

**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: ML-22792	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: UNIT #891008900A	
2. NAME OF OPERATOR: KERR MCGEE OIL & GAS ONSHORE L.P.				9. WELL NAME and NUMBER: NBU 1021-19D	
3. ADDRESS OF OPERATOR: 1368 S 1200 E CITY VERNAL STATE UT ZIP 84078			PHONE NUMBER: (435) 781-7024	10. FIELD AND POOL, OR WILDCAT: NATURAL BUTTES	
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: 637'FNL, 755'FWL LOT 1 AT PROPOSED PRODUCING ZONE:				11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NWNW 19 10S 21E	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE: 15.5 MILES SOUTH OF OURAY, UTAH				12. COUNTY: UINTAH	13. STATE: UTAH
15. DISTANCE TO NEAREST PROPERTY OR LEASE LINE (FEET) 637'	16. NUMBER OF ACRES IN LEASE: 643.5		17. NUMBER OF ACRES ASSIGNED TO THIS WELL: 40.00		
18. DISTANCE TO NEAREST WELL (DRILLING, COMPLETED, OR APPLIED FOR) ON THIS LEASE (FEET) REFER TO TOPO C	19. PROPOSED DEPTH: 9,670		20. BOND DESCRIPTION: RLB0005237		
21. ELEVATIONS (SHOW WHETHER DF, RT, GR, ETC.): 5183'GL	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	H-40	32.3#	2,000	265 SX CLASS G	1.18 YIELD	15.6 PPG
7 7/8"	4 1/2	I-80	11.6#	9,670	2030 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 *Sheila Upchego* DATE 1/23/2007

(This space for State use only)

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

API NUMBER ASSIGNED: 43-047-39005

APPROVAL:

Date: 02-28-07

By: *[Signature]*

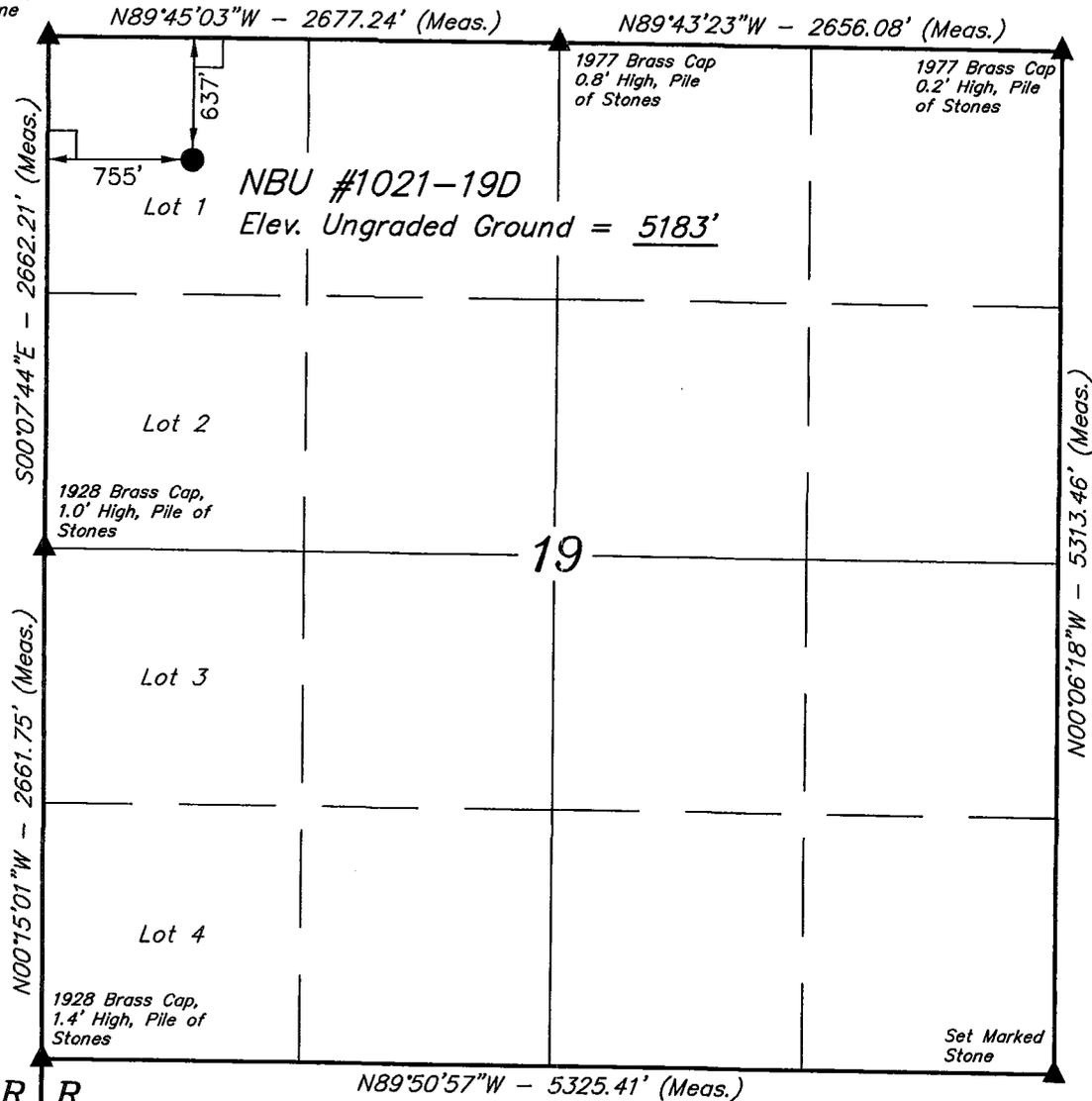
**RECEIVED**

**FEB 02 2007**

DIV. OF OIL, GAS & MINING

# T10S, R21E, S.L.B.&M.

1928 Brass Cap,  
0.6' High, Pile of  
Stones, Set Marked  
Stone

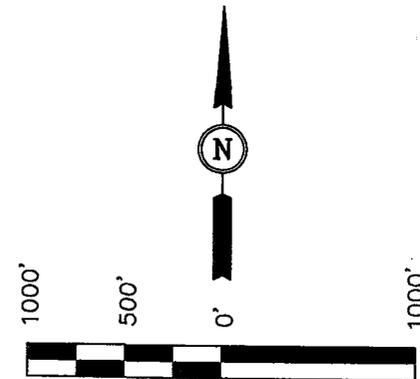


## Kerr McGee Oil & Gas Onshore LP

Well location, NBU #1021-19D, located as shown in the NW 1/4 NW 1/4 of Section 19, T10S, R21E, S.L.B.&M. Uintah County, Utah.

### 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

CERTIFIED

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



R R  
20 21  
E E

### BASIS OF BEARINGS

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

(NAD 83)  
LATITUDE = 39°56'19.35" (39.938708)  
LONGITUDE = 109°36'05.64" (109.601567)  
(NAD 27)  
LATITUDE = 39°56'19.48" (39.938744)  
LONGITUDE = 109°36'03.16" (109.600878)

### LEGEND:

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

### UNTAH ENGINEERING & LAND SURVEYING

85 SOUTH 200 EAST - VERNAL, UTAH 84078  
(435) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: 10-27-06	DATE DRAWN: 11-07-06
PARTY B.H. F.Y. S.L.	REFERENCES G.L.O. PLAT	
WEATHER COOL	FILE Kerr McGee Oil & Gas Onshore LP	

**NBU 1021-19D  
NW/NW, LOT 1, SEC. 19, T10S, R21E  
UINTAH COUNTY, UTAH  
ML-22792**

**ONSHORE ORDER NO. 1**

***DRILLING PROGRAM***

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

<u>Formation</u>	<u>Depth</u>
Uinta	0- Surface
Green River	1185'
Top of Birds Nest Water	1422'
Mahogany	1985'
Wasatch	4457'
Mesaverde	7479'
MVU2	8470'
MVL1	9022'
TD	9670'

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

<u>Substance</u>	<u>Formation</u>	<u>Depth</u>
Water	Green River	1185'
	Top of Birds Nest Water	1422'
	Mahogany	1985'
Gas	Wasatch	4457'
Gas	Mesaverde	7479'
Gas	MVU2	8470'
Gas	MVL1	9022'
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.*

**6. Evaluation Program:**

*Please refer to the attached Drilling Program.*

7. **Abnormal Conditions:**

Maximum anticipated bottomhole pressure calculated at 9670' TD, approximately equals 5995 psi (calculated at 0.62 psi/foot).

Maximum anticipated surface pressure equals approximately 3868 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. **Variations:**

*Please refer to the attached Drilling Program.*

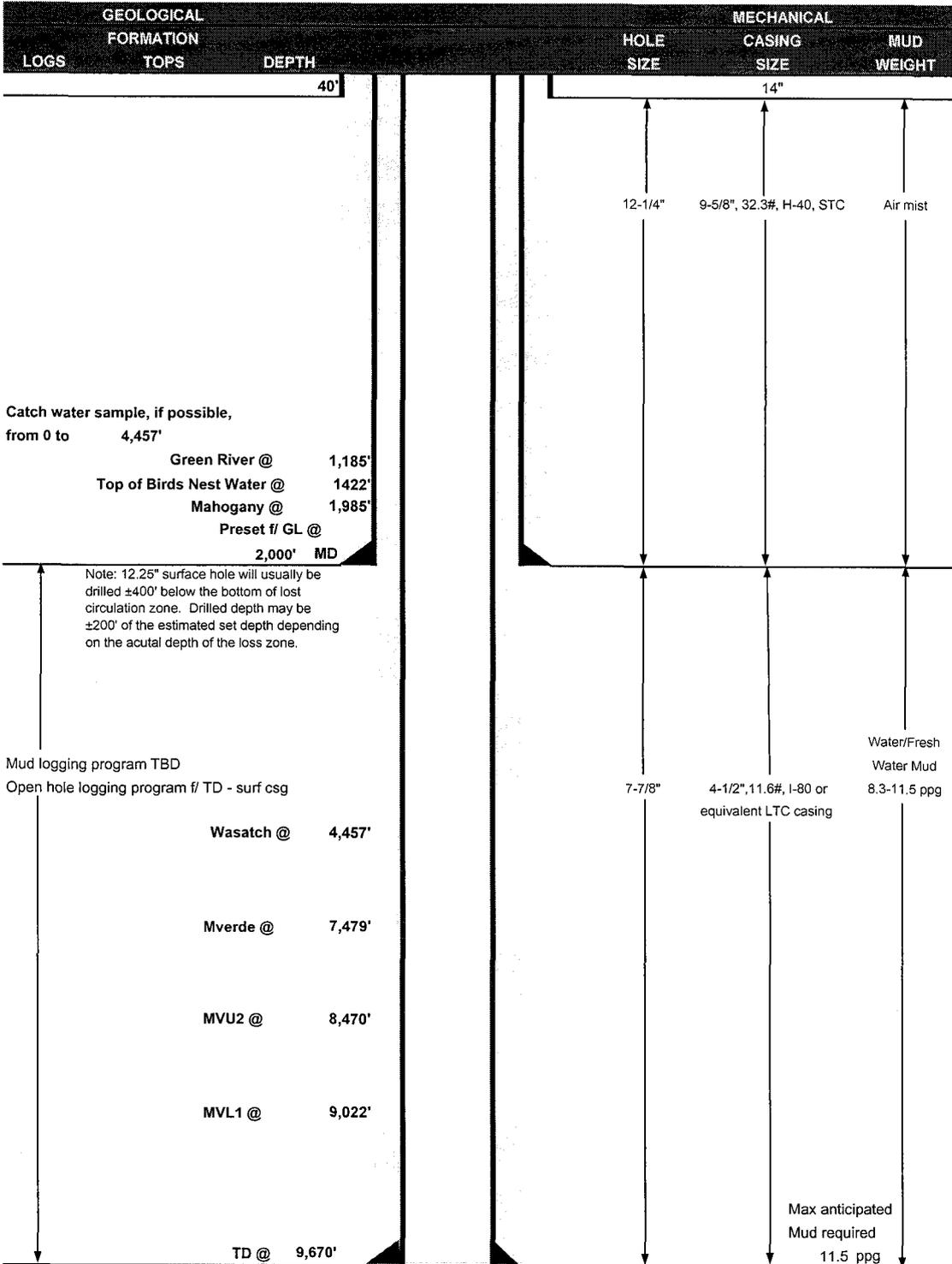
10. **Other Information:**

*Please refer to the attached Drilling Program.*



# KERR-McGEE OIL & GAS ONSHORE LP DRILLING PROGRAM

COMPANY NAME KERR-McGEE OIL & GAS ONSHORE LP DATE January 23, 2007  
 WELL NAME NBU 1021-19D TD 9,670' MD/TVD \_\_\_\_\_  
 FIELD Natural Buttes COUNTY Uintah STATE Utah ELEVATION 5,183' GL KB 5,198'  
 SURFACE LOCATION NW/NW LOT 1, SEC. 19, T10S, R21E 637'FNL, 755'FWL BHL Straight Hole  
 Latitude: 39.938708 Longitude: 109.601567  
 OBJECTIVE ZONE(S) Wasatch/Mesaverde  
 ADDITIONAL INFO Regulatory Agencies: UDOGM (SURF & MINERALS), 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'				2270	1370	254000
SURFACE	9-5/8"	0 to 2000	32.30	H-40	STC	0.62*****	1.46	4.49
PRODUCTION	4-1/2"	0 to 9670	11.60	I-80	LTC	7780 2.13	6350 1.10	201000 2.05

- 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 = 11.5 ppg) .22 psi/ft = gradient for partially evac wellbore  
 (Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing\*Buoy.Fact. of water)  
 MASP 3655 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
Option 1	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	Option 2	<b>NOTE: If well will circulate water to surface, option 2 will be utilized</b>					
	LEAD	1500	Prem cmt + 16% Gel + 10 pps gilsonite + .25 pps Flocele + 3% salt BWOC	170	35%	11.00	3.82
	TAIL	500	Premium cmt + 2% CaCl + .25 pps flocele	180	35%	15.60	1.18
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
PRODUCTION	LEAD	3,950'	Premium Lite II + 3% KCl + 0.25 pps celloflake + 5 pps gilsonite + 10% gel + 0.5% extender	430	60%	11.00	3.38
	TAIL	5,720'	50/50 Poz/G + 10% salt + 2% gel + .1% R-3	1600	60%	14.30	1.31

\*Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained  
 \*Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained

**FLOAT EQUIPMENT & CENTRALIZERS**

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe.
PRODUCTION	Float shoe, 1 jt, float collar. Centralize first 3 joints & every third joint to top of tail cement with bow spring centralizers.

**ADDITIONAL INFORMATION**

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

DRILLING ENGINEER: \_\_\_\_\_ DATE: \_\_\_\_\_  
 Brad Laney  
 DRILLING SUPERINTENDENT: \_\_\_\_\_ DATE: \_\_\_\_\_  
 Randy Bayne NBU1021-19D DHD.xls



**NBU 1021-19D  
NW/NW LOT 1, SEC. 19, T10S, R21E  
Uintah County, UT  
ML-22792**

**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:**

Approximately 0.25 +/- miles of new access road is proposed. Refer to Topo Map B for the location of the proposed 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.

Approximately 1291' +/- of 4" pipeline is proposed from the location to an tie-in point. Refer to Topo Map D.

**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.

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

Any 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

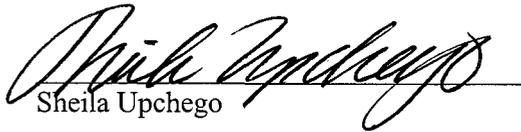
Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

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

1/23/2007

Date

# Kerr-McGee Oil & Gas Onshore LP

NBU #1021-19D

SECTION 19 T10S, R21E, 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 11.5 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 2.0 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHWEST; TURN RIGHT AND PROCEED IN A SOUTHWESTERLY DIRECTION APPROXIMATELY 1.4 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE WEST; TURN RIGHT AND PROCEED IN A WESTERLY, THEN NORTHWESTERLY DIRECTION APPROXIMATELY 0.2 MILES TO THE BEGINNING OF THE PROPOSED ACCESS FOR THE PROPOSED #1021-19C TO THE SOUTHWEST; FOLLOW ROAD FLAGS IN A SOUTHWESTERLY DIRECTION APPROXIMATELY 0.15 MILES TO THE BEGINNING OF THE PROPOSED ACCESS TO THE WEST; FOLLOW ROAD FLAGS IN A WESTERLY DIRECTION APPROXIMATELY 0.25 MILES TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 46.5 MILES.

# Kerr-McGee Oil & Gas Onshore LP

## NBU #1021-19D

LOCATED IN UINTAH COUNTY, UTAH  
SECTION 19, T10S, R21E, S.L.B.&M.

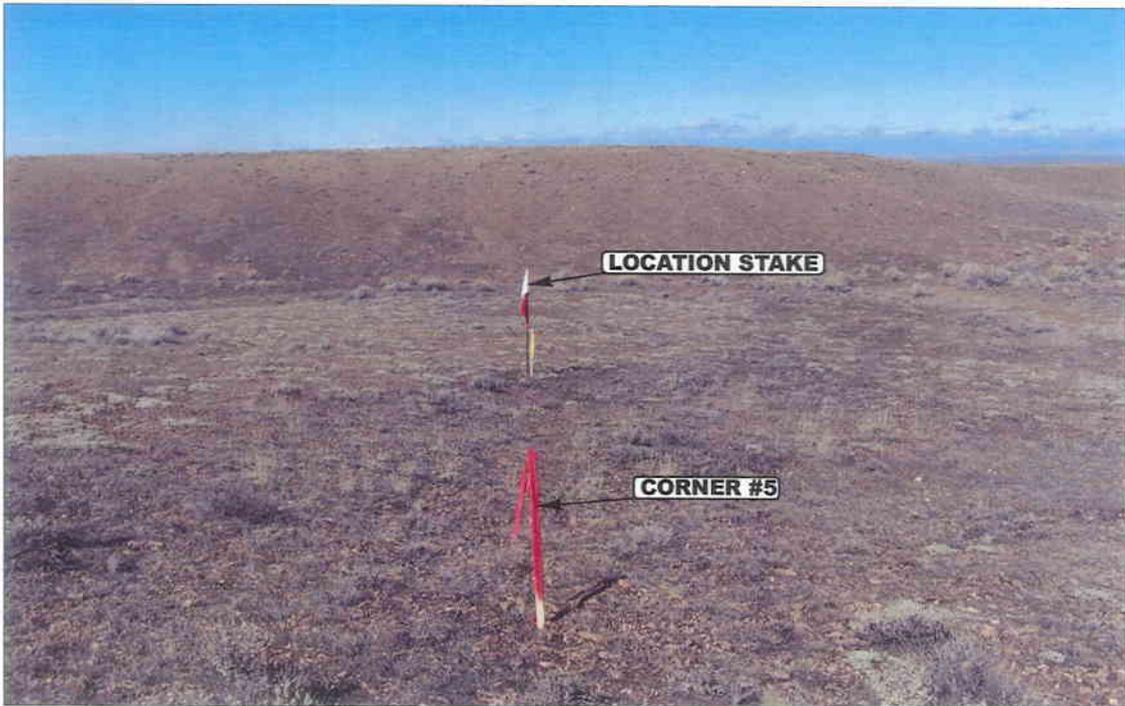


PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: NORTHWESTERLY



PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

CAMERA ANGLE: WESTERLY



- Since 1964 -

**UELS** Uintah Engineering & Land Surveying

85 South 200 East Vernal, Utah 84078  
435-789-1017 uels@uelsinc.com

LOCATION PHOTOS

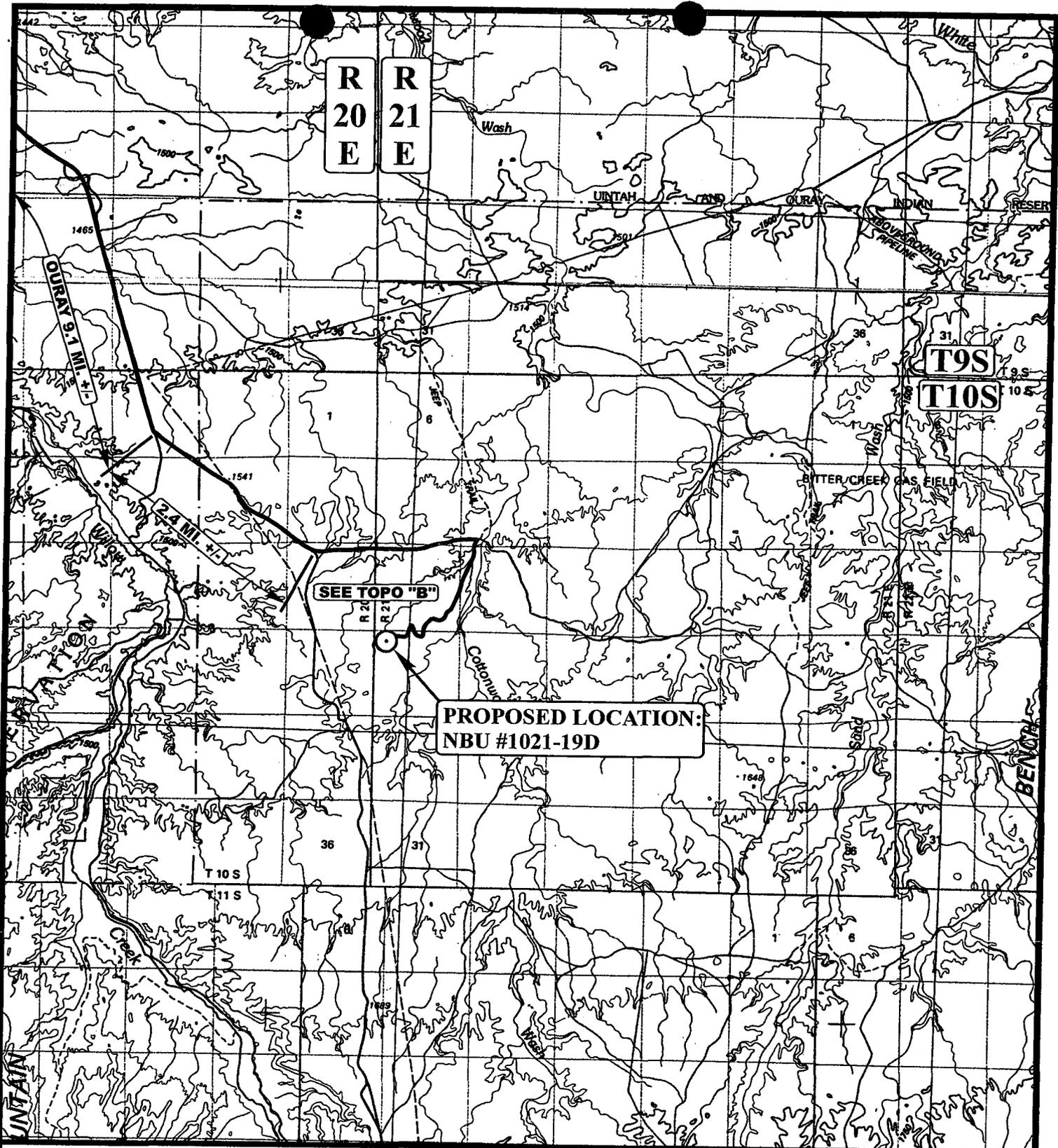
11 03 06  
MONTH DAY YEAR

PHOTO

TAKEN BY: B.H.

DRAWN BY: C.P.

REVISED: 00-00-00



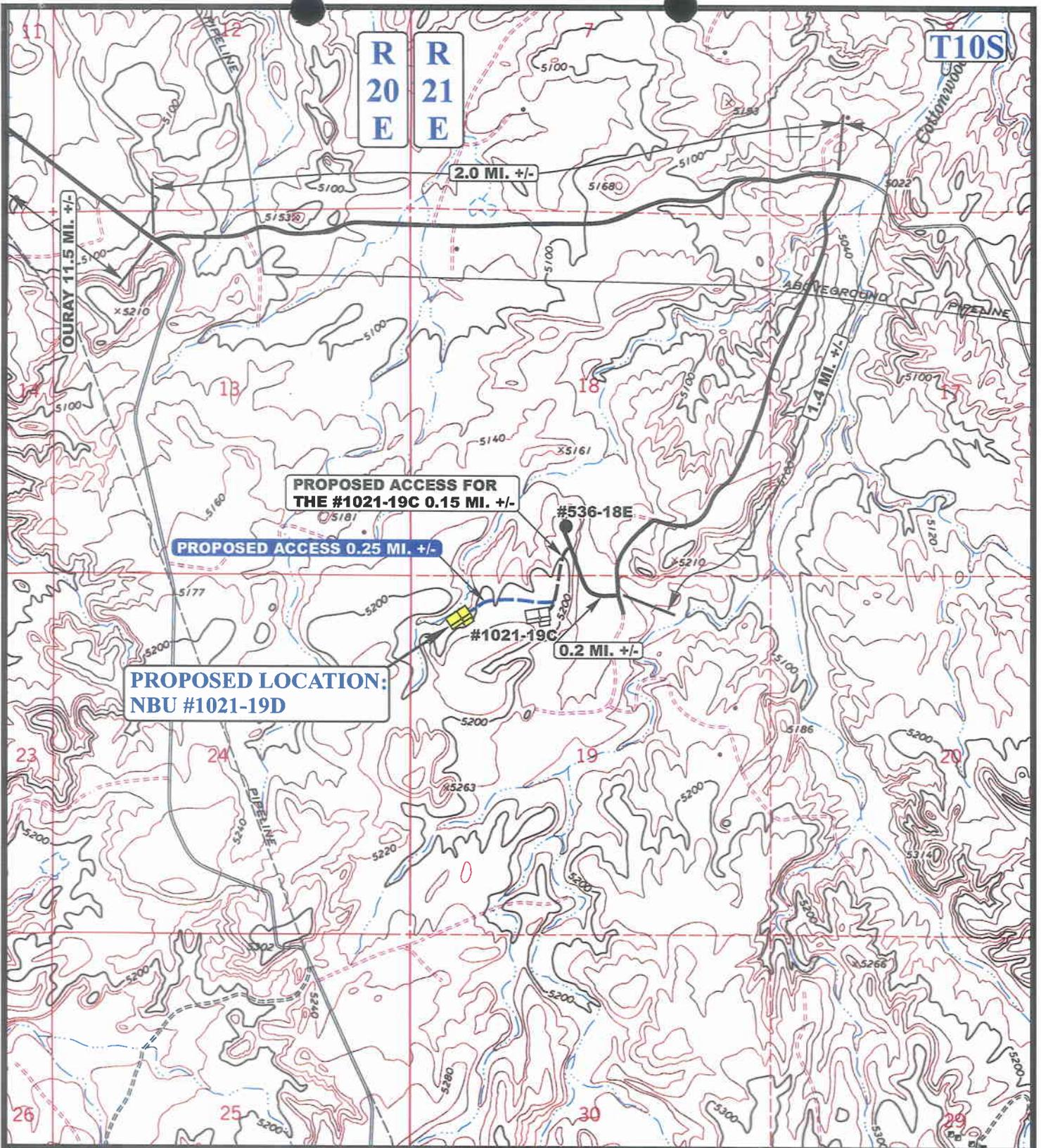
**LEGEND:**  
 ○ PROPOSED LOCATION

N

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

**Kerr-McGee Oil & Gas Onshore LP**  
 NBU #1021-19D  
 SECTION 19, T10S, R21E, S.L.B.&M.  
 637' FNL 755' FWL

TOPOGRAPHIC MAP	11 MONTH	03 DAY	06 YEAR	
SCALE: 1:100,000	DRAWN BY: C.P.		REVISED: 00-00-00	



**LEGEND:**

-  EXISTING ROAD
-  PROPOSED ACCESS ROAD

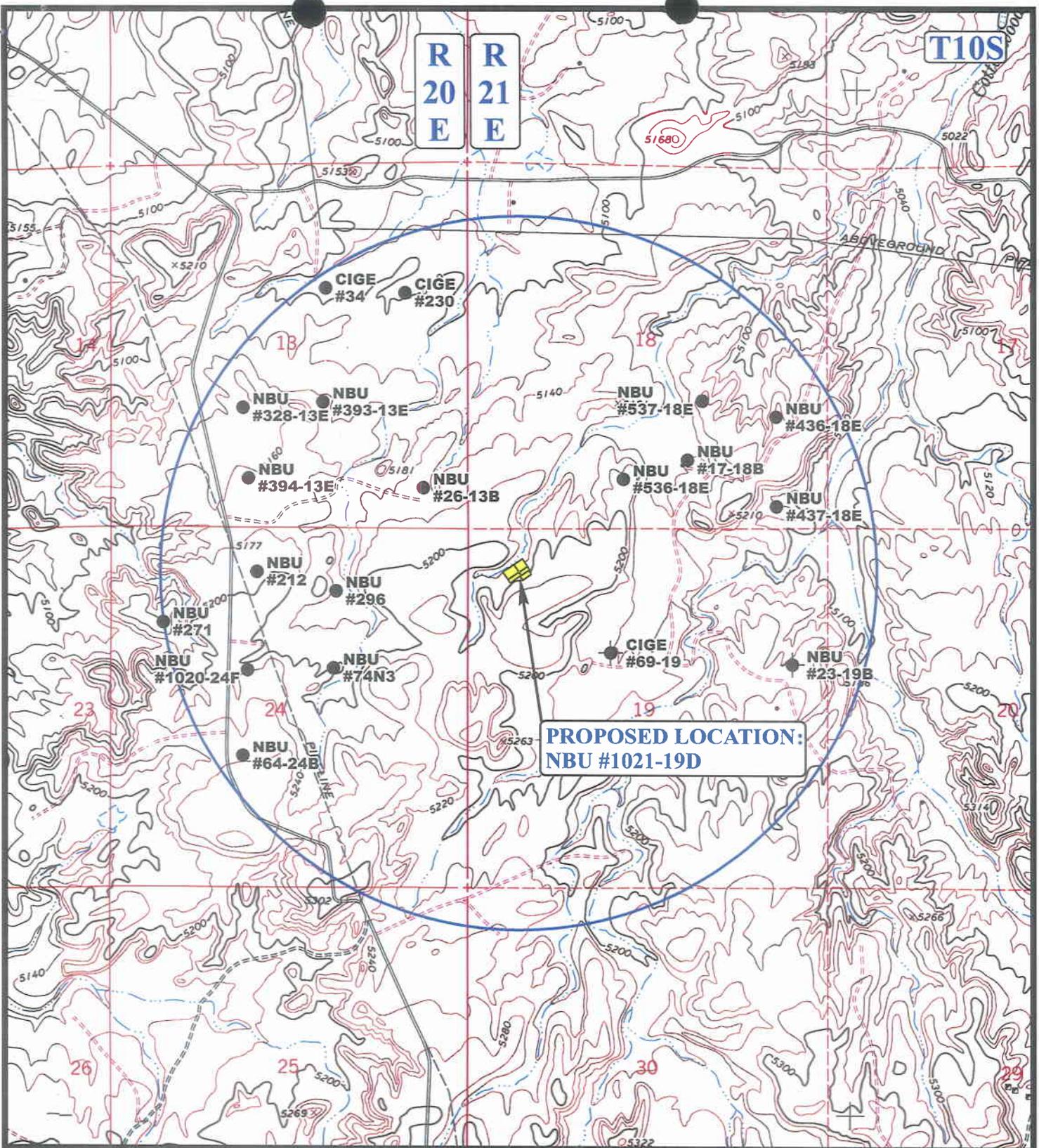


**Kerr-McGee Oil & Gas Onshore LP**

**NBU #1021-19D**  
**SECTION 19, T10S, R21E, S.L.B.&M.**  
**637' FNL 755' FWL**

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

**TOPOGRAPHIC** **11 03 06**  
**MAP** MONTH DAY YEAR  
 SCALE: 1" = 2000' DRAWN BY: C.P. REVISED: 00-00-00 **B**  
 TOPO



**LEGEND:**

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



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

**NBU #1021-19D**  
**SECTION 19, T10S, R21E, S.L.B.&M.**  
**637' FNL 755' FWL**

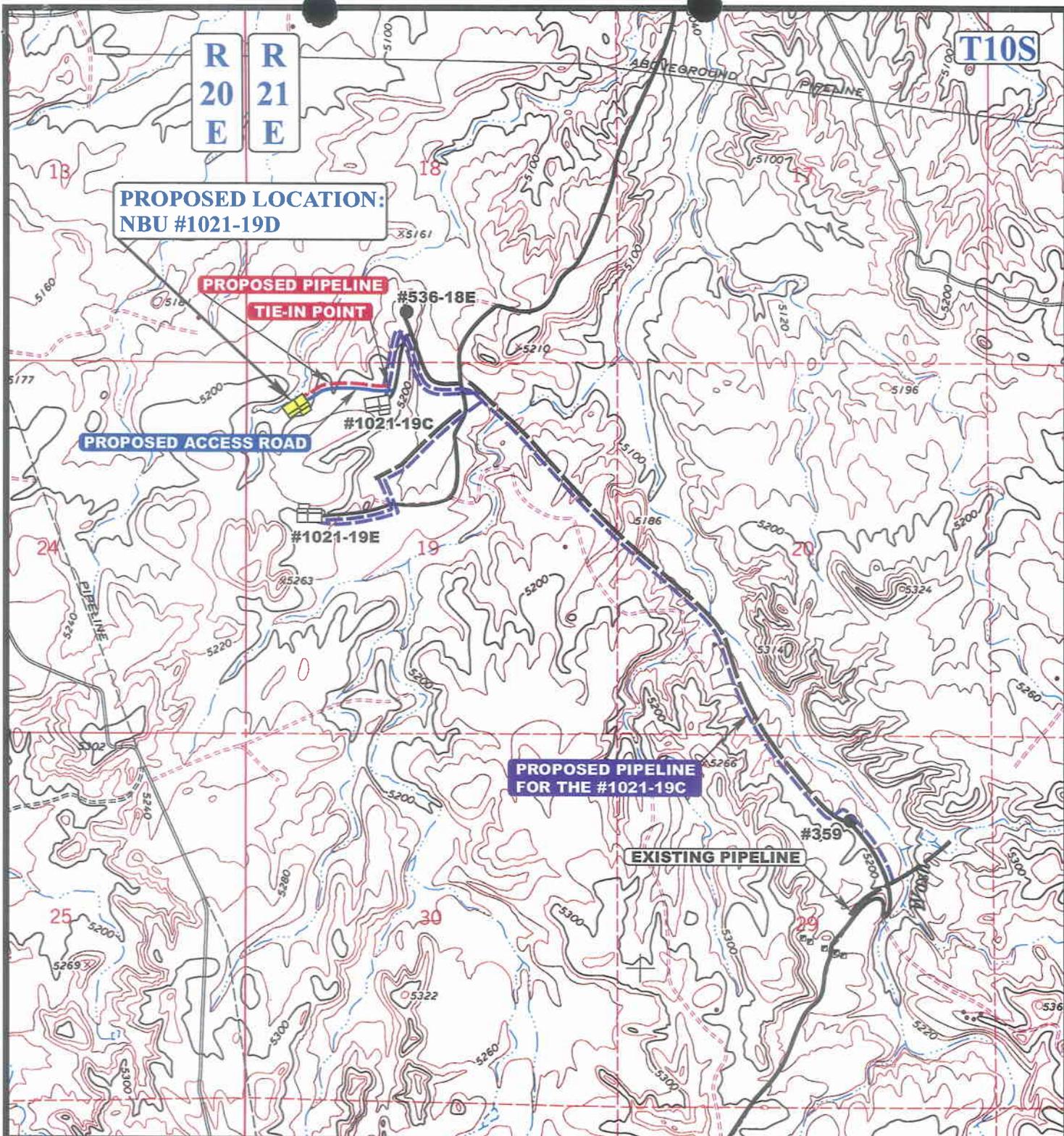


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 85 South 200 East Vernal, Utah 84078  
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**TOPOGRAPHIC** **11 03 06**  
**MAP** MONTH DAY YEAR

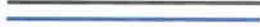
SCALE: 1" = 2000' DRAWN BY: C.P. REVISED: 00-00-00





**APPROXIMATE TOTAL PIPELINE DISTANCE = 1,291' +/-**

**LEGEND:**

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



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

**NBU #1021-19D**  
**SECTION 19, T10S, R21E, S.L.B.&M.**  
**637' FNL 755' FWL**



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

**TOPOGRAPHIC** **11 03 06**  
**MAP** MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: C.P. REVISED: 00-00-00



# Kerr-McGee Oil & Gas Onshore LP

NBU #1021-19D

PIPELINE ALIGNMENT

LOCATED IN UTAH COUNTY, UTAH

SECTION 19, T10S, R21E, S.L.B.&M.

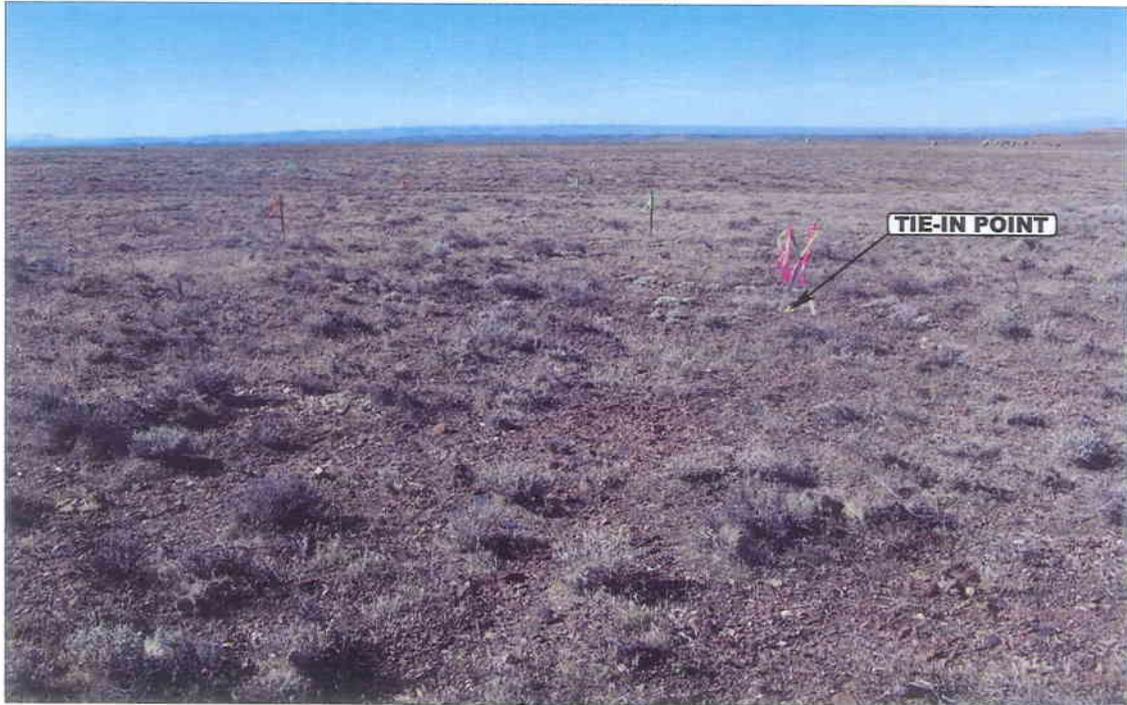


PHOTO: VIEW FROM TIE-IN POINT

CAMERA ANGLE: WESTERLY



PHOTO: VIEW OF PIPELINE ALIGNMENT

CAMERA ANGLE: WESTERLY



- Since 1964 -

**UELS** Uintah Engineering & Land Surveying

85 South 200 East Vernal, Utah 84078  
435-789-1017 uels@uelsinc.com

PIPELINE PHOTOS

11 03 06  
MONTH DAY YEAR

PHOTO

TAKEN BY: B.H.

DRAWN BY: C.P.

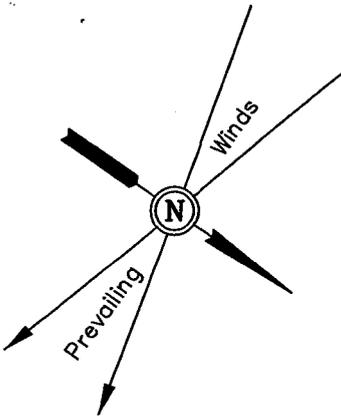
REVISED: 00-00-00

Kerr-McGee Oil & Gas Onshore LP

FIGURE #1

LOCATION LAYOUT FOR

NBU #1021-19D  
SECTION 19, T10S, R21E, S.L.B.&M.  
637' FNL 755' FWL



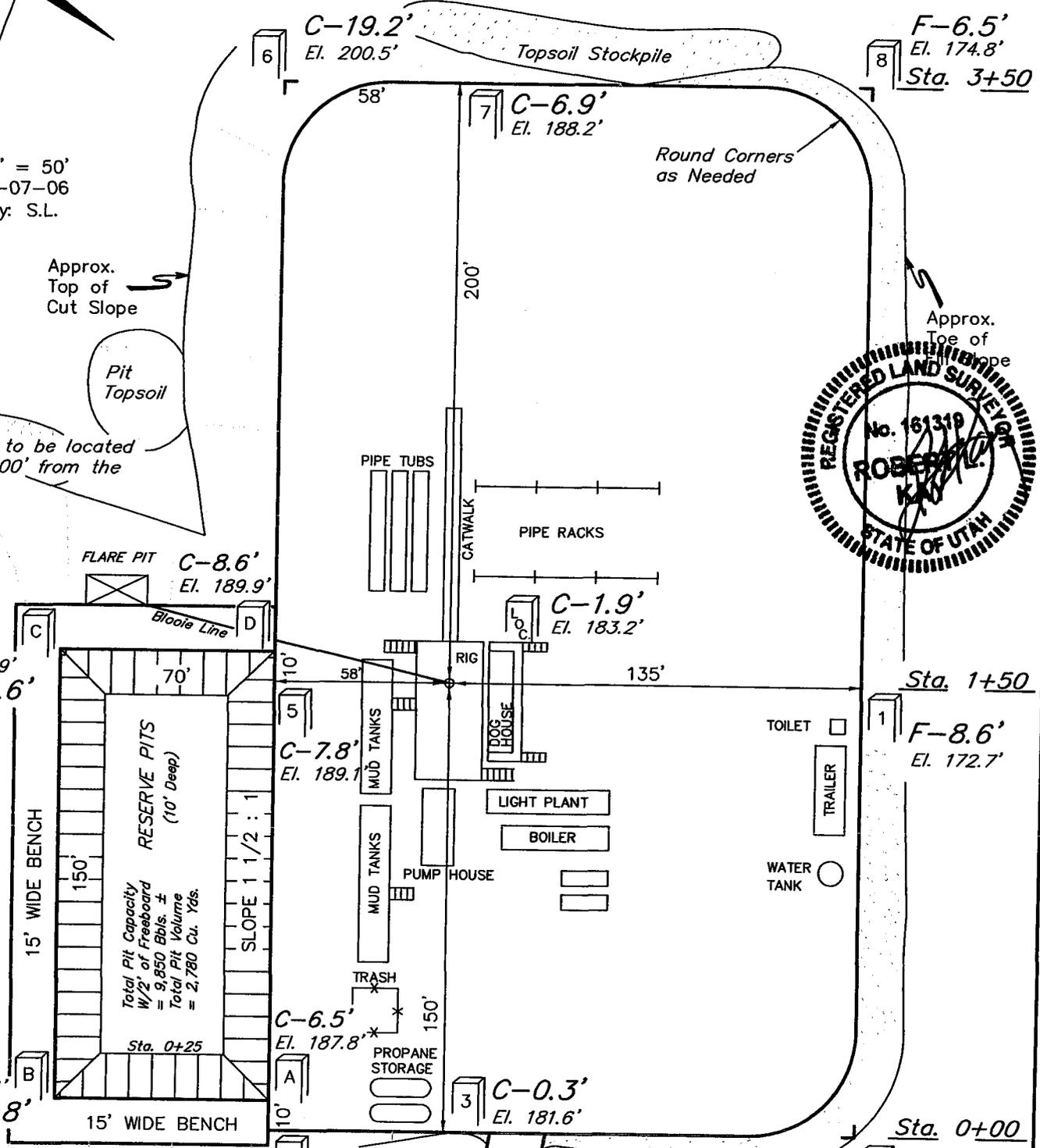
SCALE: 1" = 50'  
DATE: 11-07-06  
Drawn By: S.L.

Approx. Top of Cut Slope

Pit Topsoil

NOTE:

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



NOTES:

Elev. Ungraded Ground At Loc. Stake = 5183.2'  
FINISHED GRADE ELEV. AT LOC. STAKE = 5181.3'

Reserve Pit Backfill & Spoils Stockpile

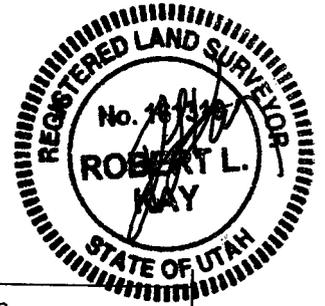
Proposed Access Road

Kerr-McGee Oil & Gas Onshore LP

FIGURE #2

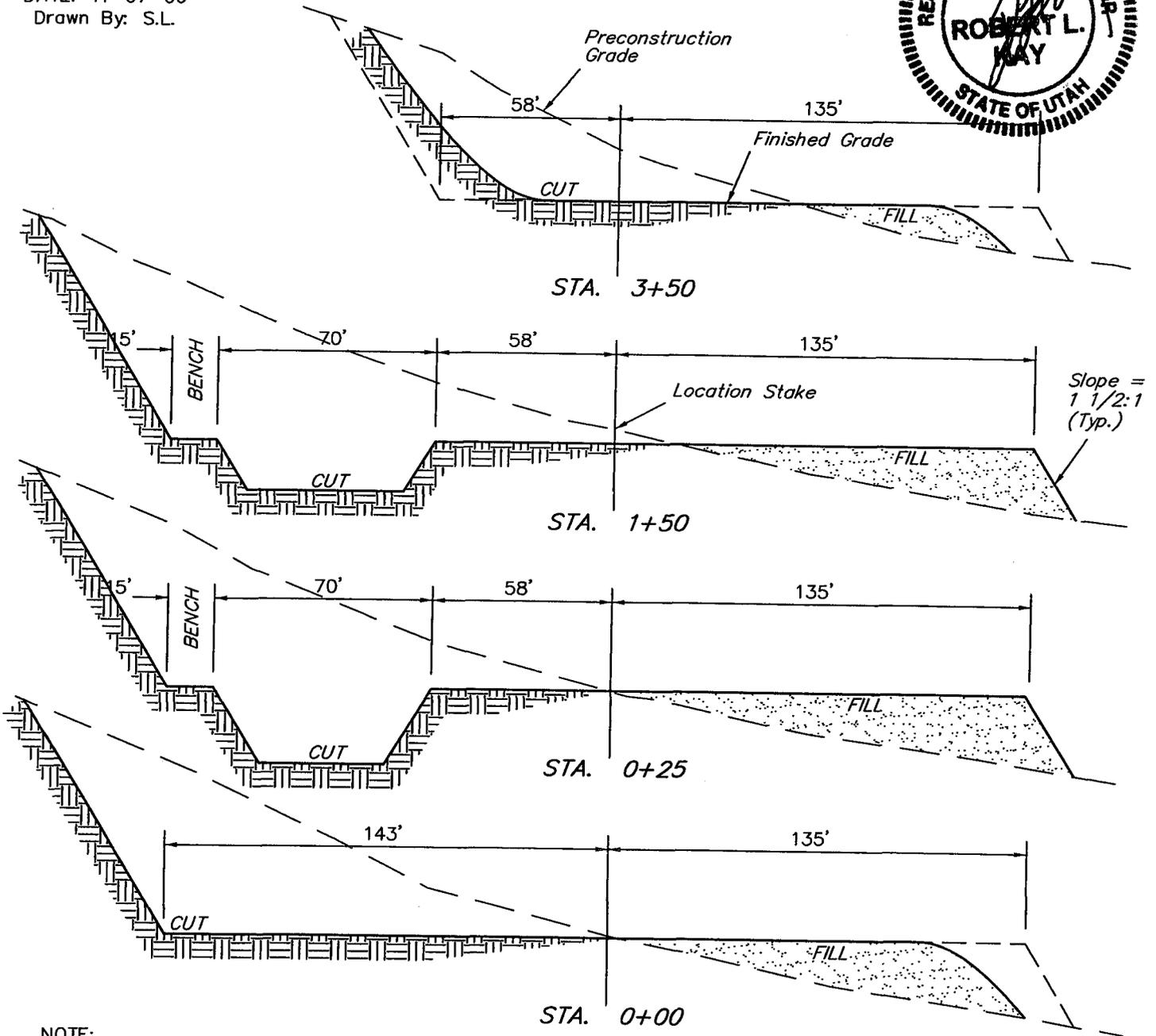
TYPICAL CROSS SECTIONS FOR

NBU #1021-19D  
SECTION 19, T10S, R21E, S.L.B.&M.  
637' FNL 755' FWL



1" = 20'  
X-Section Scale  
1" = 50'

DATE: 11-07-06  
Drawn By: S.L.



NOTE:

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

\* NOTE:

FILL QUANTITY INCLUDES 5% FOR COMPACTION

APPROXIMATE YARDAGES

<b>CUT</b>	
(6") Topsoil Stripping	= 2,170 Cu. Yds.
Remaining Location	= 21,010 Cu. Yds.
<b>TOTAL CUT</b>	<b>= 23,180 CU.YDS.</b>
<b>FILL</b>	<b>= 8,410 CU.YDS.</b>

EXCESS MATERIAL	= 14,770 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	= 3,560 Cu. Yds.
EXCESS UNBALANCE (After Interim Rehabilitation)	= 11,210 Cu. Yds.

UINTAH ENGINEERING & LAND SURVEYING  
85 So. 200 East \* Vernal, Utah 84078 \* (435) 789-1017

**WORKSHEET  
APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 02/02/2007

API NO. ASSIGNED: 43-047-39005

WELL NAME: NBU 1021-19D  
 OPERATOR: KERR-MCGEE OIL & GAS ( N2995 )  
 CONTACT: SHEILA UPCHEGO

PHONE NUMBER: 435-781-7024

PROPOSED LOCATION:

NWNW 19 100S 210E  
 SURFACE: 0637 FNL 0755 FWL  
 BOTTOM: 0637 FNL 0755 FWL  
 COUNTY: UINTAH  
 LATITUDE: 39.93876 LONGITUDE: -109.6009  
 UTM SURF EASTINGS: 619541 NORTHINGS: 4421687  
 FIELD NAME: NATURAL BUTTES ( 630 )

INSPECT LOCATN BY: / /		
Tech Review	Initials	Date
Engineering	DWD	2/27/07
Geology		
Surface		

LEASE TYPE: 3 - State  
 LEASE NUMBER: ML-22792  
 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: 173-14  
Eff Date: 12-2-1999  
Siting: How far larger of minimum. meet
- \_\_\_ R649-3-11. Directional Drill

COMMENTS:

Needs Permit (02-13-07)

STIPULATIONS:

- 1- STATEMENT OF BASIS
- 2- OIL SHALE
- 3- Surface Log Conts top



# Application for Permit to Drill

## Statement of Basis

2/21/2007

Utah Division of Oil, Gas and Mining

Page 1

APD No	API WellNo	Status	Well Type	Surf Ownr	CBM
231	43-047-39005-00-00		GW	S	No
<b>Operator</b>	KERR-MCGEE OIL & GAS ONSHORE, LP		<b>Surface Owner-APD</b>		
<b>Well Name</b>	NBU 1021-19D		<b>Unit</b>		
<b>Field</b>	UNDESIGNATED		<b>Type of Work</b>		
<b>Location</b>	NWNW 19 10S 21E S 0 F L 0 F L GPS Coord (UTM) 619541E 4421687N				

### Geologic Statement of Basis

Kerr McGee proposes to set 2,000' 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 5,200'. A search of Division of Water Rights records shows no water wells within a 10,000 foot radius of the center of Section 19. 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

2/21/2007  
Date / Time

### Surface Statement of Basis

The general area is within the Cottonwood Wash Drainage. The area is characterized by rolling hills and benches, which are frequently intersected by somewhat gentle draws, which flow into Cottonwood Wash. The draws are occasionally rimmed with steep side hills, which have exposed sand stone bedrock cliffs along the rims. Cottonwood Wash is an ephemeral drainage, which drains northerly approximately 11 miles to the White River. No seeps, springs or streams exist in the area.

This location is approximately 16 miles southeast of Ouray, Ut. and is accessed by the Seep Ridge Road then by existing or planned oil field development roads to within approximately 0.3 miles of the site, which will require up-grading and new construction.

The proposed location is on a flat ridge with a gentle slope to the north into a swale. A draw exists to the north. The location was moved during the pre-site to the south of the staked location, which was on a side-hill extending into a swale. The new location will require less excavation and is still within the drilling window. A new layout is being completed and submitted.

Both the surface and minerals are owned by SITLA. Jim Davis represented SITLA at the pre-site investigation. Mr. Davis had no concerns pertaining to this location. The selected location appears to be the best site for drilling and operating a well in the immediate area.

Floyd Bartlett  
Onsite Evaluator

2/13/2007  
Date / Time

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

Category	Condition
Pits	A synthetic liner with a minimum thickness of 20 mils with a felt subliner 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 1021-19D  
**API Number** 43-047-39005-0      **APD No** 231      **Field/Unit** UNDESIGNATED  
**Location:** 1/4,1/4 NWNW      **Sec** 19      **Tw** 10S      **Rng** 21E      0 FL 0 FL  
**GPS Coord (UTM)** 619579      4421585      **Surface Owner**

### Participants

Floyd Bartlett and David Hackford (DOGGM), Jim Davis (SITLA), Carroll Estes, Tony Kznick, and Clay Einerson (Kerr McGee), David Kay (Uintah Engineering and Land Surveying), and Ben Williams (UDWR)

### Regional/Local Setting & Topography

The general area is within the Cottonwood Wash Drainage. The area is characterized by rolling hills and benches, which are frequently intersected by somewhat gentle draws, which flow into Cottonwood Wash. The draws are occasionally rimmed with steep side hills, which have exposed sand stone bedrock cliffs along the rims. Cottonwood Wash is an ephemeral drainage, which drains northerly approximately 11 miles to the White River. No seeps, springs or streams exist in the area.

This location is approximately 16 miles southeast of Ouray, Ut. and is accessed by the Seep Ridge Road then by existing or planned oil field development roads to within approximately 0.3 miles of the site, which will require up-grading and new construction.

The proposed location is on a flat ridge with a gentle slope to the north into a swale. A draw exists to the north. The location was moved during the pre-site to the south of the staked location, which was on a side-hill extending into a swale. The new location will require less excavation and is still within the drilling window. A new layout is being completed and submitted.

### Surface Use Plan

#### **Current Surface Use**

Grazing  
Recreational  
Wildlife Habitat

#### **New Road**

<b>Miles</b>	<b>Well Pad</b>	<b>Src Const Material</b>	<b>Surface Formation</b>
0.3	<b>Width</b> 278	Length 350 Onsite	UNTA

**Ancillary Facilities** N

### Waste Management Plan Adequate? Y

### Environmental Parameters

**Affected Floodplains and/or Wetland** N

#### **Flora / Fauna**

Snow covered the vegetation on the area. Identifiable vegetation consisted of horse brush, shadscale, cheat grass, and dead black sage. Vegetation is sparse.

Antelope, cattle, rabbits, coyotes, and small mammals, birds and raptors.

**Soil Type and Characteristics**

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

**Reserve Pit**

**Site-Specific Factors**

<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 to 1320	10
<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

**Final Score** 25    1    **Sensitivity Level**

**Characteristics / Requirements**

The proposed reserve pit is 70' x 150' x 10' deep located in a cut on the south east corner of the location. A 20 mil liner with a felt sub-liner is planned by Kerr McGee.

**Closed Loop Mud Required?** N    **Liner Required?** Y    **Liner Thickness** 20    **Pit Underlayment Required?** Y

**Other Observations / Comments**

Ben Williams representing the UDWR stated the area is classified as yearlong critical habitat for antelope. He stated that the lack of water not forage is the limiting factor affecting the herd in the area. He recommended no restrictions for antelope. No other wildlife is expected to be significantly affected. He gave Jim Davis of SITLA and Carroll Estes of Kerr McGee a copy of his wildlife evaluation and a UDWR recommended seed mix to be used when revegetating the location.

The area was covered with snow. ATV's were used to access the site.

Floyd Bartlett  
**Evaluator**

2/13/2007  
**Date / Time**

Casing Schematic

Surface

12%  
18%

BHP  $0.052(9670)11.5 = 5783 \text{ psi}$   
anticipate 5995 psi

Gas  $.12(9670) = 1160$   
 $5783 - 1160 = 4623 \text{ psi, MASP}$

BOPE SM ✓

9-5/8"  
MW 8.4  
Frac 19.3

Burst 2270  
70% 1589 psi

Max P@ surf shoe  
 $.22(7670) = 1687$   
 $5783 - 1687 = 4096 \text{ psi}$

test to 1589 psi ✓

Stop surf. cont ✓

✓ Adequate ✓  
2/27/07

4-1/2"  
MW 11.5

TOC @ 0.  
Uenta  
-1001' TOC w/0% w/o  
-1185' Green River  
-1422' Bird's Nest Water  
TOC @ 1507.  
-1985' Mahogany ✓  
Option 1 Shown - Tapout  
Surface 2000. MD

-4457' Wasatch

-5200' E BMSW

-7479' Mesaverde

-8470' MVU2

-9022' MVL1

Production  
9670. MD

Well name:	<b>2007-02 Kerr McGee NBU 1021-19D</b>	
Operator:	<b>Kerr McGee Oil &amp; Gas Onshore L.P.</b>	
String type:	Surface	Project ID: 43-047-39005
Location:	Uintah County, Utah	

**Design parameters:**

**Collapse**

Mud weight: 8.400 ppg  
Design is based on evacuated pipe.

**Burst**

Max anticipated surface pressure: 1,760 psi  
Internal gradient: 0.120 psi/ft  
Calculated BHP: 2,000 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: 1,753 ft

**Environment:**

H2S considered? No  
Surface temperature: 75 °F  
Bottom hole temperature: 103 °F  
Temperature gradient: 1.40 °F/100ft  
Minimum section length: 1,500 ft  
  
Cement top: 1,507 ft

**Non-directional string.**

**Re subsequent strings:**

Next setting depth: 9,670 ft  
Next mud weight: 11.500 ppg  
Next setting BHP: 5,777 psi  
Fracture mud wt: 19.250 ppg  
Fracture depth: 2,000 ft  
Injection pressure: 2,000 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	2000	9.625	32.30	H-40	ST&C	2000	2000	8.876	883.7
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	873	1370	1.570	2000	2270	1.14	57	254	4.49 J

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

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

Date: February 22, 2007  
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 2000 ft, a mud weight of 8.4 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>2007-02 Kerr McGee NBU 1021-19D</b>	
Operator:	<b>Kerr McGee Oil &amp; Gas Onshore L.P.</b>	
String type:	Production	Project ID: 43-047-39005
Location:	Uintah County, Utah	

**Design parameters:**

**Collapse**

Mud weight: 11.500 ppg  
Design is based on evacuated pipe.

**Burst**

Max anticipated surface pressure: 3,649 psi  
Internal gradient: 0.220 psi/ft  
Calculated BHP: 5,777 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: 8,008 ft

**Environment:**

H2S considered? No  
Surface temperature: 75 °F  
Bottom hole temperature: 210 °F  
Temperature gradient: 1.40 °F/100ft  
Minimum section length: 1,500 ft

Cement top: Surface

**Non-directional string.**

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	9670	4.5	11.60	I-80	LT&C	9670	9670	3.875	843.9
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	5777	6360	1.101	5777	7780	1.35	93	212	2.28 J

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

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

Date: February 22, 2007  
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 9670 ft, a mud weight of 11.5 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.*

# 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)

February 7, 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)		
43-047-39004	NBU 1021-19C	Sec. 19 T. 10S R. 21E 0620 FNL 1904 FWL
43-047-39005	NBU 1021-19D	Sec. 19 T. 10S R. 21E 0637 FNL 0755 FWL
43-047-39006	NBU 1021-19E	Sec. 19 T. 10S R. 21E 2146 FNL 0879 FWL
43-047-39007	NBU 1021-19K	Sec. 19 T. 10S R. 21E 2181 FSL 2092 FWL
43-047-39008	NBU 1021-19N	Sec. 19 T. 10S R. 21E 0462 FSL 1845 FWL
43-047-39009	NBU 1021-29L	Sec. 29 T. 10S R. 21E 1398 FSL 0190 FWL
43-047-39010	NBU 1021-29O	Sec. 29 T. 10S R. 21E 0615 FSL 2115 FEL
43-047-39011	NBU 1021-29N	Sec. 29 T. 10S R. 21E 0250 FSL 1764 FWL
43-047-39012	NBU 1021-29J	Sec. 29 T. 10S R. 21E 1532 FSL 2192 FEL
43-047-39013	NBU 1021-29K	Sec. 29 T. 10S R. 21E 1804 FSL 2143 FWL
43-047-39014	NBU 1021-29I	Sec. 29 T. 10S R. 21E 2060 FSL 0962 FEL
43-047-39015	NBU 1021-29G	Sec. 29 T. 10S R. 21E 2090 FNL 1960 FEL
43-047-39016	NBU 1021-29F	Sec. 29 T. 10S R. 21E 1718 FNL 1529 FWL
43-047-39017	NBU 1021-29E	Sec. 29 T. 10S R. 21E 2635 FNL 1010 FWL
43-047-39018	NBU 1021-29C	Sec. 29 T. 10S R. 21E 0476 FNL 2501 FWL
43-047-39019	NBU 1021-29A	Sec. 29 T. 10S R. 21E 0170 FNL 0627 FEL
43-047-39020	NBU 1021-30I	Sec. 30 T. 10S R. 21E 2131 FSL 0387 FEL
43-047-39021	NBU 1021-30J	Sec. 30 T. 10S R. 21E 1901 FSL 1827 FEL
43-047-39022	NBU 1021-30K	Sec. 30 T. 10S R. 21E 1398 FSL 2686 FWL
43-047-39023	NBU 1021-30L	Sec. 30 T. 10S R. 21E 1602 FSL 0980 FWL
43-047-39024	NBU 1021-30M	Sec. 30 T. 10S R. 21E 0612 FSL 0462 FWL

Page 2

43-047-39025 NBU 1021-30N Sec. 30 T. 10S R. 21E 0942 FSL 1876 FWL  
43-047-39026 NBU 1021-32A Sec. 32 T. 10S R. 21E 0646 FNL 0955 FEL  
43-047-39027 NBU 1021-32B Sec. 32 T. 10S R. 21E 0837 FNL 2117 FEL  
43-047-39028 NBU 1021-32C Sec. 32 T. 10S R. 21E 0664 FNL 1840 FWL  
43-047-39029 NBU 1021-32F Sec. 32 T. 10S R. 21E 1909 FNL 2165 FWL  
43-047-39001 NBU 1021-01G Sec. 01 T. 10S R. 21E 2660 FSL 1765 FEL  
43-047-39002 NBU 1021-01O Sec. 01 T. 10S R. 21E 0245 FSL 2619 FEL  
43-047-39003 NBU 1021-01P Sec. 01 T. 10S R. 21E 0888 FSL 1309 FEL  
43-047-39030 NBU 1022-18A Sec. 18 T. 10S R. 22E 1007 FNL 0512 FEL  
43-047-39031 NBU 1022-24I Sec. 24 T. 10S R. 22E 2045 FSL 1166 FEL  
43-047-39032 NBU 1022-25B Sec. 25 T. 10S R. 22E 0403 FNL 1971 FEL  
43-047-39033 NBU 1022-25H Sec. 25 T. 10S R. 22E 2604 FNL 0825 FEL

Our records indicate the NBU 1022-25H is closer than 460 feet from the Natural Buttes Unit boundary (approximately 36 feet).

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:2-7-07

**From:** Ed Bonner  
**To:** Mason, Diana  
**Date:** 2/27/2007 8:48 AM  
**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:

Kerr McGee Oil & Gas Onshore LP  
NBU 1021-19C (API 43 047 39004)  
NBU 1021-19D (API 43 047 39005)  
NBU 1021-19E (API 43 047 39006)  
NBU 1021-19K (API 43 047 39007)  
NBU 1021-19N (API 43 047 39008)  
NBU 1022-18A (API 43 047 39030)

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



**State of Utah**

**Department of  
Natural Resources**

MICHAEL R. STYLER  
*Executive Director*

**Division of  
Oil, Gas & Mining**

JOHN R. BAZA  
*Division Director*

JON M. HUNTSMAN, JR.  
*Governor*

GARY R. HERBERT  
*Lieutenant Governor*

February 28, 2007

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

Re: Natural Buttes Unit 1021-19D Well, 637' FNL, 755' FWL, NW NW, Sec. 19,  
T. 10 South, R. 21 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 43-047-39005.

Sincerely,

Gil Hunt  
Associate Director

pab  
Enclosures

cc: Uintah County Assessor (via e-mail)  
SITLA  
Bureau of Land Management, Vernal District Office

Operator: Kerr-McGee Oil & Gas Onshore LP  
Well Name & Number Natural Buttes Unit 1021-19D  
API Number: 43-047-39005  
Lease: ML-22792

Location: NW NW Sec. 19 T. 10 South R. 21 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) 733-0983 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 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.
7. Surface casing shall be cemented to the surface.

**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: ML-22792
2. NAME OF OPERATOR: KERR MCGEE OIL & GAS ONSHORE LP		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: 1368 SOUTH 1200 EAST VERNAL UT 84078		7. UNIT or CA AGREEMENT NAME: UNIT #891008900A
4. LOCATION OF WELL FOOTAGES AT SURFACE: 637'FNL, 755'FWL LOT 1		8. WELL NAME and NUMBER: NBU 1021-19D
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NWNW 19 10S 21E		9. API NUMBER: 43-047-39005
		10. FIELD AND POOL, OR WILDCAT: NATURAL BUTTES
		PHONE NUMBER: (435) 781-7024
		COUNTY: UINTAH
		STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate)  Approximate date work will start: _____  <input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only)  Date of work completion: _____	<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 checked="" 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 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: <u>LOCATION MOVE</u>
	<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.

AN ON-SITE INSPECTION WAS CONDUCTED ON 02/14/2007 WITH UDOGM AND SITLA REPRESENTATIVES. IT WAS DECIDED AT THE ON-SITE INSPECTION TO MOVE THE PROPOSED LOCATION 300' SOUTH OF THE WASH. THE NEW FOOTAGES ARE AS FOLLOWS: 974'FNL, 869'FWL. THE PROPOSED ACCESS ROAD WAS CHANGED FROM 0.25 +/- MILES TO 0.15 +/- MILES. THE PIPELINE WAS CHANGED FROM 1291' +/- OF 4" STEEL PIPELINE TO 757' +/- OF 4" STEEL PIPELINE.

PLEASE REFER TO THE ATTACHED LOCATION MAPS FOR LOCATION LAYOUT, ACCESS ROAD AND PIPELINE.

619578X

4421585Y

39.937828

-109.600458

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

Date: 03-26-07

By: [Signature]

NAME (PLEASE PRINT) SHEILA UPCHEGO	TITLE SENIOR LAND ADMIN SPECIALIST
SIGNATURE <u>[Signature]</u>	DATE 3/14/2007

(This space for State use only)

COPY SENT TO OPERATOR  
Date: 3-22-07  
Time: 2:00 PM

**RECEIVED**

**MAR 21 2007**

DIV. OF OIL, GAS & MINING

# Kerr-McGee Oil & Gas Onshore LP

## NBU #1021-19D

LOCATED IN UINTAH COUNTY, UTAH  
SECTION 19, T10S, R21E, S.L.B.&M.

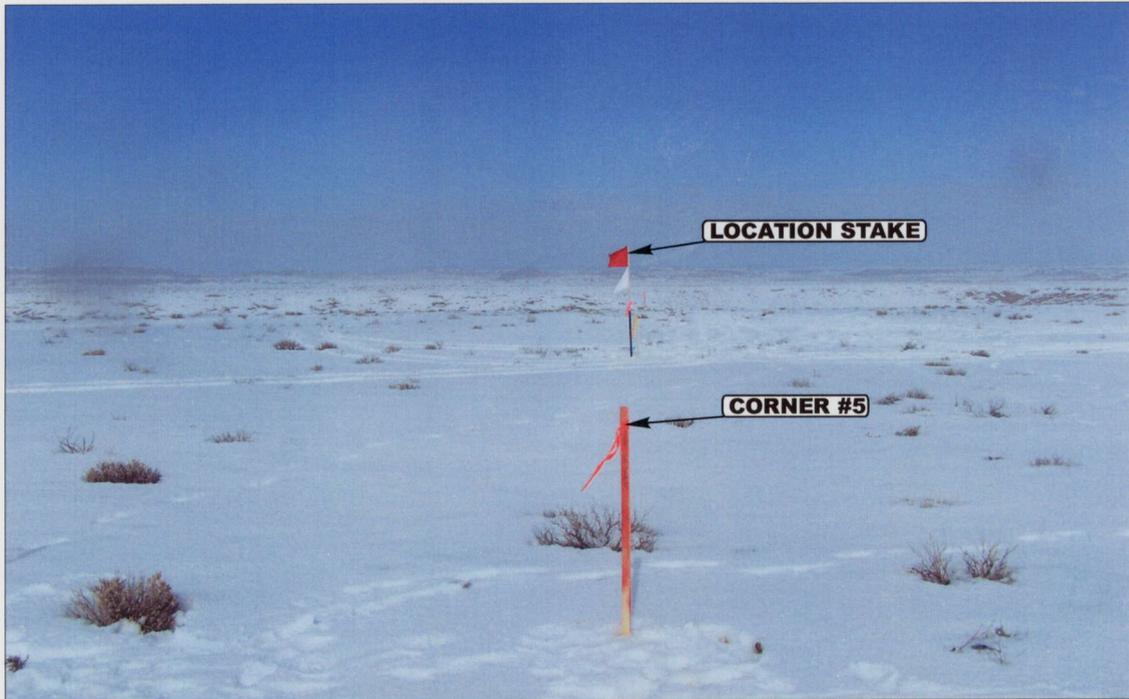


PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: NORTHWESTERLY

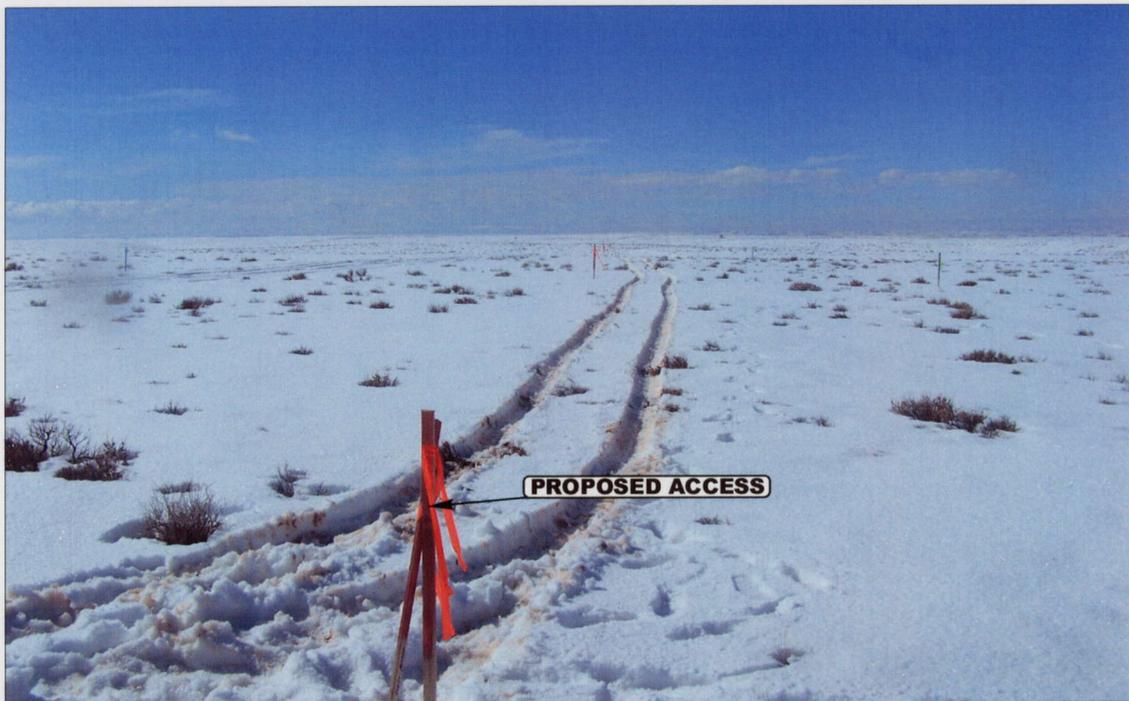


PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

CAMERA ANGLE: SOUTHWESTERLY



- Since 1964 -

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

**LOCATION PHOTOS**

**11 03 06**  
MONTH DAY YEAR

**PHOTO**

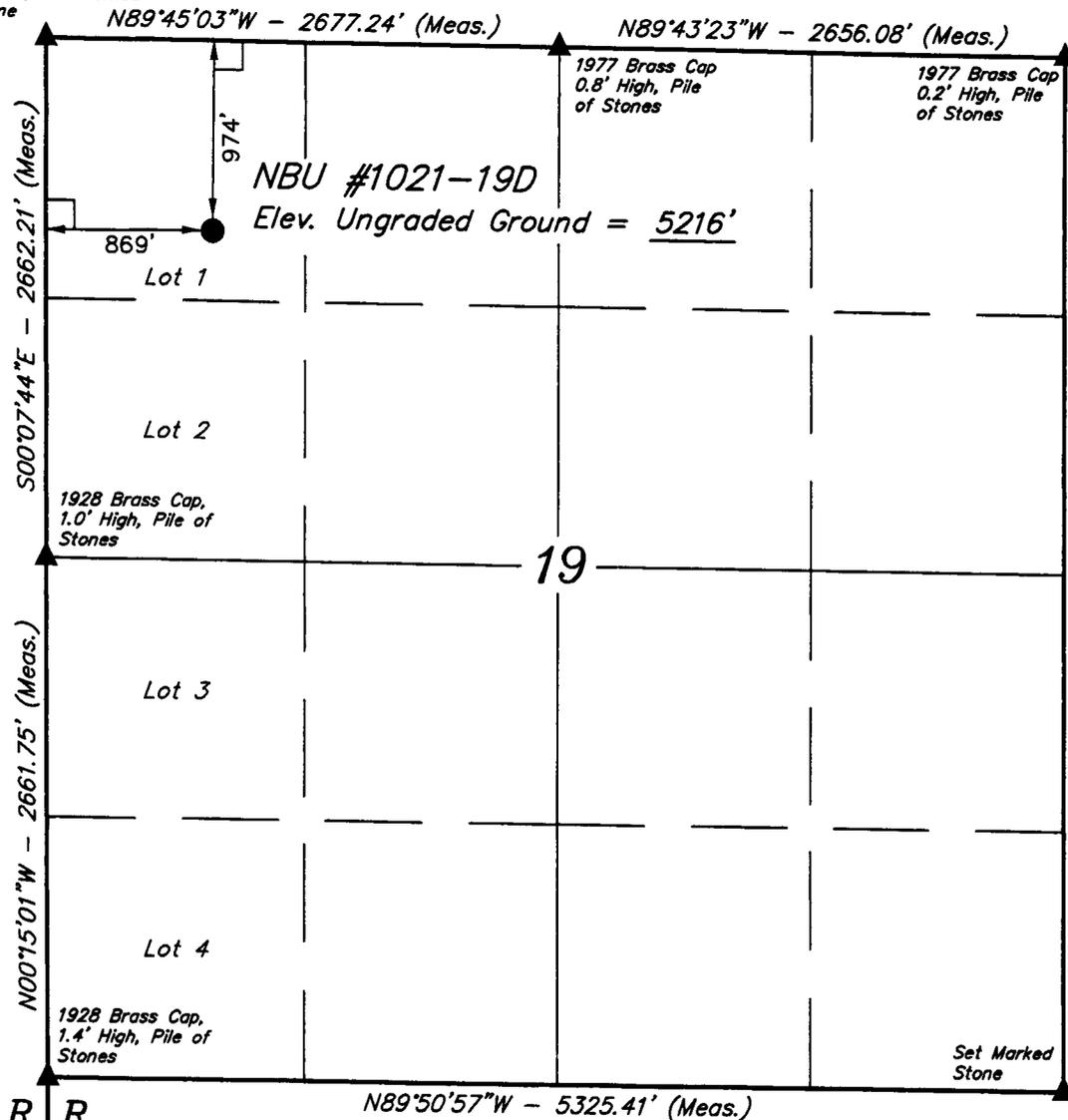
TAKEN BY: L.K.

DRAWN BY: C.P.

REVISED: 02-16-07

# T10S, R21E, S.L.B.&M.

1928 Brass Cap,  
0.6' High, Pile of  
Stones, Set Marked  
Stone

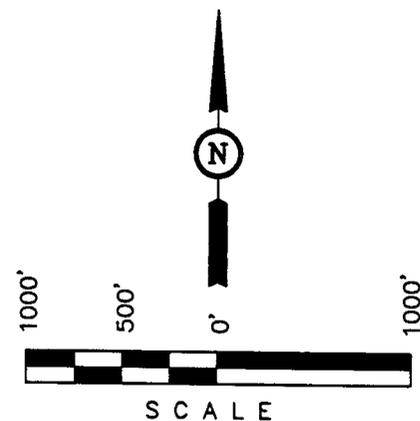


## Kerr-McGee Oil & Gas Onshore LP

Well location, NBU #1021-19D, located as shown in Lot 1 of Section 19, T10S, R21E, S.L.B.&M., Uintah County, Utah.

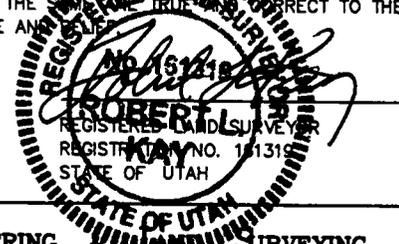
### BASIS OF ELEVATION

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.



### CERTIFICATE

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



REVISED: 02-20-07 C.H.

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

SCALE 1" = 1000'	DATE SURVEYED: 10-27-06	DATE DRAWN: 11-07-06
PARTY B.H. F.Y. S.L.	REFERENCES G.L.O. PLAT	
WEATHER COOL	FILE Kerr-McGee Oil & Gas Onshore LP	

R R  
 20 21  
 E E

### BASIS OF BEARINGS

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

(NAD 83)  
 LATITUDE =  $39^{\circ}56'16.02''$  (39.937783)  
 LONGITUDE =  $109^{\circ}36'04.15''$  (109.601153)  
 (NAD 27)  
 LATITUDE =  $39^{\circ}56'16.15''$  (39.937819)  
 LONGITUDE =  $109^{\circ}36'01.67''$  (109.600464)

### LEGEND:

- = 90° SYMBOL
- = PROPOSED WELL HEAD.
- = SECTION CORNERS LOCATED.

# Kerr-McGee Oil & Gas Onshore LP

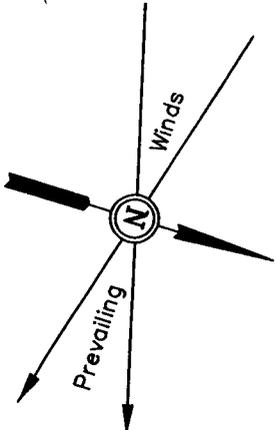
FIGURE #1

## LOCATION LAYOUT FOR

NBU #1021-19D  
SECTION 19, T10S, R21E, S.L.B.&M.

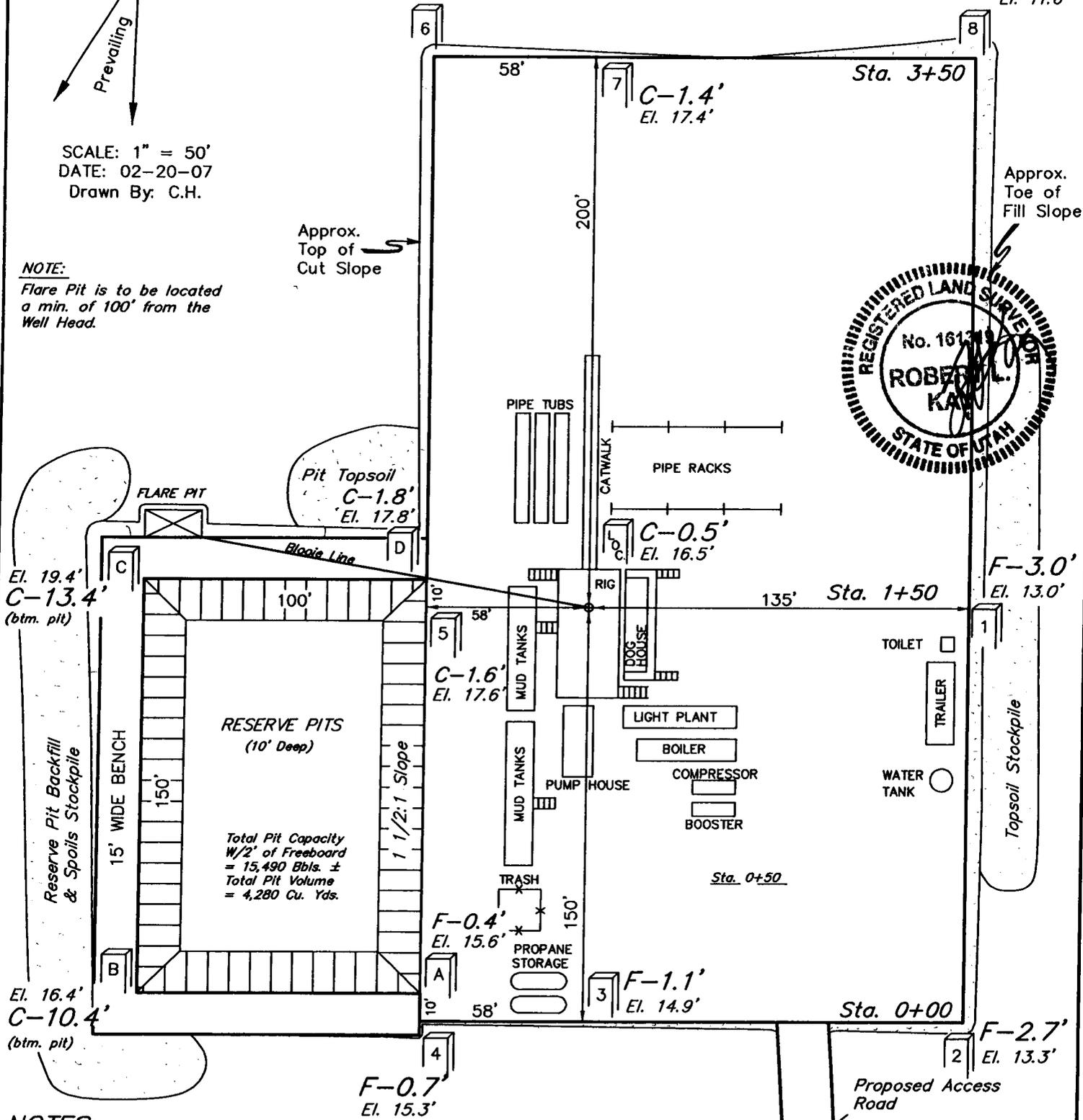
C-3.0' 974' FNL 869' FWL  
El. 19.0'

F-4.4'  
El. 11.6'



SCALE: 1" = 50'  
DATE: 02-20-07  
Drawn By: C.H.

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



**NOTES:**

Elev. Ungraded Ground At Loc. Stake = 5216.5'  
FINISHED GRADE ELEV. AT LOC. STAKE = 5216.0'

UINTAH ENGINEERING & LAND SURVEYING  
85 So. 200 East \* Vernal, Utah 84078 \* (435) 789-1017

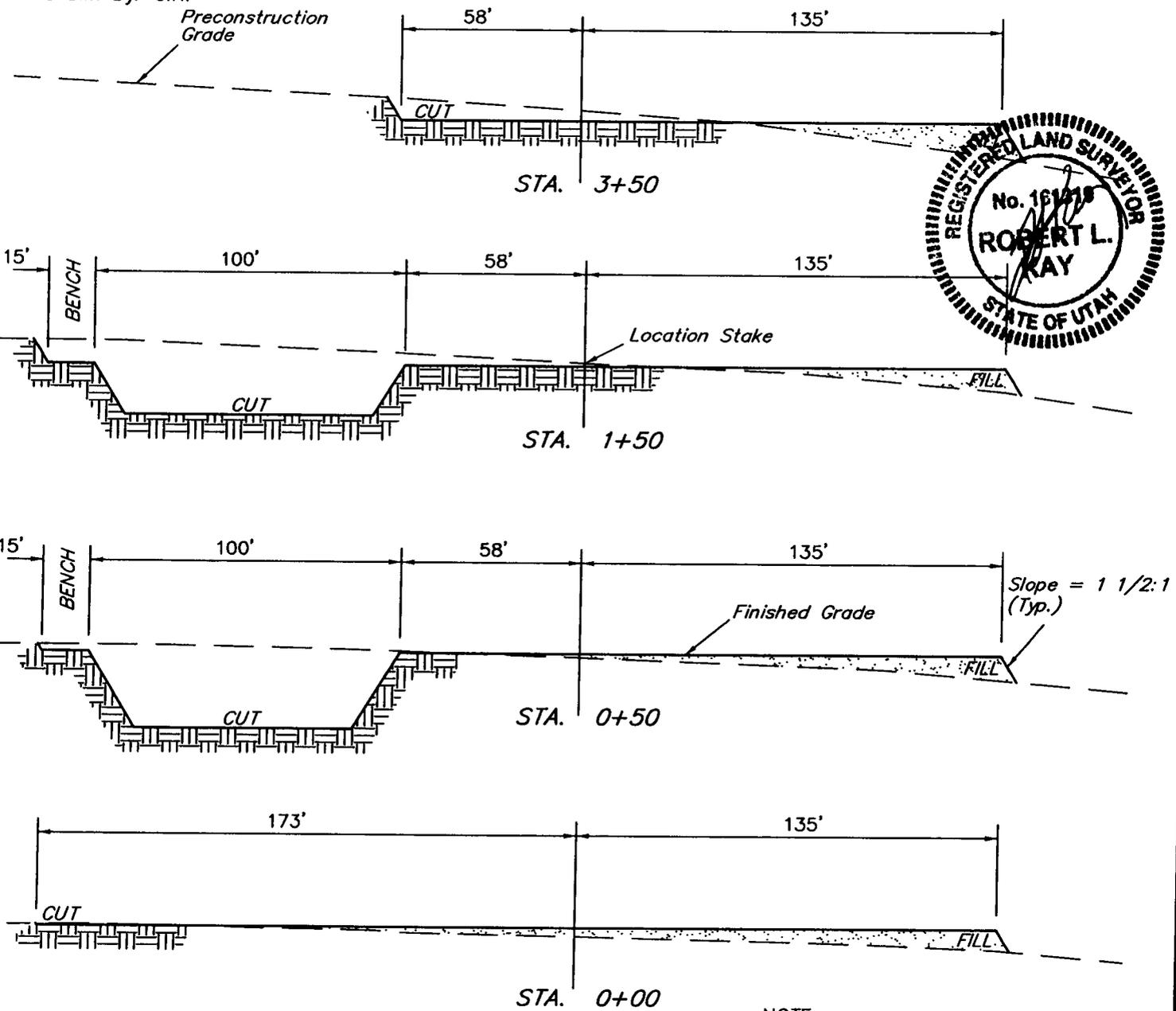
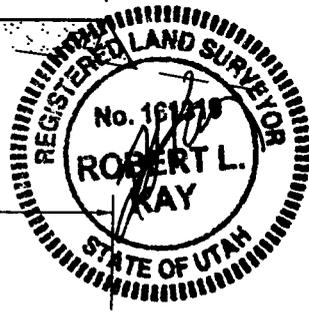
# Kerr-McGee Oil & Gas Onshore LP

FIGURE #2

TYPICAL CROSS SECTIONS FOR  
 NBU #1021-19D  
 SECTION 19, T10S, R21E, S.L.B.&M.  
 974' FNL 869' FWL

1" = 20'  
 X-Section Scale  
 1" = 50'

DATE: 02-20-07  
 Drawn By: C.H.



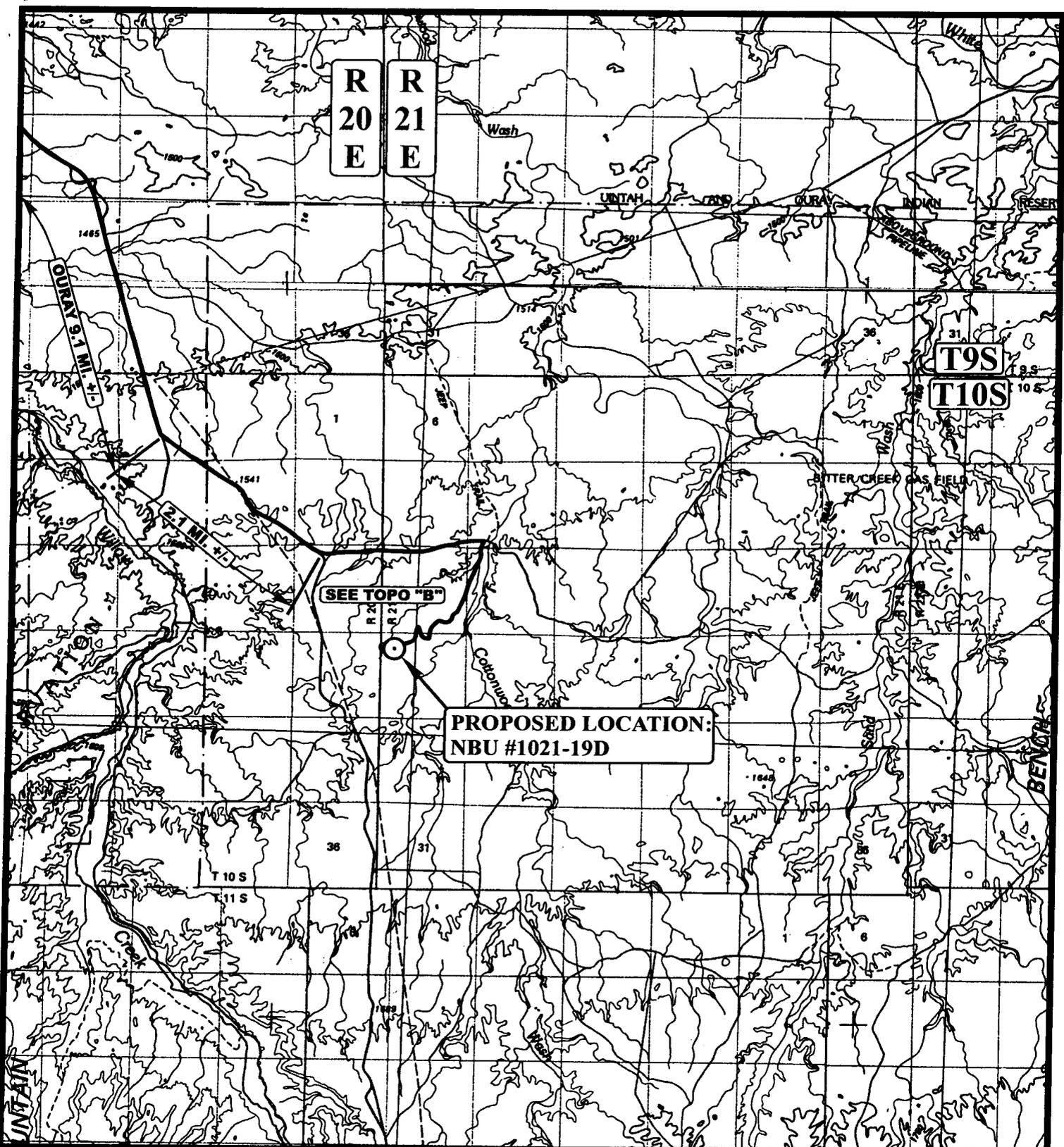
\* NOTE:  
 FILL QUANTITY INCLUDES  
 5% FOR COMPACTION

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

**APPROXIMATE YARDAGES**

CUT	
(6") Topsoil Stripping	= 1,770 Cu. Yds.
Remaining Location	= 5,650 Cu. Yds.
<b>TOTAL CUT</b>	<b>= 7,420 CU.YDS.</b>
<b>FILL</b>	<b>= 3,510 CU.YDS.</b>

EXCESS MATERIAL	= 3,910 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	= 3,910 Cu. Yds.
EXCESS UNBALANCE (After Interim Rehabilitation)	= 0 Cu. Yds.



**PROPOSED LOCATION:  
NBU #1021-19D**

**LEGEND:**

○ PROPOSED LOCATION

N



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

**NBU #1021-19D**

**SECTION 19, T10S, R21E, S.L.B.&M.**

**974' FNL 869' FWL**



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

**TOPOGRAPHIC  
MAP**

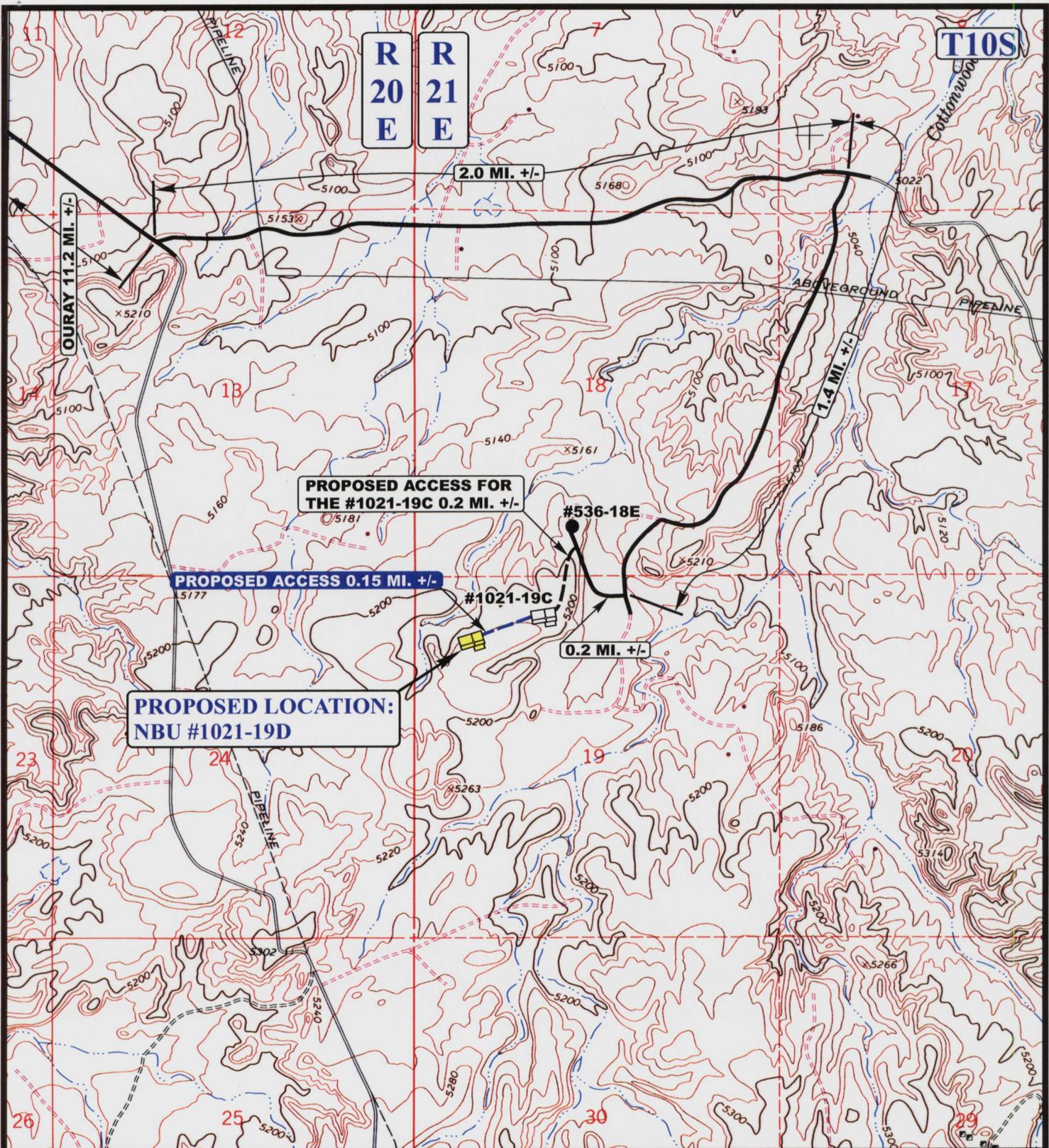
<b>11</b>	<b>03</b>	<b>06</b>
MONTH	DAY	YEAR

SCALE: 1:100,000

DRAWN BY: C.P.

REVISED: 02-16-07





**LEGEND:**

- EXISTING ROAD
- PROPOSED ACCESS ROAD

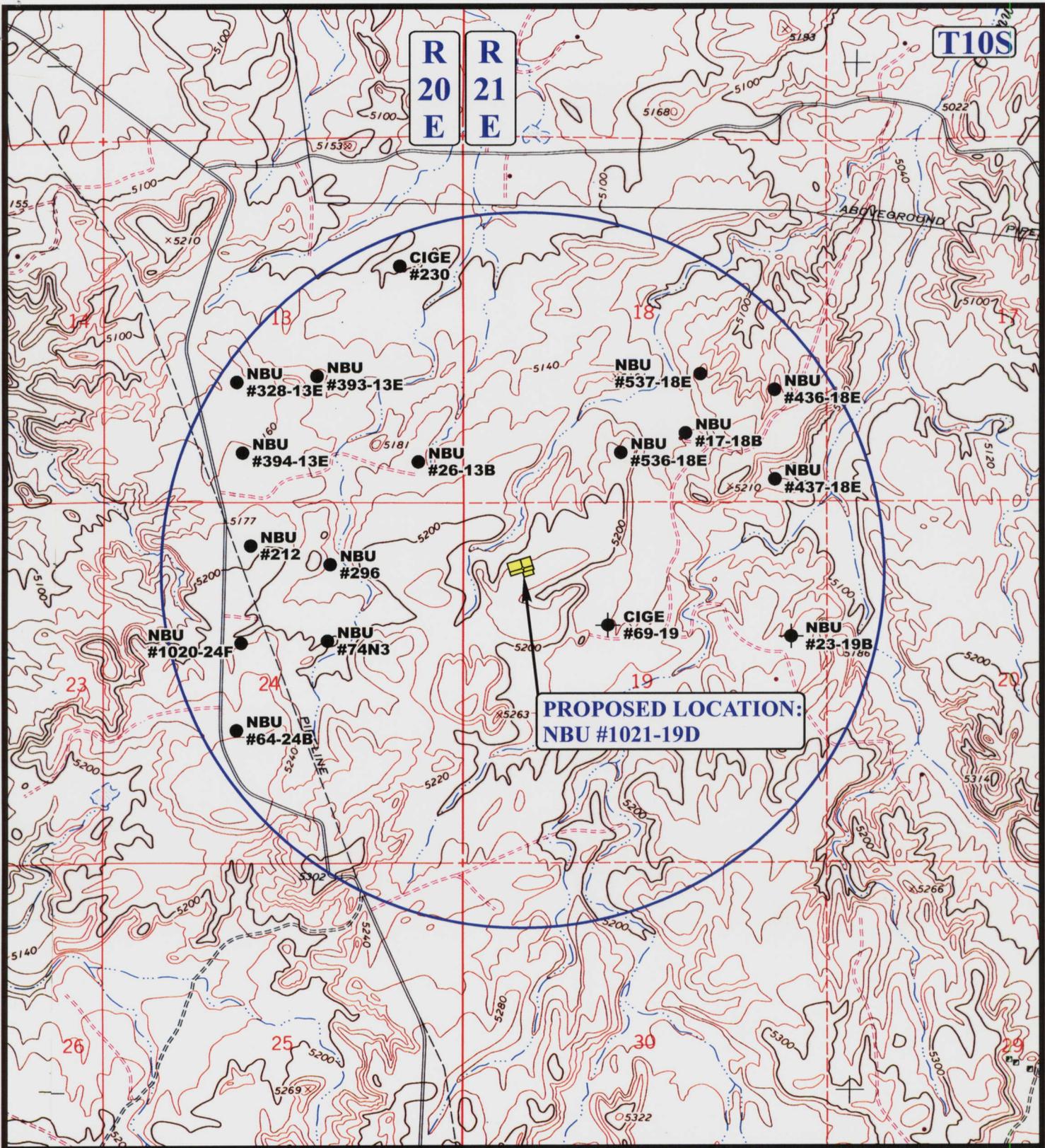
**Kerr-McGee Oil & Gas Onshore LP**

**NBU #1021-19D**  
**SECTION 19, T10S, R21E, S.L.B.&M.**  
**974' FNL 869' FWL**

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



**TOPOGRAPHIC MAP** **11 03 06**  
 MONTH DAY YEAR  
 SCALE: 1" = 2000' DRAWN BY: C.P. REVISED: 02-16-07 **B TOPO**



**PROPOSED LOCATION:  
NBU #1021-19D**

**LEGEND:**

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



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

**NBU #1021-19D  
SECTION 19, T10S, R21E, S.L.B.&M.  
974' FNL 869' FWL**



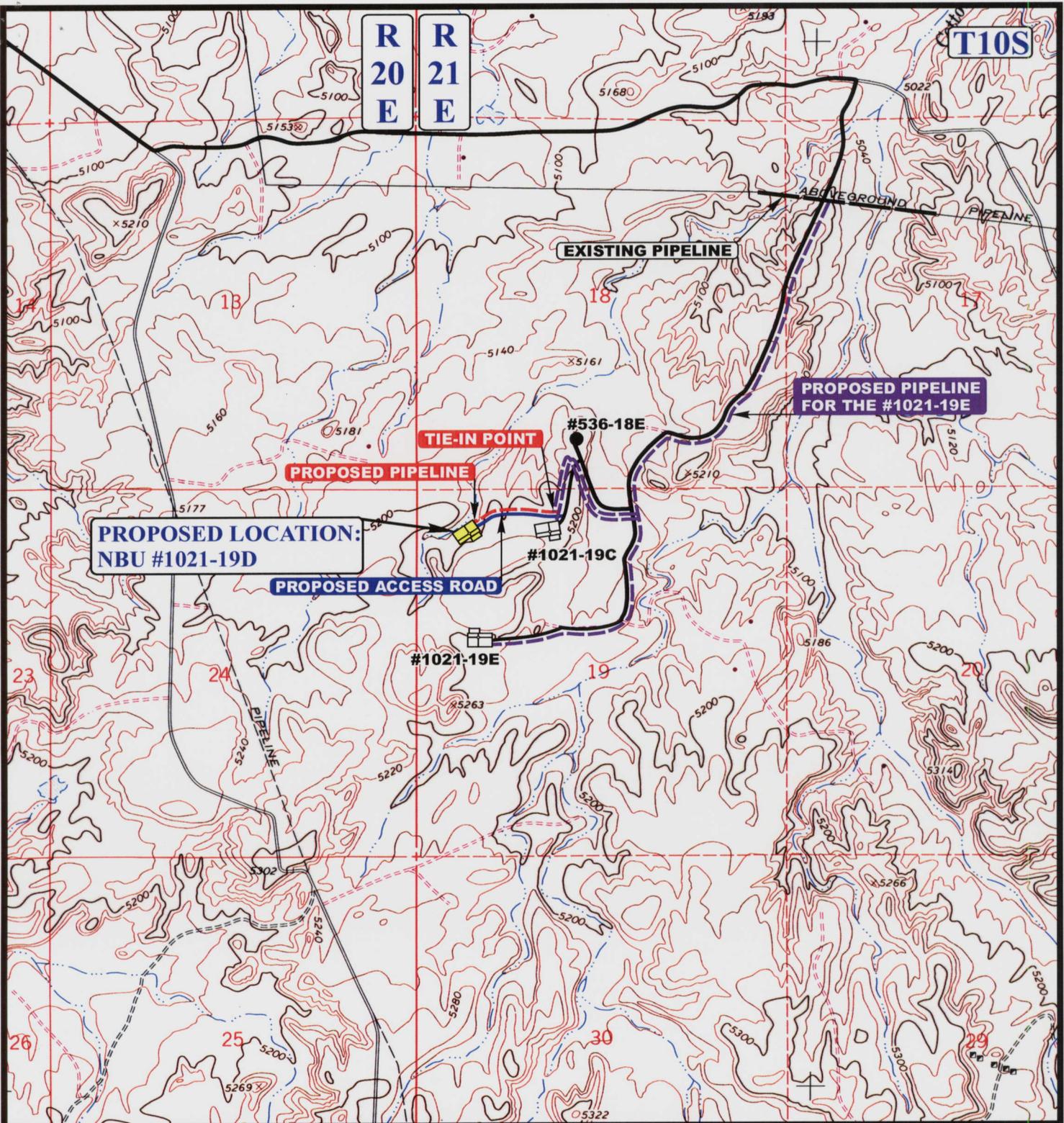
**Utah Engineering & Land Surveying**  
85 South 200 East Vernal, Utah 84078  
(435) 789-1017 \* FAX (435) 789-1813

**TOPOGRAPHIC  
MAP**

**11 03 06**  
MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: C.P. REVISED: 02-16-07





**APPROXIMATE TOTAL 8" PIPELINE DISTANCE = 757' +/-**

**LEGEND:**

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

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

**NBU #1021-19D**  
**SECTION 19, T10S, R21E, S.L.B.&M.**  
**974' FNL 869' FWL**



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

**TOPOGRAPHIC**  
**MAP**

**11 03 06**  
 MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: C.P. REVISED: 02-16-07



# Kerr-McGee Oil & Gas Onshore LP

NBU #1021-19D

PIPELINE ALIGNMENT

LOCATED IN UINTAH COUNTY, UTAH  
SECTION 19, T10S, R21E, S.L.B.&M.



PHOTO: VIEW FROM TIE-IN POINT

CAMERA ANGLE: SOUTHWESTERLY



PHOTO: VIEW OF PIPELINE ALIGNMENT

CAMERA ANGLE: SOUTHWESTERLY



- Since 1964 -

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

PIPELINE PHOTOS

11 03 06  
MONTH DAY YEAR

PHOTO

TAKEN BY: L.K.

DRAWN BY: C.P.

REVISED: 02-16-07



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
4304739005	NBU 1021-19D		NWNW	19	10S	21E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
B	99999	2900	12/15/2007			12/31/07	
Comments: MIRU PETE MARTIN BUCKET RIG. <i>WSMVD</i> SPUD WELL LOCATION ON 12/15/2007 AT 1600 HRS.							

Well 2

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

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

12/17/2007

Title

Date

**RECEIVED**

**DEC 17 2007**

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

**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.

<b>1. TYPE OF WELL</b> OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> ML-22792
<b>2. NAME OF OPERATOR:</b> KERR MCGEE OIL & GAS ONSHORE LP		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>3. ADDRESS OF OPERATOR:</b> 1368 SOUTH 1200 EAST CITY VERNAL STATE UT ZIP 84078		<b>7. UNIT or CA AGREEMENT NAME:</b> UNIT #891008900A
<b>4. LOCATION OF WELL</b> FOOTAGES AT SURFACE: 974'FNL, 869'FWL (LOT 1)  QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NWNW 19 10S 21E		<b>8. WELL NAME and NUMBER:</b> NBU 1021-19D  <b>9. API NUMBER:</b> 4304739005
		<b>10. FIELD AND POOL, OR WILDCAT:</b> NATURAL BUTTES  COUNTY: UINTAH  STATE: UTAH
<b>PHONE NUMBER:</b> (435) 781-7024		

**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 checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only)  Date of work completion: _____	<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 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: <u>WELL SPUD</u>
	<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 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 12/15/2007 AT 1600 HRS.

**RECEIVED**  
**DEC 24 2007**  
DIV. OF OIL, GAS & MINING

NAME (PLEASE PRINT) SHEILA UPCHEGO	TITLE SENIOR LAND ADMIN SPECIALIST
SIGNATURE	DATE 12/17/2007

(This space for State use only)

**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: ML-22792
2. NAME OF OPERATOR: KERR-McGEE OIL & GAS ONSHORE LP					6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: 1368 SOUTH 1200 EAST CITY VERNAL STATE UT ZIP 84078		PHONE NUMBER: (435) 781-7024		7. UNIT or CA AGREEMENT NAME: UNIT #891008900A	
4. LOCATION OF WELL		FOOTAGES AT SURFACE: 974'FNL, 869'FWL LOT 1			8. WELL NAME and NUMBER: NBU 1021-19D
		QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NWNW 19 10S 21E			9. API NUMBER: 4304739005
		COUNTY: UINTAH			10. FIELD AND POOL, OR WILDCAT: NATURAL BUTTES
		STATE: UTAH			

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<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 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: SET SURFACE CSG
	<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 01/07/2008. DRILLED 12 1/4" SURFACE HOLE TO 2070'. RAN 9 5/8" 36# J-55 SURFACE CSG. LEAD CMT W/175 SX HIFILL CLASS G @11.0 PPG 3.82 YIELD. TAILED CMT W/200 SX PREM CLASS G @15.8 PPG 1.15 YIELD. GOOD RETURNS THROUGH OUT JOB 20 +/- BBLs LEAD CMT TO PIT. RAN 200' OF 1" PIPE. CMT W/120 SX PREM CLASS G @15.8 PPG 1.15 YIELD. DOWN 1" PIPE. GOOD CMT TO SURFACE AND FELL BACK. TOP OUT W/105 SX PREM CLASS G @15.8 PPG 1.15 YIELD. DOWN BACKSIDE GOOD CMT TO SURFACE HOLE STAYED FULL.

WORT

NAME (PLEASE PRINT) SHEILA UPCHEGO	TITLE SENIOR LAND ADMIN SPECIALIST
SIGNATURE	DATE 1/11/2008

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DIV. OF OIL, GAS & MINING

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

FORM 9

5. LEASE DESIGNATION AND SERIAL NUMBER:  
**ML-22792**

**SUNDRY NOTICES AND REPORTS ON WELLS**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

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

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

1. TYPE OF WELL  
OIL WELL  GAS WELL  OTHER \_\_\_\_\_

8. WELL NAME and NUMBER:  
**NBU 1021-19D**

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

9. API NUMBER:  
**4304739005**

3. ADDRESS OF OPERATOR:  
**1368 SOUTH 1200 EAST** CITY **VERNAL** STATE **UT** ZIP **84078**

PHONE NUMBER:  
**(435) 781-7024**

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

4. LOCATION OF WELL  
FOOTAGES AT SURFACE: **974'FNL, 869'FWL (LOT 1)**

COUNTY: **UINTAH**

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: **NWNW 19 10S 21E**

STATE:  
**UTAH**

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (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 2070' TO 9550' ON 02/27/2008. RAN 4 1/2" 11.6# I-80 PRODUCTION CSG. LEAD CMT W/275 SX PREM LITE II @11.0 PPG 3.38 YIELD. TAILED CMT W/710 SX 50/50 POZ @14.3 PPG 1.31 YIELD. DISPLACE W/174 BBLs BUMP PLUG W/500 PSI FLOATS OK. SET SLIPS W/125,000# TEST SEALS NIPPLE DOWN CUT OFF CSG CLEAN MUD PITS.

RELEASED PIONEER RIG 41 ON 02/28/2008 AT 2400 HRS.

NAME (PLEASE PRINT) **SHEILA UPCHEGO**  
SIGNATURE 

TITLE **SENIOR LAND ADMIN SPECIALIST**  
DATE **3/3/2008**

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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>ML-22792</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 1021-19D</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>4304739005</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>974'FNL, 869'FWL (LOT 1)</b>		COUNTY: <b>UINTAH</b>
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: <b>NWNW 19 10S 21E</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"/> 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 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>REIVSED FINAL DRILLING OPS</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 2070' TO 9550' ON 02/27/2008. RAN 5 1/2" 17# J-55 PRODUCTION CSG. LEAD CMT W/275 SX PREM LITE II @11.0 PPG 3.38 YIELD. TAILED CMT W/710 SX 50/50 POZ @14.3 PPG 1.31 YIELD. DISPLACE W/174 BBLs BUMP PLUG W/500 PSI FLOATS OK. SET SLIPS W/125,000# TEST SEALS NIPPLE DOWN CUT OFF CSG CLEAN MUD PITS.

RELEASED PIONEER RIG 41 ON 02/28/2008 AT 2400 HRS.

NAME (PLEASE PRINT) <b>SHEILA UPCHEGO</b>	TITLE <b>SENIOR LAND ADMIN SPECIALIST</b>
SIGNATURE	DATE <b>4/10/2008</b>

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**RECEIVED**  
**APR 15 2008**  
DIV. OF OIL, GAS & MINING

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

FORM 9

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

		5. LEASE DESIGNATION AND SERIAL NUMBER: <b>ML-22792</b>
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
		7. UNIT or CA AGREEMENT NAME: <b>UNIT #891008900A</b>
1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		8. WELL NAME and NUMBER: <b>NBU 1021-19D</b>
2. NAME OF OPERATOR: <b>KERR MCGEE OIL &amp; GAS ONSHORE LP</b>		9. API NUMBER: <b>4304739005</b>
3. ADDRESS OF OPERATOR: <b>1368 SOUTH 1200 EAST</b> CITY <b>VERNAL</b> STATE <b>UT</b> ZIP <b>84078</b>		10. FIELD AND POOL, OR WILDCAT: <b>NATURAL BUTTES</b>
4. LOCATION OF WELL FOOTAGES AT SURFACE: <b>974'FNL, 869'FWL (LOT 1)</b>		COUNTY: <b>UINTAH</b>
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: <b>NWNW 19 10S 21E</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 checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<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 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 04/18/2008 AT 1:00 PM.

PLEASE REFER TO THE ATTACHED CHRONOLOGICAL WELL HISTORY.

**RECEIVED**  
**MAY 02 2008**  
DIV. OF OIL, GAS & MINING

NAME (PLEASE PRINT) <b>SHEILA UPCHEGO</b>	TITLE <b>SENIOR LAND ADMIN SPECIALIST</b>
SIGNATURE	DATE <b>4/22/2008</b>

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WINS No.: 95181

NBU 1021-19D

Start Date: 12/15/2007

AFE No.: 2011664

Operation Summary Report

End Date: 2/28/2008

Operator KERR-MCGEE OIL & GAS ONSHORE LP	FIELD NAME NATURAL BUTTES	SPUD DATE 12/15/07	GL 5,183	KB 5200	ROUTE
API 4304739005	STATE UTAH	COUNTY UINTAH	DIVISION ROCKIES		
Lat./Long.: Lat./Long.: 39.93871 / -109.60157		Q-Q/Sect/Town/Range: NWNW / 19 / 10S / 21E	Footages: 637.00' FNL 755.00' FWL		
MTD 6751	TVD 6746	LOG MD	PBMD	PBTVD	

<b>EVENT INFORMATION:</b>	EVENT ACTIVITY: DRILLING OBJECTIVE: DEVELOPMENT OBJECTIVE2:	REASON: DATE WELL STARTED/RESUMED: Event End Status: COMPLETE
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<b>RIG OPERATIONS:</b>	Begin Mobilization	Rig On Location	Rig Charges	Rig Operation Start	Finish Drilling	Rig Release	Rig Off Location
PIONEER 41 / 41	02/18/2008	02/18/2008	02/21/2008	02/22/2008	02/27/2008	02/28/2008	03/02/2008

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode	P/U	Operation
12/15/2007							
SUPERVISOR: LEW WELDON							
	0:00 - 16:00	16.00	DRLCON	12		P	WAIT ON PETE MARTIN BUCKET RIG
	16:00 - 22:00	6.00	DRLCON	02		P	MOVE IN AND RIG UP BUCKET RIG SPUD WELL @ 1600 HR 12/15/07 DRILL AND SET 40' OF SCHEDULE 10 PIPE DID NOT DRILL RODENT HOLES AT THIS TIME BLM AND STATE NOTIFIED OF SPUD
	22:00 - 0:00	2.00	DRLCON	12		P	WOAR
1/8/2008							
SUPERVISOR: LEW WELDON							
	0:00 - 0:00	24.00	DRLSUR	02		P	MOVE IN AND RIG UP AIR RIG SPUD WELL @ 1400 HR 1/7/08 DRILL TO 2070' NO WATER
1/9/2008							
SUPERVISOR: LEW WELDON							
	0:00 - 3:00	3.00	DRLSUR	05		P	TRIP DP OUT OF HOLE
	3:00 - 7:00	4.00	DRLSUR	11		P	RUN 2030' OF 9 5/8 CSG AND 200' OF 1" PIPE RIG DOWN AIR RIG
	7:00 - 8:00	1.00	DRLSUR	15		P	CEMENT 1ST STAGE WITH 175 SKS LEAD @ 11# 3.82 23 GAL/SK AND 200 SKS TAIL @ 15.8# 1.15 5.0 GAL/SK GOOD RETURNS THRUOUT JOB +- 20 BBL LEAD CMT TO PIT
	8:00 - 8:30	0.50	DRLSUR	15		P	1ST TOP JOB 120 SKS DOWN 1" PIPE GOOD CMT TO SURFACE AND FELL BACK WOC
	8:30 - 11:00	2.50	DRLSUR	15		P	2ND TOP JOB 105 SKS DOWN BS GOOD CMT TO SURFACE AND STAYED AT SURFACE
	11:00 - 0:00	13.00	DRLSUR	15		P	NO VISIBLE LEAKS PIT +- 1/4 FULL WORT
2/18/2008							
SUPERVISOR: JIM MURRAY							
	8:30 - 18:00	9.50	DRLPRO	01	E	P	RDRT, SET OUT FRONT END, LOWER DERRICK
	18:00 - 0:00	6.00	DRLPRO	01	E	P	SFTN
2/19/2008							
SUPERVISOR: JIM MURRAY							
	0:00 - 6:00	6.00	DRLPRO	01	E	P	WAIT ON DAYLITE
	6:00 - 18:00	12.00	DRLPRO	01	A	P	RIG DOWN MOVE RIG TO NBU 1021-19D,W/ 14 TRUCKS 2 FORKLIFTS 1CRANE, RIG 100% MOVED,0% RIGGED UP MAN HRS TODAY=108 TOTAL=155.5
	18:00 - 0:00	6.00	DRLPRO	01	B	P	SFTN
2/20/2008							
SUPERVISOR: RON SJOSTROM							

EVENT INFORMATION:		EVENT ACTIVITY: DRILLING				REASON:		
		OBJECTIVE: DEVELOPMENT				DATE WELL STARTED/RESUMED:		
		OBJECTIVE2:				Event End Status: COMPLETE		
RIG OPERATIONS:		Begin Mobilization	Rig On Location	Rig Charges	Rig Operation Start	Finish Drilling	Rig Release	Rig Off Location
PIONEER 41 / 41		02/18/2008	02/18/2008	02/21/2008	02/22/2008	02/27/2008	02/28/2008	03/02/2008
Date	Time Start-End	Duration (hr)	Phase	Code	Subcode	P/U	Operation	
	0:00 - 6:00	6.00	DRLPRO	01	B	P	WAIT ON DAYLIGHT	
	6:00 - 0:00	18.00	DRLPRO	01	B	P	SET IN RIG, RURT, DERRICK UP 1700 HRS, RIG UP BACK YARD, FLOOR, PITS & PUMPS, FLOWLINE, GAS BUSTER, CHOKE==MAN HOURS TODAY 144, MAN HOURS FOR MOVE=299.5 , 7 TRUCKS-TRUCKS& FORKLIFT LEFT @ 1330, CRANE LEFT @ 1830	
2/21/2008								
SUPERVISOR: RON SJOSTROM								
	0:00 - 10:00	10.00	DRLPRO	01	B	P	RIG UP, PREPARE FOR BOP TEST-MAN HOURS TODAY 50, 344.5 MAN HOURS FOR MOVE	
	10:00 - 12:00	2.00	DRLPRO	13	A	P	NIPPLE UP BOP'S, FLOWLINE, FLARE & CHOKE LINES	
	12:00 - 18:00	6.00	DRLPRO	13	C	P	TEST BOP/S 2500/5000, TEST CASING 1500	
	18:00 - 20:30	2.50	DRLPRO	05	K	P	INSTALL WEAR BUSHING, SM & R/U PICKUP MACHINE, LAYOUT & STRAP BHA & DP	
	20:30 - 0:00	3.50	DRLPRO	05	A	P	M/U BIT, MOTOR, P/U BHA & DP, RIH, TAG CEMENT @ 1906'	
2/22/2008								
SUPERVISOR: RON SJOSTROM								
	0:00 - 2:00	2.00	DRLPRO	05	K	P	R/D PICKUP MACHINE, INSTALL ROTATING HEAD RUBBER & BUSHING	
	2:00 - 3:30	1.50	DRLPRO	02	F	P	DRLG CEMENT & FE 1906-2070	
	3:30 - 4:00	0.50	DRLPRO	09	A	P	WIRELINE SURVEY @ 2003 = 1.11 DEG	
	4:00 - 12:30	8.50	DRLPRO	02	B	P	SPUD IN AND DRILL 2070-2869 = 799' = 94 FPH, MW 8.4 / 26	
	12:30 - 13:00	0.50	DRLPRO	06	A	P	RIG SERVICE	
	13:00 - 18:30	5.50	DRLPRO	02	B	P	DRLG 2869-3312 = 443' = 80.5 FPH, MW 8.4 / 26	
	18:30 - 19:00	0.50	DRLPRO	09	A	P	WIRELINE SURVEY @ 3237 = 1.88 DEG	
	19:00 - 0:00	5.00	DRLPRO	02	B	P	DRLG 3312-3705 = 393' = 78.6 FPH, MW 8.4 / 26	
2/23/2008								
SUPERVISOR: RON SJOSTROM								
	0:00 - 9:00	9.00	DRLPRO	02	B	P	DRLG 3705-4358 = 653' 72.5 FPH, MW 8.8 / 33	
	9:00 - 9:30	0.50	DRLPRO	09	A	P	WIRELINE SURVEY @ 4283 = 4 DEG	
	9:30 - 10:30	1.00	DRLPRO	02	B	P	DRLG 4358-4420 = 62' = 62 FPH, MW 8.9 / 34	
	10:30 - 11:00	0.50	DRLPRO	09	A	P	WIRELINE SURVEY @ 345 = 4.1 DEG	
	11:00 - 18:00	7.00	DRLPRO	02	B	P	DRLG 4420-4610 = 190' = 27.1 FPH, 9.5 / 35 (DRLG W/LIGHT WEIGHT DUE TO ANGLE)	
	18:00 - 18:30	0.50	DRLPRO	09	A	P	WIRELINE SURVEY @ 4535 = 4.27 DEG	
	18:30 - 19:30	1.00	DRLPRO	02	B	P	DRLG 4610-4642, 32' = 32 FPH, MW 9.6# / 36, (BUILD SLUG FOR TRIP OUT)	
	19:30 - 22:30	3.00	DRLPRO	05	A	P	TRIP OUT FOR DROPPING BIT	
	22:30 - 0:00	1.50	DRLPRO	05	A	P	M/U BIT, TRIP IN	
2/24/2008								
SUPERVISOR: RON SJOSTROM								
	0:00 - 2:00	2.00	DRLPRO	05	A	P	TRIP IN WITH DROPPING BIT, WASH 31' TO TD	
	2:00 - 6:00	4.00	DRLPRO	02	B	P	DRLG 4642-4800 = 158' = 39.5 FPH, MW 9.7 / 37	
	6:00 - 6:30	0.50	DRLPRO	09	A	P	WIRELINE SURVEY @ 4725 = 3.9 DEG	
	6:30 - 15:00	8.50	DRLPRO	02	B	P	DRLG 4800-5212 = 412' = 48.5 FPH, MW 9.7 / 38	
	15:00 - 15:30	0.50	DRLPRO	06	A	P	RIG SERVICE	
	15:30 - 0:00	8.50	DRLPRO	02	B	P	DRLG 5212-5641 = 429' = 50.4 FPH, MW 9.7 / 39	
2/25/2008								
SUPERVISOR: RON SJOSTROM								
	0:00 - 2:00	2.00	DRLPRO	02	B	P	DRLG 5641-5719 = 78' = 39 FPH, MW 9.7 / 39	
	2:00 - 2:30	0.50	DRLPRO	09	A	P	WIRELINE SURVEY @ 5644 = 2.2 DEG	

EVENT INFORMATION:		EVENT ACTIVITY: DRILLING				REASON:		
		OBJECTIVE: DEVELOPMENT				DATE WELL STARTED/RESUMED:		
		OBJECTIVE2:				Event End Status: COMPLETE		
RIG OPERATIONS:		Begin Mobilization	Rig On Location	Rig Charges	Rig Operation Start	Finish Drilling	Rig Release	Rig Off Location
PIONEER 41 / 41		02/18/2008	02/18/2008	02/21/2008	02/22/2008	02/27/2008	02/28/2008	03/02/2008
Date	Time Start-End	Duration (hr)	Phase	Code	Subcode	P/U	Operation	
	2:30 - 14:30	12.00	DRLPRO	02	B	P	DRLG 5719-6225 = 506' = 42.2 FPH, MW 9.7 / 39	
	14:30 - 15:00	0.50	DRLPRO	06	A	P	RIG SERVICE	
	15:00 - 0:00	9.00	DRLPRO	02	B	P	DRLG 6225-6566 = 341' = 37.9 FPH, MW 9.8 / 40	
2/26/2008								
SUPERVISOR: RON SJOSTROM								
	0:00 - 9:30	9.50	DRLPRO	02	B	P	DRLG 6566-6826 = 260' = 27.3 FPH, MW 10 / 40	
	9:30 - 10:00	0.50	DRLPRO	09	A	P	WIRELINE SURVEY @ 6751 = 1.09 DEG	
	10:00 - 13:30	3.50	DRLPRO	02	B	P	DRLG 6826-6921 = 95' = 27.1 FPH, MW 10 / 40	
	13:30 - 14:00	0.50	DRLPRO	06	A	P	RIG SERVICE	
	14:00 - 15:00	1.00	DRLPRO	02	B	P	DRLG 6921-6953 = 32' = 32 FPH, MW 10 / 40	
	15:00 - 19:00	4.00	DRLPRO	05	A	P	PUMP SLUG, TRIP OUT FOR BIT, FLOW CHECK @ SHOE-OK, POOH & REMOVE BIT #2	
	19:00 - 23:00	4.00	DRLPRO	05	A	P	TRIP IN WITH BIT #1 RR, WASH TO TD, 8 FT FILL	
	23:00 - 0:00	1.00	DRLPRO	02	B	P	DRLG 6953-6985, 32', MW 10.2# / 42	
2/27/2008								
SUPERVISOR: RON SJOSTROM								
	0:00 - 12:30	12.50	DRLPRO	02	B	P	DRLG 6985-7550 TD = 565' = 45.2 FPH, MW 10.2 / 42 MESA VERDE TOP 7516'	
	12:30 - 14:30	2.00	DRLPRO	04	G	P	CCH FOR SAMPLE & SWEEP	
	14:30 - 15:30	1.00	DRLPRO	05	E	P	12 STD WIPER TRIP-OK	
	15:30 - 18:00	2.50	DRLPRO	04	G	P	CCH, CHECK B/U FOR GAS, SM & R/U LAYDOWN TRUCK, PUMP SLUG	
	18:00 - 0:00	6.00	DRLPRO	05	D	P	LAYDOWN DRILLSTRING, REMOVE ROTATING HEAD RUBBER, SOFT BREAK KELLY	
2/28/2008								
SUPERVISOR: RON SJOSTROM								
	0:00 - 4:30	4.50	DRLPRO	08	A	P	R/U HALLIBURTON LOGGERS, RUN TRIPLE COMBO TO 7540, LOG UP, R/D LOGGING EQUIPMENT	
	4:30 - 6:30	2.00	CSG	11	A	P	PULL WEAR BUSHING, R/U CASING CREW, S/M	
	6:30 - 11:30	5.00	CSG	11	B	P	RUN 179 JTS 5-1/2 17# J-55 PRODUCTION CSG, SHOE @ 7550 RKB	
	11:30 - 13:00	1.50	CSG	04	E	P	BRK CIRC, CIRC & RECIPROCATATE CASING, LOST TOTAL RETURNS, CSG STUCK ON BOTTOM	
	13:00 - 16:00	3.00	CSG	04	E	X	BUILD VOLUME, MIX & DISPLACE LCM PILL	
	16:00 - 18:30	2.50	CSG	15	A	P	CEMENT PRODUCTION CASING-NO RETURNS 10 BBL WATER, 20 BBL MUD BLUSH 8.4#, 10 BBL WATER, 20 SX SCAVENGER 9.5#, 10 BBL WATER, 275SX LEAD 11#, 710 SX TAIL 14.3#, 174BBL DISPLACEMENT, BUMP PLUG +500 PSI, FLOATS OK, R/D HALLIBURTON	
	18:30 - 21:00	2.50	CSG	11	B	P	SET SLIPS WITH 125000#, TEST SEALS, NIPPLE DOWN AND CUTOFF CASING	
	21:00 - 0:00	3.00	RDMO	01	E	P	CLEAN MUD PITS, PREPARE FOR MOVE, RIG RELEASED TO NBU 920-15B 2-28-08 2400 HRS	



EVENT INFORMATION:	EVENT ACTIVITY: COMPLETION	REASON: WAS
	OBJECTIVE: DEVELOPMENT	DATE WELL STARTED/RESUMED:
	OBJECTIVE2: ORIGINAL	Event End Status:

RIG OPERATIONS:	Begin Mobilization	Rig On Location	Rig Charges	Rig Operation Start	Finish Drilling	Rig Release	Rig Off Location
KEY 243 / 243	03/20/2008						

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode	P/U	Operation
	6:00 - 18:00	12.00	COMP	36	B	P	<p>RU WIRELINE &amp; BJ GEL FRAC STAGE 1#. RIH PERF 7149-50, 7190-91, 7193-94, 7210-12, 7219-20, 7235-36, 7239-40, 2SPF, 16 HOLES. BROKE @ 3288, IR 11, IP 3820, ISIP 1413, FG .63, MP 4665, MR 13.2, AP 4559, AR 13, FG .99, ISIP 3990, NPI 2577, CLEAN 708 BBLS, 20/40 SAND 35,800#</p> <p>STAGE 2# SET CBP @ 7065'. PERF 6773-74, 6786-88, 6827-28, 6853-54, 6908-10, 7001-02, 7027-27, 2SPF, 18 HOLES. BROKE @ 3088, IR 20, IP 4280, ISIP 1395, FG .64, MP 4498, MR 23.4, AP 4058, AR 29.9, FG 8.6, ISIP 2939, NPI 1544, CLEAN 703, 20/40 SAND 62,700#.</p> <p>STAGE 3# SET CBP 6670'. PERF 6588-89, 6593-94, 6603-04, 6608-10, 6611-12, 6635-36, 2SPF, 14 HOLES. BROKE @ 3678, IR 30, IP 3740, ISIP 2227, FG .77, MP 3790, MR 30.3, AP 3636, AR 29.9, FG .85, ISIP 2751, NPI 524, CLEAN 575, 20/40 SAND 63,000#.</p> <p>STAGE 4# RIH SET CBP @ 6250', PERF 6164-65, 6170-72, 6174-76, 6179-80, 6216-18. 2SPF, 16 HOLES. BROKE @ 1517, IR 30, IP 3550, ISIP 1878, FG .74, MP 3635, MR 30.2, AP 3464, AR 29.6, FG .85, ISIP 2338, NPI 460, CLEAN 554 BBLS, 20/40 SAND 63550#.</p> <p>STAGE 5# RIH SET CBP @ 6033. PERF 5798-5800, 5826-27, 5877-78, 5905-06, 5945-46, 5962-64, 6002-03, 2SPF, 18 HOLES. BROKE @ 2498, IR 30, IP 3800, ISIP 2329, FG .83, MP 3759, MR 30.2, AP 3546, AR 29.7, FG .86, ISIP 2496, NPI 167, CLEAN 582, 20/40 SAND 72000#.</p> <p>STAGE 6# RIH SET CBP @ 5698. PERF 5414-15, 5421-22, 5473-74, 5495-96, 5580-82, 5586-88, 5646-48, 5656-58, 5666-68, 2SPF, 28 HOLES. SWI</p>

4/15/2008	SUPERVISOR: KEN WARREN						
	7:00 - 15:00	8.00	COMP	36	D	P	<p>7:AM HSM.</p> <p>STAGE 6# GEL FRAC. PERFS 5414 TO 5648'. BROKE @ 2344, IR 29.7, 2800, ISIP 1750, FG .75, MP 3025, MR 31.9, AP 2887, AR 31.5, FG .88, ISIP 2484, NPI 734, CLEAN 582 BBLS, 20/40 SAND 71600.</p> <p>STAGE 7# RIH SET CBP @ 5278'. PERF 5016-17, 5049-50, 5057-58, 5179-80, 5186-87, 5193-94, 5204-06, 5213-14, 5224-26, 5246-48. 2SPF, 26 HOLES. BROKE @ 2792, IR 30, IP 2770, ISIP 1590, FG .74, MP 3212, MR 30.3, AP 3038, AR 30.2, FG .91, ISIP 2437, NPI 847, CLEAN 1028 BBLS, 20/40 SAND 157,000# TOTALS = SAND 525,650#, CLEAN 4732 BBLS. RIH SET CBP @ 4966'. RD BJ &amp; CUTTERS.ND FRAC VALVES. NU BOP. SWIFN. TO WINDY TO TRIP IN HOLE.</p>

4/16/2008	SUPERVISOR: KEN WARREN						
	7:00 - 7:15	0.25	COMP	48		P	HSM, P/U PWR SWVL

<b>EVENT INFORMATION:</b>	EVENT ACTIVITY: COMPLETION	REASON: WAS
	OBJECTIVE: DEVELOPMENT	DATE WELL STARTED/RESUMED:
	OBJECTIVE2: ORIGINAL	Event End Status:

<b>RIG OPERATIONS:</b>	Begin Mobilization	Rig On Location	Rig Charges	Rig Operation Start	Finish Drilling	Rig Release	Rig Off Location
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KEY 243 / 243

03/20/2008

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode	P/U	Operation
	7:15 - 18:00	10.75	COMP	44	C	P	P/U 3-7/8 BIT W/ POBS, TRIPN IN HOLE W/ 2-3/8 TBG, PLUG #1] TAG SAND @ 4647' [52' FILL] P/U PWR SWVL EST CIRC, C/O & DRL THROUGH 5-1/2 BKR 5K CBP @ 4699' IN 10 MIN. 500# INCREASE. PLUG #2] CONTINUE TO RIH TAG SAND @ 5248' [30' FILL] C/O & DRL THROUGH 5-1/2 BKR 8K CBP @ 5278' IN 15 MIN. 0# INCREASE. PLUG #3] CONTINUE TO RIH, TAG SAND @ 5688' [10' FILL] C/O & DRL THROUGH 5-1/2 BKR CBP @ 5698' IN 15 MIN. 200# INCREASE. PLUG #4] CONTINUE TO RIH, TAG SAND @ 6003' [30' FILL] C/O & DRL THROUGH 5-1/2 BKR 8K CBP @ 6033' IN 15 MIN. 200# INCREASE. PLUG #5] CONTINUE TO RIH, TAG SAND @ 6189' [65' FILL] C/O & DRL THROUGH 5-1/2 BKR 8K CBP @ 6250' IN 15 MIN. 0# INCREASE. PLUG #6] CONTINUE TO RIH, TAG SAND @ 6640' [30' FILL] C/O & DRL THROUGH 5-1/2 BKR 8K CBP @ 6670' IN 15 MIN. 200# INCREASE. PLUG #7] CONTINUE TO RIH, TAG SAND @ 7005' [60' FILL] C/O & DRL THROUGH 5-1/2 BKR 8K CBP @ 7065' IN 15 MIN. 0# INCREASE. CONTINUE TO RIH C/O TO PBD @ 7487' [BOTTOM PERF 7240'] CIRC HOLE, L/D 62 JNTS ON FLOAT, P/U LUBRICATE HANGER IN WELL & LAND W/ 194 JNTS 2-3/8 J-55 TBG EOT @ 6125.19. R/D PWR SWVL, DROP BALL, R/D TBG EQUIP, N/D BOP'S, N/U WELL HEAD, PUMP OFF BIT PUT WELL TO FLOW BACK. 6:00
4/17/2008							
	SUPERVISOR: CHUCK ALLEN						
	7:00 -			33	A		7 AM FLOWBACK - CP 200#, TP 200#, CK 20/64", 10 BWPH, TRACE SAND, LIGHT GAS TTL BBLs RECOVERED: 2100 BBLs LEFT TO RECOVER: 2632
4/18/2008							
	SUPERVISOR: CHUCK ALLEN						
	7:00 -			33	A		7 AM FLOWBACK - CP 1500#, TP 1150#, CK 20/64", 15 BWPH, TRACE SAND, LIGHT GAS TTL BBLs RECOVERED: 2655 BBLs LEFT TO RECOVER: 2077
	13:00 -		PROD				WELL ON SALES @ 1300 HR, 4/18/2008 - CP 1700, TP 1150, CK 20/64", 1700 MCFD, 288 BWPD
4/19/2008							
	SUPERVISOR: CHUCK ALLEN						
	7:00 -			33	A		7 AM FLOWBACK - CP 1700#, TP 1200#, CK 20/64", 15 BWPH, TRACE SAND, 1300 MCFD TTL BBLs RECOVERED: 3015 BBLs LEFT TO RECOVER: 1717
4/20/2008							
	SUPERVISOR: CHUCK ALLEN						
	7:00 -			33	A		7 AM FLOWBACK - CP 1600#, TP 1200#, CK 20/64", 12 BWPH, CLEAN, 1400 MCFD TTL BBLs RECOVERED: 3336 BBLs LEFT TO RECOVER: 1396

**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>ML-22792</b>
b. TYPE OF WORK: NEW WELL <input checked="" type="checkbox"/> HORIZ. LATS. <input type="checkbox"/> DEEP-EN <input type="checkbox"/> RE-ENTRY <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> OTHER _____		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
2. NAME OF OPERATOR: <b>KERR MCGEE OIL &amp; GAS ONSHORE LP</b>		7. UNIT or CA AGREEMENT NAME <b>UNIT #891008900A</b>
3. ADDRESS OF OPERATOR: <b>1368 S 1200 E CITY VERNAL STATE UT ZIP 84078</b>		8. WELL NAME and NUMBER: <b>NBU 1021-19D</b>
PHONE NUMBER: <b>(435) 781-7024</b>		9. API NUMBER: <b>4304739005</b>
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: <b>974'FNL, 869'FWL (LOT 1)</b>		10. FIELD AND POOL, OR WILDCAT <b>NATURAL BUTTES</b>
AT TOP PRODUCING INTERVAL REPORTED BELOW:		11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: <b>NWNW 19 10S 21E</b>
AT TOTAL DEPTH:		12. COUNTY <b>UINTAH</b> 13. STATE <b>UTAH</b>

14. DATE SPUDED: <b>12/15/2007</b>	15. DATE T.D. REACHED: <b>2/27/2008</b>	16. DATE COMPLETED: <b>4/18/2008</b>	ABANDONED <input type="checkbox"/> READY TO PRODUCE <input checked="" type="checkbox"/>	17. ELEVATIONS (DF, RKB, RT, GL): <b>5183'GL</b>
18. TOTAL DEPTH: MD <b>9,550</b> TVD	19. PLUG BACK T.D.: MD <b>7,487</b> TVD	20. IF MULTIPLE COMPLETIONS, HOW MANY? *		21. DEPTH BRIDGE MD PLUG SET: TVD
22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each) <b>CBL-CCL-GR, SD, DSN, ACTR</b>			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#		40		28			
12 1/4"	9 5/8 J-55	36#		2,070		600			
7 7/8"	5 1/2 J-55	17#		9,550		985			

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"	6.125							

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	5,016	7,240			5,016 7,240	0.36	132	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"/>

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

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
5016'-7240'	PMP 4732 BBLs SLICK H2O & 525,650# 30/50 SD

**RECEIVED**  
**MAY 08 2008**  
DIV. OF OIL, GAS & MINING

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: 4/18/2008		TEST DATE: 5/4/2008		HOURS TESTED: 24		TEST PRODUCTION RATES: →		OIL – BBL: 10	GAS – MCF: 1,869	WATER – BBL: 525	PROD. METHOD: FLOWING
CHOKE SIZE: 23/64	TBG. PRESS. 795	CSG. PRESS. 1,282	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL: 10	GAS – MCF: 1,869	WATER – BBL: 525	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	4,489				

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 5/5/2008

This report must be submitted within 30 days of

- completing or plugging a new well
- reentering a previously plugged and abandoned well
- drilling horizontal laterals from an existing well bore
- significantly deepening an existing well bore below the previous bottom-hole depth
- recompleting to a different producing formation
- 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>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> ML-22792
<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 1021-19D
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.	<b>9. API NUMBER:</b> 43047390050000
<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> 0974 FNL 0869 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWNW Section: 19 Township: 10.0S Range: 21.0E Meridian: S	<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES  <b>COUNTY:</b> UINTAH  <b>STATE:</b> UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 8/18/2010  <input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:  <input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:  <input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input checked="" type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input checked="" type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION  OTHER: <input style="width: 100px;" type="text"/>

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

THE OPERATOR REQUESTS AUTHORIZATION TO WORKOVER THE SUBJECT WELL. PROPOSED ACTIVITIES INCLUDE WATER SHUT OFF. PLEASE SEE ATTACHED WATER SHUT OFF/PERFORATION SQUEEZE PROCEDURE.

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

Date: August 19, 2010  
By: 

<b>NAME (PLEASE PRINT)</b> Andy Lytle	<b>PHONE NUMBER</b> 720 929-6100	<b>TITLE</b> Regulatory Analyst
<b>SIGNATURE</b> N/A		<b>DATE</b> 8/17/2010

**NBU 1021-19D**

**AFE#**

**WINS# 95181**

**Maintenance Rig Aug 2010**

**NWNW Sec 19 T10S R21E**

**Uintah County, UT**

**ELEVATIONS:** 5183 GL

5201 KB

**TOTAL DEPTH:** 7550

**PBTD:** 7503

**SURFACE CASING:**

9 5/8", 36# J-55 ST&C @ 2052'

**PRODUCTION CASING:**

4 1/2", 11.6#, I-80 LT&C @ 7550'

Marker Joint **4433-4447'**

**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
5 1/2" 17# J-55 (See above)	5,320	4,910	4.767"	0.0232	0.9764
2 3/8" by 5 1/2" Annulus				0.0178	0.7476

**Relevant History:**

- SEP 2008: Completed with 7 SW frac stages in the Wasatch. PBTD 7487'. Bottom perf 7240'.
- NOV 2008: Rig brought in to swab.
- MAR 2009: Tubing was plugged. Lots of scale on OD of tubing. Ran tubing and anchor in hole. SN @ 7308'. EOT @ 7345'. Ran 1 1/4" pump and rods in hole.
- NOV 2009: Saw light paraffin on rods. Pumped dispersant. Unset TAC. LD 94 jts of red band. Set TAC @ 6651'. Started pump. Pump hanging up. Had to go to frac. EOT 7314.
- MAR 2010: Tubing plugged. Pulled rods. Shot holes from 7318-24. Unable to release TAC. Ran back in with rods.

**Symptoms:**

- High LGR. Water shut-off needed.

**Procedure Outline:**

- Caution: This well makes H2S.
- MIRU. N/D WH. N/U BOP. Unland tubing and release hanger (fish if necessary). POOH. TAC at 6677' and EOT @ 7343'.
- RIH w/ gauge ring and junk basket to ~5300'. RIH W/ 5-1/2" CBP set same @ ~5266'.
- Establish injection rate.
- R/U cement company and pump recommended cement job into perforations from 5016'-5226'. PUH. Reverse circulate tubing until clean. Apply appropriate pressure on balance plug. WOC.

**RECEIVED** August 17, 2010

- POOH. RIH w/ 4-3/4" bit. D-O balance plug. Pressure test casing and perforations to 1000 psi for 10 minutes. Resqueeze if necessary.
- TOOH. D-O CBP and C-O to PBTD @ ~7503'.
- Pooh w/ mill and lay down same. RIH W/ production tubing and land same at ~6100'.
- N/D BOP. N/U WH. RDMO.

**Perforations:**

Legal Well Name	Date	MD Top (ft)	MD Base (ft)	Shot Density (shot/ft)	STAGE	SQUEEZE INTERVAL
NBU 1021-19D	4/14/2008	5,016	5,017	2	STAGE #7	Squeeze Stage 232' of Perforations <b>Balance Plug</b>
NBU 1021-19D	4/14/2008	5,049	5,050	2		
NBU 1021-19D	4/14/2008	5,057	5,058	2		
NBU 1021-19D	4/14/2008	5,179	5,180	2		
NBU 1021-19D	4/14/2008	5,186	5,187	2		
NBU 1021-19D	4/14/2008	5,193	5,194	2		
NBU 1021-19D	4/14/2008	5,200	5,200	2		
NBU 1021-19D	4/14/2008	5,204	5,206	2		
NBU 1021-19D	4/14/2008	5,213	5,214	2		
NBU 1021-19D	4/14/2008	5,224	5,226	2		
<b>SET CBP</b>			<b>5,266</b>			
NBU 1021-19D	4/14/2008	5,246	5,248	2		
NBU 1021-19D	4/14/2008	5,414	5,415	2		
NBU 1021-19D	4/14/2008	5,421	5,422	2		
NBU 1021-19D	4/14/2008	5,421	5,422	2		
NBU 1021-19D	4/14/2008	5,473	5,474	2		
NBU 1021-19D	4/14/2008	5,495	5,496	2		
NBU 1021-19D	4/14/2008	5,580	5,582	2		
NBU 1021-19D	4/14/2008	5,586	5,588	2		
NBU 1021-19D	4/14/2008	5,646	5,648	2		
NBU 1021-19D	4/14/2008	5,656	5,658	2		
NBU 1021-19D	4/14/2008	5,666	5,668	2		
NBU 1021-19D	4/14/2008	5,798	5,800	2		
NBU 1021-19D	4/14/2008	5,826	5,827	2		
NBU 1021-19D	4/14/2008	5,877	5,878	2		
NBU 1021-19D	4/14/2008	5,905	5,906	2		
NBU 1021-19D	4/14/2008	5,945	5,946	2		
NBU 1021-19D	4/14/2008	5,962	5,964	2		
NBU 1021-19D	4/14/2008	6,002	6,003	2		
<b>FINAL EOT</b>			6,100			
NBU 1021-19D	4/14/2008	6,164	6,165	2		
NBU 1021-19D	4/14/2008	6,170	6,172	2		
NBU 1021-19D	4/14/2008	6,174	6,176	2		

NBU 1021-19D	4/14/2008	6,179	6,180	2
NBU 1021-19D	4/14/2008	6,216	6,218	2
NBU 1021-19D	4/14/2008	6,588	6,589	2
NBU 1021-19D	4/14/2008	6,593	6,594	2
NBU 1021-19D	4/14/2008	6,603	6,604	2
NBU 1021-19D	4/14/2008	6,608	6,610	2
NBU 1021-19D	4/14/2008	6,611	6,612	2
NBU 1021-19D	4/14/2008	6,635	6,636	2
<b>CURRENT TAC</b>			<b>6,677</b>	
NBU 1021-19D	4/14/2008	6,773	6,774	2
NBU 1021-19D	4/14/2008	6,786	6,788	2
NBU 1021-19D	4/14/2008	6,827	6,828	2
NBU 1021-19D	4/14/2008	6,853	6,854	2
NBU 1021-19D	4/14/2008	6,908	6,910	2
NBU 1021-19D	4/14/2008	7,010	7,002	2
NBU 1021-19D	4/14/2008	7,027	7,028	2
NBU 1021-19D	4/14/2008	7,149	7,150	2
NBU 1021-19D	4/14/2008	7,190	7,191	2
NBU 1021-19D	4/14/2008	7,193	7,194	2
NBU 1021-19D	4/14/2008	7,210	7,212	2
NBU 1021-19D	4/14/2008	7,219	7,220	2
NBU 1021-19D	4/14/2008	7,235	7,236	2
NBU 1021-19D	4/14/2008	7,239	7,240	2
<b>CURRENT EOT</b>			<b>7,343</b>	

<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> ML-22792
<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 1021-19D
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.	<b>9. API NUMBER:</b> 43047390050000
<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> 0974 FNL 0869 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWNW Section: 19 Township: 10.0S Range: 21.0E 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: 9/13/2010	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input checked="" 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 CONCLUDED WORKOVER OPERATIONS ON THE SUBJECT WELL. WORKOVER OPERATIONS CONSISTED OF WATER SHUT OFF BY PERFORATION SQUEEZE. THE INTERVAL OF THE SQUEEZE WORK WAS FROM 5016'-5226'. PLEASE SEE ATTACHED CHRONOLOGICAL WELL HISTORY.

Accepted by the  
 Utah Division of  
 Oil, Gas and Mining  
**FOR RECORD ONLY**  
 September 14, 2010

<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> 9/14/2010

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

Well: NBU 1021-19D      Spud Conductor: 12/15/2007      Spud Date: 1/7/2008  
 Project: UTAH-UINTAH      Site: NBU 1021-19D      Rig Name No: DOUBLE HOOK/JNK  
 Event: WELL WORK EXPENSE      Start Date: 9/3/2010      End Date: 9/13/2010  
 Active Datum: RKB @5,200.00ft (above Mean Sea Leve)      UWI: 0/10/S/21/E/19/0/NWNW/6/PM/N/637.00/W/0/755.00/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
9/3/2010	12:00 - 12:30	0.50	ALL	31	I	P		ROAD RIG TO LOCATION.
	12:30 - 13:00	0.50	ALL	48		P		HSM, REVIEW JSA # 11 ( NU & ND )
	13:00 - 16:00	3.00	MIRU	31	I	P		FCP. 75 PSI. SITP. 200 PSI., MIRU, CHANGED OVER TO RODS EQUIPMENT, REMOVE HORSES HEAD, UN SEATED PUMP, LD POLISH ROD, 8' X 6' X 4'X 7/8 PONY RODS, LD 30 SLICK 7/8 RODS ON TRAILER, RODS HAD THICK OIL & PARIFFIN ON RODS, PU POLISH ROD & FLUSH W/ 28 BBLS T-MAC DWN TBG, SWI FLOW CSG TO SALES, SDFWE.
9/7/2010	7:00 - 7:30	0.50	ALL	48		P		HSM, REVIEW JSA # 11 ( RU & RD )
	7:30 - 17:30	10.00	ALL	39	B	P		FCP. 75 PSI. TP. 0 PSI. RU ADLER HOT OIL, PUMP 40 BBLS @ 250 DEG DWN TBG, FINISH POOH LD 84- 7/8 " RODS, 186- 3/4 RODS & 20- 1-1/4 WT. BARS & PUMPON TRAILER, REMOVE TBG SLIP, WORKED & ATTEMPT TO RELEASE TAC, WOULD NOT RELEASE, RU PWR SWVL, ROTATED & WORKED TBG UP & DWN, PUMP 40 BBLS DWN CSG, TAC RELEASE FREE, NU BOPS, POOH S/B 210 JTS. 2-3/8 TBG J-55, TAC, 20 JTS, SN, 1 JNT. SWI, SDFN.
9/8/2010	7:00 - 7:30	0.50	ALL	48		P		HSM, REVIEW JSA # 9 ( TRIPPING IN TBG )
	7:30 - 12:00	4.50	ALL	31	I	P		SICP.350 PSI. BLEW CSG DWN, RU CUTTERS, RIH W/ 4.51" GAUGE RING & JUNK CATCHER I N 5-1/2" 17# CSG TO 5300', RIH 5-1/2 WEATHERFORD CBP & SET @ 5266', RD CUTTERS, RIH 2-3/8 TBG TO EOT @ 5236.10 W/ 165 JTS.
	12:00 - 18:30	6.50	ALL	51	A	P		RU PRO PETRO, TEST LINES TO 2000 PSI, ROLL HOLE CAUGHT CIRC W/ 70 BBLS @ 3.5 BPM W/ 3/4 BBL RETURN, ESTABLISH INJECTION RATE @ 3 BPM @ 800 PSI, ISIP 0 PSI. TOTAL 90 BBLS, POOH 2-3/8 TBG, RIH 5-1/2 CIRC ON 2-3/8 TBG, SET CIRC @ 4950.36' W/ 156 JTS. TEST TBG TO 2000 PSI. HELD, STUNG OUT, FILL CSG 7 BBLS, PUMP 10 BBLS FRESH WTR @ 3 BPM @ 500 PSI, PUMP 100 SKS CLASS G CMT W/ 2% CACL2, 20.4 BBLS, PUMP 125 SKS CLASS G NEAT CMT, 25.6 BBLS, DISPLACE W/ 4.1 BBLS FRESH WTR, SQUEEZE PERFS F/ 5016' TO 5226' TO 1900 PSI. HELD FOR 1 MIN, STUNG OUT, LD 1 JNT, REVERSE CIRC W/ 40 BBLS, RECOVER 15 BBLS CMT IN TBG, RD PRO PETRO, POOH S/B 155 JTS 2-3/8 TBG W/ STINGER, SWI, SDFN.
9/9/2010	7:00 - 7:30	0.50	ALL	48		P		HSM, REVIEW JSA # 5 ( USING PUMP )
	7:30 - 17:30	10.00	ALL	31	I	P		SICP. 0 PSI, PU & RIH W/ 4-3/4 ROCK BIT, BIT SUB, &156 JTS. 2-3/8 TBG, TAG CMT @ 4924', RU PWR SWVL, BROKE REVERSE CIRC, D/O CMT F/ 4924' TO CIRC TO 4950', DRLG ON CIRC FOR 2 HRS 45 MINS, D/O HARD CMT TO 5016', CIRC HOLE CLEAN, RD PWR SWVL, POOH 1JNT, EOT @ 4884', SWI, SDFN.
9/10/2010	7:00 - 7:30	0.50	ALL	48		P		HSM, REVIEW JSA # 8 ( PWR SWVL )
	7:30 - 8:00	0.50	ALL	31	I	P		SICP. 0 PSI. SITP 0 PSI, RIH 1JNT TAG CMT @ 5016' RU PWR SWVL.

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

Well: NBU 1021-19D		Spud Conductor: 12/15/2007		Spud Date: 1/7/2008	
Project: UTAH-UINTAH		Site: NBU 1021-19D		Rig Name No: DOUBLE HOOK/UNK	
Event: WELL WORK EXPENSE		Start Date: 9/3/2010		End Date: 9/13/2010	
Active Datum: RKB @5,200.00ft (above Mean Sea Leve) UWI: 0/10/S/21/E/19/0/NWNW/6/PM/N/637.00/W/0/755.00/0/0					

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	8:00 - 18:30	10.50	ALL	31	I	P		CAUGHT CIRC, STARTED D/O CMT F/ 5016' TO 5237' FELL FREE TAG CBP 5266', CIRC RETURNS CLEAN, PRESSURE TEST CSG & PERFORATIONS TO 1000 PSI. FOR 15 MINS, HELD. RU AIR FOAM UNIT W/ N2, BROKE CIRC IN 1 HR. UNLOADED & CLEAN HOLE, D/O CBP IN 10 MINS , HAD 200 PSI INCREASE, RD PWR SWVL, LD 13 JTS. ON TRAILER, RIH 231 JTS. TBG & TAG FILL @ 7328, LD 1 JNT, INSTALLED TSF, RU PWR SWVL, BROKE CIRC IN 1 HR. C/O F/ 7328' TO 7408' HIT OLD POBS, HARD DRLG, CIRC HOLE CLEAN, CONTROL TBG W/ 10 BBLS, REMOVE TSF, RD PWR SWVL, RD AIR FOAM UNIT & N2, POOH 20 JTS. EOT @ 6728', 213 JTS IN WELL, SWI. SDFWE. HSM, REVIEW JSA # 7 ( TRIPPING OUT TBG )
9/13/2010	7:00 - 7:30	0.50	ALL	48		P		SICP. 1300 PSI. SITP. 1000 PSI. BLEW DWN WELL, CONTROL TBG W/ 10 BBLS, POOH LD 42 JTS ON TRAILER, POOH 192 JTS. S/B & BHA, RIH 1.875 XN NOTCH NIPPLE & 192 JTS 2-3/8 J-55 TBG, BROACH TBG, GOOD, LAND TBG, ND FLOOR EQUIPMENT, ND BOPS, NU WH, RDMO. MOVE NBU 12.
	7:30 - 14:30	7.00	ALL	31	I	P		

TBG DETAIL

KB-----18'  
FMC HANGER-----83"  
192 JTS. J-55 8 RD EUE TBG @-----6079.48'  
1.875 XN NOTCH NIPPLE-----1.05'  
EOT @-----6099.36'  
WLTR. 200 BBLS.  
NEW PBD @ 7408'