

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

FORM 3

AMENDED REPORT   
(highlight changes)

<b>APPLICATION FOR PERMIT TO DRILL</b>			5. MINERAL LEASE NO: <b>STUO-01530-AST</b>	6. SURFACE: State
1A. TYPE OF WORK: DRILL <input checked="" type="checkbox"/> REENTER <input type="checkbox"/> DEEPEN <input type="checkbox"/>			7. IF INDIAN, ALLOTTEE OR TRIBE NAME:	
B. TYPE OF WELL: OIL <input type="checkbox"/> GAS <input checked="" type="checkbox"/> OTHER _____ SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input checked="" type="checkbox"/>			8. UNIT or CA AGREEMENT NAME: <b>UNIT #891008900A</b>	
2. NAME OF OPERATOR: <b>KERR MCGEE OIL &amp; GAS ONSHORE L.P.</b>			9. WELL NAME and NUMBER: <b>NBU 922-31P-3T</b>	
3. ADDRESS OF OPERATOR: <b>1368 S 1200 E</b> CITY <b>VERNAL</b> STATE <b>UT</b> ZIP <b>84078</b>		PHONE NUMBER: <b>(435) 781-7024</b>	10. FIELD AND POOL, OR WILDCAT: <b>NATURAL BUTTES</b>	
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: <b>491'FSL, 971'FEL</b> AT PROPOSED PRODUCING ZONE:			11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: <b>SESE 31 9S 22E</b>	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE: <b>22.3 MILES SOUTHEAST OF OURAY, UTAH</b>			12. COUNTY: <b>UINTAH</b>	13. STATE: <b>UTAH</b>
15. DISTANCE TO NEAREST PROPERTY OR LEASE LINE (FEET) <b>491'</b>	16. NUMBER OF ACRES IN LEASE: <b>120</b>	17. NUMBER OF ACRES ASSIGNED TO THIS WELL: <b>40.00</b>		
18. DISTANCE TO NEAREST WELL (DRILLING, COMPLETED, OR APPLIED FOR) ON THIS LEASE (FEET) <b>REFER TO TOPO C</b>	19. PROPOSED DEPTH: <b>9,200</b>	20. BOND DESCRIPTION: <b>RLB0005237</b>		
21. ELEVATIONS (SHOW WHETHER DF, RT, GR, ETC.): <b>5065'UNGRADED GL</b>	22. APPROXIMATE DATE WORK WILL START:	23. ESTIMATED DURATION:		

24. **PROPOSED CASING AND CEMENTING PROGRAM**

SIZE OF HOLE	CASING SIZE, GRADE, AND WEIGHT PER FOOT			SETTING DEPTH	CEMENT TYPE, QUANTITY, YIELD, AND SLURRY WEIGHT		
12 1/4"	9 5/8	H-40	32.3#	2,100	265 SX CLASS G	1.18 YIELD	15.6 PPG
7 7/8"	4 1/2	I-80	11.6#	9,200	1900 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 REGULATORY ANALYST

SIGNATURE *Sheila Upchego* DATE 8/25/2006

(This space for State use only)

API NUMBER ASSIGNED: 43-047-38564

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

APPROVAL:

Date: 10-23-06

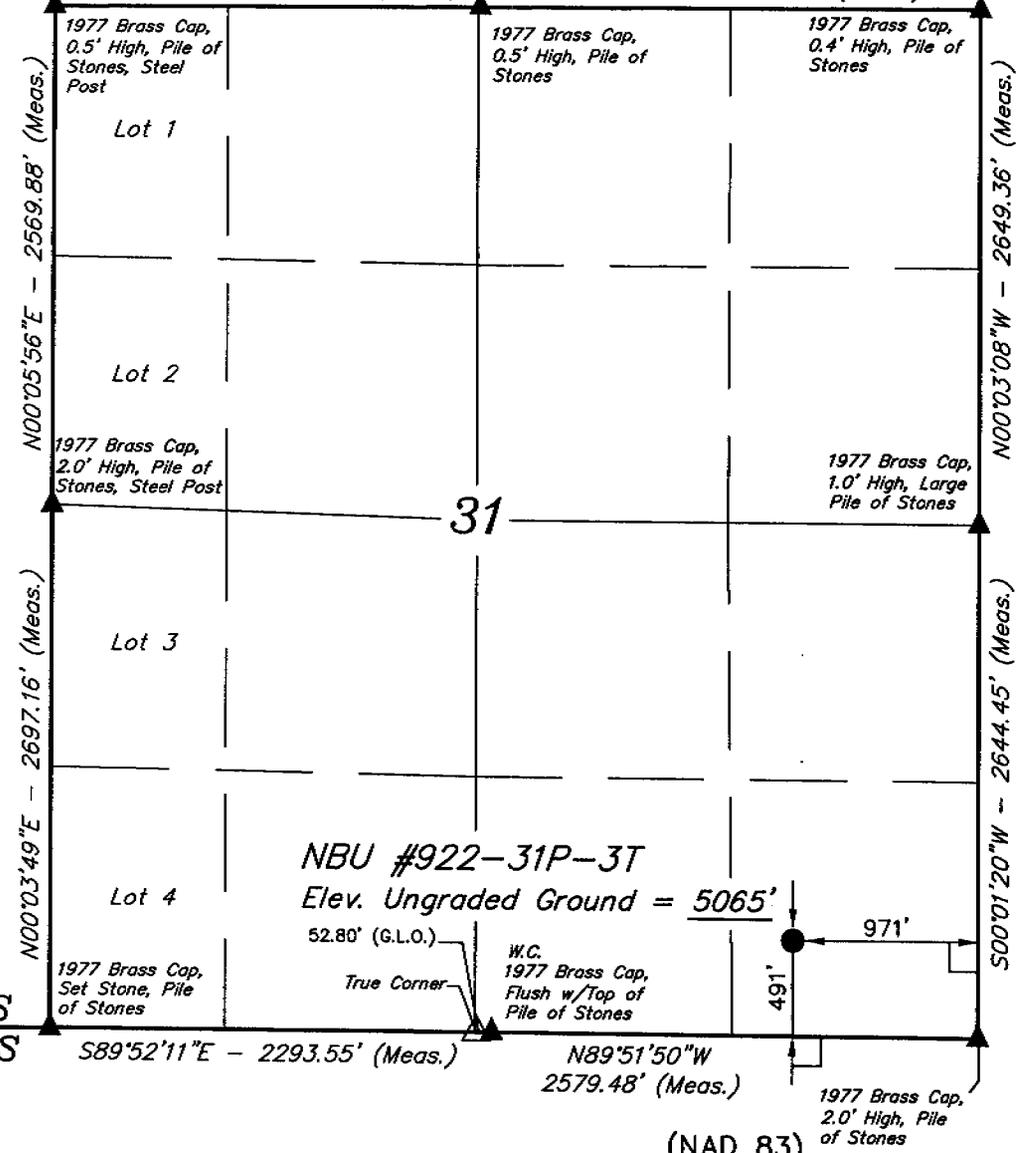
By: *Brad Pitt*

**RECEIVED  
SEP 01 2006**

DIV. OF OIL, GAS & MINING

R  
21  
E

T9S, R22E, S.L.B.&M.



NBU #922-31P-3T  
Elev. Ungraded Ground = 5065'

52.80' (G.L.O.)  
True Corner  
W.C.  
1977 Brass Cap,  
Flush w/Top of  
Pile of Stones

1977 Brass Cap,  
2.0' High, Pile  
of Stones

Kerr McGee Oil & Gas Onshore LP

Well location, NBU #922-31P-3T, located as shown in the SE 1/4 SE 1/4 of Section 31, T9S, R22E, 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, UINTAH COUNTY, 7.5 MINUTE SERIES (TOPOGRAPHICAL MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 5238 FEET.

BASIS OF BEARINGS

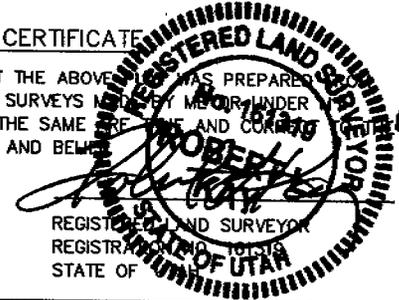
BASIS OF BEARINGS IS A G.P.S. OBSERVATION.



SCALE

CERTIFICATE

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



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

LEGEND:

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

(NAD 83)  
LATITUDE = 39°59'11.78" (39.986606)  
LONGITUDE = 109°28'36.28" (109.476744)  
(NAD 27)  
LATITUDE = 39°59'11.91" (39.986642)  
LONGITUDE = 109°28'33.81" (109.476058)

SCALE 1" = 1000'	DATE SURVEYED: 05-03-06	DATE DRAWN: 05-09-06
PARTY N.H. L.G. S.L.	REFERENCES G.L.O. PLAT	
WEATHER COOL	FILE Kerr McGee Oil & Gas Onshore LP	

NBU 922-31P-3T  
SESE SEC 31-T9S-R22E  
UINTAH COUNTY, UTAH  
UTSTUO-01530-A-ST

ONSHORE ORDER NO. 1

***DRILLING PROGRAM***

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

<u>Formation</u>	<u>Depth</u>
Uinta	0- Surface
Green River	1273'
Top of Birds Nest Water	1599'
Mahogany	2234'
Wasatch	4494'
Mesaverde	7066'
MVU2	7952'
MVL1	8559'
TD	9200'

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

<u>Substance</u>	<u>Formation</u>	<u>Depth</u>
Water	Green River	1273'
	Top of Birds Nest Water	1599'
	Mahogany	2234'
Gas	Wasatch	4494'
Gas	Mesaverde	7066'
Gas	MVU2	7952'
Gas	MVL1	8559'
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 9200' TD, approximately equals 5704 psi (calculated at 0.62 psi/foot).

Maximum anticipated surface pressure equals approximately 3680 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 August 25, 2006  
 WELL NAME NBU 922-31P-3T      TD 9,200'      MD/TVD  
 FIELD Natural Buttes      COUNTY Uintah      STATE Utah      ELEVATION 5,065'      GL KB 5,080'  
 SURFACE LOCATION SWESE SECTION 31, T9S, R22E 491°FSL, 971°FEL      BHL Straight Hole  
 Latitude: 39.986606      Longitude: 109.476744  
 OBJECTIVE ZONE(S) Wasatch/Mesaverde  
 ADDITIONAL INFO Regulatory Agencies: UDOGM, (SURF & MINERALS), BLM, Tri-County Health Dept.

GEOLOGICAL FORMATION			MECHANICAL		
LOGS	TOPS	DEPTH	HOLE SIZE	CASING SIZE	MUD WEIGHT
		40'		14"	
			12-1/4"	9-5/8", 32.3#, H-40, STC	Air mist
Catch water sample, if possible, from 0 to 4,494' Green River @ 1,273' Top of Birds Nest Water @ 1599' Preset f/ GL @ 2,100' MD					
Note: 12.25" surface hole will usually be drilled ±400' below the bottom of lost circulation zone. Drilled depth may be ±200' of the estimated set depth depending on the actual depth of the loss zone.					
	Mahogany (	2,234'			Water/Fresh Water Mud
Mud logging program TBD Open hole logging program f/ TD - surf csg			7-7/8"	4-1/2", 11.6#, 1-80 or equivalent LTC casing	8.3-11.7 ppg
	Wasatch @	4,494'			
	Mverde @	7,066'			
	MVU2 @	7,952'			
	MVL1 @	8,559'			
	TD @	9,200'			Max anticipated Mud required 11.7 ppg



# KERR-McGEE OIL & GAS ONSHORE LP DRILLING PROGRAM

## CASING PROGRAM

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS		
						BURST	COLLAPSE	TENSION
CONDUCTOR	14"	0-40'						
SURFACE	9-5/8"	0 to 2100	32.30	H-40	STC	2270	1370	254000
						0.64*****	1.39	4.28
PRODUCTION	4-1/2"	0 to 9200	11.60	I-80	LTC	7780	6350	201000
						2.18	1.13	2.16

- 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 = 11.7 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 3573 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 Option 1	LEAD	500	Premium cmt + 2% CaCl + .25 pps flocele	215	60%	15.60	1.18
	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	LEAD	1500	<b>NOTE: If well will circulate water to surface, option 2 will be utilized</b> 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	3,990'	Premium Lite II + 3% KCl + 0.25 pps celloflake + 5 pps gilsonite + 10% gel + 0.5% extender	440	60%	11.00	3.38
	TAIL	5,210'	50/50 Poz/G + 10% salt + 2% gel +.1% R-3	1460	60%	14.30	1.31

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

## FLOAT EQUIPMENT & CENTRALIZERS

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

## ADDITIONAL INFORMATION

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

BOPE: 11" 5M with one annular and 2 rams. Test to 5,000 psi (annular to 2,500 psi) prior to drilling out. Record on chart recorder &

tour sheet. Function test rams on each trip. Maintain safety valve & inside BOP on rig floor at all times. Kelly to be equipped with upper & lower kelly valves.

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

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

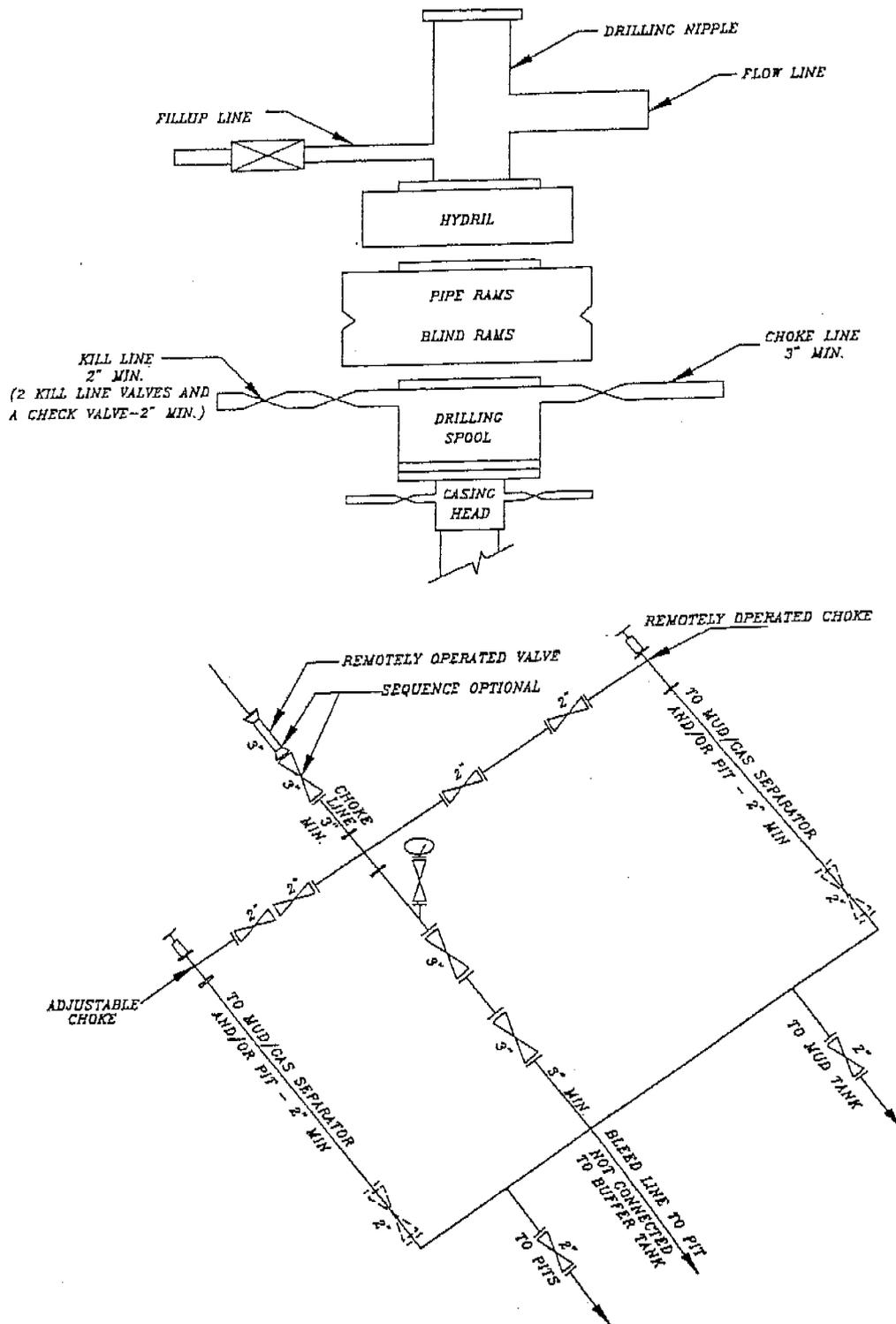
DRILLING ENGINEER: \_\_\_\_\_  
Brad Laney

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

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

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

# 5M BOP STACK and CHOKE MANIFOLD SYSTEM



NBU 922-31P-3T  
SESE SEC 31-T9S-R22E  
Uintah County, UT  
UTSTUO-01530-A-ST

ONSHORE ORDER NO. 1

*MULTI-POINT SURFACE USE & OPERATIONS PLAN*

1. **Existing Roads:**

Refer to Topo Map A for directions to the location.

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

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

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

2. **Planned Access Roads:**

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

**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.

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

Sheila Upchego  
Regulatory Analyst  
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

8/25/2006

\_\_\_\_\_  
Date

Kerr-McGee Oil & Gas Onshore LP  
NBU #922-31P-3T  
SECTION 31, T9S, R22E, S.L.B.&M.

PROCEED IN A WESTERLY DIRECTION FROM VERNAL, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 14.0 MILES TO THE JUNCTION OF STATE HIGHWAY 88; EXIT LEFT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 17.0 MILES TO OURAY, UTAH; PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 6.9 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHEAST; TURN LEFT AND PROCEED IN A SOUTHEASTERLY, THEN EASTERLY DIRECTION APPROXIMATELY 5.0 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHWEST; TURN LEFT AND PROCEED IN A NORTHWESTERLY DIRECTION APPROXIMATELY 0.3 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHEAST; TURN RIGHT AND PROCEED IN A NORTHEASTERLY DIRECTION APPROXIMATELY 3.8 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHEAST; PROCEED IN A NORTHEASTERLY DIRECTION APPROXIMATELY 0.9 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHWEST; TURN RIGHT AND PROCEED IN A SOUTHWESTERLY, THEN SOUTHEASTERLY DIRECTION APPROXIMATELY 4.0 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHEAST; TURN LEFT AND PROCEED IN A SOUTHEASTERLY, THEN EASTERLY, THEN NORTHWESTERLY DIRECTION APPROXIMATELY 1.3 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHWEST; TURN LEFT AND PROCEED IN A SOUTHWESTERLY DIRECTION APPROXIMATELY 0.1 MILES TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 53.3 MILES.

# Kerr-McGee Oil & Gas Onshore LP

## NBU #922-31P-3T

LOCATED IN UINTAH COUNTY, UTAH  
SECTION 31, T9S, R22E, S.L.B.&M.



PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: SOUTHEASTERLY



PHOTO: VIEW OF EXISTING ACCESS

CAMERA ANGLE: WESTERLY



- Since 1964 -

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

**LOCATION PHOTOS**

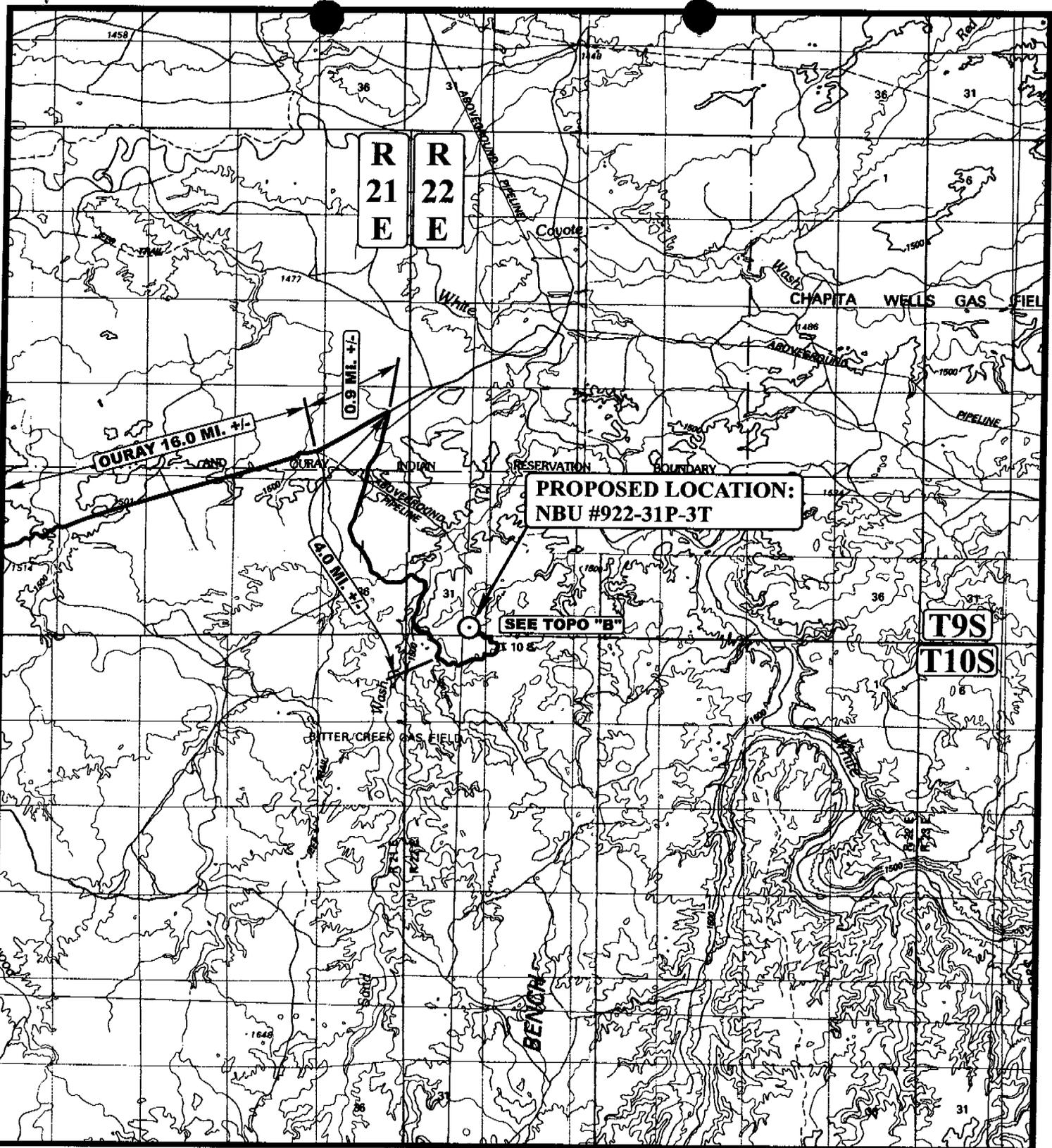
**05 12 06**  
MONTH DAY YEAR

**PHOTO**

TAKEN BY: N.H.

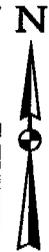
DRAWN BY: C.P.

REVISED: 00-00-00



**LEGEND:**

⊙ PROPOSED LOCATION



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

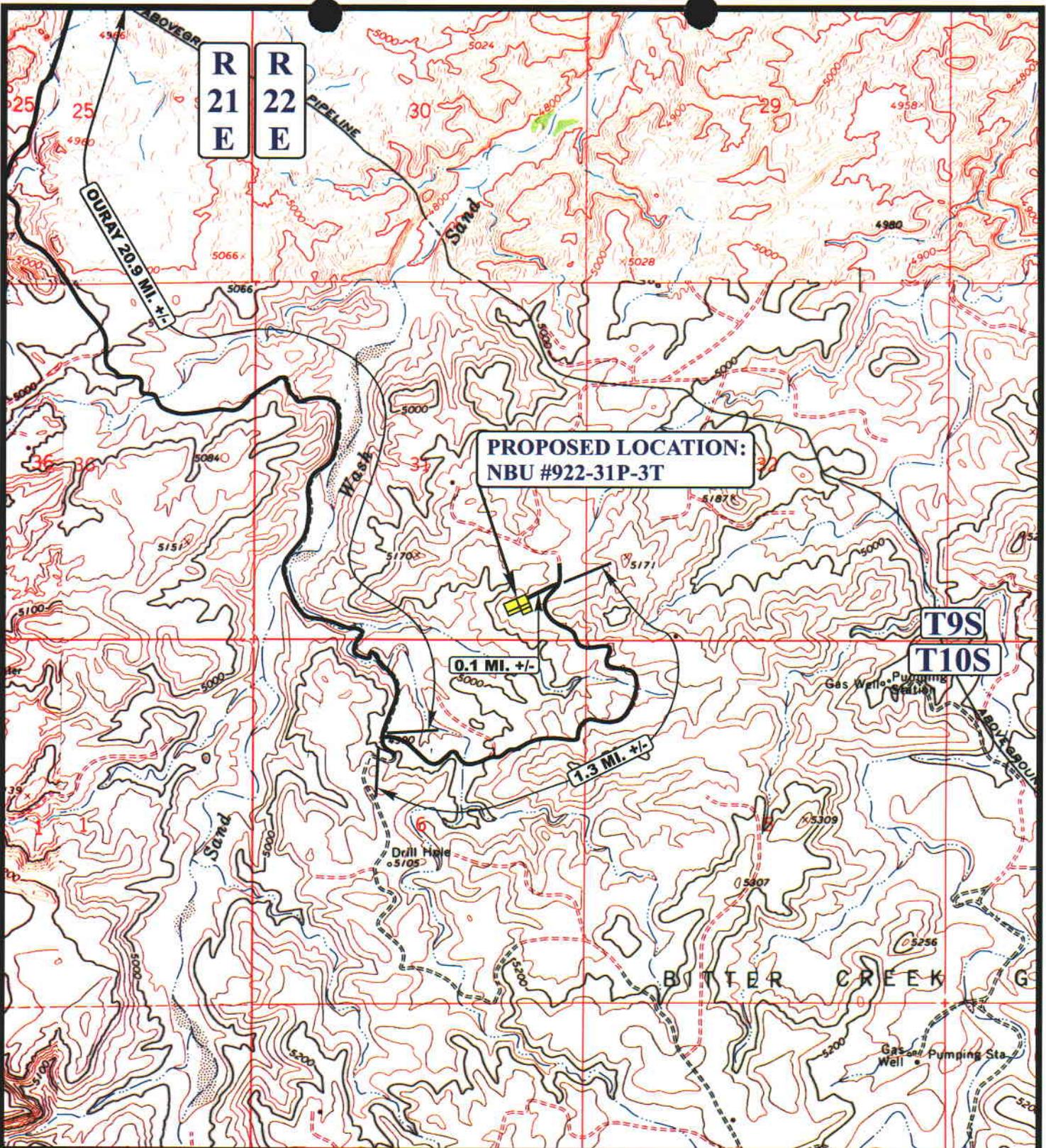
NBU #922-31P-3T  
 SECTION 31, T9S, R22E, S.L.B.&M.  
 491' FSL 971' FEL



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

TOPOGRAPHIC MAP  
 05 12 06  
 MONTH DAY YEAR  
 SCALE: 1:100,000 DRAWN BY: C.P. REVISED: 00-00-00





**LEGEND:**

— EXISTING ROAD

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

**NBU #922-31P-3T**

**SECTION 31, T9S, R22E, S.L.B.&M.**

**491' FSL 971' FEL**



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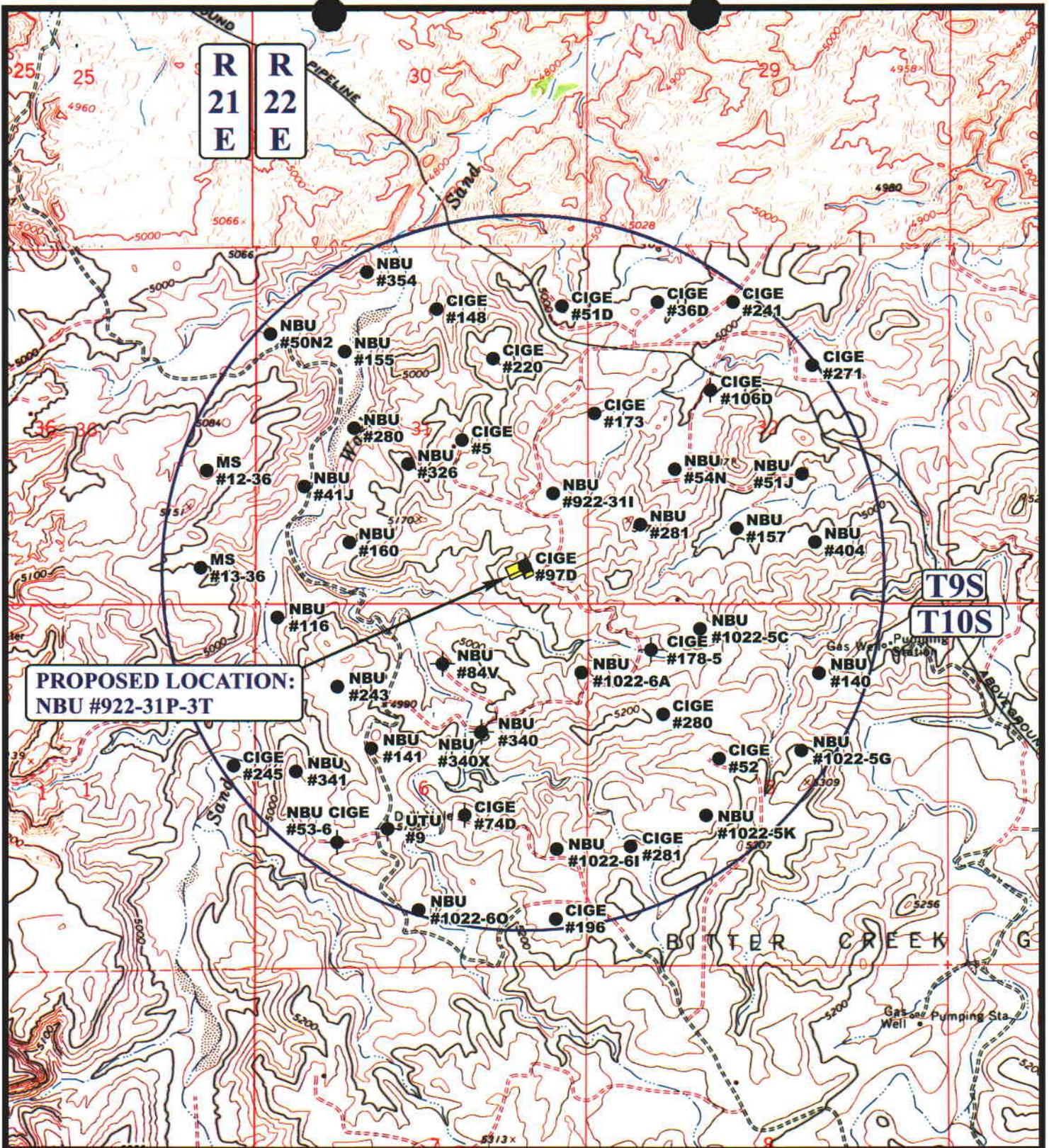


**TOPOGRAPHIC  
MAP**

<b>05</b>	<b>12</b>	<b>06</b>
MONTH	DAY	YEAR

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





**LEGEND:**

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

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

**NBU #922-31P-3T**  
**SECTION 31, T9S, R22E, S.L.B.&M.**  
**491' FSL 971' FEL**



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



**TOPOGRAPHIC**  
**MAP**

**05 12 06**  
 MONTH DAY YEAR

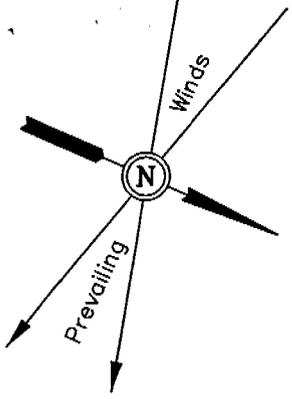
SCALE: 1" = 2000' DRAWN BY: C.P. REVISED: 00-00-00



# Key-McGee Oil & Gas Onshore LP

**FIGURE #1**

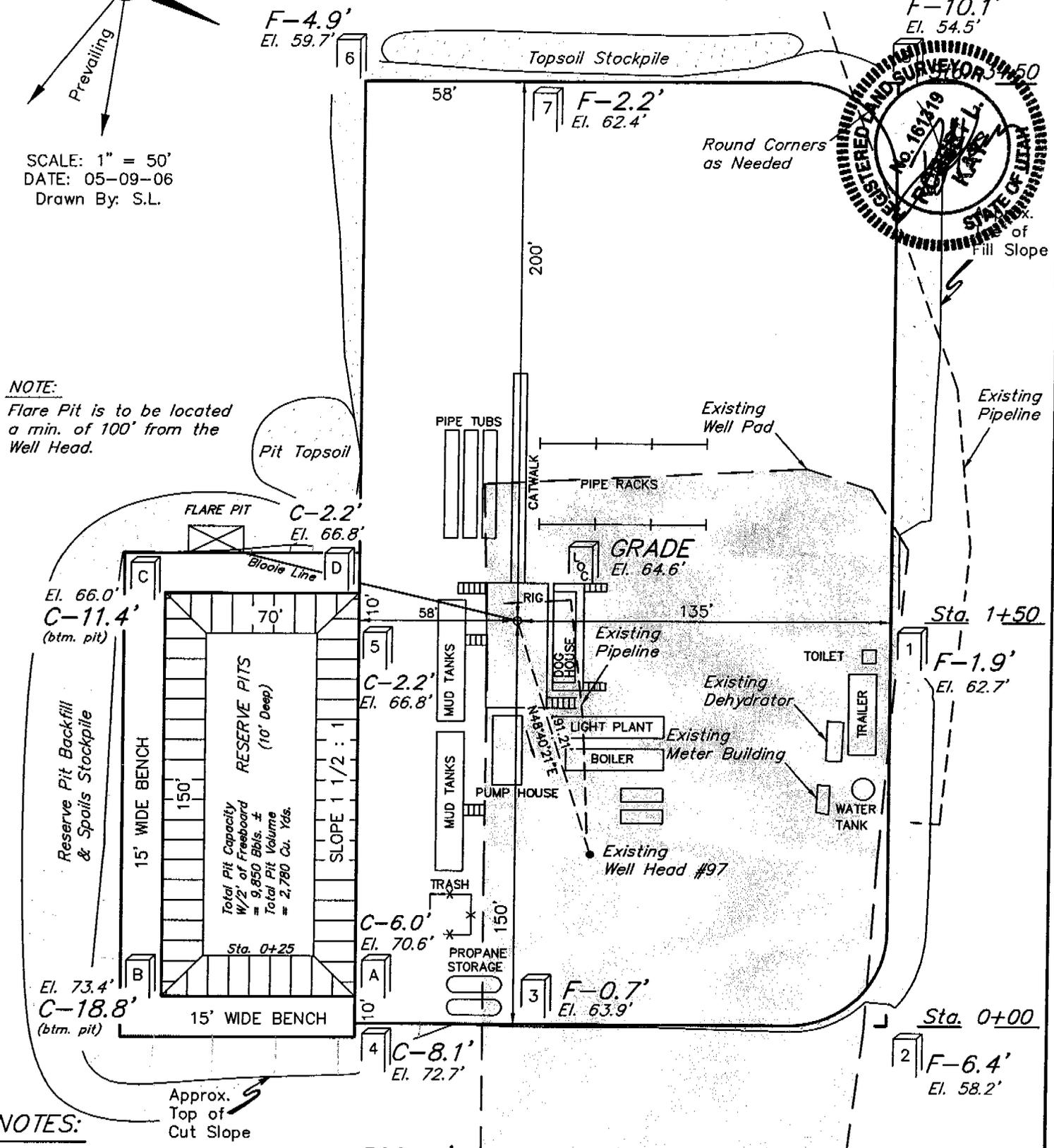
LOCATION LAYOUT FOR  
 NBU #922-31P-3T  
 SECTION 31, T9S, R22E, S.L.B.&M.  
 491' FSL 971' FEL



SCALE: 1" = 50'  
 DATE: 05-09-06  
 Drawn By: S.L.



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



**NOTES:**  
 Elev. Ungraded Ground At Loc. Stake = 5064.6'  
 FINISHED GRADE ELEV. AT LOC. STAKE = 5064.6'

# Kerr-McGee Oil & Gas Onshore LP

FIGURE #2

## TYPICAL CROSS SECTIONS FOR

NBU #922-31P-3T

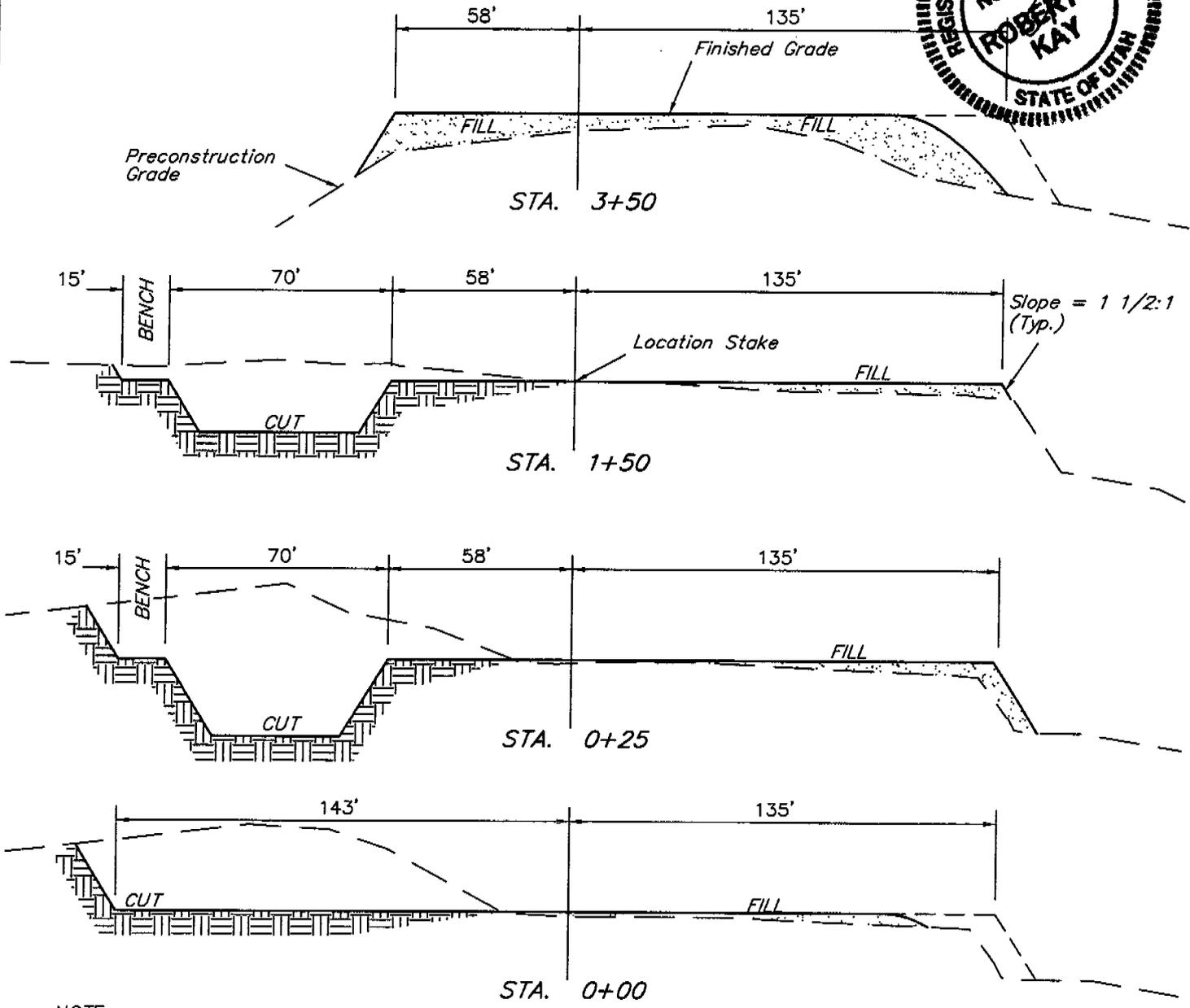
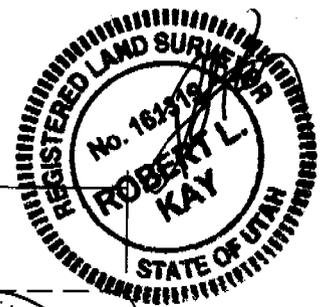
SECTION 31, T9S, R22E, S.L.B.&M.

491' FSL 971' FEL

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

DATE: 05-09-06

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**

CUT	
(6") Topsoil Stripping	= 1,000 Cu. Yds.
Remaining Location	= 6,210 Cu. Yds.
<b>TOTAL CUT</b>	<b>= 7,210 CU.YDS.</b>
<b>FILL</b>	<b>= 6,150 CU.YDS.</b>

EXCESS MATERIAL	= 1,060 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	= 2,390 Cu. Yds.
DEFICIT UNBALANCE (After Interim Rehabilitation)	= <1,330> Cu. Yds.

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

**WORKSHEET  
APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 09/01/2001

API NO. ASSIGNED: 43-047-38564

WELL NAME: NBU 922-31P-3T  
 OPERATOR: KERR-MCGEE OIL & GAS ( N2995 )  
 CONTACT: SHEILA UPCHEGO

PHONE NUMBER: 435-781-7024

PROPOSED LOCATION:  
 SESE 31 090S 220E  
 SURFACE: 0491 FSL 0971 FEL  
 BOTTOM: 0491 FSL 0971 FEL  
 COUNTY: UINTAH  
 LATITUDE: 39.98665 LONGITUDE: -109.4759  
 UTM SURF EASTINGS: 630125 NORTHINGS: 4427178  
 FIELD NAME: NATURAL BUTTES ( 630 )

INSPECT LOCATN BY: / /		
Tech Review	Initials	Date
Engineering	<i>[Signature]</i>	10/20/00
Geology		
Surface		

LEASE TYPE: 3 - State  
 LEASE NUMBER: STUO-01530-AST  
 SURFACE OWNER: 3 - State

PROPOSED FORMATION: WSMVD  
 COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

Plat

Bond: Fed[] Ind[] Sta[] Fee[]  
 (No. RLB0005236 )

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

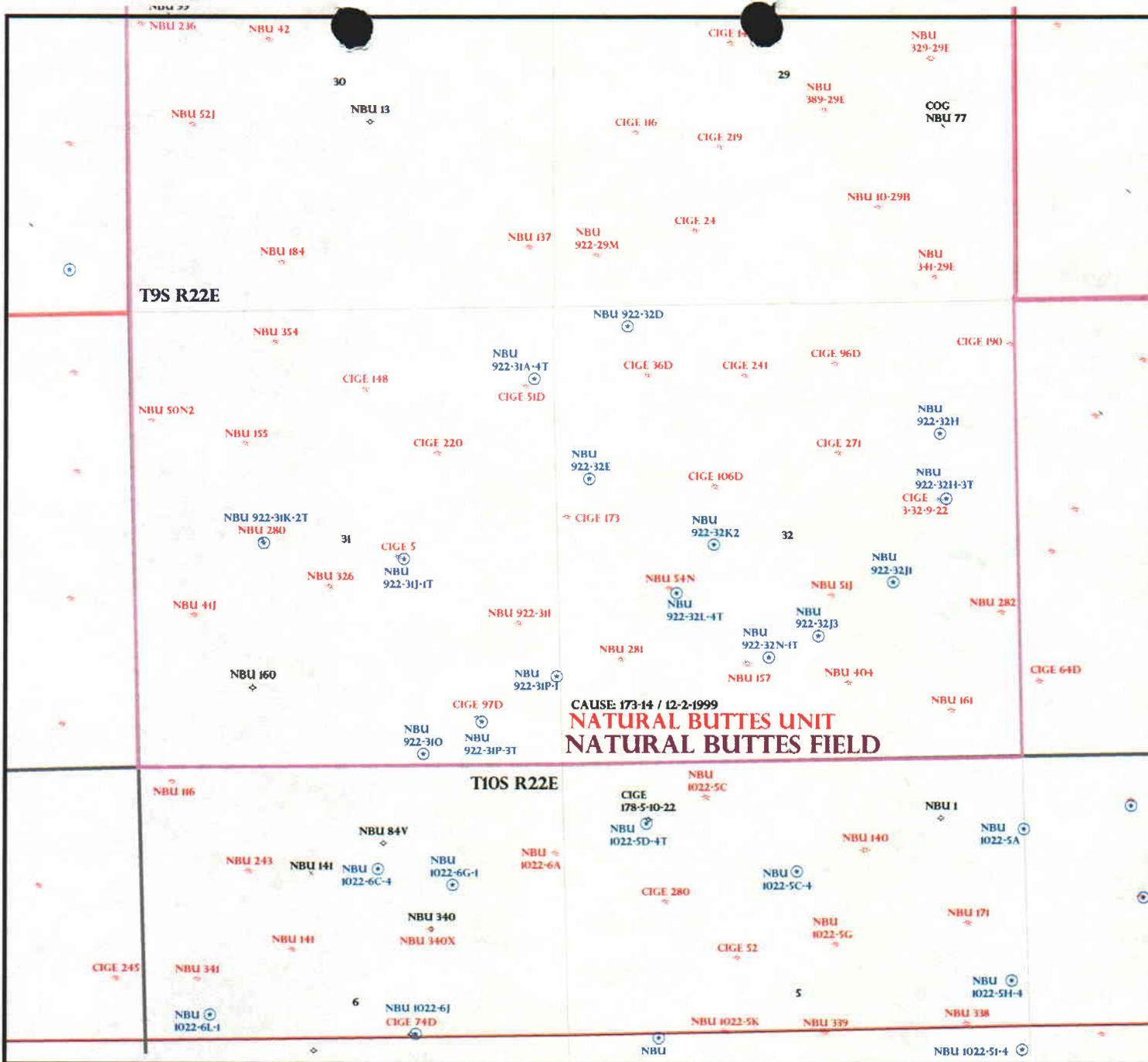
R649-3-3. Exception

Drilling Unit  
 Board Cause No: 17314  
 Eff Date: 12-2-99  
 Siting: 420' by 1/2 mile by 1/2 mile approx. Tracts

R649-3-11. Directional Drill

COMMENTS: Needs Permit (10-03-06)

STIPULATIONS: 1 - STATEMENT OF BASIS  
2 - OIL SURVEY  
3 - Surf Cg Cont St. P



OPERATOR: KERR MCGEE O&G (N2995)  
 SEC: 31,32 T.9S R. 22E  
 FIELD: NATURAL BUTTES (630)  
 COUNTY: UINTAH  
 CAUSE: 173-14 / 12-2-1999

Field Status	Unit Status
ABANDONED	EXPLORATORY
ACTIVE	GAS STORAGE
COMBINED	NF PP OIL
INACTIVE	NF SECONDARY
PROPOSED	PENDING
STORAGE	PI OIL
TERMINATED	PP GAS
	PP GEOTHERML
	PP OIL
	SECONDARY
	TERMINATED

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



PREPARED BY: DIANA WHITNEY  
 DATE: 15-SEPTEMBER-2006

# Application for Permit to Drill

## Statement of Basis

10/5/2006

Utah Division of Oil, Gas and Mining

Page 1

APD No	API WellNo	Status	Well Type	Surf Ownr	CBM
105	43-047-38564-00-00		GW	S	No
<b>Operator</b>	KERR-MCGEE OIL & GAS ONSHORE, LP	<b>Surface Owner-APD</b>			
<b>Well Name</b>	NBU 922-31P-3T	<b>Unit</b>			
<b>Field</b>	UNDESIGNATED	<b>Type of Work</b>			
<b>Location</b>	SESE 31 9S 22E S 0 FL 0 FL GPS Coord (UTM) 630125E 4427178N				

### Geologic Statement of Basis

Kerr McGee proposes to set 2,100' of surface casing at this location. The depth to the base of the moderately saline water at this location is estimated to be at a depth of 3,000'. A search of Division of Water Rights records shows no water wells within a 10,000 foot radius of the center of section 31. 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. The proposed surface casing and cement should adequately protect ground water in this area.

Brad Hill  
APD Evaluator

10/5/2006  
Date / Time

### Surface Statement of Basis

The proposed well is on a existing pad which will be extended. Both the surface and minerals are SITLA.

The general area is the Sand Wash drainage of Uintah, County. Sand Wash is approximately 36 air miles south of Vernal, Utah and approximately 24 miles southeast of Ouray, Utah. Access is by State of Utah Highway, Uintah County and oilfield development roads.

Topography is characterized by broad open flats dissected by numerous sub-drainages, which often become steep with ridges and draws with exposed sandstone layers. No perennial streams occur in drainage. Individual draws or washes are ephemeral with spring runoff or flows from sometimes-intense summer rainstorms. White River is to the northeast about 1 1/2 miles. No springs exist in the area. An occasional constructed pond occurs furnishing water for antelope or livestock.

The existing pad will be extended to the south and east to the break of the ridge.

Ben Williams of the UDWR was invited to and attended the presite. He stated the general area is classified as critical yearlong antelope range, however he did not recommend any stipulations, as water is the limiting factor affecting the population not forage. Also, no other wildlife are expected to be affected. He provided Jim Davis of SITLA and Carrol Estes of Kerr-Mcgee a copy of his wildlife evaluation and a seed mix recommended by DWR to be used in reseeding the location.

Floyd Bartlett  
Onsite Evaluator

10/3/2006  
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 922-31P-3T  
**API Number** 43-047-38564-0      **APD No** 105      **Field/Unit** UNDESIGNATED  
**Location:** 1/4,1/4 SESE      **Sec** 31      **Tw** 9S      **Rng** 22E      0 FL 0 FL  
**GPS Coord (UTM)**      **Surface Owner**

## Participants

Floyd Bartlett (DOGM), Carol Estes, B J Braithwaite, Tony Kazeck and Clay Einerson (Kerr McGee), David Kay (Uintah Engineering & Land Survey), Jim Davis (SITLA), Ben Williams (UDWR)

## Regional/Local Setting & Topography

The proposed well is on a existing pad which will be extended.

General area is the Sand Wash Drainage of Uintah, County. Sand Wash is approximately 36 air miles south of Vernal, Utah and approximately 24 miles southeast of Ouray, Utah. Access is by State of Utah Highway, Uintah County and oilfield development roads.

Topography is characterized by broad open flats dissected by numerous sub-drainages, which often become steep with ridges and draws with exposed sandstone layers. No perennial streams occur in drainage. Individual draws or washes are ephemeral with spring runoff or flows from sometimes-intense summer rainstorms. White River is to the northeast about 1 1/2 miles. No springs exist in the area. An occasional constructed pond occurs furnishing water for antelope or livestock.

The existing pad will be extended to the south and east to the break of the ridge.

## Surface Use Plan

### **Current Surface Use**

Existing Well Pad  
Wildlfe Habitat  
Grazing

### **New Road**

<b>Miles</b>	<b>Well Pad</b>	<b>Src Const Material</b>	<b>Surface Formation</b>
0	<b>Width</b> 263 <b>Length</b> 350	Onsite	UNTA

**Ancillary Facilities** N

## Waste Management Plan Adequate? Y

## Environmental Parameters

**Affected Floodplains and/or Wetland** N

### **Flora / Fauna**

Shadscale, budsage, halogeton, cheatgrass, annual mustard, Gardiner saltbrush, Black sage, rabbitbrush.

Antelope, small mammals and birds.

### **Soil Type and Characteristics**

Gravelly-rocky sandy loam. Shallow in depth.

Erosion Issues N

Sedimentation Issues N

Site Stability Issues N

Drainage Diversion Required N

Berm Required? Y

Around storage tank

Erosion Sedimentation Control Required? N

Paleo Survey Run? Y

Paleo Potential Observed? N

Cultural Survey Run? Y

Cultural Resources?

Reserve Pit

**Site-Specific Factors**

**Site Ranking**

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

**Final Score** 35 1 **Sensitivity Level**

**Characteristics / Requirements**

150' x 70' x 10' deep located on the south east side of the location in an area of cut. The operator has a standard practice of lining all pits with a 20 mil. liner and 2 layers of felt underlayment.

**Closed Loop Mud Required?** N

**Liner Required?** Y

**Liner Thickness** 20

**Pit Underlayment Required?** Y

Other Observations / Comments

Ben Williams of the UDWR was invited to and attended the presite. He stated the general area is classified as critical yearlong antelope range, however he did not recommend any stipulations, as water is the limiting factor affecting the population not forage. Also, no other wildlife are expected to be affected. He provided Jim Davis of SITLA and Carrol Estes of Kerr-Mcgee a copy of his wildlife evaluation and a seed mix recommended by DWR to be used in reseeding the location.

Floyd Bartlett

**Evaluator**

10/3/2006

**Date / Time**

Casing Schematic

Surface

12 1/8  
18 1/2

BHP  
 $(0.052)(9200)11.7 = 5597 \text{ psi}$   
anticipate 5704

TOC @ 0. Winter cont to surface w/5% w/o  
✓ cont strip

TOC @ 741.

-1273' Green River  
-1591' Birds Nest Water  
-1765' TOC tail

-2234' Surface Mahogany  
2100. MD

Gas

$(.12)(9200) = 1104$   
 $5597 - 1104 = 4493 \text{ psi MASP}$   
MW 8.4  
Frac 19.3

BOPE - 5 M ✓

Burst 2270  
70% = 1589

Max @ CSG shoe  
 $9200 - 2100 = 7100$   
 $(.22)7100 = 1562 \text{ psi}$   
 $5597 - 1562 = 4035 \text{ psi}$

-3106' TOC tail

-4494' Wasatch

✓

-7066' Mesaverde

-7952' MV U2

-8559' MV L1

Test to 1589 psi ✓  
Propose 1500 psi O.K.

✓ ⇒ Strip surf. cont

✓ Adequate O.K.  
10/25/06

4-1/2"  
MW 11.7

Production  
9200. MD

Well name:	<b>2006-10 Kerr McGee NBU 922-31P-3T</b>	
Operator:	<b>Kerr McGee Oil &amp; Gas Onshore L.P.</b>	
String type:	Surface	Project ID: 43-047-38564
Location:	Uintah County, Utah	

**Design parameters:**

**Collapse**

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

**Burst**

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

No backup mud specified.

**Minimum design factors:**

**Collapse:**

Design factor: 1.125

**Burst:**

Design factor: 1.00

**Tension:**

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

Tension is based on buoyed weight.  
Neutral point: 1,841 ft

**Environment:**

H2S considered? No  
Surface temperature: 75 °F  
Bottom hole temperature: 104 °F  
Temperature gradient: 1.40 °F/100ft  
Minimum section length: 1,500 ft

Cement top: 741 ft

**Non-directional string.**

**Re subsequent strings:**

Next setting depth: 9,200 ft  
Next mud weight: 11.700 ppg  
Next setting BHP: 5,592 psi  
Fracture mud wt: 19.250 ppg  
Fracture depth: 2,100 ft  
Injection pressure: 2,100 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	2100	9.625	32.30	H-40	ST&C	2100	2100	8.876	927.9
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	916	1370	1.495 ✓	2100	2270	1.08 ✓	59	254	4.27 J ✓

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

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

Date: October 11, 2006  
Salt Lake City, Utah

**Remarks:**

Collapse is based on a vertical depth of 2100 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>2006-10 Kerr McGee NBU 922-31P-3T</b>		
Operator:	<b>Kerr McGee Oil &amp; Gas Onshore L.P.</b>		
String type:	Production	Project ID:	43-047-38564
Location:	Uintah County, Utah		

**Design parameters:**

**Collapse**  
 Mud weight: 11.700 ppg  
 Design is based on evacuated pipe.

**Minimum design factors:**

**Collapse:**  
 Design factor 1.125

**Environment:**

H2S considered? No  
 Surface temperature: 75 °F  
 Bottom hole temperature: 204 °F  
 Temperature gradient: 1.40 °F/100ft  
 Minimum section length: 1,500 ft

**Burst**

Max anticipated surface pressure: 3,568 psi  
 Internal gradient: 0.220 psi/ft  
 Calculated BHP 5,592 psi

No backup mud specified.

**Burst:**

Design factor 1.00

Cement top: Surface

**Tension:**

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

**Non-directional string.**

Tension is based on buoyed weight.  
 Neutral point: 7,591 ft

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	9200	4.5	11.60	I-80	LT&C	9200	9200	3.875	802.9
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	5592	6360	1.137 ✓	5592	7780	1.39 ✓	88	212	2.41 J ✓

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

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

Date: October 11, 2006  
 Salt Lake City, Utah

**Remarks:**

Collapse is based on a vertical depth of 9200 ft, a mud weight of 11.7 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)

September 19, 2006

### Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2006 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 2006 within the Natural Buttes Unit, Uintah County, Utah.

API #	WELL NAME	LOCATION
-------	-----------	----------

(Proposed PZ Wasatch/MesaVerde)

43-047-38560	NBU 922-31P-1	Sec 31 T09S R22E 1007 FSL 0107 FEL
43-047-38561	NBU 922-31A-4T	Sec 31 T09S R22E 0852 FNL 0301 FEL
43-047-38567	NBU 922-32N-1T	Sec 32 T09S R22E 1200 FSL 2329 FWL
43-047-38569	NBU 922-32H-3T	Sec 32 T09S R22E 2302 FNL 0891 FEL
43-047-38570	NBU 1022-7H-4	Sec 07 T10S R22E 2488 FNL 0227 FEL
43-047-38571	NBU 1022-7B-3T	Sec 07 T10S R22E 0967 FNL 2042 FEL
43-047-38562	NBU 1022-10C-1	Sec 10 T10S R22E 0104 FNL 2193 FWL

The following wells are twins of existing Wasatch wells

43-047-38564	NBU 922-31P-3T	Sec 31 T09S R22E 0491 FSL 0971 FEL
43-047-38565	NBU 922-31K-2T	Sec 31 T09S R22E 2589 FSL 1435 FWL
43-047-38566	NBU 922-31J-1T	Sec 31 T09S R22E 2383 FSL 1826 FEL
43-047-38568	NBU 922-32L-4T	Sec 32 T09S R22E 1954 FSL 1286 FWL

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

/s/ Michael L. Coulthard

**From:** Ed Bonner  
**To:** Whitney, Diana  
**Date:** 10/3/2006 1:43:10 PM  
**Subject:** Well Clearance

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

**Dominion E&P, Inc**

Kings Canyon 2-32E (API 43 047 38261)  
Kings Canyon 9-32E (API 43 047 38262)  
Kings Canyon 11-32E (API 43 047 38378)  
LCU 3-36F (API 43 047 37986)  
LCU 6-36F (API 43 047 37999)  
LCU 8-36F (API 43 047 37988)  
LCU 10-36F (API 43 047 37987)  
LCU 13-36F (API 43 047 37989)  
LCU 15-36F (API 43 047 38260) 1 significant site which must be avoided  
LCU 11-36F (API 43 047 38026)

**Fellows Energy, LLC**

Gordon Creek State 4-7-14-8 (API 43 007 31230)  
Gordon Creek State 1-7-14-8 (API 43 007 31231)  
Gordon Creek State 3-7-14-8 (API 43 007 31232)  
Gordon Creek State 3-20-14-8 (API 43 007 31233)  
Gordon Creek State 2-29-14-8 (API 43 007 31234) 1 significant site in access/pipeline corridor which must be avoided  
Gordon Creek State 1-30-14-8 (API 43 007 31235) 1 significant site in access/pipeline corridor which must be avoided

**Gasco Production Company**

State 4-32A (API 43 047 38533)

**Kerr McGee Oil & Gas Onshore LP**

NBU 922-32L-4T (API 43 047 38568)  
NBU 922-31A-4T (API 43 047 38561)  
NBU 922-31J-1T (API 43 047 38566)  
NBU 922-31K-2T (API 43 047 38565)  
NBU 922-31P-3T (API 43 047 38564)  
NBU 922-31P-1 (API 43 047 38560)  
NBU 1022-7B-3T (API 43 047 38571)  
NBU 1022-10C-1 (API 43 047 38562)

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

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



**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*

October 23, 2006

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

Re: Natural Buttes Unit 922-31P-3T Well, 491' FSL, 971' FEL, SE SE, Sec. 31,  
T. 9 South, R. 22 East, Uintah County, Utah

Gentlemen:

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

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-047-38564.

Sincerely,

Gil Hunt  
Associate Director

pab  
Enclosures

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

Operator: Kerr-McGee Oil & Gas Onshore LP  
Well Name & Number Natural Buttes Unit 922-31P-3T  
API Number: 43-047-38564  
Lease: STUO-01530-AST

Location: SE SE                      Sec. 31                      T. 9 South                      R. 22 East

### Conditions of Approval

1. **General**

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

2. **Notification Requirements**

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

- 24 hours prior to cementing or testing casing
- 24 hours prior to testing blowout prevention equipment
- 24 hours prior to spudding the well
- within 24 hours of any emergency changes made to the approved drilling program
- prior to commencing operations to plug and abandon the well

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

- Dan Jarvis at (801) 538-5338
- Carol Daniels at (801) 538-5284 (spud)

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)

Page 2

43-047-38564

October 23, 2006

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

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>		5. LEASE DESIGNATION AND SERIAL NUMBER: <b>STUO-01530-AST</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 921-31P-3T 922-31P-3T</b>
3. ADDRESS OF OPERATOR: <b>1368 SOUTH 1200 EAST CITY VERNAL STATE UT ZIP 84078</b>		9. API NUMBER: <b>43-047-38564</b>
4. LOCATION OF WELL FOOTAGES AT SURFACE: <b>491'FSL, 971'FEL</b>		10. FIELD AND POOL, OR WILDCAT: <b>NATURAL BUTTES</b>
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: <b>SESE 31 9S 22E</b>		COUNTY: <b>UINTAH</b>
		STATE: <b>UTAH</b>

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" 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"/> 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 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 type="checkbox"/> OTHER: _____
	<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 10/03/2006 WITH THE DIVISION OF OIL, GAS AND MINING. IT WAS DECIDED TO LOWER THE LOCATION TO GET THE MATERIAL FOR THE LOCATION. THE PIPELINE IS APPROXIMATELY 4400' +/- OF 4" PIPELINE FROM THE PROPOSED LOCATION TO AND EXISTING PIPELINE.

PLEASE REFER TO THE ATTACHED LOCATION LAYOUT, TYPICAL CROSS SECTIONS AND TOPO MAP D FOR PIPELINE PLACEMENT.

NAME (PLEASE PRINT) <u>SHEILA UPCHEGO</u>	TITLE <u>REGULATORY ANALYST</u>
SIGNATURE	DATE <u>10/20/2006</u>

(This space for State use only)

Accepted by the  
Utah Division of  
Oil, Gas and Mining  
**For Record Only**  
(See Instructions on Reverse Side)

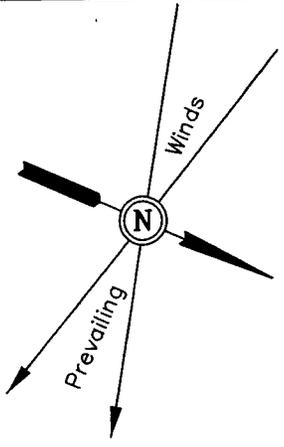
(5/2000)

**RECEIVED**  
**NOV 01 2006**  
DIV. OF OIL, GAS & MINING

# Kerr-McGee Oil & Gas Onshore LP

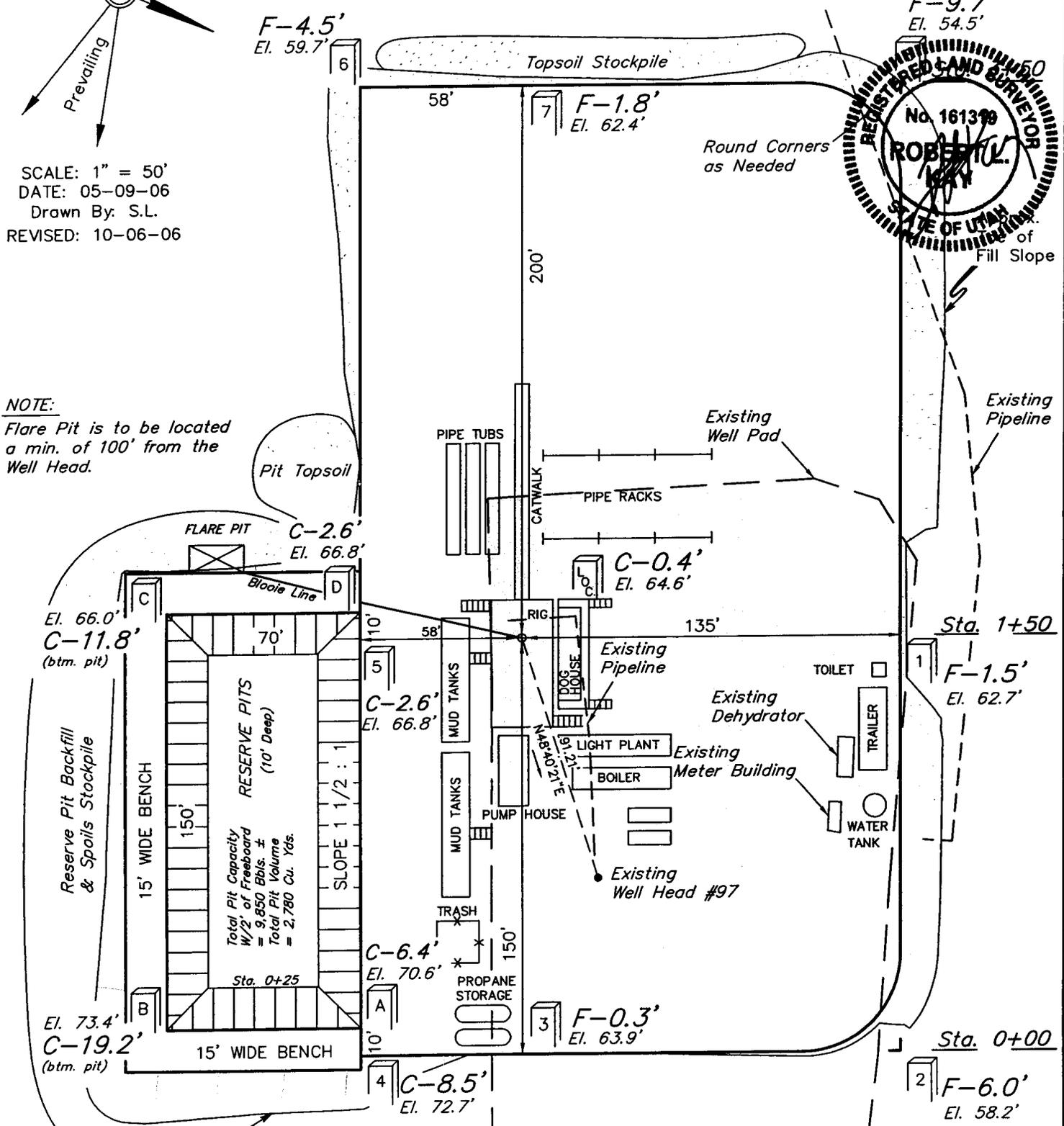
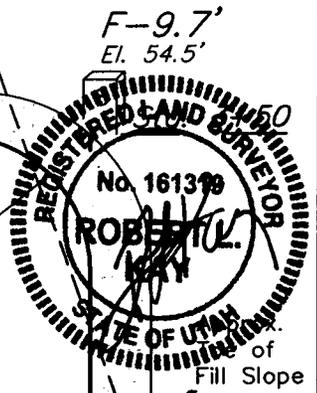
**FIGURE #1**

LOCATION LAYOUT FOR  
 NBU #922-31P-3T  
 SECTION 31, T9S, R22E, S.L.B.&M.  
 491' FSL 971' FEL



SCALE: 1" = 50'  
 DATE: 05-09-06  
 Drawn By: S.L.  
 REVISED: 10-06-06

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



**NOTES:**  
 Approx. Top of Cut Slope  
 Elev. Ungraded Ground At Loc. Stake = 5064.6'  
 FINISHED GRADE ELEV. AT LOC. STAKE = 5064.2'

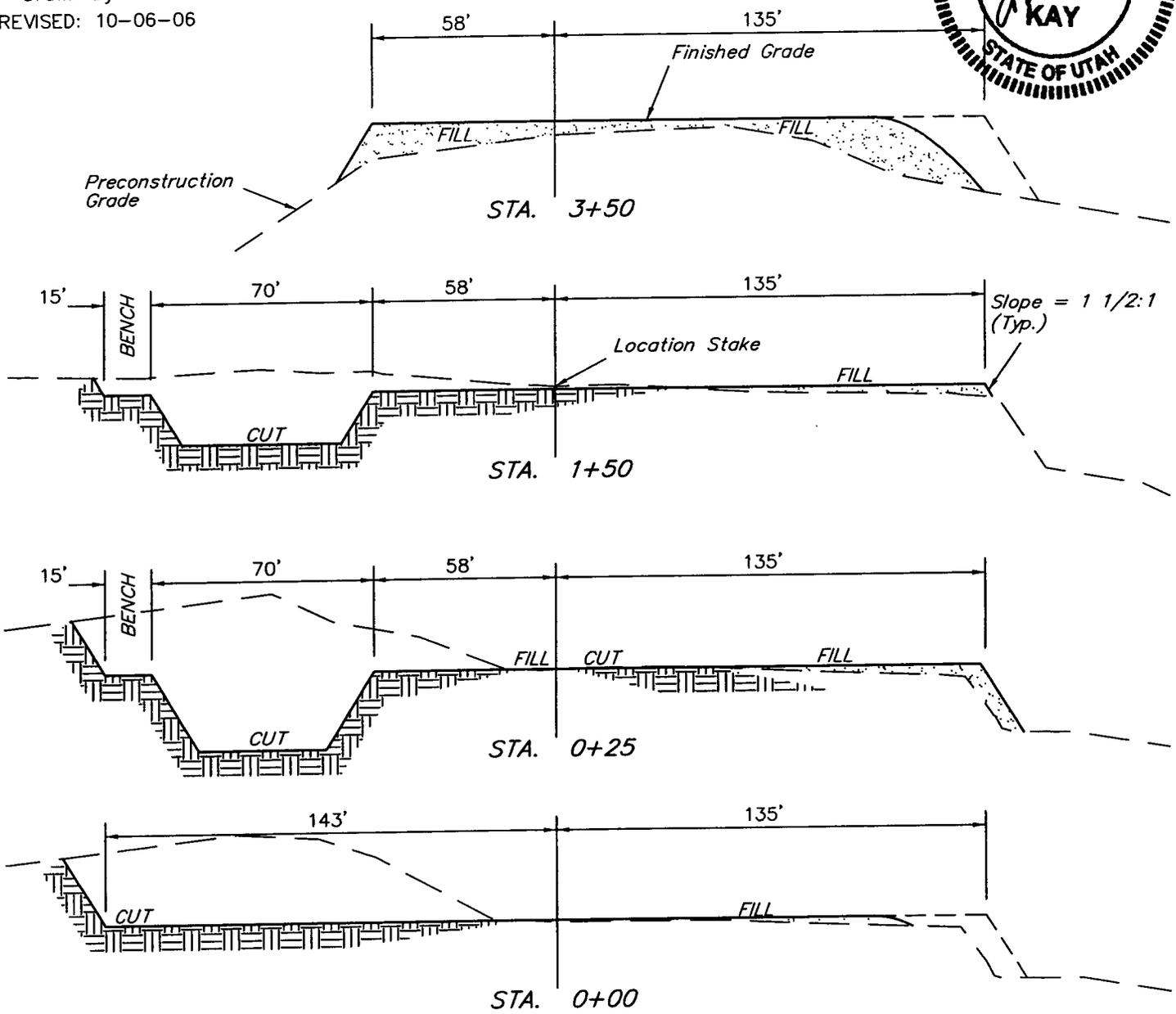
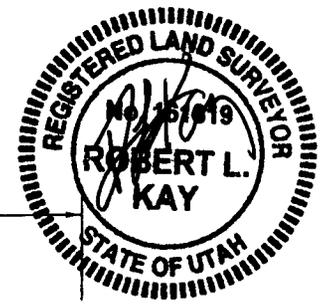
# Kerr-McGee Oil & Gas Onshore LP

FIGURE #2

TYPICAL CROSS SECTIONS FOR  
 NBU #922-31P-3T  
 SECTION 31, T9S, R22E, S.L.B.&M.  
 491' FSL 971' FEL

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

DATE: 05-09-06  
 Drawn By: S.L.  
 REVISED: 10-06-06



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

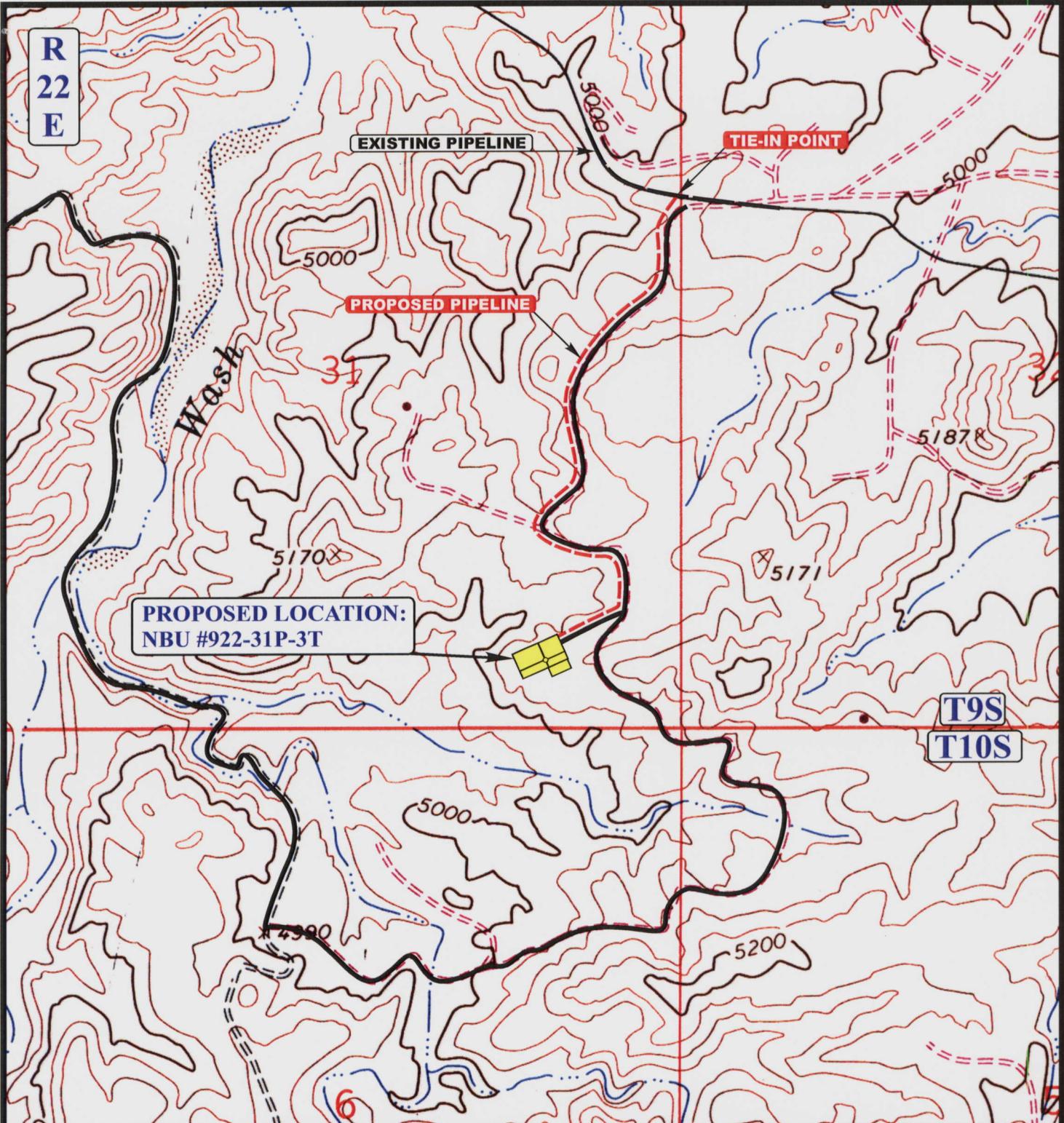
\* NOTE:  
 FILL QUANTITY INCLUDES 5% FOR COMPACTION

**APPROXIMATE YARDAGES**

CUT	
(6") Topsoil Stripping	= 1,770 Cu. Yds.
Remaining Location	= 6,600 Cu. Yds.
<b>TOTAL CUT</b>	<b>= 8,370 CU.YDS.</b>
<b>FILL</b>	<b>= 5,210 CU.YDS.</b>

EXCESS MATERIAL	= 3,160 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	= 3,160 Cu. Yds.
EXCESS UNBALANCE (After Interim Rehabilitation)	= 0 Cu. Yds.

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



**APPROXIMATE TOTAL PIPELINE DISTANCE = 4,400' +/-**

**LEGEND:**

- EXISTING PIPELINE
- - - PROPOSED PIPELINE

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

NBU #922-31P-3T  
 SECTION 31, T9S, R22E, S.L.B.&M.  
 491' FSL 971' FEL

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



**TOPOGRAPHIC MAP** 10 05 06  
 MONTH DAY YEAR  
 SCALE: 1" = 1000' DRAWN BY: C.P. REVISED: 00-00-00

**D**  
 TOPO

# DIVISION OF OIL, GAS AND MINING

## SPUDDING INFORMATION

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

Well Name: NBU 922-31P-3T

API No: 43-047-38564 Lease Type: STATE

Section: 31 Township: 09S Range: 22E County: Uintah

Drilling Contractor: Pete Martin Rig # Bucket

### SPUDDED:

Date: 3-19-07

Time: 12:00 PM

How: Dry

Drilling will commence: \_\_\_\_\_

Reported By: Lou Weldon

Telephoned # 435-828-7035

Date: 3-20-07 Signed: RM

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
4304738564	NBU 922-31P-3T		SESE	31	9S	22E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
<u>B</u>	99999	<u>2900</u>	3/19/2007		<u>3/22/07</u>		
Comments: MIRU PETE MARTIN BUCKET RIG. <u>WSTMVD</u> SPUD WELL LOCATION ON 03/19/2007 AT 1200 HRS							

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304738151	STATE 1021-36M		SWSW	36	10S	21E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
<u>A</u>	99999	<u>16003</u>	3/19/2007		<u>3/22/07</u>		
Comments: MIRU ROCKY MTN BUCKET RIG. <u>WSTMVD</u> SPUD WELL LOCATION ON 03/19/2007 AT 1600 HRS							

Well 3

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

ACTION CODES:

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

SHEILA UPCHEGO

Name (Please Print) [Signature]  
 Signature  
 SENIOR LAND SPECIALIST 3/20/2007  
 Title Date

(5/2000)

To Earlene Russell From Sheila Upchego  
 Co./Dept. URDOGIM Co. KMG  
 Phone # (801) 538-5336 Phone # (435) 781-7024  
 Fax # (801) 359-3940 Fax # (435) 781-7094

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

FORM 9

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3. ADDRESS OF OPERATOR: <b>1368 SOUTH 1200 EAST    VERNAL    UT    84078</b>		PHONE NUMBER: <b>(435) 781-7024</b>	9. API NUMBER: <b>4304738564</b>
4. LOCATION OF WELL FOOTAGES AT SURFACE: <b>491'FSL, 971'FEL</b>			10. FIELD AND POOL, OR WILDCAT: <b>NATURAL BUTTES</b>
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: <b>SESE    31    9S    22E</b>			COUNTY: <b>UINTAH</b>
			STATE: <b>UTAH</b>

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TYPE OF SUBMISSION	TYPE OF ACTION		
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	<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>WELL SPUD</b>
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

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

MIRU 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 03/19/2007 AT 1200 HRS

NAME (PLEASE PRINT) <b>SHEILA UPCHEGO</b>	TITLE <b>SENIOR LAND ADMIN SPECIALIST</b>
SIGNATURE	DATE <b>3/20/2007</b>

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**MAR 26 2007**

DIV. OF OIL, GAS & MINING

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

FORM 9

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Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		7. UNIT or CA AGREEMENT NAME: UNIT #891008900A
1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____	8. WELL NAME and NUMBER: NBU 921-31P-3T	
2. NAME OF OPERATOR: KERR MCGEE OIL & GAS ONSHORE LP		9. API NUMBER: 4304738564
3. ADDRESS OF OPERATOR: 1368 SOUTH 1200 EAST VERNAL UT 84078	PHONE NUMBER: (435) 781-7024	10. FIELD AND POOL, OR WILDCAT: NATURAL BUTTES
4. LOCATION OF WELL FOOTAGES AT SURFACE: 491'FSL, 971'FEL		COUNTY: UINTAH
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SESE 31 9S 22E		STATE: UTAH

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	<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>SET SURFACE CSG.</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 BILL MARTIN AIR RIG ON 03/24/2007. DRILLED 12 1/4" SURFACE HOLE TO 2430'. RAN 9 5/8" OF 48 JTS OF 32.3# H-40 AND 10 JTS OF 36# J-55 SURFACE CSG. LEAD CMT W/350 SX PREM CLASS G @15.8 PPG 1.15 YIELD. TAILED CMT W/125 SX PREM CLASS G @15.8 PPG 1.15 YIELD. NO RETURNS TO PIT. TOP OUT W/675 SX PREM CLASS G @15.8 PPG 1.15 YIELD. DOWN BACKSIDE CMT TO SURFACE HOLE STAYED FULL.

WORT.

NAME (PLEASE PRINT) SHEILA UPCHEGO	TITLE SENIOR LAND ADMIN SPECIALIST
SIGNATURE	DATE 3/28/2007

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**APR 02 2007**

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

FORM 9

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	<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 2430' TO 9170' ON 04/17/2007. RAN 4 1/2" 11.6# I-80 PRODUCTION CSG. LEAD CMT W/448 SX PREM LITE II @11.5 PPG 2.82 YIELD. TAILED CMT W/1235 SX 50/50 POZ @14.3 PPG 1.31 YIELD. SET SLIPS N/D BOP CUT OFF CSG. CLEAN PITS.

RELEASED ENSIGN RIG 12 ON 04/18/2007 AT 1530 HRS.

**RECEIVED**  
**APR 23 2007**  
DIV. OF OIL, GAS & MINING

NAME (PLEASE PRINT) <u>SHEILA UPCHEGO</u>	TITLE <u>SENIOR LAND ADMIN SPECIALIST</u>
SIGNATURE	DATE <u>4/20/2007</u>

(This space for State use only)

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

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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 921-31P-3T</b>
3. ADDRESS OF OPERATOR: 1368 SOUTH 1200 EAST      VERNAL      UT      84078		PHONE NUMBER: (435) 781-7024	9. API NUMBER: <b>4304738564</b>
4. LOCATION OF WELL FOOTAGES AT SURFACE: <b>491'FSL, 971'FEL</b>			10. FIELD AND POOL, OR WILDCAT: <b>NATURAL BUTTES</b>
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: <b>SESE 31 9S 22E</b>			COUNTY: <b>UINTAH</b>
			STATE: <b>UTAH</b>

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate)  Approximate date work will start: _____  <input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only)  Date of work completion: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> 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: <u>PRODUCTION START-UP</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.

THE SUBJECT WELL LOCATION WAS PLACED ON PRODUCTION ON 05/05/2007 AT 9:10 AM.

PLEASE REFER TO THE ATTACHED CHRONOLOGICAL WELL HISTORY.

**RECEIVED**  
**MAY 29 2007**  
**DIV. OF OIL, GAS & MINING**

NAME (PLEASE PRINT) <u>SHEILA UPCHEGO</u>	TITLE <u>SENIOR LAND ADMIN SPECIALIST</u>
SIGNATURE	DATE <u>5/8/2007</u>

(This space for State use only)



Anadarko Petroleum Corporation  
1368 S. 1200 East  
Vernal, UT 84078

## CHRONOLOGICAL WELL HISTORY

### NBU 922-31P-3T

SESE, SEC. 31, T9S, R22E  
UINTAH COUNTY, UT

DATE	ACTIVITY	STATUS
03/07/07	LOCATION STARTED ENSIGN 12	
03/19/07	LOCATION COMPLETE ENSIGN 12 SET CONDUCTOR	P/L IN, WOBR
03/23/07	AIR RIG SPUD ENSIGN 12	DRLG
03/29/07	9 5/8" @2351 ENSIGN 12	WORT
04/09/07	TD: 2430' Csg. 9 5/8"@ 2351' MW: 8.4 SD: 4/9/07 DSS: 0 Move to NBU 922-31P-3T. RURT. NU and test BOPE. PU drill string and drill FE.	
04/10/07	TD: 4050' Csg. 9 5/8"@ 2351' MW: 8.4 SD: 4/9/07 DSS: 1 Rotary spud @ 0600 hrs 4/9/07. Drill from 2430'-4050'. DA.	
04/11/07	TD: 5153' Csg. 9 5/8"@ 2351' MW: 8.4 SD: 4/9/07 DSS: 2 Drill from 4050'-5153'. DA.	
04/12/07	TD: 6325' Csg. 9 5/8"@ 2351' MW: 9.8 SD: 4/9/07 DSS: 3 Drill from 5153'-6325'. DA.	
04/13/07	TD: 6631' Csg. 9 5/8"@ 2351' MW: 9.8 SD: 4/9/07 DSS: 4 Drill from 6325'-6631'. TFNB. TIH @ report time.	
04/16/07	TD: 8960' Csg. 9 5/8"@ 2351' MW: 12.0 SD: 4/9/07 DSS: 7 Drill from 6631'-8510'. TFNB and MM. Drill to 8960'. DA increasing mud weight to 12.0 ppg to control gas.	
04/17/07	TD: 9170' Csg. 9 5/8"@ 2351' MW: 12.0 SD: 4/9/07 DSS: 8 Drill from 8510'-9170' TD. Short trip 10 STDs. CCH. Lay down drill string @ report time.	
04/18/07	TD: 9170' Csg. 9 5/8"@ 2351' MW: 12.0 SD: 4/9/07 DSS: 9 Lay down BHA. Run and cement 4 1/2" Production Casing.	

04/19/07

TD: 9170' Csg. 9 5/8" @ 2351' MW: 12.0 SD: 4/9/07 DSS: 9  
Cement 4 1/2" Production Casing. Set slips and release rig @ 1530 hrs 4/18/07. RDRT. Will move to NBU 922-31P-1 this am.

04/27/07

**PU TBG**

Days On Completion: 1  
Remarks: HSM. RACK OUT EQUIP. RR FROM NBU 921-34J TO LOC. SPOT RIG & EQUIP. RU RIG. ND WH, NU BOP. PREP & TALLY TBG, PU 3-7/8" MILL & SUB. RIH W/MILL SUB & TBG (TALLY IN). EOT @ 7400'. SWI, SDFWE.

04/30/07

**POOH W/TBG**

Days On Completion: 4  
Remarks: 7:00 AM HSM. OPEN WELL. FINISH RIH PU TBG. TAG PBTB @ 9118'. CIR WELL. POOH W/ 2-3/8" TBG. ND BOP, NU FRAC VALVES. SWI 2:PM

05/01/07

**LOG & TEST**

Days On Completion: 5  
Remarks: HSM. MIRU CUTTERS WIRELING SERVICE. MU GAMMA, CCL, CBL & TEMP SURVEY TLS. PU TLS, RIH, RUN LOG, LOGGER PBTB @ 9108'. POOH, LD LOGGING TLS. MIRU B&C QUICK TEST, PRES TST FRAC VLVS & CSG TO 7500 PSI. MU CWLS, PU PERF GUN [PERF GUN WILL BE 3-3/8" EXPENDABLE (23 GM CHG, 40" PENE, 0.36" HOLE, 3 OR 4 SPF-120 OR 90 DEGREE PHASING RESPECTIVELY)]. RIH, PERF: 9028-30', 8999-9001', 8969-74 & 8929-32'. 3, 4, 4 & 4 SPF EA RESPECTIVELY, TOT OF 46 HOLES. POOH, LD WL TLS. SWI, PREP TO FRAC IN MORNING. SDFN.

05/02/07

**FRAC**

Days On Completion: 6  
Remarks: MIRU HALLIBURTON. HSM. PRES TEST SURFACE LINES TO 8500 PSI. ALL STAGES WILL USE NALCO DVE-005 SCALE INHIBITOR (3 GPT IN PAD THRU HALF OF THE 1ST RAMP OF SAND & 10 GPT IN FLUSH); PERF GUNS WILL BE 3-3/8" EXPENDABLE (23 GM CHG, 40" PENE, 0.36" HOLE, 3 OR 4 SPF-120 OR 90 DEGREE PHASING RESPECTIVELY); 30/50 OTTAWA SAND; SLICK WATER (8340 BBL FROM GOAT PASTURE POND & 1560 BBL FRESH FROM BUGGSY'S WATER PLANT); CBPs ARE BAKER 8K 4.5".  
1:45 PM

STAGE 1: OW: 1694 PSI, BRK: 2962 PSI, ISIP: 2608 PSI, FG: 0.73. ER: 52 BPM @ 4500 PSI. POC: 72% (33/46). FRAC STG W/RSW. TOT SND: 43,260 LBS, TOT FL: 1266 BBL. ISIP: 2743 PSI, FG: 0.75. MP: 7178 PSI, MR: 53.4 BPM, AP: 4483 PSI, AR: 49.6 BPM. MU CWLS.

STAGE 2: PU CBP & PERF GUN. RIH SET CBP @ 8787, PU, PERF: 8754-57, 8716-18 & 8598-9604', 4 SPF EA, TOT OF 44 HOLES. POOH, LD WL TLS. MU HAL. OW: 1540 PSI, BRK: 2880 PSI, ISIP: 2490 PSI, FG: 0.73. ER: 47 BPM @ 4000 PSI, POC: 100% (44/44). FRAC STG W/RSW. TOT SND: 38,222 LBS, TOT FL: 1160 BBL. ISIP: 2793 PSI, FG: 0.76. MP: 4749 PSI, MR: 50.7, AP: 4134 PSI, AR: 48.5 BPM. MU CWLS.

STAGE 3: PU CBP & PERF GUN. RIH SET CBP @ 8510', PU, PERF: 8475-80', 8445-47', 8415-16', 8373-76' & 8198-99'. 4, 3, 4, 4 & 4 SPF EA RESPECTIVELY, TOT OF 46 HOLES. POOH, LD WL TLS. MU HAL. OW: 1470 PSI, BRK: 2652 PSI, ISIP: 2054 PSI, FG: 0.69. ER: 46 BPM @ 3550 PSI. POC: 98% {(45/46) STAGE BROKE W/250 GALS HCL VS 500 GALS}. FRAC STG W/RSW. TOT SND: 128,700 LBS, TOT FL: 3085 BBL. ISIP: 2699 BBL, FG: 0.76. MP: 5334 PSI, MR: 60.2 BPM, AP: 4177 PSI, AR: 56.5 BPM. SWI. SDFN.

05/03/07

**FRAC**

Days On Completion: 7  
Remarks: HSM. ALL STAGES WILL USE NALCO DVE-005 SCALE INHIBITOR (3 GPT IN PAD

THRU HALF OF THE 1ST RAMP OF SAND & 10 GPT IN FLUSH); PERF GUNS WILL BE 3-3/8" EXPENDABLE (23 GM CHG, 40" PENE, 0.36" HOLE, 3 OR 4 SPF-120 OR 90 DEGREE PHASING RESPECTIVELY); 30/50 OTTAWA SAND; SLICK WATER (8340 BBL FROM GOAT PASTURE POND & 1560 BBL FRESH FROM BUGGSY'S WATER PLANT); CBPs ARE BAKER 8K 4.5".

STAGE 4: PU CBP & PERF GUN. RIH SET CBP @ 7919', PU, PERF: 7886-89', 7838-40, 7726-30', 7656-57' & 7587-89'. 4, 4, 4, 4 & 3 SPF EA RESPECTIVELY, TOT OF 46 HOLES. POOH, LD WL TLS. MU HAL. OW: 350 PSI, BRK: 3504 PSI, ISIP: 1811 PSI, FG: 0.67. ER: 59 GPM @ 4020 PSI, POC: 76% ((35/46) BROKE STG W/50% OF NORMAL ACID VOLUME). FRAC STG W/SW. TOT SND: 88,000 LBS, TOT FL: 2312 BBL. ISIP: 2407, FG: 0.75. MP: 4520 PSI, MR: 59.8 BPM, AP: 4139 PSI, AR: 57.9 BPM. MU CWLS.

STAGE 5: PU CBP & PERF GUN. RIH SET CBP @ 7526', PU, PERF: 7493-96', 7477-80', 7424-29' & 7408-10'. 3, 4, 4 & 3 SPF EA RESPECTIVELY, TOT OF 47 HOLES. POOH, LD WL TLS. MU HAL. OW: 0 PSI, BRK: 3041 PSI, ISIP: 1854 PSI, FG: 0.69. ER: 54 BPM @ 3500 PSI. POC: 91% (43/47). BROKE STG W/50% OF NORMAL ACID VOLUME. FRAC STG W/SW. TOT SND: 36,900 LBS, TOT FL: 1034 BBL. ISIP: 2157 PSI, FG: 0.73. MP: 4073 PSI, MR: 61.0 BPM, AP: 3602 PSI, AR: 56.7 BPM. MU CWLS.

STAGE 6: PU CBP & PERF GUN. RIH SET CBP @ 7292', PU, PERF: 7258-62' & 7080-86', 4 SPF EA, TOT OF 40 HOLES. POOH, LD WL TLS. MU HAL. OW: 0 PSI, BRK: 3000 PSI, ISIP: 1332 PSI, FG: 0.63. ER: 51 BPM @ 3500 PSI. POC: 68% (27/40). BROKE STG W/50% OF NORMAL ACID VOLUME. FRAC STG W/SW. TOT SND: 19,800 LBS, TOT FL: 668 BBL. ISIP: 2142 PSI, FG: 0.74. MP: 3884 PSI, MR: 56.3 BPM, AP: 3632 PSI, AR: 54.5 BPM. MU CWLS. PU KILL PLUG, RIH, SET PLUG @ 7040'. POOH, LD WL TLS.

05/04/07

**FRAC**

Days On Completion: 8

Remarks: HSM. RU PMP TO PWR SWVL, EST CIRC. D/O CBPs AS LISTED:

CBP #	FILL DPTH	CBP DPTH	D/O MINS	PSI INCR
1	NA	7040'	10	500
2	7270'	7292'	8	1000
3	7496'	7526'	18	500
4	7905'	7919'	8	400
5	8490'	8510'	10	400
6	8755'	8787'	10	400

CONT TO C/O, TAG FILL @ 9058', C/O TO 9118'. CIRC HOLE CLN W/60 BBL KCL. POOH, LD TOT OF 38 JTS OF FLT. PU HNGR, LND TBG W/267 JTS TBG IN HOLE. ND BOP, NU WH. DROP BALL, RU FL TO PIT, RU PMP TO TBG, PMP OFF BIT & SUB. RACK OUT EQUIP, RD RIG. TURN WELL OVER TO FBC.

5/5/07

**WELL WENT ON SALES:** @ 9:10 AM, 1400 MCF, 2200-2950 TBG, 2950 CSG, 20/64 CK, 65 BBWH

**ON FLOWBACK:** CP 3100#, TP 2350#, CK 16/64", 30 BWPH, TTL LOAD REC'D 3095 BBLS, LLTR 6430 BBLS

**ON SALES:** 1063 MCF, 0 BC, 1560 BW, TP: 375#, CP: #, 18/64 CHK, 20 HRS, LP: 375#.

05/06/07

**FLOW BACK REPORT:** CP: 3100#, TP: 2350#, 30 BWPH, 16/64 CHK, BBLS REC'D: 3095, LLTR: 4310

**ON SALES:** 1729 MCF, 0 BC, 1560 BW, TP: 365#, CP: #, 18/64 CHK, 24 HRS, LP: 348#.

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

AMENDED REPORT  FORM 8  
(highlight changes)

**WELL COMPLETION OR RECOMPLETION REPORT AND LOG**

5. LEASE DESIGNATION AND SERIAL NUMBER:  
**STUO-01530-AST**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

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

8. WELL NAME and NUMBER:  
**NBU 922-31P-3T**

9. API NUMBER:  
**4304738564**

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

11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:  
**SESE 31 9S 22E**

12. COUNTY  
**UINTAH**

13. STATE  
**UTAH**

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

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

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

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

4. LOCATION OF WELL (FOOTAGES)  
AT SURFACE: **491'FSL, 971'FEL**  
AT TOP PRODUCING INTERVAL REPORTED BELOW:  
AT TOTAL DEPTH:

14. DATE SPUDDED: **3/19/2007** 15. DATE T.D. REACHED: **4/17/2007** 16. DATE COMPLETED: **5/5/2007** ABANDONED  READY TO PRODUCE

17. ELEVATIONS (DF, RKB, RT, GL):  
**5065'GL**

18. TOTAL DEPTH: MD **9,170** TVD \_\_\_\_\_ 19. PLUG BACK T.D.: MD **9,126** TVD \_\_\_\_\_

20. IF MULTIPLE COMPLETIONS, HOW MANY? \* 21. DEPTH BRIDGE PLUG SET: MD \_\_\_\_\_ TVD \_\_\_\_\_

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)  
**CBL-CCL-GR**

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

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

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
20"	14" STL	36.7#		40		28			
12 1/4"	9 5/8 H-40	32.3# 36#		2,430		1150			
7 7/8"	4 1/2 I-80	11.6#		9,170		1683			

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"	8,115							

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) WSTCH/MESA	7,080	7,262			7,080 7,262	0.36	40	Open <input checked="" type="checkbox"/>	Squeezed <input type="checkbox"/>
(B) MESAVERDE	7,408	9,030			7,408 9,030	0.36	229	Open <input checked="" 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
7080'-7262'	PMP 668 BBLs SLICK H2O & 19,800# 30/50 SD
7408'-9030'	PMP 8857 BBLs SLICK H2O & 326,686# 30/50 SD

29. ENCLOSED ATTACHMENTS:

ELECTRICAL/MECHANICAL LOGS  GEOLOGIC REPORT  DST REPORT  DIRECTIONAL SURVEY

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

30. WELL STATUS:  
**PROD**

31. INITIAL PRODUCTION

INTERVAL A (As shown in item #26)

DATE FIRST PRODUCED: 5/5/2007		TEST DATE: 5/13/2007		HOURS TESTED: 24		TEST PRODUCTION RATES: →	OIL - BBL: 0	GAS - MCF: 1,805	WATER - BBL: 240	PROD. METHOD: FLOWING
CHOKE SIZE: 18/64	TBG. PRESS. 2,200	CSG. PRESS. 2,775	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL - BBL: 0	GAS - MCF: 1,805	WATER - BBL: 240	INTERVAL STATUS: PROD

INTERVAL B (As shown in item #26)

DATE FIRST PRODUCED: 5/5/2007		TEST DATE: 5/13/2007		HOURS TESTED: 24		TEST PRODUCTION RATES: →	OIL - BBL: 0	GAS - MCF: 1,805	WATER - BBL: 240	PROD. METHOD: FLOWING
CHOKE SIZE: 16/64	TBG. PRESS. 2,200	CSG. PRESS. 2,775	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL - BBL: 0	GAS - MCF: 1,805	WATER - BBL: 240	INTERVAL STATUS: PROD

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):

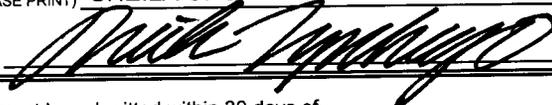
Show all important zones of porosity and contents thereof. Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
WASATCH MESAVERDE	4,518 7,124	7,124			

34. FORMATION (Log) MARKERS:

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 5/30/2007

This report must be submitted within 30 days of

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

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

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

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

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

**RECEIVED**  
**JUN 05 2007**  
 DIV. OF OIL, GAS & MINING

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>  <b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> STUO-01530-AST
<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 922-31P-3T
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.	<b>9. API NUMBER:</b> 43047385640000
<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 FOOTAGES AT SURFACE:</b> 0491 FSL 0971 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SESE Section: 31 Township: 09.0S Range: 22.0E Meridian: S	<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES  <b>COUNTY:</b> UINTAH  <b>STATE:</b> UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 6/21/2010	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input checked="" type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: _____

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

THE OPERATOR REQUESTS AUTHORIZATION TO TEMPORARILY ABANDON THE SUBJECT WELL. THE OPERATOR REQUESTS AUTHORIZATION TO TEMPORARILY ABANDON THE WELL IN ORDER TO DRILL THE NBU 922-31P3 PAD WELLS WHICH CONSISTS OF THE NBU 922-31J3DS, NBU 922-31O3AS, AND NBU 922-31P4BS. ATTACHED IS THE TEMPORARILY ABANDON PROCEDURE.

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

**Date:** June 21, 2010

**By:** *Derek [Signature]*

<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> 6/17/2010

NBU 922-31P-3T  
 491' FSL & 971' FEL  
 SWSESE SEC.31, T9S, R22E  
 Uintah County, UT

KBE: 5078'  
 GLE: 5065'  
 TD: 9150'  
 PBDT: 9170'

API NUMBER: 43-047-38564  
 LEASE NUMBER: UT-STL-UO-01530-A-ST  
 WINS#: 92599  
 WI: 100.0000%  
 NRI: 80.894445%

CASING: 17 1/2" hole  
 14" STL 50# csg @ 40' GL  
 Cemented to surface w/ 50 sx

12 1/4" hole  
 9 5/8" 32.3# H-40 & 36# J-55 @ 2430' (KB)  
 Cemented with 1150 sx. TOC @ surface

7.875" hole  
 4 1/2" 11.6# I-80 @ 9170'  
 Cemented w/ 1683 sx, TOC @ Surface per CBL

TUBING: 2 3/8" 4.7# J-55 tubing landed at 5618'

Tubular/Borehole	Drift inches	Collapse psi	Burst psi	Capacities		
				Gal./ft.	Cuft/ft.	Bbl./ft.
2.375" 4.7# J-55 tbg.	1.901	8100	7700	0.1624	0.02173	0.00387
4.5" 11.6# I-80	3.875	6350	7780	0.6528	0.0872	0.01554
9.625" 32.3# H-40	8.845	1400	2270	3.3055	0.4418	0.0787
14" 36.7# Stl						
<b>Annular Capacities</b>						
2.375" tbg. X 4 1/2" 11.6# csg				0.4227	0.0565	0.01006
4.5" csg X 9 5/8" 32.3# csg				2.478	0.3314	0.059
4.5" csg X 7.875 borehole				1.7052	0.2278	0.0406
9.625" csg X 12 1/4" borehole				2.3436	0.3132	0.0558
9.625" csg X 14" csg				3.4852	0.4659	0.083
14" csg X 20" borehole						

**GEOLOGIC INFORMATION:**

Formation	Depth to top, ft.
Uinta	Surface
Wasatch	4518'
Mesaverde	7124'

**Tech. Pub. #92 Base of USDW's**

USDW Elevation	1200' MSL
USDW Depth	3878' KBE

**PERFORATIONS:**

Formation	Date	Top	Btm	SPF	Status
Wasatch	May-07	7080	7086	4	Open
Mesaverde	May-07	7258	7262	4	Open
Mesaverde	May-07	7408	7410	3	Open
Mesaverde	May-07	7424	7429	4	Open
Mesaverde	May-07	7477	7480	4	Open
Mesaverde	May-07	7493	7496	3	Open
Mesaverde	May-07	7587	7589	3	Open
Mesaverde	May-07	7656	7657	4	Open
Mesaverde	May-07	7726	7730	4	Open
Mesaverde	May-07	7838	7840	4	Open
Mesaverde	May-07	7886	7889	4	Open
Mesaverde	May-07	8198	8199	4	Open
Mesaverde	May-07	8373	8376	4	Open
Mesaverde	May-07	8415	8416	4	Open
Mesaverde	May-07	8445	8447	3	Open
Mesaverde	May-07	8475	8480	4	Open
Mesaverde	May-07	8598	8604	4	Open
Mesaverde	May-07	8716	8718	4	Open
Mesaverde	May-07	8754	8757	4	Open
Mesaverde	May-07	8929	8932	4	Open
Mesaverde	May-07	8969	8974	4	Open
Mesaverde	May-07	8999	9001	4	Open
Mesaverde	May-07	9028	9030	3	Open

**WELL HISTORY:**

- Spud Well 3/19/07, TD'd 4/17/07
- May '07 - Completed MV/Was zones with 6 slickwater frac stages using 346,486# 30/50 sand & 9225 bbls fluid. C/O to PBTB and turn to sales.
- 5/5/07 - Turn well to sales

**Recommended future action for disposition of well bore:**

Temporarily abandon the wellbore during the drilling and completion operations of the NBU 922-31P pad wells. Return to production as soon as possible once completions are done.

## NBU 922-31P- 3T TEMPORARY ABANDONMENT PROCEDURE

### GENERAL

- H2S MAY BE PRESENT. CHECK FOR H2S AND TAKE APPROPRIATE PRECAUTIONS.
- CEMENT QUANTITIES BELOW ASSUME NEAT CLASS G, YIELD 1.145 CUFT./SX. IF A DIFFERENT PRODUCT IS USED, WELLSITE PERSONNEL ARE RESPONSIBLE FOR CORRECTING QUANTITIES TO YIELD THE STATED SLURRY VOLUME. WHEN SQUEEZING, INCLUDE 10% EXCESS PER 1000' OF DEPTH.
- TREATED FRESH WATER WILL BE PLACED BETWEEN ALL PLUGS INSTEAD OF BRINE.
- ALL DISPLACEMENT FLUID SHALL CONTAIN CORROSION INHIBITOR AND BIOCIDES. PREMIX 5 GALLONS PER 100 BBLs FLUID.
- NOTIFY UDOGM 24 HOURS BEFORE MOVING ON LOCATION.

### PROCEDURE

Note: An estimated 23 sx Class "G" cement needed for procedure

Note: Gyro ran to 8050'

1. MIRU. KILL WELL AS NEEDED. ND WH, NU AND TEST BOPE.
2. PULL TBG & LD SAME. RU WIRELINE AND MAKE A GAUGE RING RUN TO CHECK FOR FILL.
3. **PLUG #1, ISOLATE MV/WAS PERFORATIONS (7080' - 9030')**: RIH W/ 4 ½" CBP. SET @ ~7030'. RELEASE CBP, PUH 10', BRK CIRC W/ FRESH WATER. PRESSURE TEST CASING TO 500 PSI. INFORM ENGINEERING IF IT DOESN'T TEST. DISPLACE A MINIMUM OF 4.36 CUFT. (~4 CUFT) ON TOP OF PLUG. PUH ABOVE TOC (~6980'). REVERSE CIRCULATE W/ TREATED FRESH WATER.
4. **PLUG #2, PROTECT WASATCH TOP (4518')**: PUH TO ~4620'. BRK CIRC W/ FRESH WATER. DISPLACE A MINIMUM OF 17.44 CUFT (~15 SX) AND BALANCE PLUG W/ TOC @ ~4420' (200' COVERAGE). PUH ABOVE TOC. REVERSE CIRCULATE W/ TREATED FRESH WATER.
5. LOWER WELLHEAD TO GROUND LEVEL TO ACCOMMODATE DRILLING OPS AND INSTALL MARKER PER BLM GUIDELINES.
6. RDMO. TURN OVER TO DRILLING OPERATIONS.

ALM 6/16/10

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>  <b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> STUO-01530-AST
<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 922-31P-3T
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.	<b>9. API NUMBER:</b> 43047385640000
<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> 0491 FSL 0971 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SESE Section: 31 Township: 09.0S Range: 22.0E Meridian: S	<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES  <b>COUNTY:</b> UINTAH  <b>STATE:</b> UTAH

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

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

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

The operator has performed the Temporarily Abandonment (TA) operations on the subject well. The operator has TA'd this well to drill the NBU 922-31P3 pad. The following wells are on this pad: NBU 922-31J3DS, NBU 922-31O3AS AND NBU 922-31P4BS. Please see the attachment for operation details.

**Accepted by the**  
**Utah Division of**  
**Oil, Gas and Mining**  
**FOR RECORD ONLY**  
 September 21, 2010

<b>NAME (PLEASE PRINT)</b> Gina Becker	<b>PHONE NUMBER</b> 720 929-6086	<b>TITLE</b> Regulatory Analyst II
<b>SIGNATURE</b> N/A		<b>DATE</b> 9/20/2010

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> STUO-01530-AST
	<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 922-31P-3T
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.	<b>9. API NUMBER:</b> 43047385640000
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	<b>PHONE NUMBER:</b> 720 929-6515 Ext
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0491 FSL 0971 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SESE Section: 31 Township: 09.0S Range: 22.0E Meridian: S	<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES
	<b>COUNTY:</b> UINTAH
	<b>STATE:</b> UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 2/7/2011	<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 type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input checked="" type="checkbox"/> OTHER	OTHER: <input type="text" value="Workover Operations"/>

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

The operator has recently concluded workover operations on the subject well.

The workover operations included a wellbore cleanout. Please refer to the **Accepted by the** attached chronological well history report.

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

<b>NAME (PLEASE PRINT)</b> Gina Becker	<b>PHONE NUMBER</b> 720 929-6086	<b>TITLE</b> Regulatory Analyst II
<b>SIGNATURE</b> N/A	<b>DATE</b> 2/17/2011	

US ROCKIES REGION  
**Operation Summary Report**

Well: NBU 922-31P-3T		Spud Date: 4/9/2007	
Project: UTAH-UINTAH		Site: NBU 922-31P3 PAD	Rig Name No: GWS 1/1
Event: WELL WORK EXPENSE		Start Date: 2/2/2011	End Date: 2/7/2011
Active Datum: RKB @5,078.99ft (above Mean Sea Level)		UWI: NBU 922-31P-3T	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
2/4/2011	7:00 - 7:15	0.25	REE	48		P		HSM, SLIPS, TRIPS & FALLS, RABBITTING TBG KEEP HANDS & FEET AWAY.
	7:15 - 17:00	9.75	REE	31	I	P		MIRU, ND WH, NU BOP, RU FLOOR & TBG EQUIP, TALLY & PU TBG, TAG CMT PLUG @ 4,410', RU POWER SWIVEL, DRLG CMT PLUG FROM 4,410' TO 4,620', RIH TO 5,450', SWI WINTERIZE EVERYTHING, SDFWE.
2/7/2011	7:00 - 7:15	0.25	REE	48		P		HSM, SLIPS, TRIPS & FALLS, RIGGING UP & DOWN, DRLG PLUGS.
	7:15 - 17:00	9.75	REE	31	I	P		TALLY & PU TBG, TAG CMT @ 7,000', RU POWER SWIVEL, BREAK CIRC, START DRLG CMT FROM 7,000' TO 7,030', CIRC HOLE CLEAN, D/O CBP @ 7,030' LOST CIRC, RIH TO CHECK FOR FILL TAG @ 9,032' BTM PERF @ 9,030' WELLSTARTED UNLOADING, RU POWER SWIVEL C/O FROM 9,032' TO 9,064' W/ 286 JTS J-55 TBG, LD 31JTS, PU 4 1/16" WEATHERFORD HANGER & LAND TBG @ 8,092.26', RD FLOOR & TBG EQUIP, ND BOP, NU WH, DROP BALL TO SHEAR OFF BIT PUMPED 40 BBLs NEVER SEEN BIT GO, RDMO TO TABBEE 34-109.
								KB 14' 4 1/16" HANGER .83' <span style="float: right;">TBG</span> DELIVERED 305 JTS (YELLOW BAND) 255 JTS J-55 2 3/8" TBG 8,075.23' <span style="float: right;">TBG</span> USED 255 JTS POBS 2.20' <span style="float: right;">50</span> JTS TOOK TO TABBEE 34-109 EOT 8,092.26' SN 8,090.06'  ALL SURFACE CSG VALVES ON PAD WERE OPEN WHEN LEAVING LOCATION.

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> STUO-01530-AST
	<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 922-31P-3T
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.	<b>9. API NUMBER:</b> 43047385640000
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	<b>PHONE NUMBER:</b> 720 929-6515 Ext
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0491 FSL 0971 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SESE Section: 31 Township: 09.0S Range: 22.0E Meridian: S	<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES
	<b>COUNTY:</b> UINTAH
	<b>STATE:</b> UTAH

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

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

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

The subject well has returned to production from a temporarily abandoned status on Wednesday, February 2, 2011. The well history chronological report for the RTP is attached.

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

<b>NAME (PLEASE PRINT)</b> Gina Becker	<b>PHONE NUMBER</b> 720 929-6086	<b>TITLE</b> Regulatory Analyst II
<b>SIGNATURE</b> N/A	<b>DATE</b> 2/28/2011	

US ROCKIES REGION  
**Operation Summary Report**

Well: NBU 922-31P-3T Spud Date: 4/9/2007

Project: UTAH-UINTAH Site: NBU 922-31P3 PAD Rig Name No: GWS 1/1

Event: WELL WORK EXPENSE Start Date: 2/2/2011 End Date: 2/7/2011

Active Datum: RKB @5,078.99ft (above Mean Sea Level) UWI: NBU 922-31P-3T

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
2/4/2011	7:00 - 7:15	0.25	REE	48		P		HSM, SLIPS, TRIPS & FALLS, RABBITTING TBG KEEP HANDS & FEET AWAY.
	7:15 - 17:00	9.75	REE	31	I	P		MIRU, ND WH, NU BOP, RU FLOOR & TBG EQUIP, TALLY & PU TBG, TAG CMT PLUG @ 4,410', RU POWER SWIVEL, DRLG CMT PLUG FROM 4,410' TO 4,620', RIH TO 5,450', SWI WINTERIZE EVERYTHING, SDFWE.
2/7/2011	7:00 - 7:15	0.25	REE	48		P		HSM, SLIPS, TRIPS & FALLS, RIGGING UP & DOWN, DRLG PLUGS.
	7:15 - 17:00	9.75	REE	31	I	P		TALLY & PU TBG, TAG CMT @ 7,000', RU POWER SWIVEL, BREAK CIRC, START DRLG CMT FROM 7,000' TO 7,030', CIRC HOLE CLEAN, D/O CBP @ 7,030' LOST CIRC, RIH TO CHECK FOR FILL TAG @ 9,032' BTM PERF @ 9,030' WELLSTARTED UNLOADING, RU POWER SWIVEL C/O FROM 9,032' TO 9,064' W/ 286 JTS J-55 TBG, LD 31JTS, PU 4 1/16" WEATHERFORD HANGER & LAND TBG @ 8,092.26', RD FLOOR & TBG EQUIP, ND BOP, NU WH, DROP BALL TO SHEAR OFF BIT PUMPED 40 BBLs NEVER SEEN BIT GO, RDMO TO TABBEE 34-109.  KB 14' 4 1/16" HANGER .83' <span style="float: right;">TBG</span> DELIVERED 305 JTS (YELLOW BAND) 255 JTS J-55 2 3/8" TBG 8,075.23' <span style="float: right;">TBG</span> USED 255 JTS POBS 2.20' <span style="float: right;">50</span> JTS TOOK TO TABBEE 34-109 EOT 8,092.26' SN 8,090.06'  ALL SURFACE CSG VALVES ON PAD WERE OPEN WHEN LEAVING LOCATION.
2/14/2011	16:00 -			50				WELL RETURNED TO PRODUCTION AFTER TA STATUS 2/14/11, 1261 MCFD, CP 1756#, FTP 1474#

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>
<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> STUO-01530-AST	
<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>	
<b>7. UNIT or CA AGREEMENT NAME:</b> NATURAL BUTTES	
<b>8. WELL NAME and NUMBER:</b> NBU 922-31P-3T	
<b>9. API NUMBER:</b> 43047385640000	
<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES	
<b>COUNTY:</b> UINTAH	
<b>STATE:</b> UTAH	

**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> Gas Well
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779
<b>PHONE NUMBER:</b> 720 929-6111
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0491 FSL 0971 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SESE Section: 31 Township: 09.0S Range: 22.0E Meridian: S

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: 4/10/2014	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  
 The operator wishes to recomplete the referenced well in a different formation. Please see the attached procedure. Thank you.

**Approved by the Utah Division of Oil, Gas and Mining**  
**Date:** April 21, 2014  
**By:** *D. K. Duff*

<b>NAME (PLEASE PRINT)</b> Matthew P Wold	<b>PHONE NUMBER</b> 720 929-6993	<b>TITLE</b> Regulatory Analyst I
<b>SIGNATURE</b> N/A	<b>DATE</b> 4/10/2014	



# Greater Natural Buttes Unit

**NBU 922-31P-3T  
RE-COMPLETIONS PROCEDURE  
NBU 922-31P3 PAD  
FIELD ID: GREEN WELL**

**DATE: 2/13/2014  
AFE#:  
API#: 4304738564  
USER ID: SNT239 (Frac Invoices Only)**

**COMPLETIONS ENGINEER: Jamie Berghorn, Denver, CO  
(720) 929-6230 (Office)  
(303) 909-3417 (Cell)**

**REMEMBER SAFETY FIRST!**

**Name:** NBU 922-31P-3T  
**Location:** SW SE SE Sec 31 T9S R22E  
**LAT:** 39.986607 **LONG:** -109.476758 **COORDINATE:** NAD83 (Surface Location)  
**Uintah County, UT**

**ELEVATIONS:** 5,065' GL 5,079' KB *Frac Registry TVD: 8,507'*

**TOTAL DEPTH:** 8,510' **PBTD:** 9,125'

**SURFACE CASING:** 9 5/8", 32# H-40 LTC @ 1911'  
 9 5/8", 36# J-55 LTC @ 2,351'

**PRODUCTION CASING:** 4 1/2", 11.6#, I-80 LTC @ 9,170'  
 Marker Joint **4,413'-4,433'**

**TUBULAR PROPERTIES:**

	BURST (psi)	COLLAPSE (psi)	DRIFT DIA. (in.)	CAPACITIES	
				(bbl./ft)	(gal/ft)
2 3/8" 4.7# L-80 tbg	11,200	11,780	1.901"	0.00387	0.1624
4 1/2" 11.6# I-80 (See above)	7780	6350	3.875"	0.0155	0.6528
4 1/2" 11.6# P-110	10691	7580	3.875"	0.0155	0.6528
2 3/8" by 4 1/2" Annulus				0.0101	0.4227

**TOPS:**

1,306' Green River Top  
 1,629' Bird's Nest Top  
 1,993' Mahogany Top  
 4,516' Wasatch Top  
 7,116' Mesaverde Top  
 \*Based on latest geological interpretation

**BOTTOMS:**

7,116' Wasatch Bottom  
 8,510' Mesaverde Bottom (TD)

**T.O.C. @ 450'**

\*\*Based on latest interpretation of CBL

**GENERAL NOTES:**

- **Please note that:**
  - All stages on this procedure may or may not be completed due to low frac gradients, timing, or other possible reasons. Total stages completed can be found in the post-job-report.
  - CBP depth on this procedure is only to be used as a reference. This depth is subject to change as per field operations and the discretion of the wireline supervisor and field foreman.
- A minimum of **17** tanks (cleaned lined 500 bbl) of recycled water will be required. Note: Use biocide in tanks and the water needs to be at least 45°F at pump time.
- All perforation depths are from Cutter's Induction-Density-Neutron log dated **5/1/2007**.
- **7** fracturing stages required for coverage.
- Hydraulic isolation estimated at **1215'** based upon Cutter's CBL dated 5/1/2007.
- Procedure calls for **8** CBP's (**8000** psi) .
- Calculate open perforations after each breakdown. If less than 60% of the perforations appear to be open, ball out with 15% HCl.
- **Pump scale inhibitor at 0.5 gpt. Remember to pre-load the casing with scale inhibitor.**

- FR will be pumped at 0.3 gpt for this well. This concentration will be raised or lowered on the job at the discretion of the APC foreman per the well's treating pressure.
- 30/50 mesh Ottawa sand, **Slickwater frac.**
- Maximum surface pressure **6200 psi.**
- **If casing pressure test fails (pressure loss of 1.5% psi or more), retest for 15 minutes. If pressure loss of 1.5% more on second test, notify Denver engineers. Record in Openwells. MIRU with tubing and packer. Isolate leak by pressure testing above and below the packer. RIH and set appropriate casing leak remediation. Re-pressure test to 1000 and 3500 psi for 15 minutes each and to 6200 psi for 30 minutes (specific details on remediation should be documented in OpenWells).**
- Flush volumes are the sum of slick water and acid used during displacement (include scale inhibitor as mentioned above). Stage acid and scale inhibitor if necessary to cover the next perforated interval.
- Call flush at 0 PPG @ inline densimeters. Slow to 5 bbl/min over last 10-20 bbls of flush. Flush to top perf.
- Max Sand Concentration: Wasatch 2 ppg;
- If distance between plug and top perf of previous stage is less than 50', it is considered to be tight spacing – design will over flush stage by 5 bbls (from top perf)
- **If using any chemicals for pickling tubing or H2S Scavenging, have MSDS for all chemicals prior to starting work**

#### Existing Perforations:

<u>PERFORATIONS</u>					
<u>Formation</u>	<u>Zone</u>	<u>Top</u>	<u>Btm</u>	<u>spf</u>	<u>Shots</u>
Wasatch		7080	7086	4	24
MESA VERDE		7258	7262	4	16
MESA VERDE		7408	7410	3	6
MESA VERDE		7424	7429	4	20
MESA VERDE		7477	7480	4	12
MESA VERDE		7493	7496	3	9
MESA VERDE		7587	7589	3	6
MESA VERDE		7656	7657	4	4
MESA VERDE		7726	7730	4	16
MESA VERDE		7838	7840	4	8
MESA VERDE		7886	7889	4	12
MESA VERDE		8198	8199	4	4
MESA VERDE		8373	8376	4	12
MESA VERDE		8415	8416	4	4
MESA VERDE		8445	8447	3	6
MESA VERDE		8475	8480	4	20
MESA VERDE		8598	8604	4	24
MESA VERDE		8716	8718	4	8
MESA VERDE		8754	8757	4	12
MESA VERDE		8929	8932	4	12
MESA VERDE		8969	8974	4	20
MESA VERDE		8999	9001	4	8
MESA VERDE		9028	9030	3	6

**Relevant History:**

05/02/2007: Originally completed in Mesaverde formation (6 stages)

11/20/2013: Last slickline report:

Traveled to location rigged up ran jdc set down @ 8073 came out with a viper plunger ran jdc set down @ 8073 jarred on spring came out with a stainless steel spring ran td set down @ 8948 came out ran scratcher out the tubing came out ran 1.9 broach set down @ 8073 came out tubing was clean spring and plunger looks good drop and chase stainless steel spring and viper plunger to btm came out rigged down traveled to the next location

02/07/2011: Tubing Currently Landed @~8092'

**H2S History:**

Location Name	WINS No. (wel...)	Production Date	Gas (avg mcf...)	Water (avg bb...)	Oil (avg bbl/day)	Avg. BOE/day	LGR (bbl/Mmcf)	Max H2S Sep.	Separator H2.	Tank H2S (lbs)	Pr
NBU 922-31P-3T	93640	1/31/2010	509.81	15.26	1.26	86.23	32.40	8.00	0.37	0.00	
NBU 922-31P-3T	93640	2/28/2010	505.11	20.04	1.43	85.61	42.49	6.00	0.27	0.00	
NBU 922-31P-3T	93640	3/31/2010	502.45	17.03	1.35	85.10	36.59	4.00	0.18	0.00	
NBU 922-31P-3T	93640	4/30/2010	494.33	17.47	1.20	83.59	37.76	12.00	0.53	0.00	
NBU 922-31P-3T	93640	5/31/2010	480.45	12.68	0.52	80.59	27.46	6.00	0.26	0.00	
NBU 922-31P-3T	93640	6/30/2010	487.47	17.10	1.47	82.71	38.09	10.00	0.44	0.00	
NBU 922-31P-3T	93640	7/31/2010	473.06	15.35	0.61	79.46	33.75	10.00	0.42	0.00	
NBU 922-31P-3T	93640	8/31/2010	442.68	8.97	0.65	74.42	21.72	38.00	1.51	0.00	
NBU 922-31P-3T	93640	9/30/2010	15.73	0.00	0.00	2.62	0.00				
NBU 922-31P-3T	93640	10/31/2010	0.00	0.00	0.00	0.00					
NBU 922-31P-3T	93640	11/30/2010	0.00	0.00	0.00	0.00					
NBU 922-31P-3T	93640	12/31/2010	0.00	0.00	0.00	0.00					
NBU 922-31P-3T	93640	1/31/2011	0.00	0.00	0.00	0.00					
NBU 922-31P-3T	93640	2/28/2011	1238.50	4.25	0.54	206.95	3.86				
NBU 922-31P-3T	93640	3/31/2011	716.23	28.26	1.52	120.89	41.57	15.00	0.96	0.00	
NBU 922-31P-3T	93640	4/30/2011	515.87	15.33	0.90	86.88	31.47	8.00	0.37	0.00	
NBU 922-31P-3T	93640	5/31/2011	454.81	12.74	0.74	76.54	29.65				
NBU 922-31P-3T	93640	6/30/2011	415.30	14.80	0.50	69.72	36.84				
NBU 922-31P-3T	93640	7/31/2011	395.81	12.29	0.55	66.52	32.44				
NBU 922-31P-3T	93640	8/31/2011	373.00	12.29	0.39	62.55	33.99				
NBU 922-31P-3T	93640	9/30/2011	347.80	12.30	0.37	58.33	36.42				
NBU 922-31P-3T	93640	10/31/2011	342.94	11.60	0.39	57.54	35.84				
NBU 922-31P-3T	93640	11/30/2011	323.97	31.77	4.63	58.63	112.36				
NBU 922-31P-3T	93640	12/31/2011	309.87	36.10	4.97	56.61	132.52				
NBU 922-31P-3T	93640	1/31/2012	289.58	30.10	3.26	51.52	115.18				
NBU 922-31P-3T	93640	2/28/2012	305.28	21.76	1.45	52.33	76.02				
NBU 922-31P-3T	93640	3/31/2012	320.52	23.35	2.00	55.42	79.11				
NBU 922-31P-3T	93640	4/30/2012	303.53	24.00	2.00	52.59	85.66	42.00	1.14	0.00	
NBU 922-31P-3T	93640	5/31/2012	288.16	24.00	2.16	50.19	90.79	16.00	0.41	0.00	
NBU 922-31P-3T	93640	6/30/2012	281.13	24.00	1.77	48.62	91.65				
NBU 922-31P-3T	93640	7/31/2012	268.26	23.35	1.90	46.61	94.16				
NBU 922-31P-3T	93640	8/31/2012	261.81	16.61	0.65	44.28	65.92				
NBU 922-31P-3T	93640	9/30/2012	258.57	13.20	0.00	43.09	51.05	0.00	0.00	0.00	
NBU 922-31P-3T	93640	10/31/2012	255.03	13.35	0.00	42.51	52.37	0.00	0.00	0.00	
NBU 922-31P-3T	93640	11/30/2012	246.40	12.93	0.00	41.07	52.49	22.00	0.49	0.00	
NBU 922-31P-3T	93640	12/31/2012	234.32	11.55	0.00	39.05	49.28				
NBU 922-31P-3T	93640	1/31/2013	225.16	9.74	0.00	37.53	43.27				
NBU 922-31P-3T	93640	2/28/2013	230.79	8.04	0.00	38.46	34.82	20.00	0.41	0.00	
NBU 922-31P-3T	93640	3/31/2013	215.29	8.77	0.00	35.88	40.76				
NBU 922-31P-3T	93640	4/30/2013	223.17	9.70	0.17	37.36	44.21				
NBU 922-31P-3T	93640	5/31/2013	218.48	10.00	0.77	37.19	49.31	8.00	0.16	0.00	
NBU 922-31P-3T	93640	6/30/2013	214.10	9.77	0.70	36.38	48.89				
NBU 922-31P-3T	93640	7/31/2013	212.68	10.00	0.61	36.06	49.90				
NBU 922-31P-3T	93640	8/31/2013	198.45	9.97	0.65	33.72	53.48	38.00	0.68	0.00	
NBU 922-31P-3T	93640	9/30/2013	207.40	9.67	0.57	35.13	50.31				
NBU 922-31P-3T	93640	10/31/2013	204.06	9.74	0.65	34.66	50.90				
NBU 922-31P-3T	93640	11/30/2013	198.47	13.30	0.63	33.88	69.85	38.00	0.68	0.57	
NBU 922-31P-3T	93640	12/31/2013	187.06	13.06	0.68	31.85	73.46	0.00	0.00	0.00	
NBU 922-31P-3T	93640	1/31/2014	188.23	13.26	0.65	32.02	73.86	0.00	0.00	0.00	
NBU 922-31P-3T	93640	2/28/2014	174.21	10.57	0.71	29.75	64.78				
NBU 922-31P-3T	93640	3/31/2014	164.45	9.56	1.61	29.02	67.91				

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

1. MIRU. Control well with recycled water and biocide as required. ND WH, NU BOP's and test.
2. The tubing is below the proposed CBP depth. TOO H with 2-3/8", 4.7#, J-55 tubing. Visually inspect for scale and consider replacing if needed.
3. If tbg looks ok consider running a gauge ring to 7080'. Otherwise P/U a mill and C/O to 7080'.
4. Set 8000 psi CBP at ~ 7077'. ND BOPs and NU frac valves Test frac valves and casing to to **6200 psi** for 15 minutes; if pressure test fails contact Denver engineer and see notes above. **Lock OPEN the Braden head valve**. Flow from annulus will be visually monitored throughout stimulation. If release occurs, stimulation will be shut down. Well conditions will be assessed and actions taken as necessary to secure the well. UDOGM will be notified if a release to the annulus occurs.
5. Pressure test frac lines to max surface pressure + 1000 psi for 15 minutes. Pressure loss should be less than 10% to be considered acceptable. Check and correct for existing leaks.
6. Perf the following with 3-1/8" gun, 19 gm, 0.40" hole:
 

Zone	From	To	spf	# of shots
WASATCH	7016	7018	4	8
WASATCH	7060	7064	4	16
7. Breakdown perfs and establish injection rate (include scale inhibitor in fluid). Spot 250 gals of 15% HCL and let soak 5-10 min. Fracture as outlined in Stage 1 on attached listing. Under-displace to ~7016' and trickle 250gal 15%HCL w/ scale inhibitor in flush .
8. Set 8000 psi CBP at ~6802'. Perf the following 3-1/8" gun, 19 gm, 0.40" hole:
 

Zone	From	To	spf	# of shots
WASATCH	6598	6600	4	8
WASATCH	6768	6772	4	16
9. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 2 on attached listing. Under-displace to ~6598' and trickle 250gal 15%HCL w/ scale inhibitor in flush.
10. Set 8000 psi CBP at ~6495'. Perf the following with 3-1/8" gun, 19 gm, 0.40" hole:
 

Zone	From	To	spf	# of shots
WASATCH	6317	6318	3	3
WASATCH	6332	6333	3	3
WASATCH	6392	6394	3	6
WASATCH	6416	6418	3	6
WASATCH	6480	6482	3	6
11. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 3 on attached listing. Under-displace to ~6317' and trickle 250gal 15%HCL w/ scale inhibitor in flush.
12. Set 8000 psi CBP at ~6238'. Perf the following with 3-1/8" gun, 19 gm, 0.40" hole:
 

Zone	From	To	spf	# of shots
WASATCH	6052	6053	3	3
WASATCH	6062	6063	3	3

WASATCH	6121	6123	3	6
WASATCH	6198	6200	3	6
WASATCH	6206	6208	3	6

13. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 4 on attached listing. Under-displace to ~6052' and trickle 250gal 15%HCL w/ scale inhibitor in flush.

14. Set 8000 psi CBP at ~5996'. Perf the following with 3-1/8" gun, 19 gm, 0.40" hole:

Zone	From	To	spf	# of shots
WASATCH	5928	5930	3	6
WASATCH	5936	5938	3	6
WASATCH	5944	5946	3	6
WASATCH	5964	5966	3	6

15. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 5 on attached listing. Under-displace to ~5928' and trickle 250gal 15%HCL w/ scale inhibitor in flush.

16. Set 8000 psi CBP at ~5658'. Perf the following with 3-1/8" gun, 19 gm, 0.40" hole:

Zone	From	To	spf	# of shots
WASATCH	5555	5556	3	3
WASATCH	5571	5572	3	3
WASATCH	5616	5618	3	6
WASATCH	5622	5624	3	6
WASATCH	5626	5628	3	6

17. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 6 on attached listing. Under-displace to ~5555' and trickle 250gal 15%HCL w/ scale inhibitor in flush.

18. Set 8000 psi CBP at ~5310'. Perf the following with 3-1/8" gun, 19 gm, 0.40" hole:

Zone	From	To	spf	# of shots
WASATCH	5197	5198	3	3
WASATCH	5219	5220	3	3
WASATCH	5232	5234	3	6
WASATCH	5264	5266	3	6
WASATCH	5278	5280	3	6

19. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 7 on attached listing. Under-displace to ~5197' and flush only with recycled water.

20. Set 8000 psi CBP at ~5147'.

21. ND Frac Valves, NU and Test BOPs.

22. TIH with 3 7/8" bit, pump off sub, SN and tubing.

23. Drill 7 plugs and clean out to a depth of 7070'. This well WILL NOT be commingled at this time.

24. Shift pump open bit sub and land tubing at 6568'. Flow back completion load. RDMO.

25. MIRU, POOH tbg and POBS. TIH with POBS.

26. Drill last plug @ 7077' clean out to PBTD at 9125'. Shear off bit and land tubing at ±8092'. This well WILL be commingled at this time. **NOTE: If the CBP between the initial completion and the recompleted sands has been in the well for more than 30 calendar days from the beginning of flowback for the recompletion, a sundry will need to be filed with the state. Contact the Regulatory group to file the sundry prior to commencing work.**
27. Clean out well with foam and/or swabbing unit until steady flow has been established from completion.
28. **Leave surface casing valve open.** Monitor and report any flow from surface casing. RDMO

Completion Engineer

Jamie Berghorn: 303/909-3417, 720/929-6230

Production Engineer

Mickey Doherty: 406/491-7294, 435/781-9740

Ronald Trigo: 352/213-6630, 435/781-7037

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

Heath Pottmeyer: 740/525-3445, 435/781-9789

Anqi Yang: 435/828-6505, 435/781-7015

Completion Supervisor Foreman

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

Completion Manager

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

Vernal Main Office

435/789-3342

Emergency Contact Information—Call 911

Vernal Regional Hospital Emergency: 435-789-3342

Police: (435) 789-5835

Fire: 435-789-4222

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

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

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

**\*\* PROCEDURE FOR PUMPING H2S SCAVENGER WITHOUT ACID**

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

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

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

Service Company Supplied Chemicals - Job Totals

Friction Reducer	87	gals @	0.3	GPT
Surfactant	290	gals @	1.0	GPT
Clay Stabilizer	0	gals @	0.0	GPT
15% Hcl	1750	gals @	250	gal/stg
Iron Control for acid	9	gals @	5.0	GPT of acid
Surfactant for acid	4	gals @	2.0	GPT of acid
Corrosion Inhibitor for acid	11	gals @	6.0	GPT of acid

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

Scale Inhibitor	145	gals pumped	0.5	GPT (see schedule)
Biocide	87	gals @	0.3	GPT

**Fracturing Schedules**  
**NBU 922-31P-3T**  
**Slickwater Frac**

Casing Size	4.5
Recomplete?	Y
Pad?	Y
ACTS?	N
Days on Pad?	3
Wells on Pad?	4

Swabbing Days	3
Production Log	0
DFIT	0
GR only	Y
Low Scale	Y
Clay Stab.	N

Enter Number of swabbing days here for recompletes  
 Enter 1 if running a Production Log  
 Enter Number of DFITs  
 Enter Y if only Gamma Ray log was run  
 Enter Y if a LOW concentration of Scale Inhibitor will be pumped  
 Enter N if there will be NO Clay stabilizer

Copy to new book

Stage	Zone	Perfs		SPF	Holes	Rate BPM	Fluid Type	Initial ppg	Final ppg	Fluid	Volume gals	Cum Vol gals	Volume BBLs	Cum Vol BBLs	Fluid % of frac	Sand % of frac	Sand lbs	Cum. Sand lbs	Foilage from CBP to Flush	Scale Inhib., gal.	
		Top, ft.	Bot., ft.																		
1	WASATCH	7016	7018	4	8	Varied	Pre-Pad & Pump-in test	4.5		Slickwater	4,580	4,580	109	109							2
	WASATCH	7060	7064	4	16	0	ISIP and 5 min ISIP	Y		Slickwater	3,063	7,643	73	182	15.0%	0.0%	0	0			2
	WASATCH					50	Slickwater Pad	Y	0.25	Slickwater	10,210	17,853	243	425	50.0%	37.3%	6,381	6,381			5
	WASATCH					50	Slickwater Ramp	N	1	Slickwater	7,147	25,000	170	595	35.0%	62.7%	10,720	17,102			4
	WASATCH					50	Flush (4-1/2)	3		Slickwater	4,580	29,580	109	704			17,102	17,102			2
	WASATCH					50	ISDP and 5 min ISDP	4		Slickwater		29,580	109	704			17,102	17,102			0
	WASATCH									Sand laden	20,420	20,420					1,140	1,140	lbs sand/ft		15
					24	14.1	<< Above pump time (min)			Slickwater	0	0	0		7.016	gal/ft	1,361	1,361	CBP depth	214	0
2	WASATCH	6598	6600	4	8	Varied	Pump-in test			Slickwater	3,104	3,104	74	74	15.0%	0.0%	0	0			2
	WASATCH	6768	6772	4	16	0	ISIP and 5 min ISIP	Y		Slickwater	13,450	13,450	246	320	50.0%	37.3%	6,467	6,467			5
	WASATCH					50	Slickwater Pad	Y	0.25	Slickwater	7,242	20,693	172	493	35.0%	62.7%	10,864	17,330			4
	WASATCH					50	Slickwater Ramp	N	1	Slickwater	4,307	25,000	103	595			17,330	17,330			2
	WASATCH					50	Flush (4-1/2)	3		Slickwater		25,000	103	595			17,330	17,330			0
	WASATCH					50	ISDP and 5 min ISDP	4		Slickwater		25,000	103	595			17,330	17,330			0
	WASATCH									Sand laden	20,693	20,693					900	900	lbs sand/ft		13
					24	11.9	<< Above pump time (min)			Slickwater	0	0	0		6.598	gal/ft	1,075	1,075	CBP depth	103	0
3	WASATCH	6317	6318	3	3	Varied	Pump-in test			Slickwater	6,120	6,120	146	146	15.0%	0.0%	0	0			3
	WASATCH	6332	6333	3	3	0	ISIP and 5 min ISIP	Y		Slickwater	20,400	26,520	486	631	50.0%	37.3%	12,750	12,750			10
	WASATCH	6392	6394	3	6	50	Slickwater Pad	Y	0.25	Slickwater	14,280	40,800	340	971	35.0%	62.7%	21,420	34,170			7
	WASATCH	6416	6418	3	6	50	Slickwater Ramp	N	1	Slickwater	4,124	44,924	98	1,070			34,170	34,170			2
	WASATCH	6480	6482	3	6	50	Flush (4-1/2)	3		Slickwater		44,924	98	1,070			34,170	34,170			0
	WASATCH					50	ISDP and 5 min ISDP	4		Slickwater		44,924	98	1,070			34,170	34,170			0
	WASATCH									Sand laden	40,800	40,800					670	670	lbs sand/ft		22
					24	21.4	<< Above pump time (min)			Sand laden	40,800	40,800					800	800	CBP depth	79	0

Stage	Zone	Perfs		Holes	Rate BPM	Fluid Type	Initial ppg	Final ppg	Fluid	Volume gals	Cum Vol gals	Volume BBLs	Cum Vol BBLs	Fluid % of frac	Sand % of frac	Sand lbs	Cum. Sand lbs	Footage from CBP to Flush	Scale Inhib., gal.	
		Top. ft.	Bot. ft																	
4	WASATCH	6053	6053	3	Varied	Pump-in test			Slickwater	0	0	0	0							
	WASATCH	6062	6063	3	0	ISIP and 5 min ISIP	0.25		Slickwater	5,790	5,790	138	138	15.0%	0.0%	0	0		3	
	WASATCH	6121	6123	3	50	Slickwater Pad		1	Slickwater	19,300	25,090	460	597	50.0%	37.3%	12,063	12,063		10	
	WASATCH	6198	6200	3	50	Slickwater Ramp	1	2	Slickwater	13,510	38,600	322	919	35.0%	62.7%	20,265	32,328		7	
	WASATCH	6206	6208	3	50	Flush (4-1/2)			Slickwater	3,951	42,551	94	1,013				32,328		2	
	WASATCH				50	ISDP and 5 min ISDP			Slickwater		42,551	94	1,013				32,328		0	
	WASATCH								Sand laden Volume	38,600					gal/ft	800	670	lbs sand/ft	56	21
	WASATCH					20.3	<< Above pump time (min)			Slickwater	0	0	0							
	WASATCH	5928	5930	3	Varied	Pump-in test			Slickwater	5,460	5,460	130	130	15.0%	0.0%	0	0		3	
	WASATCH	5938	5938	3	0	ISIP and 5 min ISIP	0.25		Slickwater	18,200	23,660	433	563	50.0%	37.3%	11,375	11,375		9	
WASATCH	5944	5946	3	50	Slickwater Pad		1	Slickwater	12,740	36,400	303	867	35.0%	62.7%	19,110	30,485		6		
WASATCH	5964	5966	3	50	Slickwater Ramp	1	2	Slickwater	3,870	40,270	92	959				30,485		2		
WASATCH				50	Flush (4-1/2)			Slickwater		40,270	92	959				30,485		0		
WASATCH								Sand laden Volume	36,400					gal/ft	800	670	lbs sand/ft	270	20	
5	WASATCH	5556	5556	3	19.2	<< Above pump time (min)			Slickwater	0	0	0	0							
	WASATCH	5571	5572	3	Varied	Pump-in test			Slickwater	4,080	4,080	97	97	15.0%	0.0%	0	0		2	
	WASATCH	5618	5618	3	0	ISIP and 5 min ISIP	0.25		Slickwater	13,600	17,680	324	421	50.0%	37.3%	8,500	8,500		7	
	WASATCH	5622	5624	3	50	Slickwater Ramp	1	2	Slickwater	9,520	27,200	227	648	35.0%	62.7%	14,280	22,780		5	
	WASATCH	5626	5628	3	50	Flush (4-1/2)			Slickwater	3,626	30,826	86	734				22,780		2	
	WASATCH				50	ISDP and 5 min ISDP			Slickwater		30,826	86	734				22,780		0	
	WASATCH								Sand laden Volume	27,200					gal/ft	800	670	lbs sand/ft	245	15
	WASATCH					14.7	<< Above pump time (min)			Slickwater	0	0	0							
	WASATCH								Sand laden Volume	27,200					gal/ft	800	670	lbs sand/ft	245	15



NBU 922-31P-3T  
Perforation and CBP Summary

Stage	Zones	Perforations		SPF	Holes	Fracture Coverage		
		Top, ft	Bottom, ft					
1	WASATCH	7016	7018	4	8	7016	to	7069.75
	WASATCH	7060	7064	4	16			
	WASATCH							
	WASATCH							
	WASATCH							
	WASATCH							
	WASATCH							
	# of Perfs/stage				24	CBP DEPTH	6,802	
2	WASATCH	6598	6600	4	8	6595	to	6778
	WASATCH	6768	6772	4	16			
	WASATCH							
	WASATCH							
	WASATCH							
	WASATCH							
	WASATCH							
	# of Perfs/stage				24	CBP DEPTH	6,495	
3	WASATCH	6317	6318	3	3	6317	to	6497
	WASATCH	6332	6333	3	3			
	WASATCH	6392	6394	3	6			
	WASATCH	6416	6418	3	6			
	WASATCH	6480	6482	3	6			
	WASATCH							
	WASATCH							
	WASATCH							
# of Perfs/stage				24	CBP DEPTH	6,238		
4	WASATCH	6052	6053	3	3	6052	to	6217
	WASATCH	6062	6063	3	3			
	WASATCH	6121	6123	3	6			
	WASATCH	6198	6200	3	6			
	WASATCH	6206	6208	3	6			
	WASATCH							
	WASATCH							
	WASATCH							
# of Perfs/stage				24	CBP DEPTH	5,996		
5	WASATCH	5928	5930	3	6	5928	to	5976
	WASATCH	5936	5938	3	6			
	WASATCH	5944	5946	3	6			
	WASATCH	5964	5966	3	6			
	WASATCH							
	WASATCH							
	WASATCH							
	WASATCH							
# of Perfs/stage				24	CBP DEPTH	5,658		
6	WASATCH	5555	5556	3	3	5555	to	5636
	WASATCH	5571	5572	3	3			
	WASATCH	5616	5618	3	6			
	WASATCH	5622	5624	3	6			
	WASATCH	5626	5628	3	6			
	WASATCH							
	WASATCH							
	WASATCH							
# of Perfs/stage				24	CBP DEPTH	5,310		
7	WASATCH	5197	5198	3	3	5191	to	5298
	WASATCH	5219	5220	3	3			
	WASATCH	5232	5234	3	6			
	WASATCH	5264	5266	3	6			
	WASATCH	5278	5280	3	6			
	WASATCH							
	WASATCH							
	WASATCH							
# of Perfs/stage				24	CBP DEPTH	5,147		
Totals				168	Total Pay		308.8	

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>
<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> STUO-01530-AST	
<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>	
<b>7. UNIT or CA AGREEMENT NAME:</b> NATURAL BUTTES	
<b>8. WELL NAME and NUMBER:</b> NBU 922-31P-3T	
<b>9. API NUMBER:</b> 43047385640000	
<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES	
<b>COUNTY:</b> UINTAH	
<b>STATE:</b> UTAH	

**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> Gas Well	<b>11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA</b>
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.	
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	<b>PHONE NUMBER:</b> 720 929-6100
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0491 FSL 0971 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SESE Section: 31 Township: 09.0S Range: 22.0E Meridian: S	

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: 6/24/2014	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input checked="" type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

The NBU 922-31P-3T was returned to production 06/24/2014 after a recomple. Producing from the WASTACH. CBP over MESAVERDE @ 7077'.

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

**FOR RECORD ONLY**

June 25, 2014

<b>NAME (PLEASE PRINT)</b> Doreen Green	<b>PHONE NUMBER</b> 435 781-9758	<b>TITLE</b> Regulatory Analyst II
<b>SIGNATURE</b> N/A	<b>DATE</b> 6/25/2014	

**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  GAS WELL  DRY  OTHER \_\_\_\_\_

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

2. NAME OF OPERATOR: **KERR MCGEE OIL & GAS ONSHORE, L.P.**

3. ADDRESS OF OPERATOR: **P.O.BOX 173779 CITY DENVER STATE CO ZIP 80217** PHONE NUMBER: **(720) 929-6000**

4. LOCATION OF WELL (FOOTAGES)  
AT SURFACE: **SESE 491 FSL AND 971 FEL**  
AT TOP PRODUCING INTERVAL REPORTED BELOW: \_\_\_\_\_  
AT TOTAL DEPTH: \_\_\_\_\_

11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:  
**SESE 31 9S 22E S**

12. COUNTY **UINTAH** 13. STATE **UTAH**

14. DATE SPUDDED: **3/19/2007** 15. DATE T.D. REACHED: **4/17/2007** 16. DATE COMPLETED: **6/24/2014** ABANDONED  READY TO PRODUCE  17. ELEVATIONS (DF, RKB, RT, GL): **5079 RKB**

18. TOTAL DEPTH: MD **9,170** TVD \_\_\_\_\_ 19. PLUG BACK T.D.: MD **9,125** 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)  
**CBL-CCL-GR**

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

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

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
20"	14" STL	36.7		40		28			
12 1/4"	9 5/8" H-40	32.3# 36#		2,430		1,150		0	
7 7/8"	4 1/2" I-80	11.6#		9,170		1,683		450	

**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"	8,089							

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	5,197	7,064			5,197 7,064	0.40	168	Open <input checked="" type="checkbox"/>	Squeezed <input type="checkbox"/>
(B)								Open <input type="checkbox"/>	Squeezed <input type="checkbox"/>
(C)								Open <input type="checkbox"/>	Squeezed <input type="checkbox"/>
(D)								Open <input type="checkbox"/>	Squeezed <input type="checkbox"/>

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

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
5197-7064	PUMP 7306 BBLS SLICK H2O, 42 BBLS 15% HCL ACID & 218,692 LBS 30/50 MESH SAND

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

30. WELL STATUS: **PROD**

31. INITIAL PRODUCTION

INTERVAL A (As shown in item #26)

DATE FIRST PRODUCED: 6/24/2014		TEST DATE: 7/8/2014		HOURS TESTED: 24		TEST PRODUCTION RATES: →	OIL - BBL: 0	GAS - MCF: 675	WATER - BBL: 0	PROD. METHOD: FLOWING
CHOKE SIZE: 32/64	TBG. PRESS. 148	CSG. PRESS. 485	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL - BBL: 0	GAS - MCF: 675	WATER - BBL: 0	INTERVAL STATUS: PROD

INTERVAL B (As shown in item #26)

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

INTERVAL C (As shown in item #26)

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

INTERVAL D (As shown in item #26)

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

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

SOLD

33. SUMMARY OF POROUS ZONES (Include Aquifers):

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

34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
				GREEN RIVER	1,306
				BIRD'S NEST	1,629
				MAHOGANY	1,993
				WASATCH	4,516
				MESAVERDE	7,116

35. ADDITIONAL REMARKS (Include plugging procedure)

Attached is the recompletion history and perforation report. Casing in the well is as previously reported on the original Completion Report. The well was originally completed in the Wasatch and Mesaverde from 7080-9030. The well was recompleted with an iso plug set at 7077 ft.; new perforations in the Wasatch are from 5197-7064. The iso plug was drilled out on 7/2/14 and the well is producing from commingled perforations.

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

NAME (PLEASE PRINT) ILA BEALE TITLE STAFF REGULATORY SPECIALIST  
 SIGNATURE  DATE 7-21-2014

This report must be submitted within 30 days of

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

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

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

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

US ROCKIES REGION  
**Operation Summary Report**

Well: NBU 922-31P-3T GREEN

Spud Date: 4/9/2007

Project: UTAH-UINTAH

Site: NBU 922-31P3 PAD

Rig Name No:

Event: RECOMPL/RESEREVEADD

Start Date: 4/24/2014

End Date: 6/24/2014

Active Datum: RKB @5,078.99usft (above Mean Sea Level)

UWI: NBU 922-31P-3T

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
4/24/2014	7:00 - 15:00	8.00	MAINT	35				Travel to location (1hr) rig up rih with JDC down to 5211 pooh had viper plunger little worn rih with scratcher started hitting trash at 580' -5450 beat through ran down to sn pooh worked through trash pooh blew tubing rih with 1.90 broach down to 580 beat down through trash got down to sn pooh worked through tight spots for awhile pooh blew tubing rih with JDC down to sn latched spring hit jars and spangs for awhile broke free pooh had stainless spring building scale rih with bailer down to sn got through sn ran down to td pooh bailer came back empty cleaned spring changed cups dropped and chased spring to bottom reset in sn pooh dropped sand plunger returned well to sales SAFETY = JSA.
4/28/2014	7:00 - 7:15	0.25	SUBSPR	48		P		ROAD RIG TO LOCATION FROM RANGELY. LOAD OUT EQUIPMENT FROM NBU 922-29D PAD. MOVE TO LOCATION. TP= 150#. SICP= 240#. MIRU. BLOW DOWN WELL. CNTRL TBG W/ 30BBLS TMAC. CNTRL CSG W/ 20BBLS TMAC. NDWH. NUBOP. R/U FLOOR & TBG EQUIP. UN-LAND WELL. MIRU SCANNERS.  POOH WHILE SCANNING 255JTS 2-3/8" J-55 TBNG. SCAN RESULTS AS FOLLOWS:  2-3/8" J-55 Y-BND = 43JTS.  2-3/8" J-55 B-BND = 74JTS. DUE TO MINOR PITTING & WALL LOSS.  2-3/8" J-55 R-BND = 138JTS. NO EXTERNAL SCALE PRESENT. VERY LIGHT INTERNAL SCALE ON LAST 25JTS. JTS REJECTED DUE TO MODERATE TO HEAVY WALL LOSS & PITTING. WORST INTERVAL FROM JT#145 TO JT#237. JT#223 AND JT#226 WERE @ 85% WALL LOSS. JTS THAT WERE REJECTED ALSO HAD DEEP PITTING ON CHAMFER.  RDMO SCANNERS. SWIFN. SDFN. SAFETY = JSA.
	7:15 - 11:45	4.50	SUBSPR	30		P		
	11:45 - 17:00	5.25	SUBSPR	31	I	P		
4/29/2014	7:00 - 7:15	0.25	SUBSPR	48		P		SICP= 300#. BLOW DOWN WELL. CNTRL CSG W/ 30BBLS TMAC. MIRU WIRELINE. P/U & RIH W/ 3.750" GR-JB TO 7085'. POOH. P/U & RIH W/ 4-1/2" HAL 10K CBP. SET @ 7077'. POOH W/ WIRELINE. RDMO WIRELINE.  R/D FLOOR & TBG EQUIP. NDBOP. NUFV. LOAD CSG W/ 95BBLS TMAC. PRESSURE TEST CSG GOOD @ 3000#. LOST 5# IN 15 MIN. BLEED OFF PRESSURE. SWI. RDMO.
	7:15 - 9:00	1.75	SUBSPR	34	I	P		
	9:00 - 10:00	1.00	SUBSPR	52	A	P		

US ROCKIES REGION  
Operation Summary Report

Well: NBU 922-31P-3T GREEN

Spud Date: 4/9/2007

Project: UTAH-UINTAH

Site: NBU 922-31P3 PAD

Rig Name No:

Event: RECOMPL/RESEREVEADD

Start Date: 4/24/2014

End Date: 6/24/2014

Active Datum: RKB @5,078.99usft (above Mean Sea Level)

UWI: NBU 922-31P-3T

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
5/7/2014	7:00 - 8:00	1.00	SUBSPR	52	B	P		FILL SURFACE CSG. MIRU CAMERON QUICK TEST. PRESSURE TEST CSG & FRAC VALVES 1ST PSI TEST T/ 6200 PSI. HELD FOR 15 MIN LOST -42 PSI. NO COMMUNICATION OR MIGRATION WITH SURFACE CSG BLEED OFF PSI.  PRESSURE TEST 8 5/8 X 4 1/2 TO 540 PSI HELD FOR 5 MIN LOST -384 PSI, BLED PSI OFF, REINSTALLED POP OFF SWIFN NO PRESSURE ON SURFACE CASING FILLED SURFACE WITH 1 BBL H2O
6/6/2014	7:45 - 8:00	0.25	SUBSPR	48		P		HSM, OPENING VALVES
6/9/2014	6:45 - 7:00	0.25	FRAC	48		P		HSM, PRE JOB INSTRUCTIONS
	7:00 - 17:30	10.50	FRAC	36	B	P		REFER TO STIMULATION PJR FOR FLUID, SAND AND CHEMICAL VOLUMES, ALL STAGES WERE PERFORATED ACCORDING TO PERF RECORD IN OPEN WELLS, ALL STAGES WERE STIMULATED TO VENDOR POST JOB REPORT. ALL PLUGS ARE HALIBURTON 8K CBPS  FRAC STG #1] WHP=363#, BRK DN PERFS=4,716#, @=4.1 BPM, INTIAL ISIP=3,035#, FG=.86, FINAL ISIP=2,509#, FG=..79,  SET PLUG & PERFORATE STG #2  FRAC STG #2] WHP=659#, BRK DN PERFS=4,104#, @=5 BPM, INTIAL ISIP=2,280#, FG=.77, FINAL ISIP=1,961#, FG=.73,  SET PLUG & PERFORATE STG #3 [MISSFIRE PLUG SET NOT ALL GUNS FIRED]  FRAC STG #3] WHP=113#, BRK DN PERFS=3,828#, @=3.9 BPM, INTIAL ISIP=1,960#, FG=.74, FINAL ISIP=1,824#, FG=.72,  SET PLUG & PERFORATE STG #4 [MISSFIRE]  FRAC STG #4] WHP=84#, BRK DN PERFS=2,862#, @=3.7 BPM, INTIAL ISIP=1,928#, FG=.75, FINAL ISIP=1,471#, FG=.67,  SET PLUG PERFORATE STG #5 SWIFN
6/10/2014	6:30 - 6:45	0.25	FRAC	48		P		HSM, RED ZONE

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

Well: NBU 922-31P-3T GREEN		Spud Date: 4/9/2007	
Project: UTAH-UINTAH		Site: NBU 922-31P3 PAD	Rig Name No:
Event: RECOMPL/RESEREVEADD		Start Date: 4/24/2014	End Date: 6/24/2014
Active Datum: RKB @5,078.99usft (above Mean Sea Level)		UWI: NBU 922-31P-3T	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	6:45 - 15:00	8.25	FRAC	36	B	P		FRAC STG #5] WHP=804#, BRK DN PERFS=2,347#, @=3.3 BPM, INTIAL ISIP=1,189#, FG=.63, FINAL ISIP=1,483#, FG=.68,  SET PLUG AND PERFORATE STG #6  FRAC STG #6] WHP=909#, BRK DN PERFS=5,053#, @=4.9 BPM, INTIAL ISIP=2,241#, FG=.83, FINAL ISIP=1,490#, FG=.69,  SET PLUG AND PERFORATE STG #7  FRAC STG #7] WHP=475#, BRK DN PERFS=2,581#, @=3.6 BPM, INTIAL ISIP=1,282#, FG=.67, FINAL ISIP=1,597#, FG=.74,  SET TOP KILL  TOTAL BBLs=7,347 TOTAL SAND=218,692#
6/23/2014	7:00 - 7:15	0.25	DRLOUT	48		P		HSM, SLIPS, TRIPS & FALLS, RD & RU, PU TBG, P/S
	7:15 - 15:00	7.75	DRLOUT	31	I	P		4 OF 4, RD OFF NBU 922-31O3AS, MIRU, ND WH, NU BOP, RU FLOOR & TBG EQUIP, PU 3 7/8" BIT, PUMP OPEN SUB, 1.875" S/N, TALLY & PU TBG TO KILL PLUG, RU P/S, INSTAL W/R, FILL TBG & BRK CIRC, PT BOP TO 3000 PSI GOOD, READY TO D/O CBP'S IN AM, SWI, SDFN
6/24/2014	7:00 - 7:15	0.25	DRLOUT	48		P		HSM, SLIPS, TRIPS & FALLS, D/O CBP'S, LAND TBG, PUMP OPEN SUB, PT LINES

## US ROCKIES REGION

## Operation Summary Report

Well: NBU 922-31P-3T GREEN

Spud Date: 4/9/2007

Project: UTAH-UINTAH

Site: NBU 922-31P3 PAD

Rig Name No:

Event: RECOMPL/RESEREVEADD

Start Date: 4/24/2014

End Date: 6/24/2014

Active Datum: RKB @5,078.99usft (above Mean Sea Level)

UWI: NBU 922-31P-3T

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	7:15 - 16:00	8.75	DRLOUT	44	C	P		<p>4 OF 4, SURFACE CSG VALVE OPEN &amp; LOCKED, D/O 7 CBP'S</p> <p>C/O 15' SAND, TAG 1ST PLUG @ 5147', KICK 200 PSI, CSG PRESS 0 PSI, RIH, WELL FLOWING</p> <p>C/O 25' SAND, TAG 2ND PLUG @ 5310', KICK 0 PSI, CSG PRESS 0 PSI, RIH, WELL FLOWING</p> <p>C/O 30' SAND, TAG 3RD PLUG @ 5658', KICK 100 PSI, CSG PRESS 50 PSI, RIH, WELL FLOWING</p> <p>C/O 25' SAND, TAG 4TH PLUG @ 5996', KICK 0 PSI, CSG PRESS 50 PSI, RIH, WELL FLOWING</p> <p>C/O 40' SAND, TAG 5TH PLUG @ 6238', KICK 0 PSI, CSG PRESS 50 PSI, RIH, WELL FLOWING</p> <p>C/O 40' SAND, TAG 6TH PLUG @ 6495', KICK 0 PSI, CSG PRESS 50 PSI, RIH WELL FLOWING</p> <p>C/O 35' SAND, TAG 7TH PLUG @ 6802', KICK 100 PSI, CSG PRESS 100 PSI,</p> <p>ISOLATION PLUG @ 7077', BTM PERF @ 7064', RIH TAGGED @ 7060', INSTAL S/F &amp; BRK CIRC W/ A/F UNIT TO UNLOAD &amp; CLEAN HOLE, C/O TO 7077', 13' PAST BTM PERF W/ 226 JTS 2 3/8" J-55 TBG, KILL A/F LET WELL FLOW, TOP KILL TBG TO REMOVE S/F, LD 17 JTS, PU &amp; STRIP IN TBG HANGER &amp; LAND TBG W/ 209 JTS 2 3/8" TBG, EOT 6563.48'.</p> <p>RD P/S, FLOOR &amp; TBG EQUIP, ND BOPS, NU WH, DROP BALL &amp; PUMP OPEN BIT SUB W/ A/F UNIT, P/T LINE FROM WH TO HAL 9000 TO 3,000 PSI, NO VISIBLE LEAKS.</p> <p>TURN OVER TO FLOW BACK CREW &amp; SALES, RD &amp; MOVE TO NBU 922-31P4BS TO D/O ISO PLUG.</p> <p>KB= 14'  4 1/16" WEATHERFORD HANGER= .83 TBG  DELIVERED 235 JTS J-55  209 JTS 2 3/8" J-55 = 6544.70'  TBG USED 209 JTS  PUMP OPEN SUB &amp; BIT= 3.95' TBG  RETURNED 26 JTS  EOT @ 6563.48'</p> <p>TWTR= 7347 BBLs  TWR= 1000 BBLs  TWLTR= 6347 BBLs</p>

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

Well: NBU 922-31P-3T GREEN		Spud Date: 4/9/2007	
Project: UTAH-UINTAH		Site: NBU 922-31P3 PAD	Rig Name No:
Event: RECOMPL/RESEREVEADD		Start Date: 6/24/2014	End Date: 7/2/2014
Active Datum: RKB @5,078.99usft (above Mean Sea Level)		UWI: NBU 922-31P-3T	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
7/1/2014	13:00 - 17:00	4.00	DRLOUT	31	I	P		4 OF 4, MIRU, CONTROL WELL W/ TMAC, ND WH, NU BOP, RU FLOOR & TBG EQUIP, UNLAND TBG, POOH L/D PUMP OPEN SUB & BIT, SHUT RAMS & PUT WELL TO SALES, SDFN
7/2/2014	7:00 - 7:15	0.25	DRLOUT	48		P		HSM, SLIPS, TRIPS & FALLS, TRIPPING TBG, D/O ISO PLUG W/ A/F UNIT, LANDING TBG
	7:15 - 10:30	3.25	DRLOUT	31	I	P		4 OF 4, CP 80 PSI, OPEN & CONTROL WELL W/ TMAC, PU 3 7/8" MILL, POBS, 1.875" XN S/N, RIH W/ TBG, RU P/S, INSTAL W/R & S/F BRK CIRC W/ A/F UNIT
	10:30 - 11:30	1.00	DRLOUT	44	C	P		D/O ISOLATION PLUG @ 7077', 100 PSI KICK, TOP KILL TBG REMOVE S/F, SET P/S BACK
	11:30 - 18:00	6.50	DRLOUT	31	I	P		PU TBG TAG @ 8980' WELL FLOWING GOOD, BTM PERF @ 9030', PBTD @ 9125', PU P/S INSTAL S/F & BRK CIRC, C/O FROM 8980' TO 9050' (ON OLD POBS), 20' PAST BTM PERF W/ 288 JTS 2 3/8" J-55 TBG, CIRC BTMS UP, TOP KILL TBG, SET P/S BACK, LD 30 JTS, PU & STRIP IN TBG HANGER & LAND TBG W/ 258 JTS 2 3/8" TBG, EOT 8089.03'.  RD P/S, FLOOR & TBG EQUIP, ND BOPS, NU WH, DROP BALL & SHEAR OFF BIT, SWI @ W/H  TURN OVER TO PRODUCTION, RD & RACK OUT EQUIP  KB= 14' 4 1/16" WEATHERFORD HANGER= .83                      TBG 81 JTS J-55 ON LOCATION 258 JTS 2 3/8" J-55 = 8072.00' TBG USED 49 JTS 1.875" XN S/N, POBS= 2.20'                                      TBG RETURNED 32 JTS TO SAMUELS YARD EOT @ 8089.03'

US ROCKIES REGION

1 General

1.1 Customer Information

Company	US ROCKIES REGION
Representative	
Address	

1.2 Well/Wellbore Information

Well	NBU 922-31P-3T GREEN	Wellbore No.	00
Well Name	NBU 922-31P-3T	Wellbore Name	NBU 922-31P-3T
Report No.	1	Report Date	6/9/2014
Project	UTAH-UJINTAH	Site	NBU 922-31P3 PAD
Rig Name/No.		Event	RECOMPL/RESERVEADD
Start Date	4/24/2014	End Date	6/24/2014
Spud Date	4/9/2007	Active Datum	RKB @5.078.99usft (above Mean Sea Level)
UWI	NBU 922-31P-3T		

1.3 General

Contractor		Job Method		Supervisor	
Perforated Assembly		Conveyed Method			

1.4 Initial Conditions

Fluid Type	Fluid Density	Gross Interval	5.197.0 (usft)-7.064.0 (usft)	Start Date/Time	6/9/2014 12:00AM
Surface Press	Estimate Res Press	No. of Intervals	28	End Date/Time	6/9/2014 12:00AM
TVD Fluid Top	Fluid Head	Total Shots	168	Net Perforation Interval	52.00 (usft)
Hydrostatic Press	Press Difference	Avg Shot Density	3.23 (shot/ft)	Final Surface Pressure	
Balance Cond	NEUTRAL			Final Press Date	

1.5 Summary

	Diameter	0.410 EXP/			
	Misfires/ Add. Shot				
	Shot Density (shot/ft)	3.00			
	MD Base (usft)	5.198.0			
	MD Top (usft)	5.197.0			
	CCL-T S (usft)				
	CCL@ (usft)				
	Formation/ Reservoir				

2 Intervals

2.1 Perforated Interval

Date	Formation/ Reservoir	CCL@ (usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diameter (in)	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
6/9/2014 12:00AM	WASATCH/			5.197.0	5.198.0	3.00		0.410 EXP/		3.125	120.00		19.00	PRODUCTIO	N

## US ROCKIES REGION

## 2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diamete r (in)	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc./Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
6/9/2014 12:00AM	WASATCH/			5,219.0	5,220.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO N	
6/9/2014 12:00AM	WASATCH/			5,232.0	5,234.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO N	
6/9/2014 12:00AM	WASATCH/			5,264.0	5,266.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO N	
6/9/2014 12:00AM	WASATCH/			5,278.0	5,280.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO N	
6/9/2014 12:00AM	WASATCH/			5,555.0	5,556.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO N	
6/9/2014 12:00AM	WASATCH/			5,571.0	5,572.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO N	
6/9/2014 12:00AM	WASATCH/			5,616.0	5,618.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO N	
6/9/2014 12:00AM	WASATCH/			5,622.0	5,624.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO N	
6/9/2014 12:00AM	WASATCH/			5,928.0	5,930.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO N	
6/9/2014 12:00AM	WASATCH/			5,936.0	5,938.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO N	
6/9/2014 12:00AM	WASATCH/			5,944.0	5,946.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO N	
6/9/2014 12:00AM	WASATCH/			5,964.0	5,966.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO N	
6/9/2014 12:00AM	WASATCH/			6,052.0	6,053.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO N	
6/9/2014 12:00AM	WASATCH/			6,062.0	6,063.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO N	
6/9/2014 12:00AM	WASATCH/			6,121.0	6,123.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO N	
6/9/2014 12:00AM	WASATCH/			6,198.0	6,200.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO N	
6/9/2014 12:00AM	WASATCH/			6,206.0	6,208.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO N	
6/9/2014 12:00AM	WASATCH/			6,317.0	6,318.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO N	
6/9/2014 12:00AM	WASATCH/			6,332.0	6,333.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO N	
6/9/2014 12:00AM	WASATCH/			6,392.0	6,394.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO N	

US ROCKIES REGION

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diamete r (in)	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
6/9/2014 12:00AM	WASATCH/			6,416.0	6,418.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO N	
6/9/2014 12:00AM	WASATCH/			6,480.0	6,482.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO N	
6/9/2014 12:00AM	WASATCH/			6,598.0	6,600.0	4.00		0.410	EXP/	3.125	90.00		19.00	PRODUCTIO N	
6/9/2014 12:00AM	WASATCH/			6,768.0	6,772.0	4.00		0.410	EXP/	3.125	90.00		19.00	PRODUCTIO N	
6/9/2014 12:00AM	WASATCH/			7,016.0	7,018.0	4.00		0.410	EXP/	3.125	90.00		19.00	PRODUCTIO N	
6/9/2014 12:00AM	WASATCH/			7,060.0	7,064.0	4.00		0.410	EXP/	3.125	90.00		19.00	PRODUCTIO N	

3 Plots

3.1 Wellbore Schematic

