection rate (include scale inhibitor in fluid). Spot 250 gals of 15% HCL and let soak 5-10 min. Fracture as outlined in Stage 1 on attached listing. Under-displace to ~5974' and trickle 250gal 15%HCL w/ scale inhibitor in flush .
7. Set 8000 psi CBP at ~5799'. Perf the following 3-3/8" gun, 23 gm, 0.36"hole:
 

Zone	From	To	spf	# of shots
WASATCH	5511	5513	2	4
WASATCH	5568	5569	3	3
WASATCH	5638	5639	3	3
WASATCH	5765	5769	3	12
8. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 2 on attached listing. Under-displace to ~5511' and trickle 250gal 15%HCL w/ scale inhibitor in flush.
9. Set 8000 psi CBP at ~5460'. Perf the following with 3-3/8" gun, 23 gm, 0.36" hole:
 

Zone	From	To	spf	# of shots
WASATCH	5282	5284	3	6
WASATCH	5312	5314	3	6
WASATCH	5333	5335	3	6
WASATCH	5428	5430	3	6
10. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 3 on attached listing. Under-displace to ~5282' and flush only with recycled water.
11. Set 8000 psi CBP at~5232'.
12. TIH with 3 7/8" mill, pump open sub, XN nipple and tubing.
13. Mill 3 plugs and clean out to a depth of 6200'.

14. Land tubing at 5944', drop ball and pump open sub. Flow back completion load. RDMO
15. MIRU, POOH tbg and mill. TIH with POBS and mill.
16. Mill last plug @ 6230' clean out to PBSD at 8055'. Land tubing at ±8006' pump off bit and bit sub. This well WILL be commingled at this time.
17. Clean out well with foam and/or swabbing unit until steady flow has been established from recomplete.
- 18. Leave surface casing valve open.** Monitor and report any flow from surface casing. RDMO.

**For design questions, please call  
 Patricia Cuba, Denver, CO  
 (720) 929-6348 (Office)  
 (303) 601-7259 (Cell)**

**For field implementation questions, please call  
 Jeff Samuels, Vernal, UT  
 435-781 7046 (Office)**

**NOTES:**

- **If using any chemicals for pickling tubing or H2S Scavenging, have MSDS for all chemicals prior to starting work**
- **Verify that the Braden head valve is locked OPEN.**

Service Company Supplied Chemicals - Job Totals

Friction Reducer	52	gals @	0.5	GPT
Surfactant	105	gals @	1.0	GPT
Clay Stabilizer	52	gals @	0.5	GPT
15% Hcl	750	gals @	250	gal/stg
Iron Control for acid	4	gals @	5.0	GPT of acid
Surfactant for acid	2	gals @	2.0	GPT of acid
Corrosion Inhibitor for acid	3	gals @	4.0	GPT of acid

Third Party Supplied Chemicals Job Totals - Include Pumping Charge if Applicable

Scale Inhibitor	292	gals pumped per schedule above		
Biocide	31	gals @	0.3	GPT

Name NBU 1022-13M1S  
 Perforation and CBP Summary

Stage	Zones	Perforations		SPF	Holes	Fracture Coverage		
		Top, ft	Bottom, ft					
1	WASATCH	5974	5975	4	4	5970.5	to	5976
	WASATCH	6118	6119	4	4	6115.5	to	6126
	WASATCH	6176	6180	4	16	6160.5	to	6195
	# of Perfs/stage				24	CBP DEPTH	5,799	
2	WASATCH	5511	5513	2	4	5510.5	to	5515.5
	WASATCH	5568	5569	3	3	5567	to	5570
	WASATCH	5638	5639	3	3	5634.5	to	5641
	WASATCH	5765	5769	3	12	5763.5	to	5773
	# of Perfs/stage				22	CBP DEPTH	5,460	
3	WASATCH	5282	5284	3	6	5252	to	5294.5
	WASATCH	5312	5314	3	6	5309.5	to	5325
	WASATCH	5333	5335	3	6	5327.5	to	5336
	WASATCH	5428	5430	3	6	5423.5	to	5431
	# of Perfs/stage				24	CBP DEPTH	5,232	
<b>Totals</b>								
					70			



NBU 1022-13M1S									
Measured	Incl	Drift	TRUE	N-S	E-W	Vertical	CLOSURE	CLOSURE	Dogleg
Depth	Angle	Direction	Vertical	FT	FT	Section	Distance	Direction	Severity
FT	Deg	Deg	Depth			FT	FT	Deg	Deg/100
0	0	0	0	0	0	0	0	0	0
100	0.25	2.73	100	0.22	0.01	0.22	0.22	2.73	0.25
200	0.5	287.48	200	0.57	-0.4	0.57	0.69	325.11	0.5
300	0.5	332.22	299.99	1.08	-1.01	1.08	1.48	316.88	0.38
400	0.5	313.96	399.99	1.77	-1.53	1.77	2.34	319.16	0.16
500	0.25	300.71	499.99	2.19	-2.03	2.19	2.99	317.08	0.26
600	0.75	283.45	599.98	2.45	-2.86	2.45	3.77	310.61	0.52
700	0.75	289.19	699.98	2.82	-4.11	2.82	4.99	304.42	0.08
800	1	304.94	799.96	3.53	-5.45	3.53	6.49	302.97	0.34
900	1.25	335.67	899.95	5.03	-6.61	5.03	8.31	307.25	0.64
1000	1.5	345.41	999.92	7.29	-7.39	7.29	10.38	314.6	0.34
1100	1.5	355.16	1099.88	9.86	-7.83	9.86	12.59	321.54	0.25
1200	1.75	356.9	1199.84	12.69	-8.02	12.69	15.01	327.69	0.25
1300	2.25	355.63	1299.78	16.17	-8.26	16.17	18.15	332.95	0.5
1400	2.25	356.38	1399.7	20.09	-8.53	20.09	21.82	336.99	0.03
1500	1.75	11.85	1499.64	23.54	-8.34	23.54	24.97	340.49	0.73
1600	1	27.6	1599.61	25.81	-7.62	25.81	26.91	343.55	0.83
1700	0.75	52.35	1699.6	26.98	-6.7	26.98	27.8	346.06	0.45
1800	0.5	31.09	1799.6	27.75	-5.96	27.75	28.38	347.89	0.34
1900	0.25	145.83	1899.6	27.95	-5.61	27.95	28.5	348.65	0.65
1978	1.25	140.57	1977.59	27.15	-4.97	27.15	27.6	349.62	1.28
MD	Incl	Azi	TVD	N/S	E/W	Vs	Dleg	Build	Turn
2,168	1.08	151.79	2,167.96	23.971	-2.807	-15.898	0.149	-0.089	5.905
2,231	1.94	206.7	2,230.94	22.495	-3.006	-14.67	2.52	1.365	87.159
2,294	3.38	238.2	2,293.88	20.564	-5.064	-11.857	3.177	2.286	50
2,358	4.94	231.2	2,357.71	17.843	-8.815	-7.323	2.559	2.438	-10.937
2,421	7.19	232.83	2,420.35	13.761	-14.071	-0.77	3.582	3.571	2.587
2,484	9.81	232.7	2,482.65	8.125	-21.483	8.382	4.159	4.159	-0.206
2,548	11.94	232.58	2,545.50	0.798	-31.079	20.253	3.328	3.328	-0.188
2,610	13.94	232.08	2,605.92	-7.69	-42.065	33.917	3.231	3.226	-0.806
2,674	15.5	229.45	2,667.82	-17.988	-54.646	49.992	2.651	2.438	-4.109
2,737	17	225.08	2,728.30	-29.965	-67.565	67.541	3.07	2.381	-6.937
2,800	18.38	224.7	2,788.32	-43.529	-81.073	86.662	2.198	2.19	-0.603
2,863	19.38	224.83	2,847.93	-58.002	-95.429	107.026	1.589	1.587	0.206
2,926	20.31	223.7	2,907.19	-73.32	-110.353	128.397	1.597	1.476	-1.794
2,989	21.19	221.95	2,966.10	-89.694	-125.518	150.713	1.709	1.397	-2.778
3,052	19.75	221.2	3,025.12	-106.172	-140.142	172.743	2.323	-2.286	-1.19
3,115	18.44	219.83	3,084.66	-121.833	-153.536	193.343	2.198	-2.079	-2.175
3,179	19.44	219.7	3,145.19	-137.801	-166.822	214.098	1.564	1.563	-0.203
3,241	19.06	218.95	3,203.72	-153.612	-179.777	234.514	0.731	-0.613	-1.21
3,305	18.38	217.08	3,264.34	-169.789	-192.43	254.999	1.417	-1.063	-2.922
3,368	18.25	217.2	3,324.15	-185.571	-204.383	274.722	0.215	-0.206	0.19
3,431	17.13	216.08	3,384.17	-200.927	-215.811	293.777	1.858	-1.778	-1.778
3,494	17.81	215.95	3,444.26	-216.225	-226.931	312.583	1.081	1.079	-0.206
3,557	19.56	221.7	3,503.94	-231.901	-239.605	332.711	4.03	2.778	9.127
3,621	17.5	223.2	3,564.62	-246.917	-253.321	353.047	3.304	-3.219	2.344
3,684	16.24	221.7	3,624.91	-260.4	-265.666	371.328	2.116	-2	-2.381
3,747	19.44	223.32	3,684.87	-274.608	-278.722	390.623	5.14	5.079	2.571
3,811	20.38	221.58	3,745.05	-290.693	-293.425	412.415	1.736	1.469	-2.719
3,874	20.13	221.7	3,804.15	-306.993	-307.917	434.225	0.402	-0.397	0.19
3,937	20.25	222.58	3,863.28	-323.115	-322.506	455.968	0.518	0.19	1.397
4,001	21.81	223.83	3,923.02	-339.848	-338.234	478.928	2.536	2.438	1.953
4,064	21.44	221.08	3,981.58	-356.971	-353.905	502.139	1.712	-0.587	-4.365
4,127	21.56	221.58	4,040.20	-374.309	-369.154	525.227	0.348	0.19	0.794
4,190	22.5	223.33	4,098.60	-391.737	-385.108	548.854	1.82	1.492	2.778
4,254	22.44	222.45	4,157.74	-409.658	-401.756	573.312	0.534	-0.094	-1.375
4,317	21.94	222.45	4,216.08	-427.214	-417.815	597.105	0.794	-0.794	0
4,380	21.06	221.83	4,274.69	-444.333	-433.309	620.194	1.443	-1.397	-0.984
4,443	19.94	220.83	4,333.70	-460.897	-447.882	642.254	1.863	-1.778	-1.587
4,507	19.13	221.58	4,394.02	-476.999	-461.977	663.651	1.325	-1.266	1.172
4,570	18.25	220.95	4,453.69	-492.172	-475.294	683.837	1.433	-1.397	-1
4,633	17.81	221.08	4,513.60	-506.885	-488.09	703.333	0.701	-0.698	0.206
4,697	16.88	220.83	4,574.69	-521.294	-500.597	722.408	1.458	-1.453	-0.391
4,760	16	219.58	4,635.11	-534.907	-512.11	740.227	1.505	-1.397	-1.984
4,823	15.31	219.83	4,695.78	-547.986	-522.969	757.212	1.1	-1.095	0.397
4,887	15.06	220.2	4,757.54	-560.825	-533.748	773.965	0.419	-0.391	0.578
4,950	14.13	218.7	4,818.51	-573.078	-543.839	789.821	1.593	-1.476	-2.381

5,013	12.81	218.7	4,879.77	-584.531	-553.014	804.47	2.095	-2.095	0
5,077	11.44	218.45	4,942.34	-595.039	-561.398	817.887	2.142	-2.141	-0.391
5,140	10.31	217.83	5,004.21	-604.385	-568.741	829.744	1.803	-1.794	-0.984
5,203	8.69	220.33	5,066.35	-612.467	-575.279	840.124	2.653	-2.571	3.968
5,266	6.88	211.95	5,128.77	-619.298	-580.356	848.596	3.384	-2.873	-13.302
5,329	6.05	206.28	5,191.36	-625.476	-583.823	855.504	1.661	-1.317	-9
5,392	4.81	200.58	5,254.08	-630.926	-586.222	861.155	2.144	-1.968	-9.048
5,456	3.44	196.2	5,317.91	-635.282	-587.701	865.378	2.195	-2.141	-6.844
5,519	2.31	183.08	5,380.83	-638.365	-588.296	868.064	2.064	-1.794	-20.825
5,582	2	179.7	5,443.79	-640.732	-588.359	869.862	0.532	-0.492	-5.365
5,645	1.88	179.45	5,506.75	-642.865	-588.343	871.433	0.191	-0.19	-0.397
5,708	1.94	178.08	5,569.72	-644.964	-588.297	872.96	0.12	0.095	-2.175
5,772	1.44	168.45	5,633.69	-646.835	-588.1	874.215	0.896	-0.781	-15.047
5,835	0.13	146.08	5,696.68	-647.67	-587.902	874.701	2.096	-2.079	-35.508
5,930	0	146.95	5,791.68	-647.759	-587.842	874.727	0.137	-0.137	0
6,025	0.19	237.2	5,886.68	-647.844	-587.974	874.879	0.2	0.2	0
6,120	0.19	221.46	5,981.68	-648.048	-588.211	875.189	0.055	0	-16.568
6,215	0.32	187.32	6,076.68	-648.429	-588.349	875.564	0.205	0.137	-35.937
6,310	0.38	182.33	6,171.68	-649.007	-588.395	876.024	0.071	0.063	-5.253
6,405	0.44	165.45	6,266.68	-649.675	-588.317	876.466	0.141	0.063	-17.768
Last Survey Depth Recorded									
6500	0.75	159.33	6361.67	-650.61	-588.01	848.57	876.95	222.11	0
Measured	Incl	Drift	TRUE	N-S	E-W	Vertical	CLOSURE	CLOSURE	Dogleg
Depth	Angle	Direction	Vertical	FT	FT	Section	Distance	Direction	Severity
FT	Deg	Deg	Depth			FT	FT	Deg	Deg/100
6600	0.75	133.73	6461.66	-651.67	-587.31	849.19	877.27	222.03	0.33
6700	1.25	142.69	6561.65	-652.99	-586.17	849.84	877.5	221.91	0.52
6800	2	147.65	6661.61	-655.34	-584.58	851.18	878.18	221.73	0.76
6900	2	152.62	6761.54	-658.36	-582.84	853.06	879.28	221.52	0.17
7000	2.5	154.58	6861.47	-661.88	-581.1	855.38	880.77	221.28	0.51
7100	2.25	157.55	6961.38	-665.66	-579.42	857.96	882.51	221.04	0.28
7200	2	168.53	7061.31	-669.19	-578.32	860.58	884.46	220.83	0.48
7300	2	158.5	7161.25	-672.52	-577.33	863.08	886.34	220.64	0.35
7400	2.25	152.47	7261.18	-675.89	-575.79	865.35	887.89	220.43	0.34
7500	2	144.44	7361.11	-679.05	-573.86	867.27	889.06	220.2	0.39
7600	2	165.41	7461.06	-682.15	-572.41	869.35	890.5	220	0.73
7700	2	162.23	7560.99	-685.5	-571.44	871.88	892.44	219.81	0.11
7800	2	155.2	7660.93	-688.75	-570.17	874.17	894.13	219.62	0.25
7900	2	137.17	7760.87	-691.61	-568.26	875.83	895.12	219.41	0.63
7988	1.25	140.09	7848.84	-693.48	-566.6	876.71	895.51	219.25	0.86

Acid Pickling and H2S Procedures (If Required)  
\*\*PROCEDURE FOR PUMPING ACID DOWN TBG

WHEN FINDING SCALE IN TUBING THAT IS ACID SOLUBLE, ENSURE THAT PLUNGER EQUIPMENT IS REMOVED AND ABLE TO PUMP DOWN TBG. INSTALL A 'T' IN PUMP LINE W/2" VALVE THAT NALCO CAN TIE INTO. HAVE 60 BBL 2% KCL MIXED W/ 10-15 GAL H2S SCAVENGER IN RIG FLAT TANK. (WE USED THE RIG FLAT TANK FOR MIXING CHEMICAL SO WE DIDN'T HAVE THE CHEMICAL IN ALL FLUIDS ON LOCATION, ONLY WHAT WE NEEDED TO PUMP DOWN HOLE)

1. PUMP 5-10 BBL 2% KCL DOWN TBG (NALCO CANNOT PUMP AGAINST PRESSURE)
2. NALCO WILL PUMP 3 DRUMS HCL (31%) INTO PUMP LINE.
3. FLUSH BEHIND ACID WITH 10-15 BBL 2% KCL
4. PUMP 2—30 BBL 2% W/ H2S SCAVENGER DOWN TBG.
5. PUMP REMAINDER OF 2% W/ H2S SCAVENGER DOWN CASING AND SHUT WELL IN FOR MINIMUM OF 2 HRS.
6. OVER DISPLACE DOWN TBG AND CSG TO FLUSH ACID AND SCAVENGER INTO FORMATION
7. MONITOR TUBING FOR FLOW AND CASING FOR H2S NOW AS POOH W/ TUBING.

\*\* PROCEDURE FOR PUMPING H2S SCAVENGER WITHOUT ACID

PRIOR TO RIG MOVING ON OR AS RIG PULLS ONTO LOCATION. TEST CASING, TUBING AND SEPARATOR FOR H2S. IF FOUND MAKE SURE THAT PLUNGER SYSTEM IS REMOVED (IT IS POSSIBLE TO PUMP AROUND PLUNGERS BUT SOME WILL HAVE A STANDING VALVE IN SEATING NIPPLE).

1. MIX 10-15 GAL H2S SCAVENGER WITH 60-100 BBL 2% KCL IN RIG FLAT TANK.
2. PUMP 25 BBL MIXTURE DOWN TUBING AND REST DOWN CASING. SHUT WELL IN FOR 2 HOURS.
3. IF WELL HAS PRESSURE AFTER 2 HOURS – RETEST CASING AND TUBING FOR H2S.
4. FLUSH TUBING AND CASING PUSHING H2S SCAVENGER INTO FORMATION.
5. MONITOR TUBING FOR FLOW AND CASING FOR H2S NOW AS POOH W/ TUBING.

\*\* As per APC standard operating procedure, APC foreman will verify ALL volumes pumped and record on APC Volume Report Form

Key Contact information

Completion Engineer

Patricia Cuba: 720-929-6348, 303-601-7259

Production Engineer

Ben Smiley: 435/781-7010, 936/524-4231

Brad Laney: 435/781-7031, 435/828-5469

Jordan Portillo: 435/781-9785, 435/828-6221

Laura M. Wellman: 435/781-9748, 435/322-0118

Completion Supervisor Foreman

Jeff Samuels: 435-828-6515, 435-781-7046

Completion Manager

Jeff Dufresne: 720-929-6281, 303-241-8428

Vernal Main Office

435-789-3342

Emergency Contact Information—Call 911

Vernal Regional Hospital Emergency: 435-789-3342

Police: (435) 789-5835

Fire: 435-789-4222

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

AMENDED REPORT  FORM 8  
(highlight changes)

**WELL COMPLETION OR RECOMPLETION REPORT AND LOG**

1a. TYPE OF WELL: OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> DRY <input type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: <b>STUO-08512-ST</b>
b. TYPE OF WORK: NEW WELL <input type="checkbox"/> HORIZ. LATS. <input type="checkbox"/> DEEP-EN <input type="checkbox"/> RE-ENTRY <input type="checkbox"/> DIFF. RESVR. <input checked="" type="checkbox"/> OTHER <b>RECOMPLETION</b>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
2. NAME OF OPERATOR: <b>KERR MCGEE OIL &amp; GAS ONSHORE, L.P.</b>		7. UNIT or CA AGREEMENT NAME <b>UTU63047A</b>
3. ADDRESS OF OPERATOR: <b>P.O. BOX 173779</b> CITY <b>DENVER</b> STATE <b>CO</b> ZIP <b>80217</b>		8. WELL NAME and NUMBER: <b>NBU 1022-13M1S</b>
PHONE NUMBER: <b>(720) 929-6304</b>		9. API NUMBER: <b>4304739482</b>
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: <b>NWSW 1538FSL 1275FWL S13,T10S,R22E</b> AT TOP PRODUCING INTERVAL REPORTED BELOW: <b>SWSW 719 FSL 695 FWL S13,T10S,R22E</b> AT TOTAL DEPTH: <b>SWSW 845 FSL 708 FWL S13,T10S,R22E</b>		10. FIELD AND POOL, OR WLD/CAT <b>NATURAL BUTTES</b>
		11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: <b>NWSW 13 10S 22E S</b>
		12. COUNTY <b>UINTAH</b>
		13. STATE <b>UTAH</b>

14. DATE SPUDDED: <b>10/30/2007</b>	15. DATE T.D. REACHED: <b>12/8/2007</b>	16. DATE COMPLETED: <b>5/11/2012</b>	ABANDONED <input type="checkbox"/> READY TO PRODUCE <input checked="" type="checkbox"/>	17. ELEVATIONS (DF, RKB, RT, GL): <b>5287 GL</b>
18. TOTAL DEPTH: MD <b>8,100</b> TVD <b>7,961</b>	19. PLUG BACK T.D.: MD <b>8,055</b> TVD <b>7,916</b>	20. IF MULTIPLE COMPLETIONS, HOW MANY? *		21. DEPTH BRIDGE MD <b>6,230</b> PLUG SET: TVD

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)

23.  
 WAS WELL CORED? NO  YES  (Submit analysis)  
 WAS DST RUN? NO  YES  (Submit report)  
 DIRECTIONAL SURVEY? NO  YES  (Submit copy)

**24. CASING AND LINER RECORD (Report all strings set in well)**

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
20"	14" STL	36.7#	0	40		28			
12 1/4"	9 5/8" J-55	32.3#,36#	0	2,160		1,200		0	
7 7/8"	4 1/2" I-80	11.6#	0	8,100		1,500		600	

**25. TUBING RECORD**

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 3/8"	5,936							

**26. PRODUCING INTERVALS**

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)	INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
(A) WASATCH	5,282	6,180			5,282 6,180	0.36	70	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
(B)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
(C)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
(D)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>

**27. PERFORATION RECORD**

**28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.**

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
5282-6180	PUMP 2918 BBLs SLICK H2O & 80,400 LBS 30/50 OTTAWA SAND 3 STAGES

**29. ENCLOSED ATTACHMENTS:**

- ELECTRICAL/MECHANICAL LOGS       GEOLOGIC REPORT       DST REPORT       DIRECTIONAL SURVEY  
 SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION       CORE ANALYSIS       OTHER: \_\_\_\_\_

**30. WELL STATUS:**

**PROD**

**RECEIVED**

**SEP 12 2012**

31. INITIAL PRODUCTION

INTERVAL A (As shown in Item #26)

DATE FIRST PRODUCED: 5/11/2012		TEST DATE: 5/17/2012		HOURS TESTED: 24		TEST PRODUCTION RATES: →		OIL – BBL: 0	GAS – MCF: 2,275	WATER – BBL: 0	PROD. METHOD: FLOWING
CHOKE SIZE: 24/64	TBG. PRESS. 247	CSG. PRESS. 1,348	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL: 0	GAS – MCF: 2,275	WATER – BBL: 0	INTERVAL STATUS: PROD	

INTERVAL B (As shown in Item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →		OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:	

INTERVAL C (As shown in Item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →		OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:	

INTERVAL D (As shown in Item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →		OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:	

32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)

SOLD

33. 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.

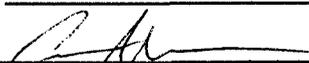
34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
				GREEN RIVER	1,033
				BIRD'S NEST	1,283
				MAHOGANY	1,676
				WASATCH	4,083
				MESAVERDE	6,301

35. ADDITIONAL REMARKS (Include plugging procedure)

Attached is the recompletion history and perforation report. New recompletion perforations are: Wasatch 5282-6180'; existing perforations: Mesaverde 6309-7992'. The Iso plug separating new perforations from old perforations is set @ 6230'. A NOI will be filed before this plug is drilled out. Production is from new perforations only.

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

NAME (PLEASE PRINT) CARA MAHLER TITLE REGULATORY ANALYST  
 SIGNATURE  DATE 9/4/2012

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

\* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

\*\* ITEM 24: Cement Top – Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining Phone: 801-538-5340  
 1594 West North Temple, Suite 1210  
 Box 145801 Fax: 801-359-3940  
 Salt Lake City, Utah 84114-5801

**US ROCKIES REGION  
Operation Summary Report**

Well: NBU 1022-13M-1S RED		Spud Date: 10/30/2007	
Project: UTAH-UINTAH		Site: WHITE RIVER PAD	Rig Name No: ROCKY MOUNTAIN WELL SERVICE 3/3
Event: RECOMPL/RESEREVEADD		Start Date: 4/25/2012	End Date: 5/11/2012
Active Datum: RKB @5,306.00usft (above Mean Sea Level)		UWI: NBU 1022-13M-1S	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
5/3/2012	7:00 - 7:15	0.25	ABANDZ	48		P		HSM - JSA
	7:15 - 17:00	9.75	ABANDZ	31	I	P		RDMO, NBU 1022-13M2CS, MIRU, NDWH, NUBOP, MIRU SCAN TECH, POOH SCAN L/D ON FLOAT 245 JTS 2 3/8" L-80 TBG, 94 JTS YELLOW, 151 JTS RED (4,685'), RDMO SCAN TECH, MIRU J-W WIRELINE, RIH W/ GAUGE RING & TRASH BASKET TO 6,280', NO TIGHT SPOTS CAME BACK CLEAN, RDMO J-W, R/D FLOOR & TBG EQUIP, NDBOP, NUFV, SDFN. RU CASED HOLE SOLUTIONS, PU HAL 10K CPB RIH SET @ 6230, POOH FILLED CSG W/ 85 BBLs TMAC
5/4/2012	9:00 - 17:00	8.00		37		P		FILL SURFACE CSG. MIRU B&C QUICK TEST. PSI TEST T/ 1000 PSI. HELD FOR 15 MIN LOST 67 PSI. PSI TEST T/ 3500 PSI. HELD FOR 15 MIN LOST 18 PSI. 1ST PSI TEST T/ 6200 PSI. HELD FOR 30 MIN LOST 40 PSI. NO COMMUNICATION OR MIGRATION WITH SURFACE CSG BLEED OFF PSI.  PERF STG 1)PU 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH PERF AS PER PERF DESIGN. POOH. SWFW HSM. HIGH PSI LINES.
5/7/2012	6:45 - 7:00	0.25	FRAC	48		P		

**US ROCKIES REGION  
Operation Summary Report**

Well: NBU 1022-13M-1S RED		Spud Date: 10/30/2007	
Project: UTAH-UINTAH		Site: WHITE RIVER PAD	Rig Name No: ROCKY MOUNTAIN WELL SERVICE 3/3
Event: RECOMPL/RESEREVEADD		Start Date: 4/25/2012	End Date: 5/11/2012
Active Datum: RKB @5,306.00usft (above Mean Sea Level)		UWI: NBU 1022-13M-1S	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
5/11/2012	7:00 - 18:00	11.00	FRAC	36	B	P		<p>MIRU HALLIBURTON FRAC SERV. FRAC STG 1)WHP 0 PSI, BRK 4296 PSI @ 4.5 BPM. ISIP 1130 PSI, FG .62. CALC PERFS OPEN @ 37.7 BPM @ 4554 PSI = 67% HOLES OPEN. (16/24 HOLES OPEN) ISIP 2028 PSI, FG .77, NPI 898 PSI. MP 5716 PSI, MR 45.8 BPM, AP 4635 PSI, AR 39.8 BPM, PUMPED 30/50 OWATTA SAND. SWI, X-OVER FOR WL.</p> <p>PERF STG 2)PU 4 1/2 8K HAL CBP &amp; 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 180 &amp; 120 DEG PHASING. RIH SET CBP @ 5799' P/U PERF AS PER DESIGN. POOH, X-OVER FOR FRAC CREW.</p> <p>FRAC STG 2)WHP 99 PSI, BRK 3457 PSI @ 6.1 BPM. ISIP 1996 PSI, FG .79. CALC PERFS OPEN @ 47.9 BPM @ 3834 PSI = 100% HOLES OPEN. (22/22 HOLES OPEN) ISIP 1615 PSI, FG .72, NPI -381 PSI. MP 4283 PSI, MR 52.8 BPM, AP 3594 PSI, AR 47.3 BPM, PUMPED 30/50 OWATTA SAND. SWI, X-OVER FOR WL.</p> <p>PERF STG 3)PU 4 1/2 8K HAL CBP &amp; 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 120 DEG PHASING. RIH SET CBP @ 5460' P/U PERF AS PER DESIGN. POOH, X-OVER FOR FRAC CREW.</p> <p>FRAC STG 3)WHP 0 PSI, BRK 2574 PSI @ 6.4 BPM. ISIP 789 PSI, FG .58. CALC PERFS OPEN @ 50.1 BPM @ 3133 PSI = 83% HOLES OPEN. (20/24 HOLES OPEN) ISIP 1416 PSI, FG .70, NPI 627 PSI. MP 3560 PSI, MR 50.3 BPM, AP 3075 PSI, AR 49.9 BPM, PUMPED 30/50 OWATTA SAND. SWI, X-OVER FOR WL.</p> <p>PU 4 1/2 8K HAL CBP. RIH SET CBP @ 5232'. POOH, SWI. DONE FRACING THIS WELL.</p> <p>TOTAL SAND = 80,400 LBS TOTAL CLFL = 2918 BBLS HSM - JSA</p>
5/11/2012	7:00 - 7:15	0.25	DRLOUT	48		P		

**US ROCKIES REGION  
Operation Summary Report**

Well: NBU 1022-13M-1S RED

Spud Date: 10/30/2007

Project: UTAH-UINTAH

Site: WHITE RIVER PAD

Rig Name No: ROCKY MOUNTAIN WELL SERVICE  
3/3

Event: RECOMPL/RESEREVEADD

Start Date: 4/25/2012

End Date: 5/11/2012

Active Datum: RKB @5,306.00usft (above Mean Sea Level)

UWI: NBU 1022-13M-1S

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	7:15 - 15:00	7.75	DRLOUT	44	C	P		<p>NDWH, NUBOP, P/U 3 7/8" BIT, PUMP OPEN BIT SUB, XN SN, P/U 2 3/8" L-80 YELLOW BAND TBG OFF FLOAT RIH TAG FILL @ 5,209', R/U PWR SWIVEL, BRK CIRC, PRESS TEST BOP TO 3,000 PSI, LOST 0 PSI IN 15 MIN.</p> <p>C/O 30' SAND TAG PLUG #1 @ 5,232'.DRL HAL 8K CBP IN 3 MIN, 0 PSI INC, FCP 50 PSI, RIH TAG FILL @ 5,443'.</p> <p>R/U WEATHERFORD FOAM UNIT BRK CIRC, C/O 15' SAND TAG PLUG #2 @ 5,460'.DRL HAL 8K CBP IN 8 MIN, 200 PSI INC, FCP 300 PSI, RIH TAG FILL @ 5,762'.</p> <p>C/O 30' SAND TAG PLUG #3 @ 5,799', DRL HAL 8K CBP IN 5 MIN, 150 PSI INC, FCP 350 PSI, RIH TO 6,220', ISO PLUG @ 6,230. R/D PWR SWIVEL.</p> <p>POOH L/D 9 JTS ON FLOAT LAND W/ 189 JTS L-80 TBG @ 5,936.37', R/D FLOOR &amp; TBG EQUIP, NDBOP, NUWH, DROP BALL PUMP OPEN BIT SUB @ 2,300 PSI. R/D FOAM UNIT, TURN OVER TO FBC, SICP 950 PSI, SITP 450 PSI.</p> <p>RDMO, SPOT RIG ON NBU 1022-13N1S.</p> <p>KB - 19' HANGER - .83' 189 JTS 2 3/8" L-80 - 5,914.34' POBS - 2.20' EOT @ 5,936.37'</p> <p>TWTR = 3,018 BBLS TWR = 595 BBLS TWLTR = 2,423</p>

## 1 General

### 1.1 Customer Information

Company	US ROCKIES REGION
Representative	
Address	

### 1.2 Well/Wellbore Information

Well	NBU 1022-13M-1S RED	Wellbore No.	OH
Well Name	NBU 1022-13M-1S	Wellbore Name	NBU 1022-13M-1S
Report No.	1	Report Date	4/25/2012
Project	UTAH-UINTAH	Site	WHITE RIVER PAD
Rig Name/No.		Event	RECOMPL/RESEREVEADD
Start Date	4/25/2012	End Date	5/11/2012
Spud Date	10/30/2007	Active Datum	RKB @5,306.00usft (above Mean Sea Level)
UWI	NBU 1022-13M-1S		

### 1.3 General

Contractor		Job Method		Supervisor	
Perforated Assembly		Conveyed Method			

### 1.4 Initial Conditions

Fluid Type		Fluid Density		Gross Interval	5,282.0 (usft)-6,180.0 (usft)	Start Date/Time	4/25/2012 12:00AM
Surface Press		Estimate Res Press		No. of Intervals	11	End Date/Time	4/25/2012 12:00AM
TVD Fluid Top		Fluid Head		Total Shots	70	Net Perforation Interval	22.00 (usft)
Hydrostatic Press		Press Difference		Avg Shot Density	3.18 (shot/ft)	Final Surface Pressure	
Balance Cond	NEUTRAL					Final Press Date	

### 1.5 Summary

## 2 Intervals

### 2.1 Perforated Interval

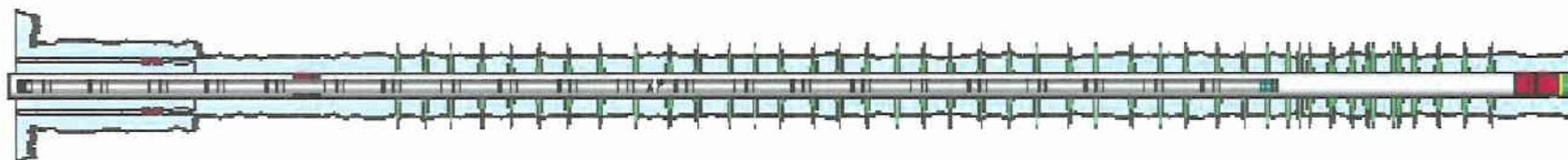
Date	Formation/Reservoir	CCL@ (usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/Add. Shot	Diameter (in)	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
4/25/2012 12:00AM	WASATCH/			5,282.0	5,284.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO	N

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diamete r (in)	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
4/25/2012 12:00AM	WASATCH/			5,312.0	5,314.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/25/2012 12:00AM	WASATCH/			5,333.0	5,335.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/25/2012 12:00AM	WASATCH/			5,428.0	5,430.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/25/2012 12:00AM	WASATCH/			5,511.0	5,513.0	2.00		0.360	EXP/	3.375	180.00		23.00	PRODUCTIO N	
4/25/2012 12:00AM	WASATCH/			5,568.0	5,569.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/25/2012 12:00AM	WASATCH/			5,638.0	5,639.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/25/2012 12:00AM	WASATCH/			5,765.0	5,769.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/25/2012 12:00AM	WASATCH/			5,974.0	5,975.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
4/25/2012 12:00AM	WASATCH/			6,118.0	6,119.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
4/25/2012 12:00AM	WASATCH/			6,176.0	6,180.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	

3 Plots

3.1 Wellbore Schematic



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

AMENDED REPORT  FORM 8  
(highlight changes)

**WELL COMPLETION OR RECOMPLETION REPORT AND LOG**

1a. TYPE OF WELL: OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> DRY <input type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: <b>STUO-08512-ST</b>
b. TYPE OF WORK: NEW WELL <input type="checkbox"/> HORIZ. LATS. <input type="checkbox"/> DEEP-EN <input type="checkbox"/> RE-ENTRY <input type="checkbox"/> DIFF. RESVR. <input checked="" type="checkbox"/> OTHER <b>RECOMPLETION</b>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
2. NAME OF OPERATOR: <b>KERR MCGEE OIL &amp; GAS ONSHORE, L.P.</b>		7. UNIT or CA AGREEMENT NAME <b>UTU63047A</b>
3. ADDRESS OF OPERATOR: <b>P.O.BOX 173779</b> CITY <b>DENVER</b> STATE <b>CO</b> ZIP <b>80217</b>		8. WELL NAME and NUMBER: <b>NBU 1022-13M1S</b>
PHONE NUMBER: <b>(720) 929-6304</b>		9. API NUMBER: <b>4304739482</b>
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: <b>NWSW 1538FSL 1275FWL S13,T10S,R22E</b> AT TOP PRODUCING INTERVAL REPORTED BELOW: <b>SWSW 719 FSL 695 FWL S13,T10S,R22E</b> AT TOTAL DEPTH: <b>SWSW 845 FSL 708 FWL S13,T10S,R22E</b>		10 FIELD AND POOL, OR WLDCAT <b>NATURAL BUTTES</b>
		11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: <b>NWSW 13 10S 22E S</b>
		12. COUNTY <b>UINTAH</b>
		13. STATE <b>UTAH</b>

14. DATE SPURRED: <b>10/30/2007</b>	15. DATE T.D. REACHED: <b>12/8/2007</b>	16. DATE COMPLETED: <b>5/11/2012</b>	ABANDONED <input type="checkbox"/> READY TO PRODUCE <input checked="" type="checkbox"/>	17. ELEVATIONS (DF, RKB, RT, GL): <b>5287 GL</b>
18. TOTAL DEPTH: MD <b>8,100</b> TVD <b>7,961</b>	19. PLUG BACK T.D.: MD <b>8,055</b> TVD <b>7,916</b>	20. IF MULTIPLE COMPLETIONS, HOW MANY? *		21. DEPTH BRIDGE MD <b>6,230</b> PLUG SET: TVD

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)

23.

WAS WELL CORED?	NO <input checked="" type="checkbox"/>	YES <input type="checkbox"/>	(Submit analysis)
WAS DST RUN?	NO <input checked="" type="checkbox"/>	YES <input type="checkbox"/>	(Submit report)
DIRECTIONAL SURVEY?	NO <input checked="" type="checkbox"/>	YES <input type="checkbox"/>	(Submit copy)

**24. CASING AND LINER RECORD (Report all strings set in well)**

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
20"	14" STL	36.7#	0	40		28			
12 1/4"	9 5/8" J-55	32.3#,36#	0	2,160		1,200		0	
7 7/8"	4 1/2" I-80	11.6#	0	8,100		1,500		600	

**25. TUBING RECORD**

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 3/8"	5,936							

26. PRODUCING INTERVALS					27. PERFORATION RECORD				
FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)	INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS	
(A) WASATCH	5,282	6,180			5,282 6,180	0.36	70	Open <input checked="" type="checkbox"/>	Squeezed <input type="checkbox"/>
(B)								Open <input type="checkbox"/>	Squeezed <input type="checkbox"/>
(C)								Open <input type="checkbox"/>	Squeezed <input type="checkbox"/>
(D)								Open <input type="checkbox"/>	Squeezed <input type="checkbox"/>

**28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.**

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
5282-6180	PUMP 2918 BBLs SLICK H2O & 80,400 LBS 30/50 OTTAWA SAND
	3 STAGES

29. ENCLOSED ATTACHMENTS:	30. WELL STATUS:
<input type="checkbox"/> ELECTRICAL/MECHANICAL LOGS <input type="checkbox"/> SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION <input type="checkbox"/> GEOLOGIC REPORT <input type="checkbox"/> CORE ANALYSIS <input type="checkbox"/> DST REPORT <input type="checkbox"/> OTHER: _____ <input type="checkbox"/> DIRECTIONAL SURVEY	<b>PROD</b>

**31. INITIAL PRODUCTION**

**INTERVAL A (As shown in Item #26)**

DATE FIRST PRODUCED: 5/11/2012		TEST DATE: 5/17/2012		HOURS TESTED: 24		TEST PRODUCTION RATES: →		OIL - BBL: 0	GAS - MCF: 2,275	WATER - BBL: 0	PROD. METHOD: FLOWING
CHOKE SIZE: 24/64	TBG. PRESS. 247	CSG. PRESS. 1,348	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL - BBL: 0	GAS - MCF: 2,275	WATER - BBL: 0	INTERVAL STATUS: PROD	

**INTERVAL B (As shown in Item #26)**

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →		OIL - BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS:	

**INTERVAL C (As shown in Item #26)**

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →		OIL - BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS:	

**INTERVAL D (As shown in Item #26)**

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →		OIL - BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS:	

**32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)**

**SOLD**

**33. 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.

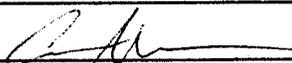
**34. FORMATION (Log) MARKERS:**

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
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				BIRD'S NEST	1,283
				MAHOGANY	1,676
				WASATCH	4,083
				MESAVERDE	6,301

**35. ADDITIONAL REMARKS (Include plugging procedure)**

Attached is the recompletion history and perforation report. New recompletion perforations are: Wasatch 5282-6180' ; existing perforations: Mesaverde 6309-7992' . The Iso plug separating new perforations from old perforations is set @ 6230' . A NOI will be filed before this plug is drilled out. Production is from new perforations only.

**36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.**

NAME (PLEASE PRINT) CARA MAHLER TITLE REGULATORY ANALYST  
 SIGNATURE  DATE 9/6/2012

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

\* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

\*\* ITEM 24: Cement Top - Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining  
 1594 West North Temple, Suite 1210  
 Box 145801  
 Salt Lake City, Utah 84114-5801

Phone: 801-538-5340  
 Fax: 801-359-3940

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>	
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	
<b>1. TYPE OF WELL</b> Gas Well	<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> STUO-08512-ST
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.	<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	<b>7. UNIT or CA AGREEMENT NAME:</b> NATURAL BUTTES
<b>PHONE NUMBER:</b> 720 929-6511	<b>8. WELL NAME and NUMBER:</b> NBU 1022-13M1S
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 1538 FSL 1275 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWSW Section: 13 Township: 10.0S Range: 22.0E Meridian: S	<b>9. API NUMBER:</b> 43047394820000
	<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES
	<b>COUNTY:</b> UINTAH
	<b>STATE:</b> UTAH

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

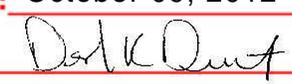
TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 9/19/2012	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input checked="" type="checkbox"/> <b>COMMINGLE PRODUCING FORMATIONS</b>	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

The operator has performed the recompletion and submitted a completion report on the subject well. When the completion report was submitted the existing perforations and the new perforations were not commingled. At this time we would like to drill out the isolation plug to commingle the perforations. Please see attached procedure. Thank you.

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

**Date:** October 09, 2012

**By:** 

<b>NAME (PLEASE PRINT)</b> Cara Mahler	<b>PHONE NUMBER</b> 720 929-6029	<b>TITLE</b> Regulatory Analyst I
<b>SIGNATURE</b> N/A	<b>DATE</b> 9/19/2012	

**WORKOVER: ISOLATION PLUG DRILL OUT**

**Name:** NBU 1022-13M1S

**Location:** Section 13 T10S R22E

**PROCEDURE:**

- MIRU, unland tubing (L-80), EOT @ 5936'. Scan tubing, once first joint fails (+30% wall loss), break every connection and visually inspect for pins and upsets. L/D any suspect joints.
- Collect and submit sample to engineer if applicable.
- RIH w/ mill and C/O isolation plug @ 6230' and continue to C/O to PBSD @ 8055'. POOH.
- RIH and land EOT @ +/- 7475'. Broach tubing and ensure broach is full OD.

**CONTACT INFORMATION:**

FOREMAN	Jay Aguiniga	435-828-6460
LEAD MECHANICAL	Ryan Kunkel	435-828-4624
OPTIMIZER	Deven Oaks	435-828-4631
OPERATOR	Josh Harrison	435-828-4271
OPERATOR	Kim Horrocks	435-823-6515
ENGINEER	Ben Smiley	936-524-4231
ENGINEER	Angie Yang	435-828-6505

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9  <b>5.LEASE DESIGNATION AND SERIAL NUMBER:</b> STUO-08512-ST
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>  <b>7.UNIT or CA AGREEMENT NAME:</b> NATURAL BUTTES
<b>1. TYPE OF WELL</b> Gas Well	<b>8. WELL NAME and NUMBER:</b> NBU 1022-13M1S
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.	<b>9. API NUMBER:</b> 43047394820000
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	<b>PHONE NUMBER:</b> 720 929-6100  <b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 1538 FSL 1275 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWSW Section: 13 Township: 10.0S Range: 22.0E Meridian: S	<b>COUNTY:</b> UINTAH  <b>STATE:</b> UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 11/6/2012	<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 checked="" type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width:100px;" type="text"/>

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

On 11/6/2012 the Iso-Plug set at 6230ft. was drilled out in seven minutes. This well is now comingled.

**Accepted by the**  
**Utah Division of**  
**Oil, Gas and Mining**  
**FOR RECORD ONLY**  
 March 26, 2014

<b>NAME (PLEASE PRINT)</b> Teena Paulo	<b>PHONE NUMBER</b> 720 929-6236	<b>TITLE</b> Staff Regulatory Specialist
<b>SIGNATURE</b> N/A	<b>DATE</b> 3/26/2014	

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>
<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> STUO-08512-ST	
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>	
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	
<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>	
<b>7. UNIT or CA AGREEMENT NAME:</b> NATURAL BUTTES	
<b>1. TYPE OF WELL</b> Gas Well	
<b>8. WELL NAME and NUMBER:</b> NBU 1022-13M1S	
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.	
<b>9. API NUMBER:</b> 43047394820000	
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779 <span style="float: right;"><b>PHONE NUMBER:</b> 720 929-6100</span>	
<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES	
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 1538 FSL 1275 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWSW Section: 13 Township: 10.0S Range: 22.0E Meridian: S	
<b>COUNTY:</b> UINTAH	
<b>STATE:</b> UTAH	

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input 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: 8/1/2014	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

THE NBU 1022-13M1S WELL WAS SI AND RETURNED TO PRODUCTION ON 7/28/2014. THANK YOU.

**Accepted by the  
 Utah Division of  
 Oil, Gas and Mining  
 FOR RECORD ONLY  
 August 27, 2014**

<b>NAME (PLEASE PRINT)</b> Kay E. Kelly	<b>PHONE NUMBER</b> 720 929 6582	<b>TITLE</b> Regulatory Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 8/1/2014	

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> STUO-08512-ST
<b>1. TYPE OF WELL</b> Gas Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.		<b>7. UNIT or CA AGREEMENT NAME:</b> NATURAL BUTTES
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		<b>8. WELL NAME and NUMBER:</b> NBU 1022-13M1S
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 1538 FSL 1275 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWSW Section: 13 Township: 10.0S Range: 22.0E Meridian: S		<b>9. API NUMBER:</b> 43047394820000
<b>PHONE NUMBER:</b> 720 929-6111		<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES
<b>COUNTY:</b> UINTAH		<b>STATE:</b> UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PLUG BACK <input checked="" type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> WILDCAT WELL DETERMINATION <input type="checkbox"/> OTHER	
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 5/9/2015	<input type="checkbox"/> APD EXTENSION	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> OTHER: <input style="width: 100px;" type="text"/>	
<input type="checkbox"/> DRILLING REPORT Report Date:		
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. The NBU 1022-13M1S well was returned to production on 5/9/2015. Thank you.		
<b>Accepted by the          Utah Division of          Oil, Gas and Mining          FOR RECORD ONLY          May 21, 2015</b>		
<b>NAME (PLEASE PRINT)</b> Jennifer Thomas	<b>PHONE NUMBER</b> 720 929-6808	<b>TITLE</b> Regulatory Specialist
<b>SIGNATURE</b> N/A	<b>DATE</b> 5/20/2015	

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>
<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> STUO-08512-ST	
<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>	
<b>7. UNIT or CA AGREEMENT NAME:</b> NATURAL BUTTES	
<b>8. WELL NAME and NUMBER:</b> NBU 1022-13M1S	
<b>9. API NUMBER:</b> 43047394820000	
<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES	
<b>COUNTY:</b> UINTAH	
<b>STATE:</b> UTAH	

**SUNDRY NOTICES AND REPORTS ON WELLS**

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<b>1. TYPE OF WELL</b> Gas Well	<b>1. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.	<b>PHONE NUMBER:</b> 720 929-6456
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 1538 FSL 1275 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWSW Section: 13 Township: 10.0S Range: 22.0E Meridian: S	

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TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 11/29/2016	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input checked="" type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  
 The NBU 1022-13M1S well was returned to production on 11/29/2016.

**Accepted by the**  
**Utah Division of**  
**Oil, Gas and Mining**  
**FOR RECORD ONLY**  
 December 07, 2016

<b>NAME (PLEASE PRINT)</b> Candice Barber	<b>PHONE NUMBER</b> 435 781-9749	<b>TITLE</b> HSE Representative
<b>SIGNATURE</b> N/A	<b>DATE</b> 12/2/2016	