

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

FORM 3

AMENDED REPORT
(highlight changes)

APPLICATION FOR PERMIT TO DRILL				5. MINERAL LEASE NO: STUO-08512-ST	6. SURFACE: State
1A. TYPE OF WORK: DRILL <input checked="" type="checkbox"/> REENTER <input type="checkbox"/> DEEPEN <input type="checkbox"/>				7. IF INDIAN, ALLOTTEE OR TRIBE NAME:	
B. TYPE OF WELL: OIL <input type="checkbox"/> GAS <input checked="" type="checkbox"/> OTHER _____ SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input checked="" type="checkbox"/>				8. UNIT or CA AGREEMENT NAME: UNIT #891008900A	
2. NAME OF OPERATOR: KERR MCGEE OIL & GAS ONSHORE L.P.				9. WELL NAME and NUMBER: NBU 1022-13L3S	
3. ADDRESS OF OPERATOR: 1368 S 1200 E CITY VERNAL STATE UT ZIP 84078			PHONE NUMBER: (435) 781-7024	10. FIELD AND POOL, OR WILDCAT: NATURAL BUTTES	
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: 1624'FSL, 1356'FWL AT PROPOSED PRODUCING ZONE: 1665'FSL, 590'FWL NWSW <i>637123 X 44228134 39.946122 109.392157</i> <i>637123 X 44228134 39.946228 109.394925</i>				11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: N1/4SW 13 10S 22E	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE: 27.7 MILES SOUTH OF OURAY, UTAH				12. COUNTY: UINTAH	13. STATE: UTAH
15. DISTANCE TO NEAREST PROPERTY OR LEASE LINE (FEET) 1356'		16. NUMBER OF ACRES IN LEASE: 600.00		17. NUMBER OF ACRES ASSIGNED TO THIS WELL:	
18. DISTANCE TO NEAREST WELL (DRILLING, COMPLETED, OR APPLIED FOR) ON THIS LEASE (FEET) REFER TO TOPO C		19. PROPOSED DEPTH: 8,240		20. BOND DESCRIPTION: 22013542 22013542	
21. ELEVATIONS (SHOW WHETHER DF, RT, GR, ETC.): 5287'GL		22. APPROXIMATE DATE WORK WILL START:		23. ESTIMATED DURATION:	

24. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	CASING SIZE, GRADE, AND WEIGHT PER FOOT			SETTING DEPTH	CEMENT TYPE, QUANTITY, YIELD, AND SLURRY WEIGHT		
12 1/4"	9 5/8	32.3#	H-40	2,100	265 SX CLASS G	1.18 YIELD	15.6 PPG
7 7/8"	4 1/2	11.6#	I-80	8,240	1330 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 UPCHEBO TITLE SENIOR LAND ADMIN SPECIALIST
SIGNATURE *[Signature]* DATE 7/26/2007

(This space for State use only)

Approved by
Utah Division of
Oil, Gas and Mining
APPROVAL:

API NUMBER ASSIGNED: 43-047-39485

RECEIVED
AUG 06 2007

Date: 09-11-07
(See Instructions on Reverse Side)

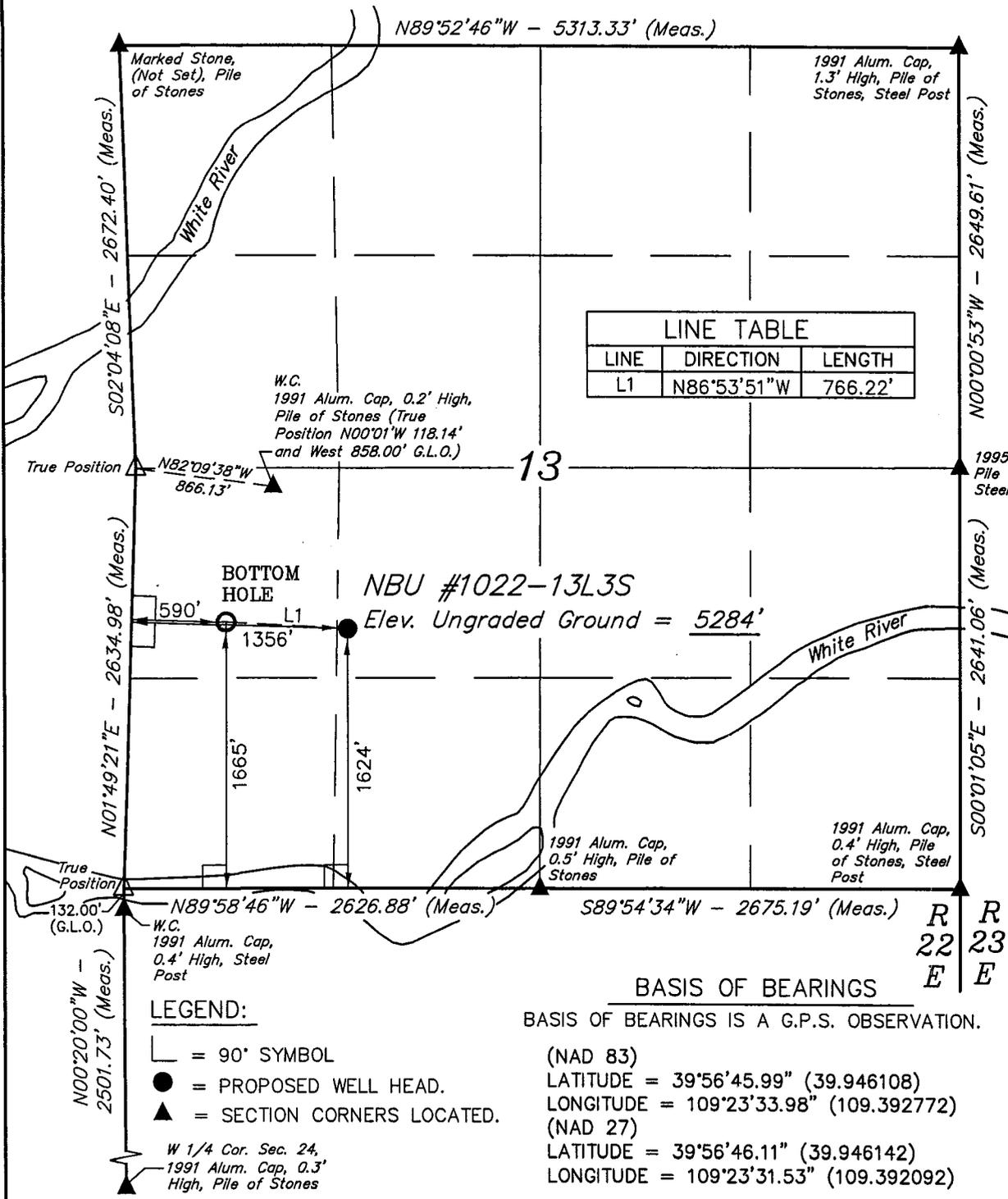
By: *[Signature]*

DIV. OF OIL, GAS & MINING

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

Kerr-McGee Oil & Gas Onshore LP.

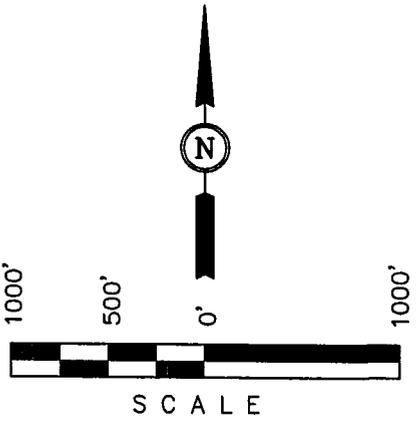
Well location, NBU #1022-13L3S, located as shown in the NE 1/4 SW 1/4 of Section 13, T10S, R22E, S.L.B.&M. Uintah County, Utah.



LINE TABLE		
LINE	DIRECTION	LENGTH
L1	N86°53'51"W	766.22'

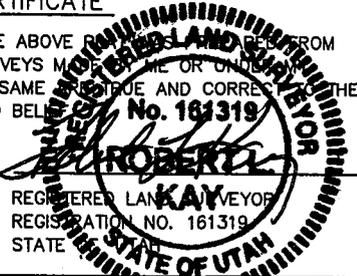
BASIS OF ELEVATION

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



CERTIFICATE

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



BASIS OF BEARINGS

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

(NAD 83)
 LATITUDE = 39°56'45.99" (39.946108)
 LONGITUDE = 109°23'33.98" (109.392772)
 (NAD 27)
 LATITUDE = 39°56'46.11" (39.946142)
 LONGITUDE = 109°23'31.53" (109.392092)

UNTAH ENGINEERING & LAND SURVEYING 85 SOUTH 200 EAST - VERNAL, UTAH 84078 (435) 789-1017		
SCALE 1" = 1000'	DATE SURVEYED: 5-17-07	DATE DRAWN: 6-13-07
PARTY D.K. L.K. K.G.	REFERENCES G.L.O. PLAT	
WEATHER COOL	FILE Kerr-McGee Oil & Gas Onshore LP	

**NBU 1022-13L3S
NE/SW SEC. 13, T10S, R22E
UINTAH COUNTY, UTAH
UTSTUO-08512-ST**

ONSHORE ORDER NO. 1

DRILLING PROGRAM

1. Estimated Tops of Important Geologic Markers:

<u>Formation</u>	<u>Depth</u>
Uinta	0- Surface
Green River	961'
Top of Birds Nest Water	1291'
Mahogany	1642'
Wasatch	4021'
Mesaverde	6257'
MVU2	7118'
MVL1	7674'
TD	8240'

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

<u>Substance</u>	<u>Formation</u>	<u>Depth</u>
Water	Green River	961'
	Top of Birds Nest Water	1291'
	Mahogany	1642'
Gas	Wasatch	4021'
Gas	Mesaverde	6257'
Gas	MVU2	7118'
Gas	MVL1	7674'
Water	N/A	
Other Minerals	N/A	

3. Pressure Control Equipment (Schematic Attached)

Please refer to the attached Drilling Program.

4. Proposed Casing & Cementing Program:

Please refer to the attached Drilling Program.

5. Drilling Fluids Program:

Please refer to the attached Drilling Program.

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

6. **Evaluation Program:**

Please refer to the attached Drilling Program.

7. **Abnormal Conditions:**

Maximum anticipated bottomhole pressure calculated at 8240' TD, approximately equals 5109 psi (calculated at 0.62 psi/foot).

Maximum anticipated surface pressure equals approximately 3296 psi (bottomhole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

8. **Anticipated Starting Dates:**

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

9. **Variances:**

Please refer to the attached Drilling Program.

10. **Other Information:**

Please refer to the attached Drilling Program.



KERR-McGEE OIL & GAS ONSHORE LP
DRILLING PROGRAM

CASING PROGRAM

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS		
						BURST	COLLAPSE	TENSION
CONDUCTOR	14"	0-40'				2270	1370	254000
SURFACE	9-5/8"	0 to 2100	32.30	H-40	STC	0.72*****	1.39	4.28
PRODUCTION	4-1/2"	0 to 8240	11.60	I-80	LTC	7780	6350	201000
						2.46	1.28	2.41

- 1) Max Anticipated Surf. Press.(MASP) (Surface Casing) = (Pore Pressure at next csg point-(0.22 psi/ft-partial evac gradient x TVD of next csg point)
 2) MASP (Prod Casing) = Pore Pressure at TD - (.22 psi/ft-partial evac gradient x TD)
 (Burst Assumptions: TD = 0.0 ppg) .22 psi/ft = gradient for partially evac wellbore
 (Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)
 MASP 3158 psi

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

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE	LEAD	500	Premium cmt + 2% CaCl + .25 pps flocele	215	60%	15.60	1.18
Option 1	TOP OUT CMT (1)	200	20 gals sodium silicate + Premium cmt + 2% CaCl + .25 pps flocele	50		15.60	1.18
	TOP OUT CMT (2)	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
SURFACE	LEAD	1500	NOTE: If well will circulate water to surface, option 2 will be utilized 65/35 Poz + 6% Gel + 10 pps gilsonite + 25 pps Flocele + 3% salt BWOW	360	35%	12.60	1.81
Option 2	TAIL	500	Premium cmt + 2% CaCl + .25 pps flocele	180	35%	15.60	1.18
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
PRODUCTION	LEAD	5,750'	Premium Lite II + 3% KCl + 0.25 pps celloflake + 5 pps gilsonite + 10% gel + 0.5% extender	630	60%	11.00	3.38
	TAIL	2,490'	50/50 Poz/G + 10% salt + 2% gel +.1% R-3	700	60%	14.30	1.31

*Substitute caliper hole volume plus 15% excess if accurate caliper is obtained

FLOAT EQUIPMENT & CENTRALIZERS

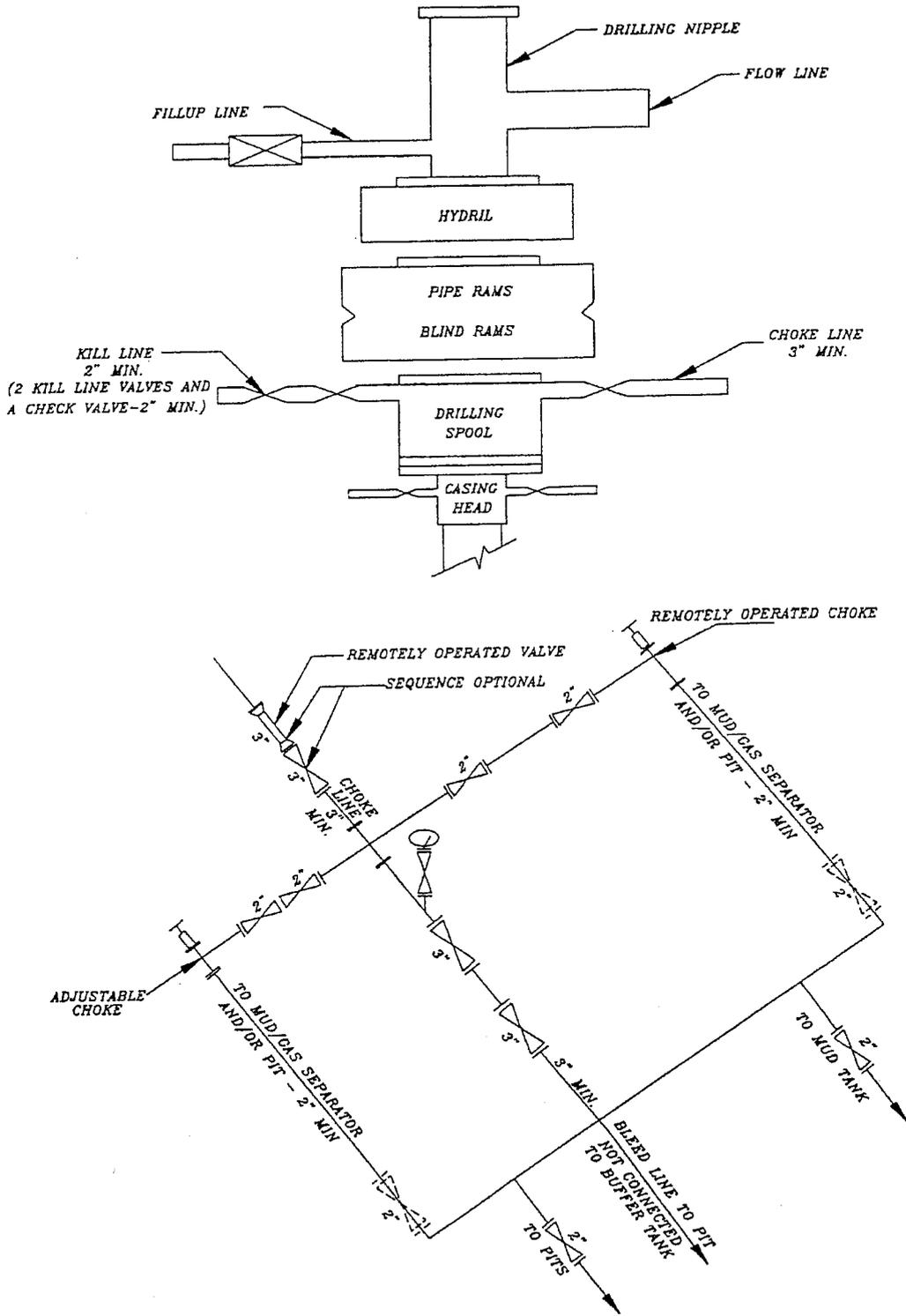
SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe.
PRODUCTION	Float shoe, 1 jt, float collar. Centralize first 3 joints & every third joint to top of tail cement with bow spring centralizers.

ADDITIONAL INFORMATION

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

DRILLING ENGINEER: _____ DATE: _____
 Brad Laney
 DRILLING SUPERINTENDENT: _____ DATE: _____
 Randy Bayne NBU1022-13L3S DHD

5M BOP STACK and CHOKE MANIFOLD SYSTEM



NBU 1022-13L3S
NE/SW SEC. 13, T10S, R22E
Uintah County, UT
UTSTUO-08512-ST

ONSHORE ORDER NO. 1

MULTI-POINT SURFACE USE & OPERATIONS PLAN

1. Existing Roads:

Refer to Topo Map A for directions to the location.

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

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

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

2. Planned Access Roads:

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

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

Existence of pipelines; maximum grade; turnouts; major cut and fills, culverts, or bridges; gates, cattle guards, fence cuts, or modifications to existing facilities were determined at the on-site.

The access road was centerline flagged during time of staking.

Surfacing material may be necessary, depending upon weather conditions.

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

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

Please refer to Topo Map C.

4. Location of Existing & Proposed Facilities:

The following guidelines will apply if the well is productive.

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

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

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

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

All facilities will be painted within six months of installation. Facilities required to comply with the Occupational Safety and Health Act (OSHA) will be excluded. The required color is Carlsbad Canyon, standard color number 2.5Y 6/2.

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

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

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

5. Location and Type of Water Supply:

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

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

No water well is to be drilled on this lease.

6. Source of Construction Materials:

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

Any gravel will be obtained from a commercial source.

7. Methods of Handling Waste Materials:

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

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

The reserve pit will be constructed on the location and will not be located within natural drainage, where a flood hazard exists or surface runoff will destroy or damage the pit walls. The reserve pit will be constructed so that it will not leak, break, or allow discharge of liquids.

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

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

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

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

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

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

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

Any produced water from the proposed well will be contained in a water tank and will then be hauled by truck to one of the pre-approved disposal sites: RNI, Sec. 5, T9S, R22E, NBU #159, Sec. 35, T9S, R21E, Ace Oilfield, Sec. 2, T6S, R20E, MC&MC, Sec. 12, T6S, R19E.

8. Ancillary Facilities:

None are anticipated.

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

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

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

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

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

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

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

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

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

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

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

Location size may change prior to the drilling of the well due to current rig availability. If the proposed location is not large enough to accommodate the drilling rig the location will be re-surveyed and a Form 9 shall be submitted.

10. Plans for Reclamation of the Surface:

Producing Location:

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

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

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

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

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

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

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

Dry Hole/Abandoned Location:

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

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

11. Surface Ownership:

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

12. Other Information:

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

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

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

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

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

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

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

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

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

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

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

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


Sheila Upchego

6/15/2007

Date



Weatherford™

Drilling Services

Proposal



ANADARKO - KERR McGEE

NBU#1022-13L3S

UINTAH COUNTY, UTAH

WELL FILE: PLAN1

DATE: JULY 05, 2007

Weatherford International, Ltd.

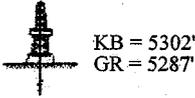
15710 John F. Kennedy Blvd

Houston, Texas 77032 USA

+1.281.260.1300 Main

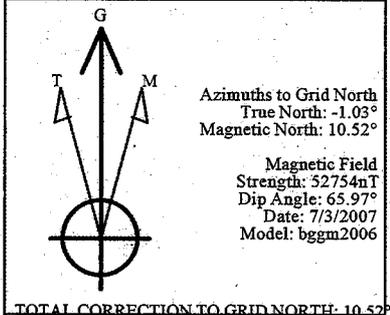
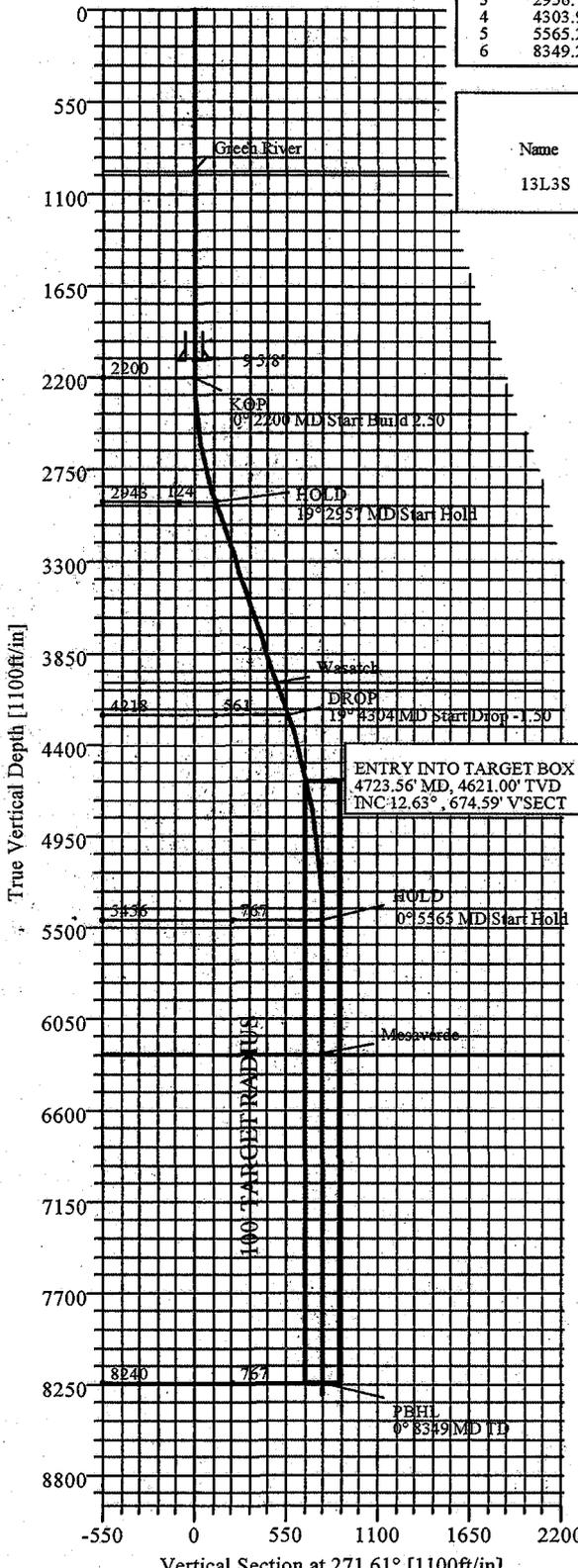
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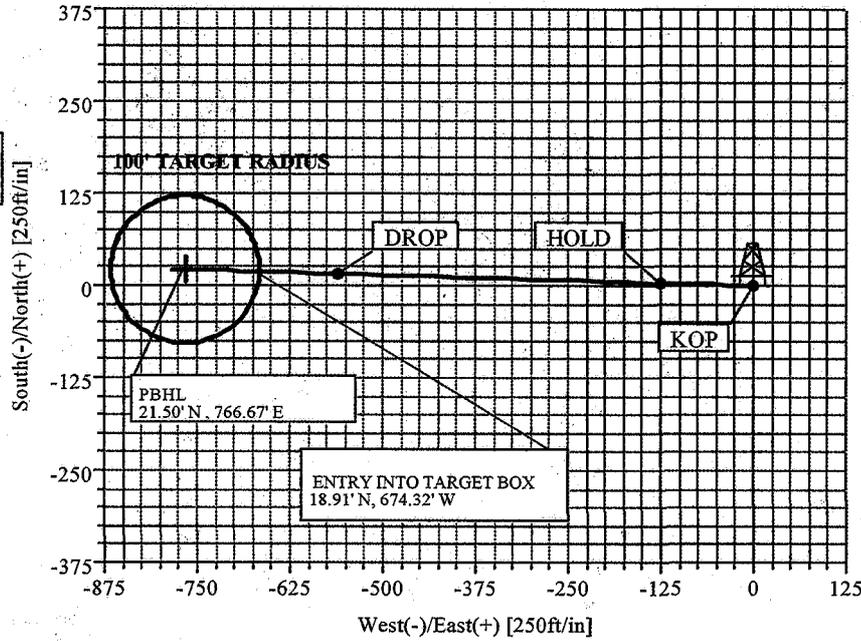


SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	271.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2200.00	0.00	271.61	2200.00	0.00	0.00	0.00	0.00	0.00	KOP
3	2956.76	18.92	271.61	2943.08	3.47	-123.76	2.50	271.61	123.81	HOLD
4	4303.98	18.92	271.61	4217.53	15.72	-560.40	0.00	0.00	560.62	DROP
5	5565.25	0.00	271.61	5456.00	21.50	-766.67	1.50	180.00	766.97	HOLD
6	8349.25	0.00	271.61	8240.00	21.50	-766.67	0.00	271.61	766.97	PBHL

WELL DETAILS							
Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
13L3S	0.00	0.00	14510468.20	2091011.90	39°56'45.872N	109°23'32.524W	N/A



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



Company: Anadarko-Kerr-McGee	Date: 7/5/2007	Time: 14:04:36	Page: 1
Field: Uintah County, Utah (UTM Zone 12N-NAD 27)	Co-ordinate(NE) Reference: Site: NBU 1022-13L3S, Grid North		
Site: NBU 1022-13L3S	Vertical (TVD) Reference: SITE 5302.0		
Well: 13L3S	Section (VS) Reference: Well (0.00N,0.00E,271.61Azi)		
Wellpath: 1	Survey Calculation Method: Minimum Curvature	Db: Sybase	

Survey:	Start Date:
Company:	Engineer:
Tool:	Tied-to:

Field: Uintah County, Utah (UTM Zone 12N-NAD 27)

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

Site: NBU 1022-13L3S

Site Position:	Northing: 14510468.20 ft	Latitude: 39 56 45.872 N
From: Map	Easting: 2091011.90 ft	Longitude: 109 23 32.524 W
Position Uncertainty: 0.00 ft		North Reference: Grid
Ground Level: 5287.00 ft		Grid Convergence: 1.03 deg

Well: 13L3S **Slot Name:**

Well Position: +N/-S 0.00 ft	Northing: 14510468.20 ft	Latitude: 39 56 45.872 N
+E/-W 0.00 ft	Easting: 2091011.90 ft	Longitude: 109 23 32.524 W
Position Uncertainty: 0.00 ft		

Wellpath: 1

Current Datum: SITE	Height: 5302.00 ft	Drilled From: Surface	Tie-on Depth: 0.00 ft
Magnetic Data: 7/3/2007		Above System Datum: Mean Sea Level	
Field Strength: 52754 nT		Declination: 11.55 deg	
Vertical Section: Depth From (TVD)	+N/-S	Mag Dip Angle: 65.97 deg	
ft	ft	+E/-W	Direction
		ft	deg
0.00	0.00	0.00	271.61

Plan Section Information

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg	Target
0.00	0.00	271.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2200.00	0.00	271.61	2200.00	0.00	0.00	0.00	0.00	0.00	0.00	
2956.76	18.92	271.61	2943.08	3.47	-123.76	2.50	2.50	0.00	271.61	
4303.98	18.92	271.61	4217.53	15.72	-560.40	0.00	0.00	0.00	0.00	
5565.25	0.00	271.61	5456.00	21.50	-766.67	1.50	-1.50	0.00	180.00	
8349.25	0.00	271.61	8240.00	21.50	-766.67	0.00	0.00	0.00	271.61	PBHL 13L3S

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	MapN ft	MapE ft	Comment
2200.00	0.00	271.61	2200.00	0.00	0.00	0.00	0.00	1.45104e07	2091011.90	KOP
2300.00	2.50	271.61	2299.97	0.06	-2.18	2.18	2.50	1.45104e07	2091009.72	
2400.00	5.00	271.61	2399.75	0.24	-8.72	8.72	2.50	1.45104e07	2091003.18	
2500.00	7.50	271.61	2499.14	0.55	-19.60	19.61	2.50	1.45104e07	2090992.30	
2600.00	10.00	271.61	2597.97	0.98	-34.80	34.82	2.50	1.45104e07	2090977.10	
2700.00	12.50	271.61	2696.04	1.52	-54.30	54.33	2.50	1.45104e07	2090957.60	
2800.00	15.00	271.61	2793.17	2.19	-78.06	78.09	2.50	1.45104e07	2090933.84	
2900.00	17.50	271.61	2889.17	2.97	-106.03	106.07	2.50	1.45104e07	2090905.87	
2956.76	18.92	271.61	2943.08	3.47	-123.76	123.81	2.50	1.45104e07	2090888.14	HOLD
3000.00	18.92	271.61	2983.99	3.86	-137.78	137.83	0.00	1.45104e07	2090874.12	
3100.00	18.92	271.61	3078.58	4.77	-170.19	170.25	0.00	1.45104e07	2090841.71	
3200.00	18.92	271.61	3173.18	5.68	-202.60	202.68	0.00	1.45104e07	2090809.30	
3300.00	18.92	271.61	3267.78	6.59	-235.01	235.10	0.00	1.45104e07	2090776.89	
3400.00	18.92	271.61	3362.38	7.50	-267.42	267.52	0.00	1.45104e07	2090744.48	
3500.00	18.92	271.61	3456.98	8.41	-299.83	299.94	0.00	1.45104e07	2090712.07	

Company: Anadarko-Kerr-McGee Field: UINTAH COUNTY, UTAH (UTM Zone 12N-NAD 27) Site: NBU 1022-13L3S Well: 13L3S Wellpath: 1	Date: 7/5/2007 Co-ordinate(NE) Reference: Site: NBU 1022-13L3S, Grid North Vertical (TVD) Reference: SITE 5302.0 Section (VS) Reference: Well (0.00N,0.00E,271.61Azi) Survey Calculation Method: Minimum Curvature	Time: 14:04:36 Page: 2 Db: Sybase
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Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	MapN ft	MapE ft	Comment
3600.00	18.92	271.61	3551.57	9.32	-332.24	332.37	0.00	1.45104e07	2090679.66	
3700.00	18.92	271.61	3646.17	10.23	-364.65	364.79	0.00	1.45104e07	2090647.25	
3800.00	18.92	271.61	3740.77	11.13	-397.06	397.21	0.00	1.45104e07	2090614.84	
3900.00	18.92	271.61	3835.37	12.04	-429.47	429.64	0.00	1.45104e07	2090582.43	
4000.00	18.92	271.61	3929.96	12.95	-461.88	462.06	0.00	1.45104e07	2090550.02	
4096.23	18.92	271.61	4021.00	13.83	-493.07	493.26	0.00	1.45104e07	2090518.83	Wasatch
4100.00	18.92	271.61	4024.56	13.86	-494.29	494.48	0.00	1.45104e07	2090517.61	
4200.00	18.92	271.61	4119.16	14.77	-526.70	526.91	0.00	1.45104e07	2090485.20	
4303.98	18.92	271.61	4217.53	15.72	-560.40	560.62	0.00	1.45104e07	2090451.50	DROP
4400.00	17.48	271.61	4308.74	16.56	-590.38	590.61	1.50	1.45104e07	2090421.52	
4500.00	15.98	271.61	4404.50	17.36	-619.15	619.39	1.50	1.45104e07	2090392.75	
4600.00	14.48	271.61	4500.99	18.10	-645.40	645.66	1.50	1.45104e07	2090366.50	
4700.00	12.98	271.61	4598.13	18.76	-669.13	669.39	1.50	1.45104e07	2090342.77	
4723.45	12.63	271.61	4621.00	18.91	-674.32	674.59	1.50	1.45104e07	2090337.58	ENTRY INTO TARGET BO
4800.00	11.48	271.61	4695.86	19.36	-690.30	690.57	1.50	1.45104e07	2090321.60	
4900.00	9.98	271.61	4794.11	19.88	-708.91	709.19	1.50	1.45104e07	2090302.99	
5000.00	8.48	271.61	4892.81	20.33	-724.94	725.22	1.50	1.45104e07	2090286.96	
5100.00	6.98	271.61	4991.90	20.71	-738.38	738.67	1.50	1.45104e07	2090273.52	
5200.00	5.48	271.61	5091.30	21.01	-749.23	749.52	1.50	1.45104e07	2090262.67	
5300.00	3.98	271.61	5190.96	21.24	-757.47	757.77	1.50	1.45104e07	2090254.43	
5400.00	2.48	271.61	5290.80	21.40	-763.10	763.40	1.50	1.45104e07	2090248.80	
5500.00	0.98	271.61	5390.75	21.48	-766.11	766.41	1.50	1.45104e07	2090245.79	
5565.25	0.00	271.61	5456.00	21.50	-766.67	766.97	1.50	1.45104e07	2090245.23	HOLD
5600.00	0.00	271.61	5490.75	21.50	-766.67	766.97	0.00	1.45104e07	2090245.23	
5700.00	0.00	271.61	5590.75	21.50	-766.67	766.97	0.00	1.45104e07	2090245.23	
5800.00	0.00	271.61	5690.75	21.50	-766.67	766.97	0.00	1.45104e07	2090245.23	
5900.00	0.00	271.61	5790.75	21.50	-766.67	766.97	0.00	1.45104e07	2090245.23	
6000.00	0.00	271.61	5890.75	21.50	-766.67	766.97	0.00	1.45104e07	2090245.23	
6100.00	0.00	271.61	5990.75	21.50	-766.67	766.97	0.00	1.45104e07	2090245.23	
6200.00	0.00	271.61	6090.75	21.50	-766.67	766.97	0.00	1.45104e07	2090245.23	
6300.00	0.00	271.61	6190.75	21.50	-766.67	766.97	0.00	1.45104e07	2090245.23	
6366.25	0.00	271.61	6257.00	21.50	-766.67	766.97	0.00	1.45104e07	2090245.23	Mesaverde
6400.00	0.00	271.61	6290.75	21.50	-766.67	766.97	0.00	1.45104e07	2090245.23	
6500.00	0.00	271.61	6390.75	21.50	-766.67	766.97	0.00	1.45104e07	2090245.23	
6600.00	0.00	271.61	6490.75	21.50	-766.67	766.97	0.00	1.45104e07	2090245.23	
6700.00	0.00	271.61	6590.75	21.50	-766.67	766.97	0.00	1.45104e07	2090245.23	
6800.00	0.00	271.61	6690.75	21.50	-766.67	766.97	0.00	1.45104e07	2090245.23	
6900.00	0.00	271.61	6790.75	21.50	-766.67	766.97	0.00	1.45104e07	2090245.23	
7000.00	0.00	271.61	6890.75	21.50	-766.67	766.97	0.00	1.45104e07	2090245.23	
7100.00	0.00	271.61	6990.75	21.50	-766.67	766.97	0.00	1.45104e07	2090245.23	
7200.00	0.00	271.61	7090.75	21.50	-766.67	766.97	0.00	1.45104e07	2090245.23	
7300.00	0.00	271.61	7190.75	21.50	-766.67	766.97	0.00	1.45104e07	2090245.23	
7400.00	0.00	271.61	7290.75	21.50	-766.67	766.97	0.00	1.45104e07	2090245.23	
7500.00	0.00	271.61	7390.75	21.50	-766.67	766.97	0.00	1.45104e07	2090245.23	
7600.00	0.00	271.61	7490.75	21.50	-766.67	766.97	0.00	1.45104e07	2090245.23	
7700.00	0.00	271.61	7590.75	21.50	-766.67	766.97	0.00	1.45104e07	2090245.23	
7800.00	0.00	271.61	7690.75	21.50	-766.67	766.97	0.00	1.45104e07	2090245.23	
7900.00	0.00	271.61	7790.75	21.50	-766.67	766.97	0.00	1.45104e07	2090245.23	
8000.00	0.00	271.61	7890.75	21.50	-766.67	766.97	0.00	1.45104e07	2090245.23	
8100.00	0.00	271.61	7990.75	21.50	-766.67	766.97	0.00	1.45104e07	2090245.23	
8200.00	0.00	271.61	8090.75	21.50	-766.67	766.97	0.00	1.45104e07	2090245.23	
8300.00	0.00	271.61	8190.75	21.50	-766.67	766.97	0.00	1.45104e07	2090245.23	

Company: Anadarko-Kerr-McGee	Date: 7/5/2007	Time: 14:04:36	Page: 3
Field: UINTAH COUNTY, UTAH (UTM Zone 12N-NAD 27)	Co-ordinate(NE) Reference: Site: NBU 1022-13L3S, Grid North		
Site: NBU 1022-13L3S	Vertical (TVD) Reference: SITE 5302.0		
Well: 13L3S	Section (VS) Reference: Well (0.00N,0.00E,271.61Azi)		
Wellpath: 1	Survey Calculation Method: Minimum Curvature	Db: Sybase	

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	MapN ft	MapE ft	Comment
8349.25	0.00	271.61	8240.00	21.50	-766.67	766.97	0.00	1.45104e07	2090245.23	PBHL 13L3S

Targets

Name	Description Dip.	Dir.	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	<--- Latitude ---> Deg Min Sec	<--- Longitude ---> Deg Min Sec
PBHL 13L3S			8240.00	21.50	-766.67	14510489.70	2090245.23	39 56 46.221 N	109 23 42.362 W
	-Circle (Radius: 100)								
	-Plan hit target								

Casing Points

MD ft	TVD ft	Diameter in	Hole Size in	Name
2100.00	2100.00	9.625	12.250	9 5/8"

Annotation

MD ft	TVD ft	
2200.00	2200.00	KOP
2956.76	2943.08	HOLD
4303.98	4217.52	DROP
4723.45	4621.00	ENTRY INTO TARGET BOX
5565.25	5456.00	HOLD
8349.25	8240.00	PBHL

Formations

MD ft	TVD ft	Formations	Lithology	Dip Angle deg	Dip Direction deg
961.00	961.00	Green River		0.00	0.00
4096.23	4021.00	Wasatch		0.00	0.00
6366.25	6257.00	Mesaverde		0.00	0.00



Anticollision Report

Company: Anadarko-Kerr-McGee Date: 7/5/2007 Time: 15:10:31 Page: 1
 Field: UINTAH COUNTY, UTAH (UTM Zone 12N-NAD 27)
 Reference Site: NBU 1022-13L3S Co-ordinate(NE) Reference: Site: NBU 1022-13L3S, Grid North
 Reference Well: 13L3S Vertical (TVD) Reference: SITE 5302.0
 Reference Wellpath: 1 Db: Sybase

NO GLOBAL SCAN: Using user defined selection & scan criteria Reference: Plan: Plan #1
 Interpolation Method: MD Interval: 100.00 ft Error Model: ISCWSA Ellipse
 Depth Range: 2200.00 to 8349.25 ft Scan Method: Closest Approach 3D
 Maximum Radius: 10000.00 ft Error Surface: Ellipse

Plan: Plan #1 Date Composed: 7/5/2007
 Principal: Yes Version: 1
 Tied-to: From Surface

Summary

Site	Offset Wellpath Well	Wellpath	Reference MD ft	Offset MD ft	Ctr-Ctr Distance ft	Edge Distance ft	Separation Factor	Warning
NBU 1022-13K3S	13K3S	1 V0 Plan: Plan #1 V1	2400.00	2399.12	18.89	9.08	1.93	
NBU 1022-13L4S	13L4S	1 V0 Plan: Plan #1 V1	2300.00	2300.25	19.87	10.47	2.11	

Site: NBU 1022-13K3S
 Well: 13K3S
 Wellpath: 1 V0 Plan: Plan #1 V1 Inter-Site Error: 0.00 ft

Reference MD ft	TVD ft	Offset MD ft	TVD ft	Semi-Major Axis Ref ft	Offset ft	TFO-HS deg	Offset Location North ft	East ft	Ctr-Ctr Distance ft	Edge Distance ft	Separation Factor	Warning
2200.00	2200.00	2200.00	2200.00	4.49	4.49	308.06	-15.30	-12.70	19.88	10.91	2.22	
2300.00	2299.97	2300.12	2300.08	4.70	4.70	296.09	-16.02	-10.64	18.17	8.78	1.93	
2400.00	2399.75	2399.12	2398.87	4.91	4.91	255.88	-18.16	-4.54	18.89	9.08	1.93	
2500.00	2499.14	2495.96	2495.14	5.13	5.12	220.88	-21.61	5.31	33.58	23.39	3.30	
2600.00	2597.97	2589.67	2587.79	5.36	5.34	206.53	-26.22	18.49	60.69	50.16	5.76	
2700.00	2696.04	2679.41	2675.92	5.63	5.57	200.34	-31.81	34.45	96.92	86.05	8.91	
2800.00	2793.17	2764.51	2758.82	5.93	5.82	197.21	-38.15	52.59	140.99	129.78	12.58	
2900.00	2889.17	2844.44	2835.98	6.28	6.08	195.48	-45.04	72.25	192.15	180.61	16.66	
3000.00	2983.99	2922.21	2910.39	6.69	6.37	194.25	-52.52	93.61	249.27	237.36	20.93	
3100.00	3078.58	3003.40	2987.92	7.15	6.69	193.23	-60.47	116.34	307.53	295.15	24.85	
3200.00	3173.18	3084.58	3065.45	7.63	7.04	192.53	-68.42	139.06	365.82	352.98	28.48	
3300.00	3267.78	3165.76	3142.98	8.14	7.40	192.03	-76.38	161.78	424.15	410.82	31.83	
3400.00	3362.38	3246.94	3220.51	8.67	7.77	191.65	-84.33	184.50	482.49	468.67	34.92	
3500.00	3456.98	3328.12	3298.04	9.21	8.16	191.35	-92.29	207.23	540.84	526.52	37.78	
3600.00	3551.57	3409.31	3375.57	9.77	8.56	191.11	-100.24	229.95	599.19	584.37	40.43	
3700.00	3646.17	3490.49	3453.10	10.35	8.97	190.91	-108.19	252.67	657.56	642.24	42.91	
3800.00	3740.77	3571.67	3530.63	10.93	9.38	190.75	-116.15	275.39	715.93	700.09	45.20	
3900.00	3835.37	3652.85	3608.16	11.52	9.81	190.60	-124.10	298.12	774.30	757.94	47.33	
4000.00	3929.96	3734.03	3685.69	12.12	10.23	190.48	-132.06	320.84	832.67	815.79	49.32	
4100.00	4024.56	3815.22	3763.22	12.72	10.67	190.38	-140.01	343.56	891.05	873.64	51.17	
4200.00	4119.16	3896.40	3840.75	13.33	11.11	190.29	-147.96	366.28	949.43	931.49	52.93	
4300.00	4213.76	3977.58	3918.28	13.95	11.55	190.20	-155.92	389.01	1007.81	989.34	54.56	
4400.00	4308.74	4059.45	3996.47	14.38	12.00	189.97	-163.94	411.92	1065.22	1046.36	56.49	
4500.00	4404.50	4142.77	4076.04	14.60	12.47	189.77	-172.10	435.24	1120.50	1101.46	58.84	
4600.00	4500.99	4227.50	4156.96	14.81	12.94	189.62	-180.40	458.96	1173.62	1154.40	61.06	
4700.00	4598.13	4348.46	4272.93	15.00	13.32	189.50	-191.75	491.38	1223.45	1204.23	63.62	
4800.00	4695.86	4480.52	4400.72	15.17	13.54	189.40	-202.76	522.81	1268.10	1249.05	66.58	
4900.00	4794.11	4618.55	4535.43	15.31	13.73	189.31	-212.69	551.19	1307.23	1288.40	69.41	
5000.00	4892.81	4761.99	4676.47	15.43	13.89	189.24	-221.30	575.79	1340.55	1321.98	72.17	
5100.00	4991.90	4910.12	4823.05	15.51	14.01	189.17	-228.35	595.93	1367.82	1349.55	74.84	
5200.00	5091.30	5062.12	4974.19	15.56	14.05	189.11	-233.63	611.01	1388.81	1370.89	77.47	
5300.00	5190.96	5217.04	5128.77	15.58	14.03	189.06	-236.96	620.53	1403.35	1385.83	80.07	
5400.00	5290.80	5373.83	5285.51	15.56	13.92	189.00	-238.22	624.12	1411.32	1394.24	82.66	
5500.00	5390.75	5479.07	5390.75	15.52	13.99	188.98	-238.23	624.15	1414.31	1391.63	82.36	
5600.00	5490.75	5579.07	5490.75	15.47	14.09	100.58	-238.23	624.15	1414.86	1385.32	47.89	
5700.00	5590.75	5679.07	5590.75	15.56	14.19	100.58	-238.23	624.15	1414.86	1385.13	47.58	



Anticollision Report

Company: Anadarko-Kerr-McGee **Date:** 7/5/2007 **Time:** 15:10:31 **Page:** 2
Field: Uintah County, Utah (UTM Zone 12N-NAD 27)
Reference Site: NBU 1022-13L3S **Co-ordinate(NE) Reference:** Site: NBU 1022-13L3S, Grid North
Reference Well: 13L3S **Vertical (TVD) Reference:** SITE 5302.0
Reference Wellpath: 1 **Db:** Sybase

Site: NBU 1022-13K3S
Well: 13K3S
Wellpath: 1 V0 Plan: Plan #1 V1

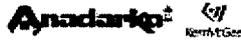
Inter-Site Error: 0.00 ft

Reference		Offset		Semi-Major Axis			Offset Location		Ctr-Ctr Distance	Edge Distance	Separation Factor	Warning
MD	TVD	MD	TVD	Ref	Offset	TFO-HS	North	East				
ft	ft	ft	ft	ft	ft	deg	ft	ft	ft	ft		
5800.00	5690.75	5779.07	5690.75	15.65	14.30	100.58	-238.23	624.15	1414.86	1384.93	47.26	
5900.00	5790.75	5879.07	5790.75	15.74	14.40	100.58	-238.23	624.15	1414.86	1384.72	46.94	
6000.00	5890.75	5979.07	5890.75	15.83	14.51	100.58	-238.23	624.15	1414.86	1384.52	46.62	
6100.00	5990.75	6079.07	5990.75	15.93	14.63	100.58	-238.23	624.15	1414.86	1384.30	46.30	
6200.00	6090.75	6179.07	6090.75	16.03	14.74	100.58	-238.23	624.15	1414.86	1384.09	45.97	
6300.00	6190.75	6279.07	6190.75	16.13	14.86	100.58	-238.23	624.15	1414.86	1383.87	45.65	
6400.00	6290.75	6379.07	6290.75	16.24	14.97	100.58	-238.23	624.15	1414.86	1383.64	45.32	
6500.00	6390.75	6479.07	6390.75	16.34	15.09	100.58	-238.23	624.15	1414.86	1383.42	44.99	
6600.00	6490.75	6579.07	6490.75	16.45	15.22	100.58	-238.23	624.15	1414.86	1383.18	44.66	
6700.00	6590.75	6679.07	6590.75	16.56	15.34	100.58	-238.23	624.15	1414.86	1382.95	44.33	
6800.00	6690.75	6779.07	6690.75	16.67	15.47	100.58	-238.23	624.15	1414.86	1382.71	44.00	
6900.00	6790.75	6879.07	6790.75	16.79	15.59	100.58	-238.23	624.15	1414.86	1382.46	43.67	
7000.00	6890.75	6979.07	6890.75	16.90	15.72	100.58	-238.23	624.15	1414.86	1382.22	43.34	
7100.00	6990.75	7079.07	6990.75	17.02	15.86	100.58	-238.23	624.15	1414.86	1381.97	43.01	
7200.00	7090.75	7179.07	7090.75	17.14	15.99	100.58	-238.23	624.15	1414.86	1381.71	42.68	
7300.00	7190.75	7279.07	7190.75	17.26	16.12	100.58	-238.23	624.15	1414.86	1381.45	42.35	
7400.00	7290.75	7379.07	7290.75	17.38	16.26	100.58	-238.23	624.15	1414.86	1381.19	42.02	
7500.00	7390.75	7479.07	7390.75	17.50	16.40	100.58	-238.23	624.15	1414.86	1380.93	41.69	
7600.00	7490.75	7579.07	7490.75	17.63	16.54	100.58	-238.23	624.15	1414.86	1380.66	41.37	
7700.00	7590.75	7679.07	7590.75	17.76	16.68	100.58	-238.23	624.15	1414.86	1380.39	41.04	
7800.00	7690.75	7779.07	7690.75	17.89	16.82	100.58	-238.23	624.15	1414.86	1380.12	40.72	
7900.00	7790.75	7879.07	7790.75	18.02	16.96	100.58	-238.23	624.15	1414.86	1379.84	40.40	
8000.00	7890.75	7979.07	7890.75	18.15	17.11	100.58	-238.23	624.15	1414.86	1379.56	40.08	
8100.00	7990.75	8079.07	7990.75	18.28	17.25	100.58	-238.23	624.15	1414.86	1379.28	39.77	
8200.00	8090.75	8179.07	8090.75	18.42	17.40	100.58	-238.23	624.15	1414.86	1379.00	39.45	
8300.00	8190.75	8279.07	8190.75	18.55	17.55	100.58	-238.23	624.15	1414.86	1378.71	39.14	

Site: NBU 1022-13L4S
Well: 13L4S
Wellpath: 1 V0 Plan: Plan #1 V1

Inter-Site Error: 0.00 ft

Reference		Offset		Semi-Major Axis			Offset Location		Ctr-Ctr Distance	Edge Distance	Separation Factor	Warning
MD	TVD	MD	TVD	Ref	Offset	TFO-HS	North	East				
ft	ft	ft	ft	ft	ft	deg	ft	ft	ft	ft		
2200.00	2200.00	2200.00	2200.00	4.49	4.49	129.98	14.30	12.70	19.13	10.15	2.13	
2300.00	2299.97	2300.25	2300.21	4.70	4.70	128.79	15.19	10.70	19.87	10.47	2.11	
2400.00	2399.75	2400.45	2400.19	4.91	4.91	125.66	17.86	4.69	22.14	12.32	2.26	
2500.00	2499.14	2500.57	2499.70	5.13	5.13	121.67	22.29	-5.28	26.04	15.78	2.54	
2600.00	2597.97	2600.55	2598.52	5.36	5.37	117.74	28.48	-19.21	31.62	20.89	2.95	
2700.00	2696.04	2700.37	2696.41	5.63	5.63	114.35	36.40	-37.02	38.92	27.67	3.46	
2800.00	2793.17	2799.98	2793.15	5.93	5.93	111.58	46.01	-58.66	47.93	36.11	4.06	
2900.00	2889.17	2899.35	2888.54	6.28	6.28	109.38	57.30	-84.05	58.61	46.10	4.69	
3000.00	2983.99	2998.57	2982.83	6.69	6.68	108.24	69.85	-112.29	70.74	57.44	5.32	
3100.00	3078.58	3097.80	3077.06	7.15	7.12	107.87	82.48	-140.72	83.12	68.94	5.86	
3200.00	3173.18	3197.03	3171.28	7.63	7.59	107.59	95.11	-169.14	95.50	80.39	6.32	
3300.00	3267.78	3296.26	3265.51	8.14	8.07	107.38	107.75	-197.57	107.89	91.80	6.70	
3400.00	3362.38	3395.49	3359.74	8.67	8.58	107.21	120.38	-226.00	120.27	103.16	7.03	
3500.00	3456.98	3494.72	3453.97	9.21	9.11	107.08	133.02	-254.42	132.65	114.50	7.31	
3600.00	3551.57	3593.95	3548.19	9.77	9.64	106.96	145.65	-282.85	145.04	125.80	7.54	
3700.00	3646.17	3693.17	3642.42	10.35	10.19	106.87	158.28	-311.28	157.43	137.09	7.74	
3800.00	3740.77	3792.40	3736.65	10.93	10.75	106.78	170.92	-339.71	169.81	148.36	7.92	
3900.00	3835.37	3891.63	3830.88	11.52	11.32	106.71	183.55	-368.13	182.20	159.61	8.07	
4000.00	3929.96	3990.86	3925.10	12.12	11.89	106.65	196.18	-396.56	194.59	170.85	8.20	



Weatherford International, Ltd.

Anticollision Report



Weatherford

Company:	Anadarko-Kerr-McGee	Date:	7/5/2007	Time:	15:10:31	Page:	3
Field:	UINTAH COUNTY, UTAH (UTM Zone 12N-NAD 27)	Co-ordinate(NE) Reference:	Site: NBU 1022-13L3S, Grid North				
Reference Site:	NBU 1022-13L3S	Vertical (TVD) Reference:	SITE 5302.0				
Reference Well:	13L3S						
Reference Wellpath:	1	Db: Sybase					

Site: NBU 1022-13L4S
Well: 13L4S
Wellpath: 1 V0 Plan: Plan #1 V1

Inter-Site Error: 0.00 ft

Reference MD ft	TVD ft	Offset		Semi-Major Axis			Offset Location		Ctr-Ctr Distance ft	Edge Distance ft	Separation Factor	Warning
		MD ft	TVD ft	Ref ft	Offset ft	TFO-HS deg	North ft	East ft				
4100.00	4024.56	4090.09	4019.33	12.72	12.47	106.60	208.82	-424.99	206.97	182.07	8.31	
4200.00	4119.16	4189.32	4113.56	13.33	13.05	106.55	221.45	-453.41	219.36	193.29	8.41	
4300.00	4213.76	4288.55	4207.79	13.95	13.64	106.51	234.08	-481.84	231.75	204.49	8.50	
4400.00	4308.74	4388.07	4302.38	14.38	14.14	106.43	246.64	-510.10	243.77	215.60	8.65	
4500.00	4404.50	4488.03	4398.05	14.60	14.38	106.30	258.39	-536.54	254.87	226.26	8.91	
4600.00	4500.99	4588.14	4494.61	14.81	14.58	106.19	269.13	-560.71	265.01	236.00	9.13	
4700.00	4598.13	4688.41	4591.97	15.00	14.77	106.11	278.86	-582.59	274.18	244.81	9.34	
4800.00	4695.86	4788.81	4690.05	15.17	14.93	106.05	287.55	-602.16	282.37	252.68	9.51	
4900.00	4794.11	4889.33	4788.79	15.31	15.06	106.00	295.21	-619.38	289.57	259.62	9.67	
5000.00	4892.81	4989.95	4888.09	15.43	15.17	105.96	301.81	-634.23	295.77	265.61	9.81	
5100.00	4991.90	5090.67	4987.87	15.51	15.25	105.93	307.35	-646.70	300.98	270.67	9.93	
5200.00	5091.30	5191.46	5088.06	15.56	15.30	105.90	311.83	-656.77	305.18	274.78	10.04	
5300.00	5190.96	5292.31	5188.55	15.58	15.32	105.89	315.23	-664.43	308.37	277.94	10.14	
5400.00	5290.80	5393.20	5289.28	15.56	15.30	105.88	317.55	-669.65	310.55	280.17	10.22	
5500.00	5390.75	5494.12	5390.15	15.52	15.25	105.88	318.79	-672.45	311.71	281.44	10.30	
5600.00	5490.75	5594.72	5490.75	15.47	15.20	17.48	319.02	-672.96	311.93	293.87	17.27	
5700.00	5590.75	5694.72	5590.75	15.56	15.28	17.48	319.02	-672.96	311.93	293.58	17.00	
5800.00	5690.75	5794.72	5690.75	15.65	15.38	17.48	319.02	-672.96	311.93	293.28	16.72	
5900.00	5790.75	5894.72	5790.75	15.74	15.47	17.48	319.02	-672.96	311.93	292.97	16.45	
6000.00	5890.75	5994.72	5890.75	15.83	15.57	17.48	319.02	-672.96	311.93	292.66	16.19	
6100.00	5990.75	6094.72	5990.75	15.93	15.67	17.48	319.02	-672.96	311.93	292.34	15.93	
6200.00	6090.75	6194.72	6090.75	16.03	15.77	17.48	319.02	-672.96	311.93	292.02	15.67	
6300.00	6190.75	6294.72	6190.75	16.13	15.88	17.48	319.02	-672.96	311.93	291.70	15.42	
6400.00	6290.75	6394.72	6290.75	16.24	15.99	17.48	319.02	-672.96	311.93	291.38	15.18	
6500.00	6390.75	6494.72	6390.75	16.34	16.09	17.48	319.02	-672.96	311.93	291.05	14.94	
6600.00	6490.75	6594.72	6490.75	16.45	16.20	17.48	319.02	-672.96	311.93	290.71	14.70	
6700.00	6590.75	6694.72	6590.75	16.56	16.32	17.48	319.02	-672.96	311.93	290.38	14.47	
6800.00	6690.75	6794.72	6690.75	16.67	16.43	17.48	319.02	-672.96	311.93	290.04	14.25	
6900.00	6790.75	6894.72	6790.75	16.79	16.55	17.48	319.02	-672.96	311.93	289.70	14.03	
7000.00	6890.75	6994.72	6890.75	16.90	16.67	17.48	319.02	-672.96	311.93	289.36	13.82	
7100.00	6990.75	7094.72	6990.75	17.02	16.79	17.48	319.02	-672.96	311.93	289.01	13.61	
7200.00	7090.75	7194.72	7090.75	17.14	16.91	17.48	319.02	-672.96	311.93	288.66	13.41	
7300.00	7190.75	7294.72	7190.75	17.26	17.03	17.48	319.02	-672.96	311.93	288.31	13.21	
7400.00	7290.75	7394.72	7290.75	17.38	17.16	17.48	319.02	-672.96	311.93	287.96	13.01	
7500.00	7390.75	7494.72	7390.75	17.50	17.28	17.48	319.02	-672.96	311.93	287.60	12.82	
7600.00	7490.75	7594.72	7490.75	17.63	17.41	17.48	319.02	-672.96	311.93	287.24	12.64	
7700.00	7590.75	7694.72	7590.75	17.76	17.54	17.48	319.02	-672.96	311.93	286.88	12.46	
7800.00	7690.75	7794.72	7690.75	17.89	17.67	17.48	319.02	-672.96	311.93	286.52	12.28	
7900.00	7790.75	7894.72	7790.75	18.02	17.80	17.48	319.02	-672.96	311.93	286.16	12.11	
8000.00	7890.75	7994.72	7890.75	18.15	17.94	17.48	319.02	-672.96	311.93	285.80	11.94	
8100.00	7990.75	8094.72	7990.75	18.28	18.07	17.48	319.02	-672.96	311.93	285.43	11.77	
8200.00	8090.75	8194.72	8090.75	18.42	18.21	17.48	319.02	-672.96	311.93	285.06	11.61	
8300.00	8190.75	8294.72	8190.75	18.55	18.35	17.48	319.02	-672.96	311.93	284.69	11.45	

PLEASE REMIT TO: M-I L.L.C.
P.O. BOX 200132
DALLAS, TX 75320-0132



INVOICE NO: 5152040
PAGE NO: 1 of 1

DATE: 06-JUN-07

TERMS: N30

DUE DATE: 06-JUL-07

BILLED TO:

KERR MCGEE CORP
1368 SOUTH 1200 EAST
VERNAL, UT 84078

CUSTOMER NO: 11305

PURCHASE ORDER: NEW APP

DESTINATION/WELL NAME
BONANZA WEST #2

WELL NUMBER: NP-34839

COUNTY & STATE

BLOCK NO

SALES ORG CODE: CWES

RIG/PLATFORM:

UINTAH, UT

CURRENCY: USD

SALES ORDER NO.	DELIVERY NO.	WHSE	DATE SHIPPED	QTY	ITEM DESCRIPTION	UOM	ITEM NUMBER	TAX	UNIT PRICE	AMOUNT
513036	1040274	A281	01-JUN-07	22	SULFATREAT HP	BG,2000 LB	M0003312	T	920.00	20240.00
		A281	01-JUN-07	2	FOAM FILTER 74 INCHES	EACH	M0003402	T	365.64	731.28
DT	D									----- 20,971.28
					UT TAX	4.7500%				996.13
					UINTAH TAX	1.7500%				367.00
TAXABLE 20,971.28		NON TAXABLE .00		TAX CHARGED 1,363.13		TOTAL 22,334.41				

THANK YOU FOR YOUR BUSINESS

M-I L.L.C.
P.O. Box 20842
Houston 77242

For Inquiries:
(800) 726-7687

SELLER WARRANTS, THAT TO THE BEST OF ITS KNOWLEDGE AND BELIEF, THE PRICES CHARGED ON THE INVOICE ARE NOT A VIOLATION OF ANY LAW OR GOVERNMENT REGULATION. INTEREST WILL BE CHARGED ON DELINQUENT ACCOUNTS AT THE RATE OF 1 1/2% PER MONTH OR THE MAXIMUM RATE ALLOWED BY LAW, WHICHEVER IS LESS. IF THIS ACCOUNT IS PLACED WITH AN ATTORNEY OR COLLECTION AGENCY, OR LEGAL PROCEEDINGS ARE EMPLOYED FOR COLLECTION, CUSTOMER SHALL BE RESPONSIBLE FOR REASONABLE ATTORNEY'S OR AGENT'S FEES, IN ADDITION TO THE AMOUNT OF THE ACCOUNT PLUS APPLICABLE INTEREST. ALL SALES ARE COVERED BY THE STANDARD TERMS OF SALE ON THE REVERSE.

Kerr-McGee Oil & Gas Onshore LP

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

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

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

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

Kerr-McGee Oil & Gas Onshore LP

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

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

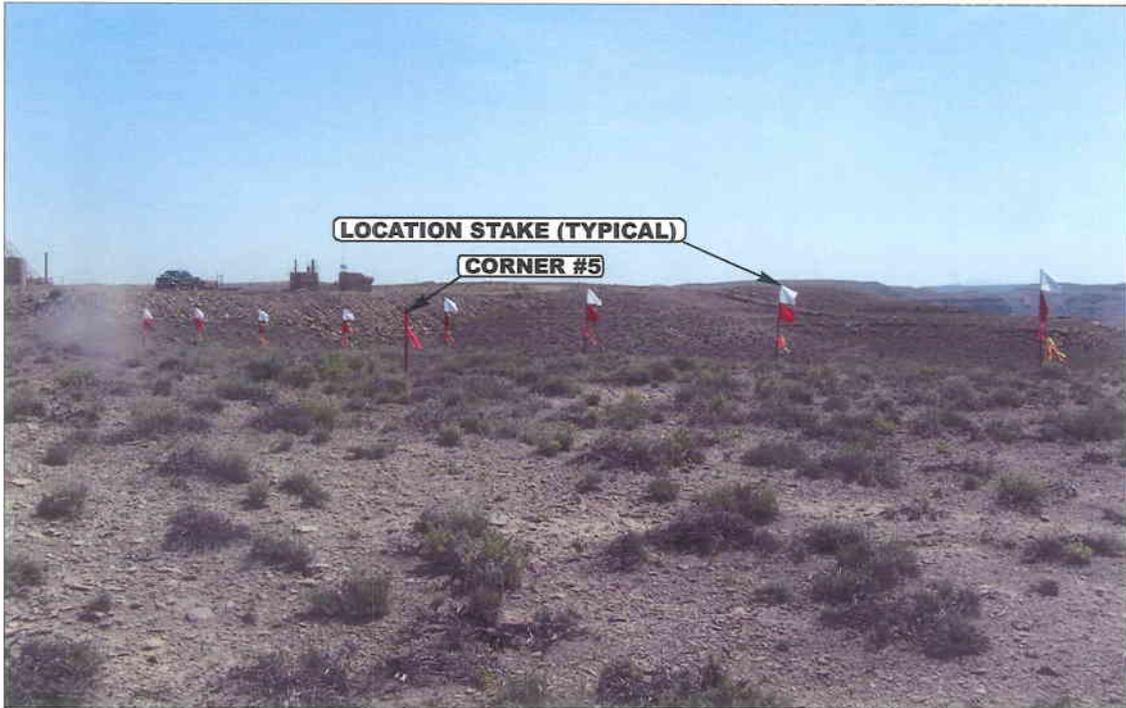


PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKES

CAMERA ANGLE: SOUTHERLY



PHOTO: VIEW OF EXISTING ACCESS

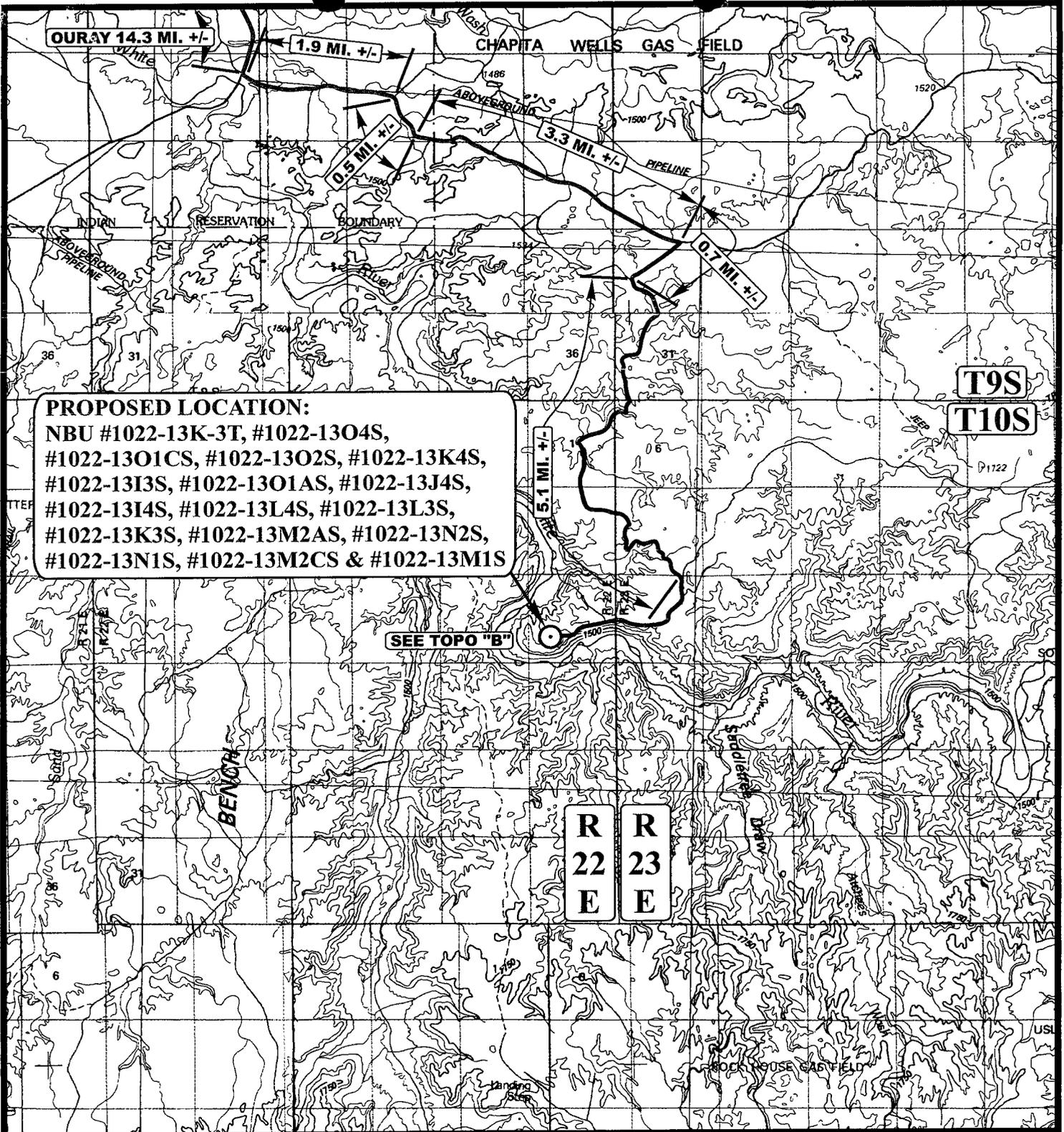
CAMERA ANGLE: WESTERLY



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

- Since 1964 -

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



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

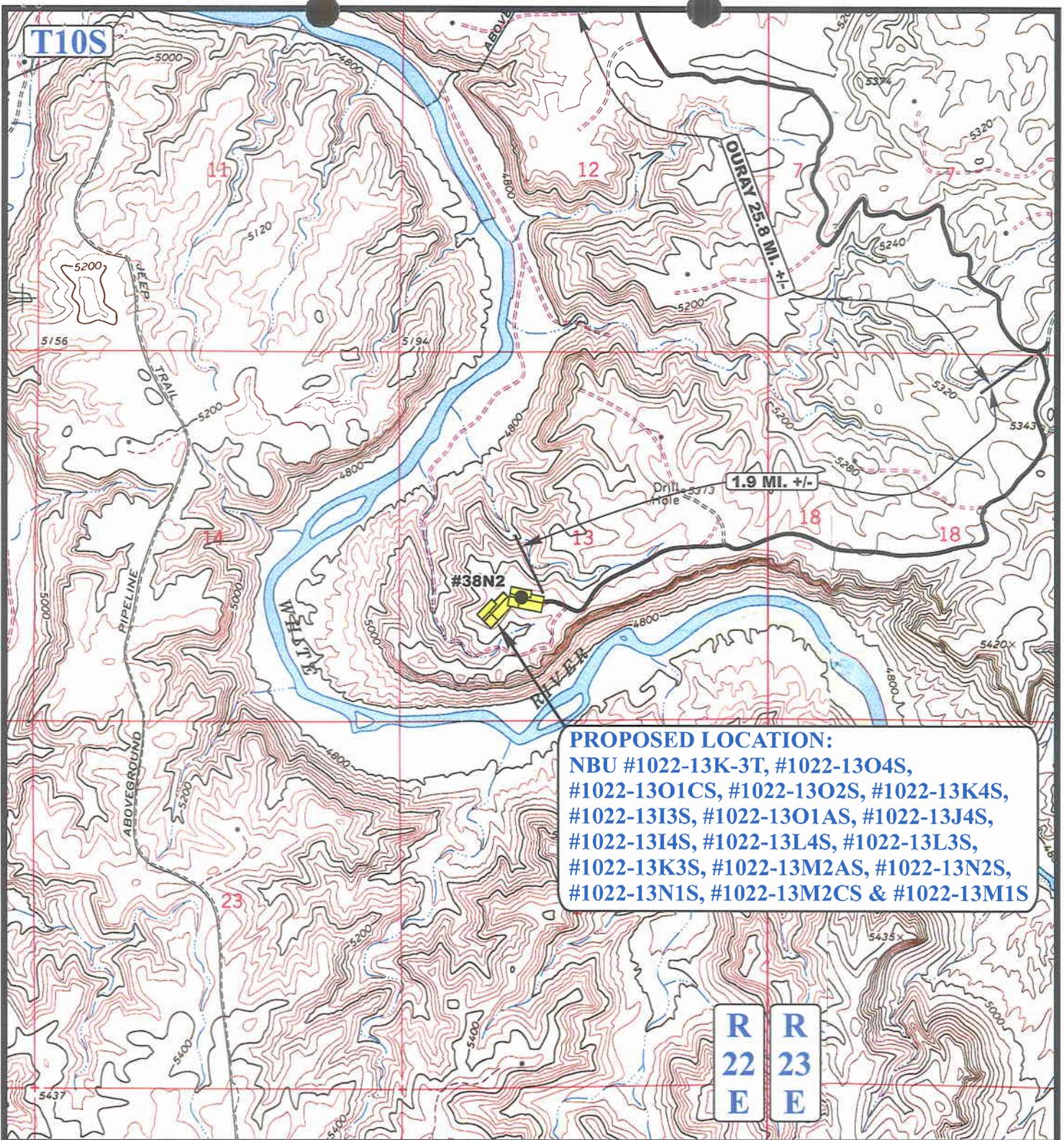
LEGEND:
 ○ PROPOSED LOCATION

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

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



TOPOGRAPHIC 05 17 07
MAP MONTH DAY YEAR
 SCALE: 1:100,000 DRAWN BY: C.P. REVISED: 00-00-00 **A**
TOPO



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

R
22
E

R
23
E

LEGEND:

- EXISTING ROAD
- PROPOSED ACCESS ROAD



Kerr-McGee Oil & Gas Onshore LP

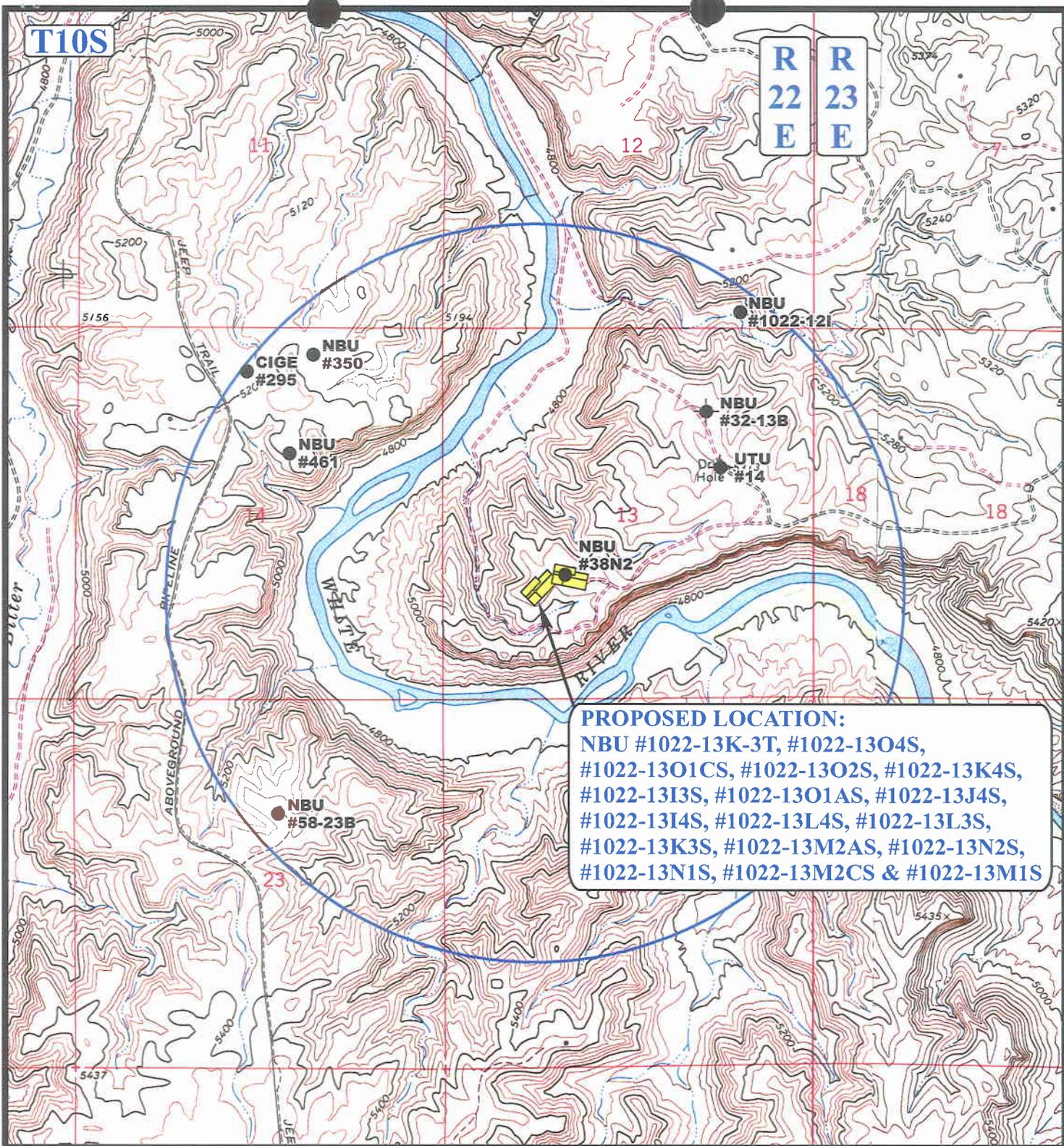
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 #1022-13K4S, #1022-13I3S, #1022-13O1AS, #1022-13J4S,
 #1022-13I4S, #1022-13L4S, #1022-13L3S, #1022-13K3S,
 #1022-13M2AS, #1022-13N2S, #1022-13N1S, #1022-13M2CS
 & #1022-13M1S

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

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

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





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

Kerr-McGee Oil & Gas Onshore LP

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

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

LEGEND:

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



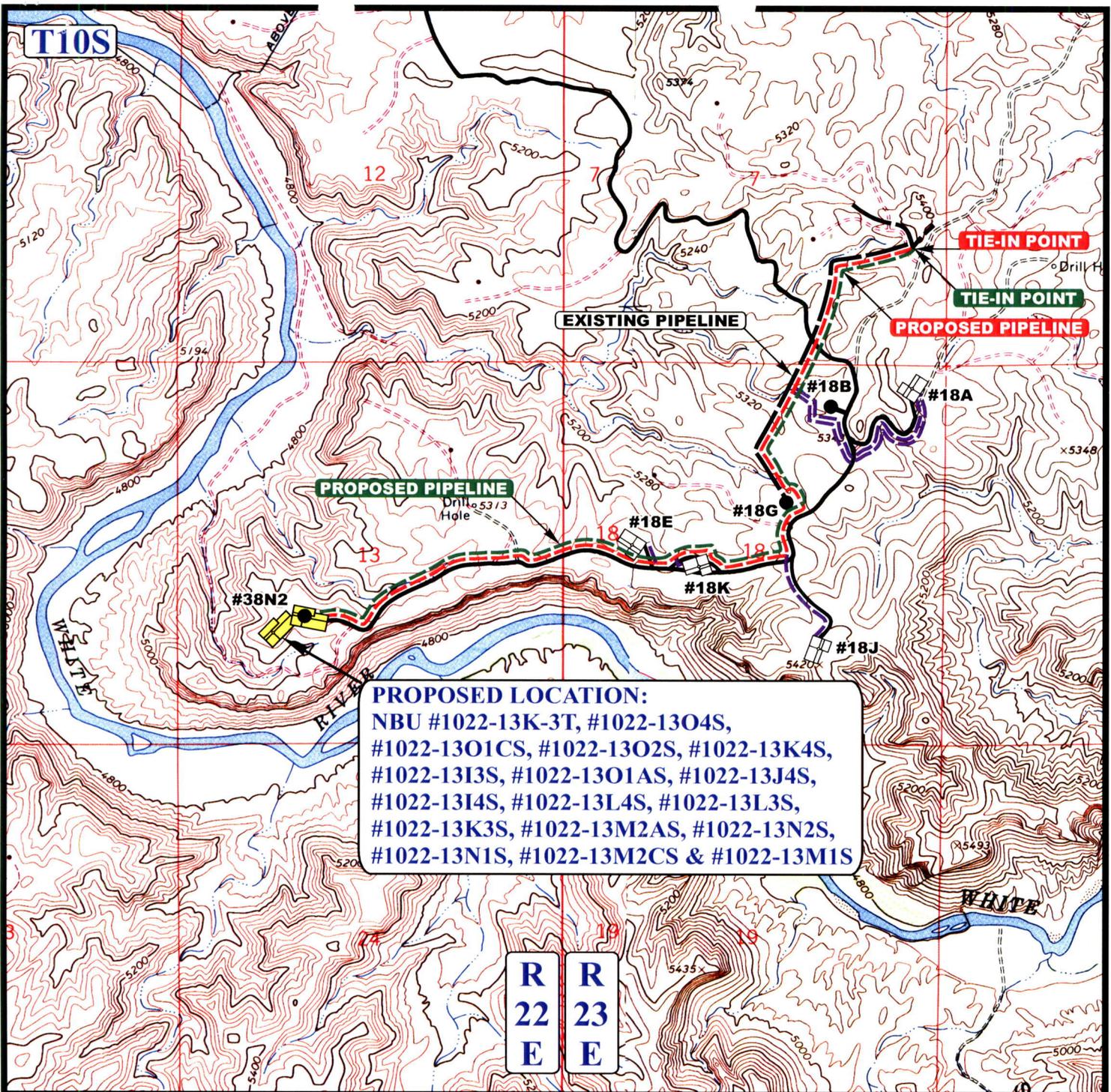
Uintah Engineering & Land Surveying
 85 South 200 East Vernal, Utah 84078
 (435) 789-1017 * FAX (435) 789-1813

**TOPOGRAPHIC
 MAP**

05 17 07
 MONTH DAY YEAR

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





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

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

Kerr-McGee Oil & Gas Onshore LP

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

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

LEGEND:

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



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

**TOPOGRAPHIC
 MAP**

05 17 07
 MONTH DAY YEAR

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

REVISED: 07-19-07



Kerr-McGee Oil & Gas Onshore LP

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

PIPELINE ALIGNMENT

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



PHOTO: VIEW FROM TIE-IN POINT

CAMERA ANGLE: WESTERLY



PHOTO: VIEW OF PIPELINE ALIGNMENT

CAMERA ANGLE: WESTERLY



- Since 1964 -

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

PIPELINE PHOTOS

05 17 07
MONTH DAY YEAR

PHOTO

TAKEN BY: L.K. | DRAWN BY: C.P. | REVISED: 00-00-00

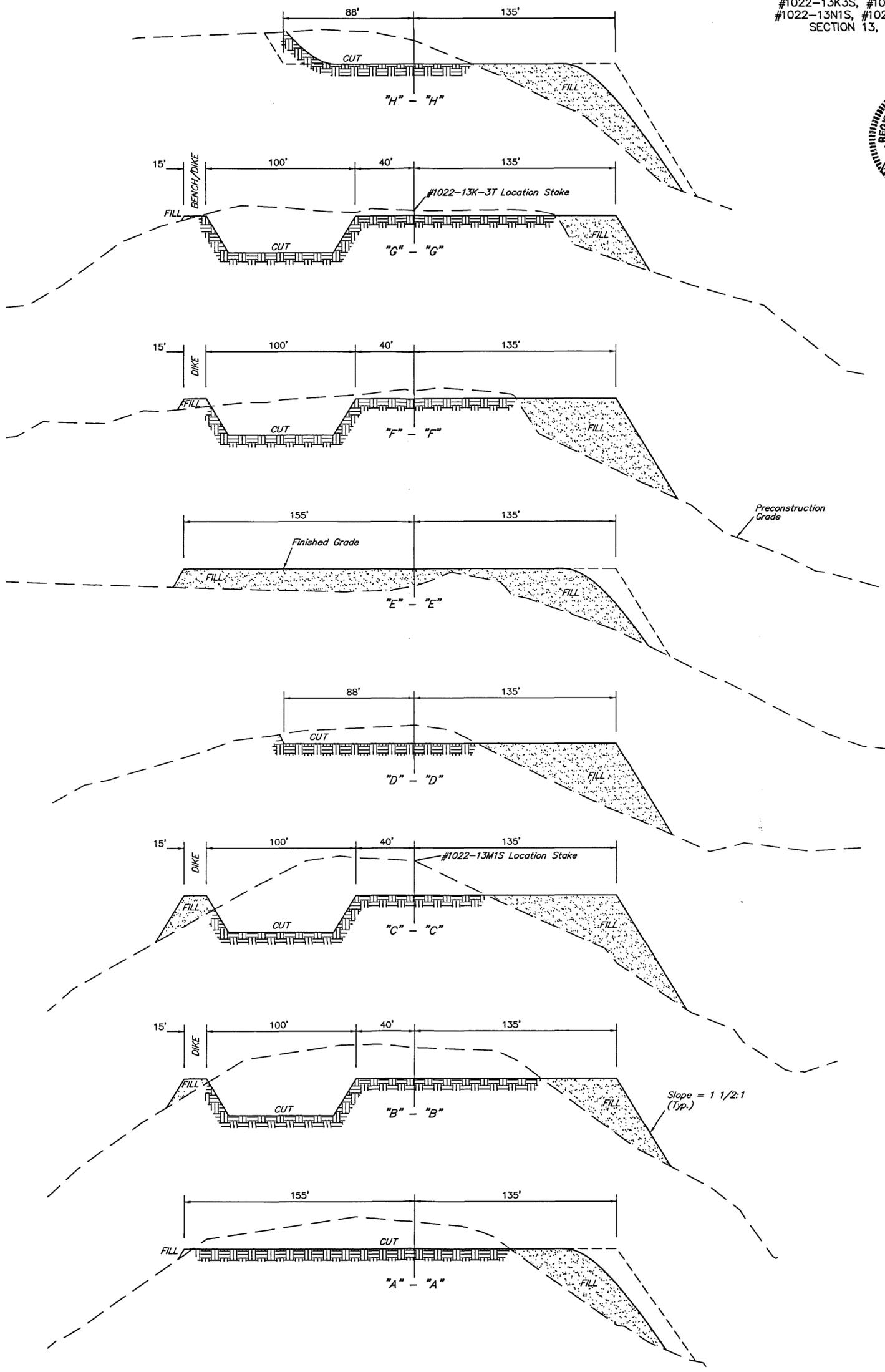
FIGURE #2

TYPICAL CROSS SECTIONS FOR

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



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



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

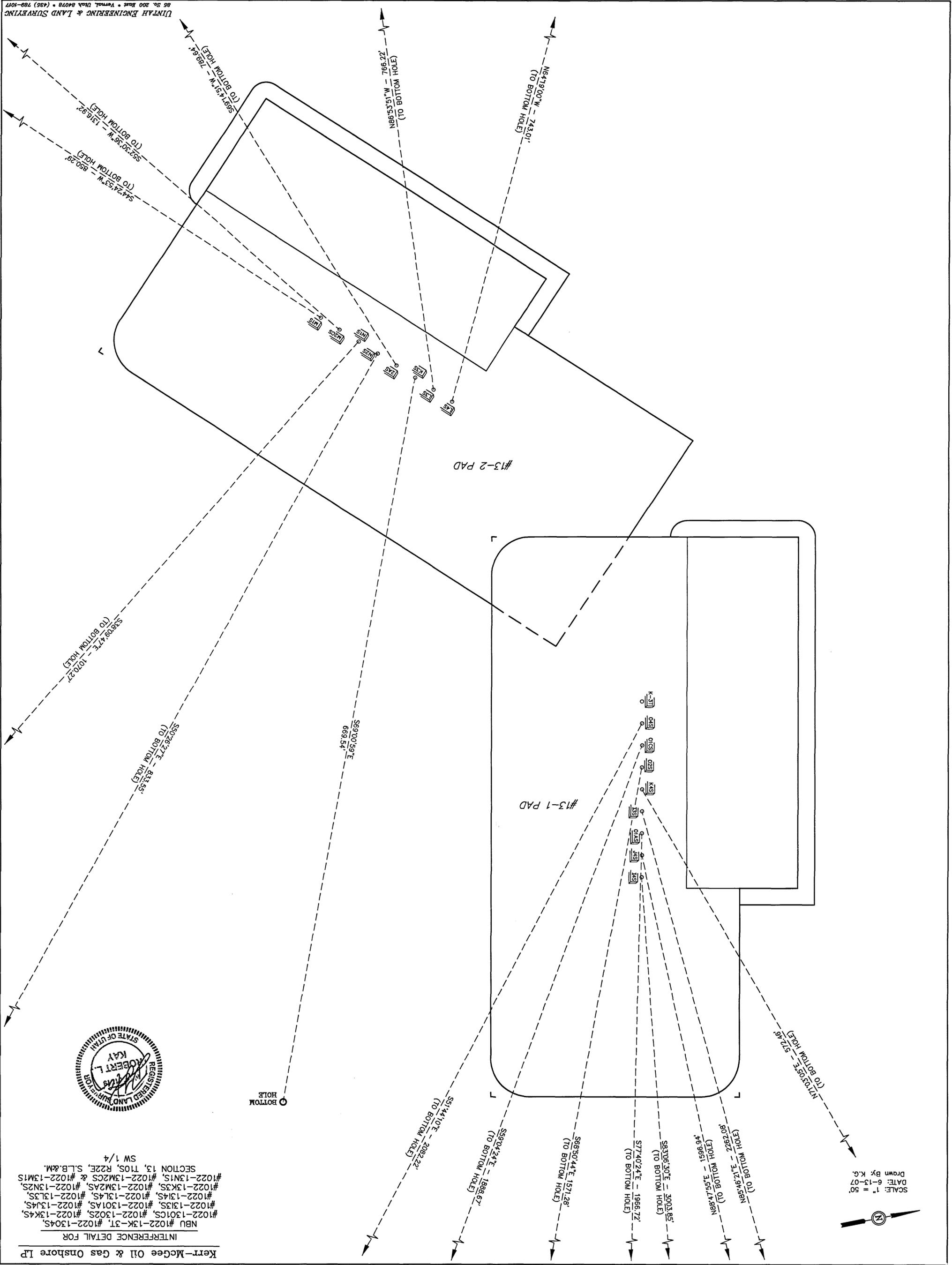
APPROXIMATE YARDAGES FOR #13-1 PAD

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

APPROXIMATE YARDAGES FOR #13-2 PAD

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

* NOTE:
 FILL QUANTITY INCLUDES
 5% FOR COMPACTION



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

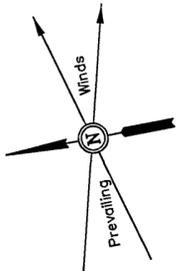


Kerr-McGee Oil & Gas Onshore LP
 INTERFERENCE DETAIL FOR
 NBU #1022-13K-3T, #1022-13O4S,
 #1022-13O1CS, #1022-13O2S, #1022-13K4S,
 #1022-13I3S, #1022-13O1AS, #1022-13J4S,
 #1022-13I4S, #1022-13L4S, #1022-13L3S,
 #1022-13K3S, #1022-13M2AS, #1022-13N2S,
 #1022-13N1S, #1022-13M2CS & #1022-13M1S
 SECTION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

FIGURE #1

LOCATION LAYOUT FOR

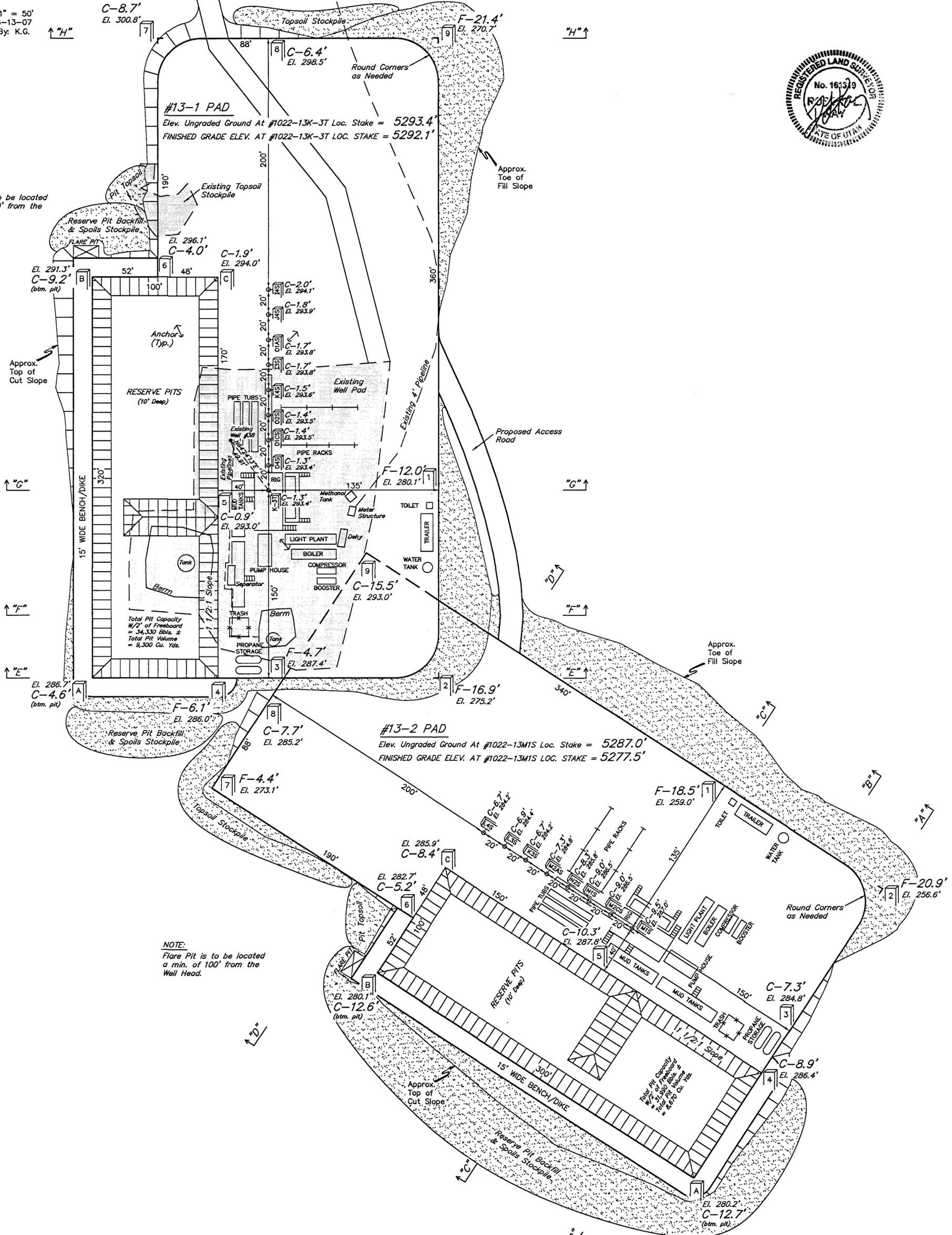
NBU #1022-13K-3T, #1022-13O4S,
 #1022-13O1CS, #1022-13O2S, #1022-13K4S,
 #1022-13I3S, #1022-13O1AS, #1022-13J4S,
 #1022-13I4S, #1022-13L4S, #1022-13L3S,
 #1022-13K3S, #1022-13M2AS, #1022-13N2S,
 #1022-13N1S, #1022-13M2CS & #1022-13M1S
 SECTION 13, T10S, R22E, S.L.B.&M.
 SW 1/4



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

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

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



**WORKSHEET
APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 08/06/2007

API NO. ASSIGNED: 43-047-39485

WELL NAME: NBU 1022-13L3S
 OPERATOR: KERR-MCGEE OIL & GAS (N2995)
 CONTACT: SHEILA UPCHEGO

PHONE NUMBER: 435-781-7024

PROPOSED LOCATION:

NWSW

NESW 13 100S 220E
 SURFACE: 1624 FSL 1356 FWL
 BOTTOM: 1665 FSL 0590 FWL
 COUNTY: UINTAH
 LATITUDE: 39.94612 LONGITUDE: -109.3922
 UTM SURF EASTINGS: 637357 NORTHINGS: 4422805
 FIELD NAME: NATURAL BUTTES (630)

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

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

PROPOSED FORMATION: WSMVD
 COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

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

LOCATION AND SITING:

- R649-2-3.
- Unit: NATURAL BUTTES
- R649-3-2. General
Siting: 460 From Qtr/Qtr & 920' Between Wells
- R649-3-3. Exception
- Drilling Unit
Board Cause No: 173-14
Eff Date: 12-2-99
Siting: 460' fr ubdy of uncomm. Tracts
- R649-3-11. Directional Drill

COMMENTS:

Needs Permit (06-27-07)

STIPULATIONS:

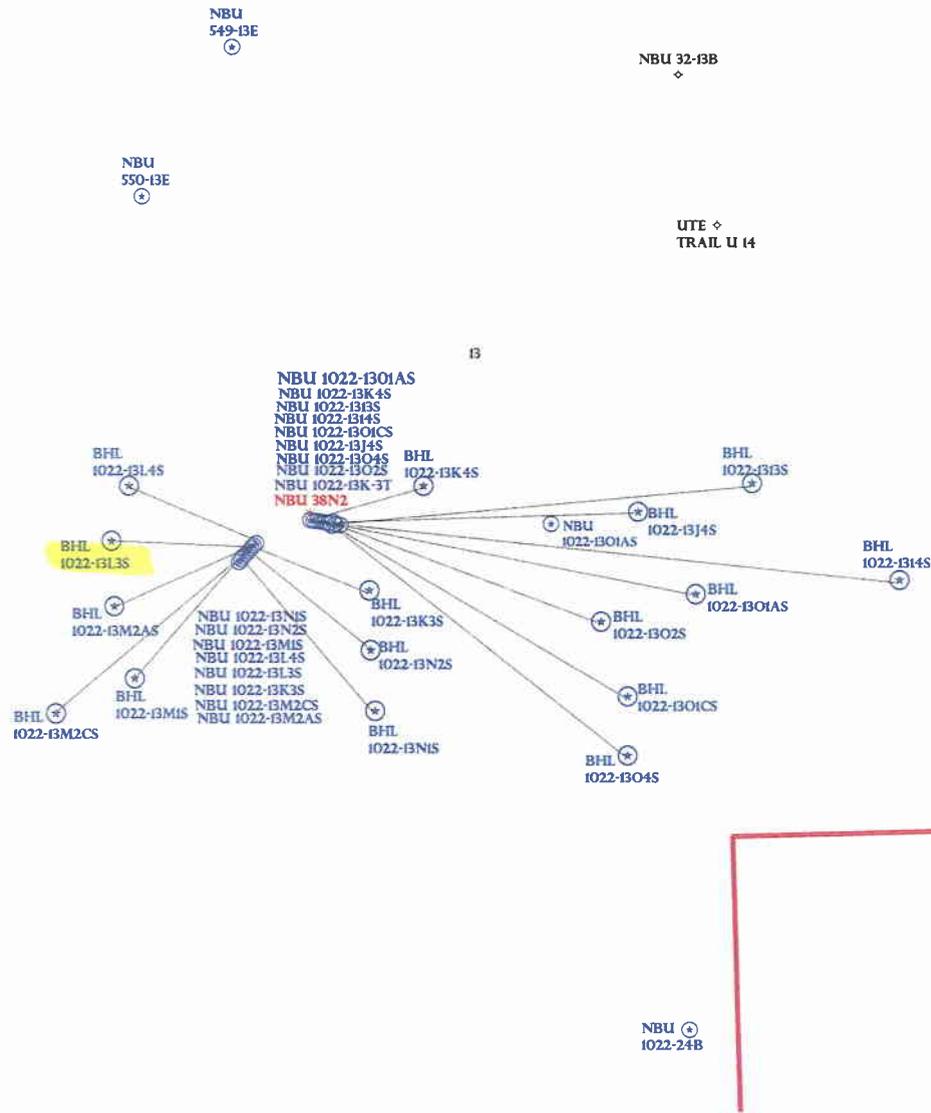
- 1- STATEMENT OF BASIS*
- 2- OIL SHALE*
- 3- Surface (sg Cont stip*

T10S R22E

T10S R23E

NATURAL BUTTES FIELD NATURAL BUTTES UNIT

CAUSE: 173-14 / 12-2-1999



OPERATOR: KERR MCGEE O&G (N2995)

SEC: 13 T.10S R. 22E

FIELD: NATURAL BUTTES (630)

COUNTY: UINTAH

CAUSE: 173-14 / 12-2-1999

Field Status	
	ABANDONED
	ACTIVE
	COMBINED
	INACTIVE
	PROPOSED
	STORAGE
	TERMINATED

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

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



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

Application for Permit to Drill

Statement of Basis

Utah Division of Oil, Gas and Mining

8/21/2007

Page 1

APD No	API WellNo	Status	Well Type	Surf Ownr	CBM
492	43-047-39485-00-00		GW	S	No
Operator	KERR-MCGEE OIL & GAS ONSHORE, LP	Surface Owner-APD			
Well Name	NBU 1022-13L3S	Unit			
Field	UNDESIGNATED	Type of Work			
Location	NESW 13 10S 22E S 1624 FSL 1356 FWL GPS Coord (UTM) 637357E 4422805N				

Geologic Statement of Basis

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

Brad Hill
APD Evaluator

8/21/2007
Date / Time

Surface Statement of Basis

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

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

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

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

Application for Permit to Drill

Statement of Basis

8/21/2007

Utah Division of Oil, Gas and Mining

Page 2

area.

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

Floyd Bartlett
Onsite Evaluator

6/27/2007
Date / Time

Conditions of Approval / Application for Permit to Drill

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

ON-SITE PREDRILL EVALUATION

Utah Division of Oil, Gas and Mining

Operator KERR-MCGEE OIL & GAS ONSHORE, LP
Well Name NBU 1022-13L3S
API Number 43-047-39485-0 **APD No** 492 **Field/Unit** UNDESIGNATED
Location: 1/4,1/4 NESW **Sec** 13 **Tw** 10S **Rng** 22E 1624 FSL 1356 FWL
GPS Coord (UTM) 637365 4422813 **Surface Owner**

Participants

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

Regional/Local Setting & Topography

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

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

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

Surface Use Plan

Current Surface Use

Grazing
Recreational
Wildlife Habitat

New Road

Miles	Well Pad	Src Const Material	Surface Formation
0.01	Width 290 Length 490	Onsite	UNTA

Ancillary Facilities N

Waste Management Plan Adequate? Y

Environmental Parameters

Affected Floodplains and/or Wetland N

Flora / Fauna

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

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

Soil Type and Characteristics

Shallow gravely sandy loam.

Erosion Issues N

Sedimentation Issues N

Site Stability Issues N

Drainage Diversion Required N

Berm Required? N

Erosion Sedimentation Control Required? N

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

Reserve Pit

Site-Specific Factors

Site Ranking

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

Final Score 35 Sensitivity Level

Characteristics / Requirements

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

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

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

Other Observations / Comments

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

Floyd Bartlett
Evaluator

6/27/2007
Date / Time

2007-09 Kerr McGee NBU 1022-13L3S

Casing Schematic

BHP $0.052(8240)11.6 = 4970 \text{ psi}$
anticipate - 5109 psi

Gas $.12(8240) = 989$
 $4940 - 989 = 3951 \text{ psi, MASP}$

BOPE 5M ✓

Burst 2270
70% 1589 psi

Max P @ surf. shoe
 $.22(640) = 1351 \text{ psi}$
 $4970 - 1351 = 3589 \text{ psi}$

test to 1589 psi ✓

Slp. surf. cont. ✓

9-5/8"
MW 8.3
Frac 19.3

4-1/2"
MW 11.6

Surface

12 1/2'

18 1/2'

TOC @ 0.

Uinta

to surf w/5% w/o ✓
TOC @ 738.961' Green River # surf stop
1291' Birds Nest Water propose to surf.
1642' Mahogany

Surface
2100. MD
2100. TVD

4021' Wasatch
4300' ± BMSW

✓

6257' Mesa Verde

7118' MV U2

7674' MVL1

Production
8349. MD
8240. TVD

Well name:

2007-09 Kerr McGee NBU 1022-13L3SOperator: **Kerr McGee Oil & Gas Onshore L.P.**String type: **Surface**

Project ID:

43-047-39485Location: **Uintah County, Utah****Design parameters:****Collapse**Mud weight: 8.300 ppg
Design is based on evacuated pipe.**Burst**Max anticipated surface
pressure: 1,848 psi
Internal gradient: 0.120 psi/ft
Calculated BHP 2,100 psi

No backup mud specified.

Minimum design factors:**Collapse:**

Design factor 1.125

Burst:

Design factor 1.00

Tension:8 Round STC: 1.80 (J)
8 Round LTC: 1.80 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.50 (B)Tension is based on buoyed weight.
Neutral point: 1,844 ft**Environment:**H2S considered? No
Surface temperature: 75 °F
Bottom hole temperature: 104 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 1,300 ft

Cement top: 738 ft

Non-directional string.**Re subsequent strings:**Next setting depth: 8,240 ft
Next mud weight: 11.600 ppg
Next setting BHP: 4,965 psi
Fracture mud wt: 19.250 ppg
Fracture depth: 2,100 ft
Injection pressure: 2,100 psi

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

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

Prepared by: Helen Sadik-Macdonald
Div of Oil, Gas & MineralsPhone: (801) 538-5357
FAX: (801) 359-3940Date: September 5, 2007
Salt Lake City, Utah**Remarks:**

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

Burst strength is not adjusted for tension.

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

Well name:	2007-09 Kerr McGee NBU 1022-13L3S		
Operator:	Kerr McGee Oil & Gas Onshore L.P.		
String type:	Production	Project ID:	43-047-39485
Location:	Uintah County, Utah		

Design parameters:

Collapse

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

Burst

Max anticipated surface pressure: 3,153 psi
 Internal gradient: 0.220 psi/ft
 Calculated BHP 4,965 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: 6,920 ft

Environment:

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

Cement top: Surface

Directional well information:

Kick-off point 2200 ft
 Departure at shoe: 767 ft
 Maximum dogleg: 2.5 °/100ft
 Inclination at shoe: 0 °

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	8349	4.5	11.60	I-80	LT&C	8240	8349	3.875	728.6
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	4965	6360	1.281	4965	7780	1.57	79	212	2.68 J

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

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

Date: September 5, 2007
 Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 8240 ft, a mud weight of 11.6 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a



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

June 28, 2007

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

RE: Directional Drilling R649-3-11
NBU 1022-13L3S 1624'FSL, 1356'FWL (Surface)
1665'FSL, 590'FWL (Bottomhole)
Uintah County, Utah

Dear Ms. Whitney:

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

- NBU 1022-13L3S is located within the Natural Buttes Unit Area.
- Kerr McGee Oil & Gas Onshore L.P., is permitting this well as a directional well in order to minimize surface disturbance. Locating the well at the surface location and directionally drilling from this location, Kerr McGee Oil & Gas Onshore L.P., will be able to utilize the existing road and pipeline in the area.
- Furthermore, Kerr McGee Oil & Gas Onshore L.P. hereby certifies that it is the sole working interest owner within 460 feet of the entire directional well bore.

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

Sincerely,


Sheila Upchego
Senior Land Admin Specialist

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AUG 06 2007
DIV. OF OIL, GAS & MINING

United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office

P.O. Box 45155

Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:

3160

(UT-922)

August 9, 2007

Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2007 Plan of Development Natural Buttes Unit
Uintah County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2007 within the Natural Buttes Unit, Uintah County, Utah.

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

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

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

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

/s/ Michael L. Coulthard

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

MCoulthard:mc:8-9-07

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

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

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

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

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

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

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

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

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



JON M. HUNTSMAN, JR.
Governor

GARY R. HERBERT
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil Gas and Mining

JOHN R. BAZA
Division Director

September 11, 2007

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

Re: NBU 1022-13L3S Well, 1624' FSL, 1356' FWL, NE SW, Sec. 13, T. 10 South,
R. 22 East, Bottom Location 1665' FSL, 590' FWL, NW SW, Sec. 13, T. 10 South,
R. 22 East, Uintah County, Utah

Gentlemen:

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

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-047-39485.

Sincerely,

Gil Hunt
Associate Director

pab
Enclosures

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



Operator: Kerr McGee Oil & Gas Onshore LP
Well Name & Number NBU 1022-13L3S
API Number: 43-047-39485
Lease: STUO-08512-ST

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

Conditions of Approval

1. General

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

2. Notification Requirements

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

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

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

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

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

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

3. Reporting Requirements

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

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

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

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

Well Name: NBU 1022-13L3S

Api No: 43-047-39485 Lease Type: STATE

Section 13 Township 10S Range 22E County UINTAH

Drilling Contractor PETE MARTIN DRLG RIG # RATHOLE

SPUDDED:

Date 10/26/07

Time 2:00 PM

How DRY

Drilling will Commence: _____

Reported by LOU WELDON

Telephone # (435) 828-7035

Date 10/29/07 Signed CHD

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
4304739487	NBU 1022-13N2S		NESW	13	10S	22E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
B	99999	2900	10/27/2007			10/31/07	
Comments: MIRU PETE MARTIN BUCKET RIG. <i>WSTMVD</i> SPUD WELL LOCATION ON 10/27/2007 AT 1400 HRS <i>BHL = SESW</i>							

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304739485	NBU 1022-13L3S		NESW	13	10S	22E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
B	99999	2900	10/26/2007			10/31/07	
Comments: MIRU PETE MARTIN BUCKET RIG. <i>WSTMVD</i> SPUD WELL LOCATION ON 10/26/2007 AT 1400 HRS. <i>BHL = NWSW</i>							

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304739486	NBU 1022-13L4S		NESW	13	10S	22E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
B	99999	2900	10/26/2007			10/31/07	
Comments: MIRU PETE MARTIN BUCKET RIG. <i>WSTMVD</i> SPUD WELL LOCATION ON 10/26/2007 AT 1200 HRS <i>BHL = NWSW</i>							

ACTION CODES:

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

SHEILA UPCHEGO

Name (Please Print)

Signature

SENIOR LAND SPECIALIST

Title

Date

[Handwritten Signature]

10/29/2007

(5/2000)

RECEIVED

OCT 30 2007

DIV. OF OIL, GAS & MINING

10/29/07 - emailed to Eugene Russell - NDSM

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

FORM 9

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

SUNDRY NOTICES AND REPORTS ON WELLS

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

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

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

1. TYPE OF WELL
OIL WELL GAS WELL OTHER _____

8. WELL NAME and NUMBER:
NBU 1022-13L3S

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

9. API NUMBER:
4304739485

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

10. FIELD AND POOL, OR WILDCAT:
NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: **1624'FSL, 1356'FWL**
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: **NESW 13 10S 22E**

COUNTY: **UINTAH**

STATE: **UTAH**

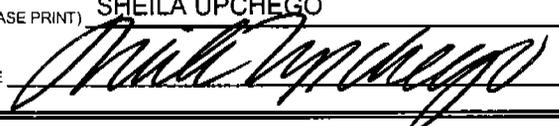
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: WELL SPUD
	<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 10/26/2007 AT 1400 HRS.

NAME (PLEASE PRINT) **SHEILA UPCHEGO** TITLE **SENIOR LAND ADMIN SPECIALIST**
SIGNATURE  DATE **10/29/2007**

(This space for State use only)

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NOV 01 2007

DIV. OF OIL, GAS & MINING

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

FORM 9

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

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

1. TYPE OF WELL
OIL WELL GAS WELL OTHER _____

8. WELL NAME and NUMBER:
NBU 1022-13L3S

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

9. API NUMBER:
4304739485

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

PHONE NUMBER:
(435) 781-7024

10. FIELD AND POOL, OR WILDCAT:
NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: **1624'FSL, 1356'FWL**

COUNTY: **UINTAH**

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: **NESW 13 10S 22E**

STATE: **UTAH**

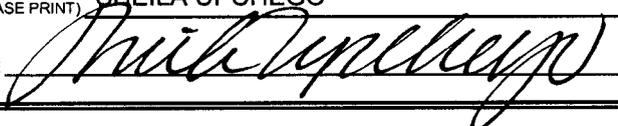
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: <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 11/09/2007. DRILLED 12 1/4" SURFACE HOLE TO 2140'. RAN 9 5/8" 39 JTS OF 32.3# H-40 AND 12 JTS OF 36# J-55 SURFACE CSG. LEAD CMT W/200 SX PREM CLASS G @110 PPG 3.82 YIELD. TAILED CMT W/200 SX PREM CLASS G @15.8 PPG 1.15 YIELD. GOOD RETURNS TO PIT. NO LEAD CMT TO SURFACE. RAN 200' OF 1' PIPE. CMT W/125 SX PREM CLASS G @15.8 PPG 1.15 YIELD. GOOD CMT TO SURFACE AND FELL BACK. TOP OUT W/75 SX PREM CLASS G @15.8 PPG 1.15 YIELD. DOWN BACKSIDE GOOD CMT TO SURFACE HOLE STAYED FULL.

WORT.

NAME (PLEASE PRINT) SHEILA UPCHEGO TITLE SENIOR LAND ADMIN SPECIALIST
SIGNATURE  DATE 11/26/2007

(This space for State use only)

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DEC 03 2007

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

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS		5. LEASE DESIGNATION AND SERIAL NUMBER: STUO-08512-ST
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: UNIT #891008900A
2. NAME OF OPERATOR: KERR MCGEE OIL & GAS ONSHORE LP		8. WELL NAME and NUMBER: NBU 1022-13L3S
3. ADDRESS OF OPERATOR: 1368 SOUTH 1200 EAST CITY VERNAL STATE UT ZIP 84078		9. API NUMBER: 4304739485
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1624'FSL, 1356'FWL		10. FIELD AND POOL, OR WILDCAT: NATURAL BUTTES
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NESW 13 10S 22E		COUNTY: UINTAH
		STATE: UTAH

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

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

FINISHED DRILLING FROM 2140' TO 8412' ON 02/16/2008. RAN 4 1/2" 11.6# I-80 PRODUCTION CSG. LEAD CMT W/291 SX PREM LITE II @11.0 PPG 3.38 YIELD. TAILED CMT W/1205 SX 50/50 POZ @14.3 PPG 1.31 YIELD. DROPPED PLUG & DISPLACED W/130.2 BBLS CLAY TREAT WATER @2700 PSI. BUMPED PLUG @3228 PSI FLOATS HELD W/1.5 BBL RETURNS. GOOD RETURNS DURING CMT JOB W/38 BBLS CMT TO SURFACE. N/DN BOPE SET SLIPS ON 4 1/2 CSG W/100K STRING WT. MAKE ROUGH CUT & L/OUT SAME. CLEAN RIG TANKS.

RELEASED PIONEER RIG ON 02/17/2008 AT 1600 HRS.

RECEIVED
FEB 25 2008
DIV. OF OIL, GAS & MINING

NAME (PLEASE PRINT) SHEILA UPCHEGO	TITLE SENIOR LAND ADMIN SPECIALIST
SIGNATURE	DATE 2/19/2008

(This space for State use only)

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

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

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

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

- A well is considered completed when the well has been adequately worked to be capable of producing oil or gas or when well testing as required by the division is concluded.

- Within 30 days after the completion or plugging of a well, the following shall be filed:
 - Form 8, Well Completion or Recompletion Report and Log
 - A copy of electric and radioactivity logs, if run
 - A copy of drillstem test reports,
 - A copy of formation water analyses, porosity, permeability or fluid saturation determinations
 - A copy of core analyses, and lithologic logs or sample descriptions if compiled
 - A copy of directional, deviation, and/or measurement-while-drilling survey for each horizontal well

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

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

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

Well: 43 047 39485 API Number: _____ Drilling Commenced: _____
NBU 1022-13L3S
10S 22E 13

List Attached

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

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

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

cc: Well File
Compliance File

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

ATTACHMENT

Operator: Kerr-McGee Oil & Gas Onshore, LP

Today's Date: 04/21/2008

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

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

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS		5. LEASE DESIGNATION AND SERIAL NUMBER: STUO-08512-ST
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: UNIT #891008900A
2. NAME OF OPERATOR: KERR MCGEE OIL & GAS ONSHORE LP		8. WELL NAME and NUMBER: NBU 1022-13L3S
3. ADDRESS OF OPERATOR: 1368 SOUTH 1200 EAST CITY VERNAL STATE UT ZIP 84078		9. API NUMBER: 4304739485
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1624'FSL, 1356'FWL		10. FIELD AND POOL, OR WILDCAT: NATURAL BUTTES
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NESW 13 10S 22E		COUNTY: UINTAH
		STATE: UTAH

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

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

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 05/01/2008 AT 1300 HRS.
PLEASE REFER TO THE ATTACHED CHRONOLOGICAL WELL HISTORY.

NAME (PLEASE PRINT) <u>SHEILA UPCHEGO</u>	TITLE <u>SENIOR LAND ADMIN SPECIALIST</u>
SIGNATURE	DATE <u>5/2/2008</u>

(This space for State use only)

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

WINS No.: 95387

NBU 1022-13L3S

Start Date: 10/26/2007

AFE No.: 2008159

Operation Summary Report

End Date: 2/17/2008

Operator KERR-MCGEE OIL & GAS ONSHORE LP	FIELD NAME NATURAL BUTTES	SPUD DATE 10/26/07	GL 5.287	KB 5306	ROUTE
API 430439485	STATE UTAH	COUNTY UINTAH	DIVISION ROCKIES		
Lat./Long.: Lat./Long.: 39.94615 / -109.39272		Q-Q/Sec/Town/Range: / 13 / 10S / 22E	Footages: 1,638.00' FSL 1,370.00' FWL		
MTD 8289	TVD 8160	LOG MD 8,123.00	PBMD	PBTVD	

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

RIG OPERATIONS:	Begin Mobilization	Rig On Location	Rig Charges	Rig Operation Start	Finish Drilling	Rig Release	Rig Off Location
PIONEER 54 / 54	02/06/2008	02/06/2008	02/07/2008	02/08/2008	02/15/2008	02/17/2008	02/17/2008

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode	P/U	Operation
10/26/2007	SUPERVISOR: LEW WELDON						
	0:00 - 14:00	14.00	DRLCON	12	F	P	WAIT ON PETE MARTIN BUCKET RIG
	14:00 - 19:00	5.00	DRLCON	02	A	P	MOVE IN AND RIG UP BUCKET RIG SPUD WELL @ 1400 HR 10/26/07 DRILL AND SET 40' OF SCHEDULE 10 PIPE DRILL RODENT HOLES FOR RIG 54 BLM AND STATE NOTFIED OF SPUD
	19:00 - 0:00	5.00	DRLCON	12	F	P	WOAR
11/9/2007	SUPERVISOR: LEW WELDON						
	0:00 - 10:30	10.50	DRLSUR	12	F	P	WAIT ON BILL JR PIOLET AIR RIG
	10:30 - 18:00	7.50	DRLSUR	02	A	P	MOVE IN AND RIG UP AIR RIG SPUD WELL @ 1030 HR 11/9/07 DRILL TO 570' SDFN
	18:00 - 0:00	6.00	DRLSUR	12	F	P	SDFN
11/10/2007	SUPERVISOR: LEW WELDON						
	0:00 - 6:00	6.00	DRLSUR	12	D	P	SDFN
	6:00 - 17:00	11.00	DRLSUR	02	A	P	RIG T/D PIOLET HOLE @ 1020' CONDITION HOLE 1 HR
	17:00 - 19:00	2.00	DRLSUR	05	A	P	TRIP DP OUT OF HOLE
	19:00 - 0:00	5.00	DRLSUR	12	F	P	WOAR
11/17/2007	SUPERVISOR: LEW WELDON						
	0:00 - 16:00	16.00	DRLSUR	12	F	P	WAIT ON BILL JR AIR RIG
	16:00 - 18:00	2.00	DRLSUR	02	A	P	MOVE IN AND RIG UP AIR RIG RIH TO 1020' AND SPUD WELL @ 1600 HR DA AT REPORT TIME
	18:00 - 0:00	6.00	DRLSUR	02	A	P	RIG DRILLING AHEAD HIT TRONA WATER @ 1410' CIRCULATING WITH SKID PUMP WITH FULL RETURNS
11/18/2007	SUPERVISOR: LEW WELDON						
	0:00 - 18:00	18.00	DRLSUR	02	A	P	RIG DRILLING AHEAD CIRCULATING WITH SKID PUMP WITH FULL RETURNS
	18:00 - 0:00	6.00	DRLSUR	02	A	P	RIG T/D @ 2140' CONDITION HOLE 1 HR
11/19/2007	SUPERVISOR: LEW WELDON						
	0:00 - 4:00	4.00	DRLSUR	05	A	P	TRIP DP OUT OF HOLE
	4:00 - 6:00	2.00	DRLSUR	11	B	P	RUNNING 9 5/8 CSG AT REPORT TIME

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

RIG OPERATIONS: Begin Mobilization Rig On Location Rig Charges Rig Operation Start Finish Drilling Rig Release Rig Off Location
 PIONEER 54 / 54 02/06/2008 02/06/2008 02/07/2008 02/08/2008 02/15/2008 02/17/2008 02/17/2008

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode	P/U	Operation
	6:00 - 7:00	1.00	DRLSUR	11	B	P	"FINISH RUNNING 2100' OF 9 5/8 CSG AND 200' OF 1" PIPE RIG DOWN AIR RIG"
	7:00 - 8:00	1.00	DRLSUR	15	A	P	CEMENT 1ST STAGE WITH 200 SKS LEAD AND 200 SKS TAIL GOOD RETURNS TO PIT NO LEAD CMT TO SURFACE
	8:00 - 8:30	0.50	DRLSUR	15	A	P	"1ST TOP JOB 125 SKS DOWN 1" PIPE GOOD CMT TO SURFACE AND FELL BACK WOC"
	8:30 - 10:00	1.50	DRLSUR	15	A	P	2ND TOP JOB 75 SKS DOWN BS GOOD CMT TO SURFACE AND STAYED AT SURFACE
	10:00 - 0:00	14.00	DRLSUR	12	F	P	NO VISIBLE LEAKS PIT 1/2 FULL WORT

2/7/2008

SUPERVISOR: KENT MOORE

0:00 - 6:00	6.00	DRLPRO	01	E	P	RDRT
6:00 - 14:00	8.00	DRLPRO	01	C	P	SKID RIG 20' TO NBU 1022-13L3S
14:00 - 19:00	5.00	DRLPRO	01	B	P	RURT
19:00 - 22:00	3.00	DRLPRO	13	A	P	N/UP BOP, ROTATING HEAD ASSY, FLOW LINE & GAS BUSTER
22:00 - 0:00	2.00	DRLPRO	13	C	P	TEST BOP - TEST RAMS, CHOKE, CHOKE LINE, FLOOR VALVES & KELLY & VALVES 250 LOW 5000 HIGH - ANNULAR 250 LOW 2500 HIGH - CASING 1500 - UNABLE TO SEAT TEST PLUG IN WELL HEAD, REMOVED ICE FROM AROUND TEST PLUG - PIPE RAMS/KELLY VALVE HAD TO OPEN/CLOSE ((FLEX RUBBER) SEVERAL TIMES TO ACHIEVE TEST - FLOOR VALVE FROZE IN CLOSED POSITION, COULD NOT OPEN - RETRIEVED SPARE VALVE FROM RIG 68

2/8/2008

SUPERVISOR: KENT MOORE

0:00 - 6:00	6.00	DRLPRO	13	C	P	TEST BOP
6:00 - 6:30	0.50	DRLPRO	13	B	P	INSTALL WEARBUSHING
6:30 - 12:00	5.50	DRLPRO	05	A	P	P/UP DIRECTIONAL BHA - RIH TRIP CHECK HWDP - RIH TAG @ 2002'
12:00 - 13:00	1.00	DRLPRO	05	A	P	INSTALL ROTATING HEAD RUBBER - CENTER BOP - CHECK SURFACE LINES FOR LEAKS
13:00 - 15:00	2.00	DRLPRO	03	E	P	DRILL CMT/FLOAT COLLAR TO 2150'
15:00 - 17:00	2.00	DRLPRO	07	B	P	CLEAN RUBBER & DEBRIS FROM VALVES & SEATS BOTH PUMPS
17:00 - 18:00	1.00	DRLPRO	03	E	P	DRILL CMT/FE & RATHOLE TO 2159'
18:00 - 0:00	6.00	DRLPRO	02	D	P	DRILL/SLIDE F/2159' TO 2532' (373' @ 62.2fph) MW 9.2/38

2/9/2008

SUPERVISOR: KENT MOORE

0:00 - 9:30	9.50	DRLPRO	02	D	P	DRILL/SLIDE F/2532' TO 3008' (476' @ 50.1fph) MW 9.1/42
9:30 - 11:00	1.50	DRLPRO	04	A	P	TROUBLESHOOT MWD - UNABLE TO RECEIVE SIGNAL F/DOWNHOLE EQUIPMENT
11:00 - 14:30	3.50	DRLPRO	05	I	P	POOH C/OUT MWD EQUIPMENT
14:30 - 0:00	9.50	DRLPRO	02	D	P	DRILL/SLIDE F/3008' TO 3367' (359' @ 37.8FPH) mw 9.1/42

2/10/2008

SUPERVISOR: KENT MOORE

0:00 - 14:00	14.00	DRLPRO	02	D	P	DRILL/SLIDE F/3367' TO 4019' (652' @ 46.6f(h) MW 9.1/42
14:00 - 14:30	0.50	DRLPRO	06	A	P	RIG SER
14:30 - 0:00	9.50	DRLPRO	02	D	P	DRILL/SLIDE F4019' TO 4500' (481' @ 50.6fph) MW 9.4/42

2/11/2008

SUPERVISOR: KENT MOORE

0:00 - 15:00	15.00	DRLPRO	02	D	P	DRILL/SLIDE F/4500' TO 5094' (594' @ 39.6FPH) MW 9.5/42
15:00 - 15:30	0.50	DRLPRO	06	A	P	RIG SER
15:30 - 0:00	8.50	DRLPRO	02	D	P	DRILL/SLIDE F/5094' TO 5410' (316' @ 37.2fph) MW 9.7/42

EVENT INFORMATION:		EVENT ACTIVITY: DRILLING					REASON:	
		OBJECTIVE: DEVELOPMENT					DATE WELL STARTED/RESUMED:	
		OBJECTIVE2: ORIGINAL					Event End Status: COMPLETE	
RIG OPERATIONS:		Begin Mobilization	Rig On Location	Rig Charges	Rig Operation Start	Finish Drilling	Rig Release	Rig Off Location
PIONEER 54 / 54		02/06/2008	02/06/2008	02/07/2008	02/08/2008	02/15/2008	02/17/2008	02/17/2008
Date	Time Start-End	Duration (hr)	Phase	Code	Subcode	P/U	Operation	
2/12/2008								
SUPERVISOR: KENT MOORE								
	0:00 - 14:30	14.50	DRLPRO	02	D	P	DRILL/SLIDE F/5410' TO 6106' (696' @ 48fph) MW 9.8/42	
	14:30 - 15:00	0.50	DRLPRO	06	A	P	RIG SER	
	15:00 - 0:00	9.00	DRLPRO	02	D	P	DRILL/SLIDE F/6106' TO 6525' (419' @ 46.5fph) MW 9.8/42	
2/13/2008								
SUPERVISOR: KENT MOORE								
	0:00 - 13:00	13.00	DRLPRO	02	D	P	DRILL/SLIDE F/6525' TO 7118' (593' @ 45.6fph) MW 9.8/43	
	13:00 - 13:30	0.50	DRLPRO	06	A	P	RIG SER	
	13:30 - 0:00	10.50	DRLPRO	02	D	P	DRILL/SLIDE F/7118' TO 7650' (532' @ 50.7fph) MW 10.5/42	
2/14/2008								
SUPERVISOR: KENT MOORE								
	0:00 - 9:30	9.50	DRLPRO	02	D	P	DRILL/SLIDE F/7650 TO 7908' (258' @ 27.2fph) MW 10.7/43	
	9:30 - 13:30	4.00	DRLPRO	05	A	P	TFNB/MM - LDN DIRECTIONAL TOOLS	
	13:30 - 15:30	2.00	DRLPRO	05	A	P	P/UP BIT #2 - RIH TO 2100' - BRK CIRC	
	15:30 - 20:00	4.50	DRLPRO	07	A	P	REPLACE DRAWWORKS BRAKE BANDS	
	20:00 - 0:00	4.00	DRLPRO	05	A	P	RIH TO 6969'	
2/15/2008								
SUPERVISOR: KENT MOORE								
	0:00 - 0:30	0.50	DRLPRO	03	E	P	WASH F7867' TO 7908' - NO FILL	
	0:30 - 12:00	11.50	DRLPRO	02	B	P	DRLG F/7908' TO 8412' (504' @ 43.8fph) MW 11.2/44	
	12:00 - 13:30	1.50	DRLPRO	04	A	P	CIRC BTMS UP	
	13:30 - 18:00	4.50	DRLPRO	05	E	P	W/TRIP TO 2100' - CSG SHOE	
	18:00 - 19:30	1.50	DRLPRO	04	A	P	CIRC & COND	
	19:30 - 23:30	4.00	DRLPRO	05	B	P	POOH F/LOGS - LDN MM	
	23:30 - 0:00	0.50	DRLPRO	08	F	P	HPJSM - R/UP BAKER ATLAS	
2/16/2008								
SUPERVISOR: KENT MOORE								
	0:00 - 2:30	2.50	DRLPRO	08	F	P	R/UP BAKER ATLAS	
	2:30 - 8:30	6.00	DRLPRO	08	F	P	RUN QUAD COMBO TO LOGGERS TD @ 8123'	
	8:30 - 12:30	4.00	DRLPRO	05	F	P	M/UP BIT SUB/BIT - RIH TO 8375' - WASH 37' TO 8412' - NO FILL	
	12:30 - 14:00	1.50	DRLPRO	04	C	P	CIRC & COND - HPJSM, R/UP LDN MACHINE	
	14:00 - 20:30	6.50	DRLPRO	05	F	P	LDDP - RACK BHA & 10 STDS DP IN DERRICK	
	20:30 - 21:00	0.50	DRLPRO	13	B	P	RETRIEVE WEARBUSHING	
	21:00 - 0:00	3.00	DRLPRO	11	B	P	R/UP CASING CREW - RUN 199 JTS 4 1/2" PROD CASING	
2/17/2008								
SUPERVISOR: KENT MOORE								
	0:00 - 5:30	5.50	DRLPRO	11	B	P	RUN 199 JTS 4 1/2 CASING, SET @ 8412'	
	5:30 - 8:00	2.50	DRLPRO	04	E	P	CIRC & COND	
	8:00 - 11:30	3.50	DRLPRO	15	A	P	HPJSM - R/UP BJ - TEST LINES 4500 PSI - CMT 4 1/2 PROD CASING - 20 BBLs MUD CLEAN, 20 SKS SCAVENGER 9.5 PPG 8.45 YIELD, 291 SKS LEAD 11.0 PPG 3.38 YIELD, 1205 SKS LEAD 14.3 PPG 1.31 YIELD, DROPPED PLUG & DISPLACED W/130.2 BBLs CLAY TREAT WATER @ 2700 PSI - BUMPED PLUG @ 3228 PSI - FLOATS HELD W/1.5 BBL RETURNS - GOOD RETURNS DURING CMT JOB W/38 BBLs CEMENT TO SURFACE	

EVENT INFORMATION: EVENT ACTIVITY: DRILLING REASON:
 OBJECTIVE: DEVELOPMENT DATE WELL STARTED/RESUMED: .
 OBJECTIVE2: ORIGINAL Event End Status: COMPLETE

RIG OPERATIONS: Begin Mobilization Rig On Location Rig Charges Rig Operation Start Finish Drilling Rig Release Rig Off Location
 PIONEER 54 / 54 02/06/2008 02/06/2008 02/07/2008 02/08/2008 02/15/2008 02/17/2008 02/17/2008

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode	P/U	Operation
	11:30 - 16:00	4.50	DRLPRO	13	A	P	N/DN BOPE - SET SLIPS ON 4 1/2 CASING W/100K STRING WT - MAKE ROUGH CUT CSG & L/OUT SAME - CLEAN RIG TANKS - WINTERIZE RIG FOR MOVE - RELEASE RIG @ 16:00 HRS
	16:00 - 0:00	8.00	RDMO	01	E	P	2/17/08V - RESERVE PIT 2/3 FULL - LINER OK RDRT

WINS No.: 95387

NBU 1022-13L3S

Start Date: 4/24/2008

AFE No.: 2008159

Operation Summary Report

End Date:

Operator KERR-MCGEE OIL & GAS ONSHORE LP	FIELD NAME NATURAL BUTTES	SPUD DATE 10/26/07	GL 5,287	KB 5306	ROUTE
API 430439485	STATE UTAH	COUNTY UINTAH	DIVISION ROCKIES		
Lat./Long.: Lat./Long.: 39.94615 / -109.39272		Q-Q/Sect/Town/Range: / 13 / 10S / 22E	Footages: 1,638.00' FSL 1,370.00' FWL		
MTD 8289	TVD 8160	LOG MD 8,123.00	PBMD	PBTVD	

EVENT INFORMATION:	EVENT ACTIVITY: COMPLETION	REASON: MV - WHR PAD#2
	OBJECTIVE: DEVELOPMENT	DATE WELL STARTED/RESUMED:
	OBJECTIVE2: ORIGINAL	Event End Status:

RIG OPERATIONS:	Begin Mobilization	Rig On Location	Rig Charges	Rig Operation Start	Finish Drilling	Rig Release	Rig Off Location
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Date	Time Start-End	Duration (hr)	Phase	Code	Subcode	P/U	Operation
4/24/2008	SUPERVISOR: DOUG CHIVERS						
	7:00 - 7:30	0.50	COMP	48		P	HSM. FRACING & PERFORATING
	7:30 - 19:00	11.50	COMP	36	B	P	STG 1) RIH W/ 3 3/8" EXP GNS, 23 GRM, .36 HOLES, 90 & 120 & 180 DEG PHASING. PERFORATE 8,009' - 11' 4 SPF, 7,930' - 33' 4 SPF, 7,881' - 83' 2 SPF, 7,860' - 66' 3 SPF, 42 HLOES. POOH WHP 60 PSI, BRK 2,898 PSI @ 3.4 BPM, ISIP 2,522 PSI, FG .69. PUMP 100 BBLs @ 49.6 BPM @ 4,800 PSI = 30 OF 42 HOLES OPEN 72% MP 6,103 PSI, MR 49.8 BPM, AP 4,416 PSI, AR 49.6 BPM. ISIP 2,611 PSI, FG .77, NPI 89 PSI. PMP 1,904 BBLs OF SW & 58,514 LBS 30/50 SAND & 5,083 LBS OF 20/40 RESIN SAND. TOTAL PROP 63,597 LBS
							STG 2) RIH W/ 3 3/8" EXP GNS, 23 GRM, .36 HOLES, 90 DEG PHASING. PU 4 1/2" CBP @ SET @ 7,802' PERFORATE 7,767' - 72' 4 SPF, 7,752' - 54' 4 SPF, 7,724' - 26' 4 SPF, 7,702' - 04' 4 SPF, 4 SPF, 44 HOLES. POOH WHP 2,400 PSI, BRK 3,265 PSI @ 2.3 BPM, ISIP 2,655 PSI, FG .78. PUMP 100 BBLs @ 49.8 BPM @ 4,400 PSI = 36 OF 44 HOLES OPEN 82% MP 5,467 PSI, MR 50 BPM, AP 4,699 PSI, AR 49.8 BPM. ISIP 2,766 PSI, FG .80, NPI 111 PSI. PMP 654 BBLs OF SW & 15,131 LBS 30/50 SAND & 4,018 LBS OF 20/40 RESIN SAND. TOTAL PROP 19,149 LBS SWI SDFN
4/25/2008	SUPERVISOR: DOUG CHIVERS						
	7:00 - 7:30	0.50	COMP	48		P	HSM. FRACING & PERFORATING

EVENT INFORMATION:	EVENT ACTIVITY: COMPLETION	REASON: MV - WHR PAD#2
	OBJECTIVE: DEVELOPMENT	DATE WELL STARTED/RESUMED:
	OBJECTIVE2: ORIGINAL	Event End Status:
RIG OPERATIONS:	Begin Mobilization Rig On Location Rig Charges	Rig Operation Start Finish Drilling Rig Release Rig Off Location

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode	P/U	Operation
	7:30 - 19:00	11.50	COMP	36	B		<p>STG 3) RIH W/ 3 3/8" EXP GNS, 23 GRM, .36 HOLES, 90 & 120 DEG PHASING. PU 4 1/2" 8K BAKER CBP & SET @ 7,429' PERFORATE 7,396' - 99' 4 SPF, 7,319' - 22' 3 SPF, 7,246' - 50' 3 SPF, 7,207' - 10' 3 SPF, 42 HLOES. POOH WHP 2,100 PSI, BRK 2,600 PSI @ 4.6 BPM, ISIP 2,254 PSI, FG .75. PUMP 100 BBLS @ 50 BPM @ 4,500 PSI = 36 OF 42 HOLES OPEN 86% MP 4,954 PSI, MR 50.3 BPM, AP 3,826 PSI, AR 49.8 BPM. ISIP 2,195 PSI, FG .74, NPI-59 PSI. PMP 1,682 BBLS OF SW & 55,223 LBS 30/50 SAND & 5,172 LBS OF 20/40 RESIN SAND. TOTAL PROP 60,395 LBS</p> <p>STG 4) RIH W/ 3 3/8" EXP GNS, 23 GRM, .36 HOLES, 120 DEG PHASING. PU 4 1/2" 8K BAKER CBP & SET @ 7,136' PERFORATE 7,102' - 06' 3 SPF, 7,070' - 80' 3 SPF, 42 HLOES. POOH WHP 2,060 PSI, BRK 3,039 PSI @ 3.1 BPM, ISIP 2,074 PSI, FG .73. PUMP 100 BBLS @ 51.8 BPM @ 4,700 PSI = 32 OF 42 HOLES OPEN 75% MP 5,062 PSI, MR 51.8 BPM, AP 4,256 PSI, AR 51.7 BPM. ISIP 2,449 PSI, FG .79, NPI 375 PSI. PMP 1,215 BBLS OF SW & 37,158 LBS 30/50 SAND & 5,427 LBS OF 20/40 RESIN SAND. TOTAL PROP 42,585 LBS</p> <p>STG 5) RIH W/ 3 3/8" EXP GNS, 23 GRM, .36 HOLES, 120 DEG PHASING. PU 4 1/2" 8K BAKER CBP & SET @ 6,986' PERFORATE 6,942' - 56' 3 SPF, 42 HLOES. POOH WHP 1740# PSI, BRK 3558# PSI @ 3.4 BPM, ISIP 1860 PSI, FG .71. PUMP 100 BBLS @ 50 BPM @ 4,100 PSI = 37 OF 42 HOLES OPEN 87% MP 5420 PSI, MR 50.2 BPM, AP 3961 PSI, AR 50 BPM. ISIP 2587# PSI, FG .81, NPI 727 PSI. PMP 2,173 BBLS OF SW & 74,921# LBS 30/50 SAND & 5,000 LBS OF 20/40 RESIN SAND. TOTAL PROP 79,921# LBS</p> <p>STG 6: P/U 3 3/8" PERF GUNS & 4 1/2" BAKER COMPOSIT FRAC PLUG FLOW THROUGH & RIH. SET CFP @ 6408', P/U SHOOT 40 HOLES F/ 6368' - 78'. POOH BRK DWN PERF'S @ 2063#, EST INJ RT @ 50.8 BPM @ 4550#, ISIP 2179#, FG .78, TREAT STG 6 W/ 22,619# SAND TAILED IN W/ 5000# TLC SAND W/ SLK WTR. TOT CL FL 710 BBLS. ISIP 2069#, NPI -110#, FG .76</p> <p>P/U 4 1/2" CFP & RIH. SET KILL PLUG @ 6000'. POOH.</p> <p>PUMP UP TO 4,500 PSI CONVERT CBP. WELL COMPLETED</p>

5/1/2008
 SUPERVISOR: MARK BONNIE
 13:00 - PROD WELL TURNED TO SALES @ 1300 HR ON 5/01/2008 - FCP 1500#, TP N/A, 20/64" CK, 405 MCFD, 960 BWPD

5/2/2008
 SUPERVISOR: MARK BONNIE
 7:00 - 33 A 7 AM REPORT: CP 1150#, TP 0#, 20/64" CK, 32 BWPH, NO SAND, 800 MCFD
 TTL BBLS RECOVERED: 1761
 BBLS LEFT TO RECOVER: 6577

5/3/2008
 SUPERVISOR: MARK BONNIE

EVENT INFORMATION: EVENT ACTIVITY: COMPLETION
 OBJECTIVE: DEVELOPMENT
 OBJECTIVE2: ORIGINAL

REASON: MV - WHR PAD#2
 DATE WELL STARTED/RESUMED: 1
 Event End Status:

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

Date	Time Start-End	Duration (hr)	Phase	Code	Subco de	P/U	Operation
	7:00 -			33	A		7 AM REPORT: CP 1400#, TP 0#, 20/64" CK, 22 BWPH, TRACE SAND, 1800 MCFD TTL BBLs RECOVERED: 2671 BBLs LEFT TO RECOVER: 5667
5/4/2008							
							SUPERVISOR: MARK BONNIE
	7:00 -			33	A		7 AM REPORT: CP 1425#, TP 0#, 20/64" CK, 20 BWPH, TRACE SAND, 1500 MCFD TTL BBLs RECOVERED: 2991 BBLs LEFT TO RECOVER: 5347
5/5/2008							
							SUPERVISOR: MARK BONNIE
	7:00 -			33	A		7 AM REPORT: CP 1425#, TP 0#, 20/64" CK, 19 BWPH, TRACE SAND, 1600 MCFD TTL BBLs RECOVERED: 3447 BBLs LEFT TO RECOVER: 4891

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

AMENDED REPORT FORM 8
(highlight changes)

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. LEASE DESIGNATION AND SERIAL NUMBER: STUO-08512-ST	
6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
7. UNIT or CA AGREEMENT NAME UNIT #891008900A	
8. WELL NAME and NUMBER: NBU 1022-13L3S	
9. API NUMBER: 4304739485	
10. FIELD AND POOL, OR WILDCAT NATURAL BUTTES	11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NESW 13 10S 22E
12. COUNTY UINTAH	13. STATE UTAH

1a. TYPE OF WELL: OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> DRY <input type="checkbox"/> OTHER _____	15. DATE T.D. REACHED: 2/16/2008	16. DATE COMPLETED: 5/1/2008	17. ELEVATIONS (DF, RKB, RT, GL): 5287'GL
b. TYPE OF WORK: NEW WELL <input checked="" type="checkbox"/> HORIZ. LATS. <input type="checkbox"/> DEEP-EN <input type="checkbox"/> RE-ENTRY <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> OTHER _____	18. TOTAL DEPTH: MD 8,412 TVD 8,283		20. IF MULTIPLE COMPLETIONS, HOW MANY? *
2. NAME OF OPERATOR: KERR MCGEE OIL & GAS ONSHORE LP		19. PLUG BACK T.D.: MD 8,367 TVD 8,238	
3. ADDRESS OF OPERATOR: 1368 S 1200 E CITY VERNAL STATE UT ZIP 84078		PHONE NUMBER: (435) 781-7024	
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: 1624'FSL, 1356'FWL		21. DEPTH BRIDGE MD PLUG SET: TVD	
AT TOP PRODUCING INTERVAL REPORTED BELOW:		23. WAS WELL CORED? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> (Submit analysis)	
AT TOTAL DEPTH: 1622 538 1665'FSL, 590'FWL (NW/SW)		WAS DST RUN? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> (Submit report)	
22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each) CBL-CCL-GR		DIRECTIONAL SURVEY? NO <input type="checkbox"/> YES <input checked="" type="checkbox"/> (Submit copy)	

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

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
20"	14" STL	36.7#		40		28			
12 1/4"	9 5/8 J-55	32.3# 36#		2,140		600			
7 7/8"	4 1/2 I-80	11.6#		8,412		1496			

25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 3/8"	7,843							

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) MESAVERDE	6,368	8,011			6,368 8,011	0.36	252	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
(B) WSMVD								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
6368'-8011'	PMP 8338 BBLs SLICK H2O & 288,266# 30/50 SD

29. ENCLOSED ATTACHMENTS: <input type="checkbox"/> ELECTRICAL/MECHANICAL LOGS <input type="checkbox"/> SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION	<input type="checkbox"/> GEOLOGIC REPORT <input type="checkbox"/> CORE ANALYSIS	<input type="checkbox"/> DST REPORT <input type="checkbox"/> OTHER: RECEIVED	<input type="checkbox"/> DIRECTIONAL SURVEY <input checked="" type="checkbox"/> PROD
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31. INITIAL PRODUCTION

INTERVAL A (As shown in item #26)

DATE FIRST PRODUCED: 5/1/2008		TEST DATE: 5/7/2008		HOURS TESTED: 24		TEST PRODUCTION RATES: →	OIL – BBL: 0	GAS – MCF: 1,808	WATER – BBL: 360	PROD. METHOD: FLOWING
CHOKE SIZE: 17/64	TBG. PRESS. 0	CSG. PRESS. 1,187	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL: 0	GAS – MCF: 1,808	WATER – BBL: 360	INTERVAL STATUS: PROD

INTERVAL B (As shown in item #26)

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

INTERVAL C (As shown in item #26)

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

INTERVAL D (As shown in item #26)

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

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

SOLD

33. SUMMARY OF POROUS ZONES (Include Aquifers):

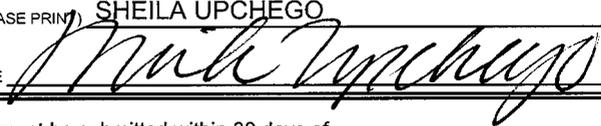
Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
WASATCH MESAVERDE	4,091 6,341	6,341			

35. ADDITIONAL REMARKS (Include plugging procedure)

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

NAME (PLEASE PRINT) SHEILA UPCHEGO TITLE SENIOR LAND ADMIN SPECIALIST
 SIGNATURE  DATE 6/2/2008

This report must be submitted within 30 days of

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

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

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

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

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



Job Number: 083217505099
 Company: Kerr McGee Oil & Gas (Anadarko)
 Lease/Well: NBU 1022-13ML3S
 Location: Uintah County, Utah
 Rig Name: Delsco Northwest
 RKB:
 G.L. or M.S.L.:

State/Country: Utah/USA
 Declination: 11.00°
 Grid: East To Grid
 File name: F:\SURVEY\2008SU~1\KERRMC~1\NBU3ML3S.S'
 Date/Time: 06-Mar-08 / 11:53
 Curve Name: 7600' - 8289' M.D. (gyroscopic)

WINSERVE SURVEY CALCULATIONS

Minimum Curvature Method

Vertical Section Plane 223.30

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

Rectangular Coordinates Referenced to Wellhead

Measured	Incl	Drift	TRUE			Vertical	CLOSURE	CLOSURE	Dogleg
Depth	Angle	Direction	Vertical	N-S	E-W	Section	Distance	Direction	Severity
FT	Deg	Deg	Depth	FT	FT	FT	FT	Deg	Deg/100
7508	1.38	178.82	7379.35	9.04	-816.08	553.1	816.13	270.63	0
7600	2	191.29	7471.31	6.36	-816.37	555.26	816.4	270.45	0.78
7700	2.25	190.3	7571.24	2.72	-817.06	558.38	817.07	270.19	0.25
7800	2	187.45	7671.17	-0.95	-817.64	561.44	817.64	269.93	0.27
7900	2.5	188.72	7771.09	-4.83	-818.2	564.65	818.21	269.66	0.5
8000	2.25	176	7871.01	-8.95	-818.39	567.78	818.44	269.37	0.58
8100	2.5	173.28	7970.92	-13.07	-818	570.51	818.1	269.08	0.27
8200	2.5	173.55	8070.83	-17.4	-817.5	573.32	817.68	268.78	0.01
8289	2.5	166.82	8159.74	-21.22	-816.84	575.65	817.11	268.51	0.33

VY

[Comment:]

MWD Tie-In Information Provided By Operator



Weatherford™

Drilling Services

COMPLETION

ANADARKO KERR-MCGEE

NBU 1022-13L3S

UINTAH COUNTY, UT

WELL FILE:PLAN 3

FEBRUARY 15, 2008

Weatherford International Ltd.
15710 John F. Kennedy Blvd, Suite 700
Houston, Texas 77032 USA
+1.281.260.1300 Main
+1.281.260.4730 Fax
www.weatherford.com

SECTION DETAILS

There are no section details

Survey: Survey #2 (13L3S/1)

No	MD	Inc	Az	TVD	+N/-S	+E/-W	DLeg	TFace	VSec
83	7908.00	2.13	186.44	7779.17	-2.42	-817.58	0.00	0.00	817.19

WELL DETAILS

Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
13L3S	0.00	0.00	14510468.20	2091011.90	39°56'45.872N	109°23'32.524W	N/A

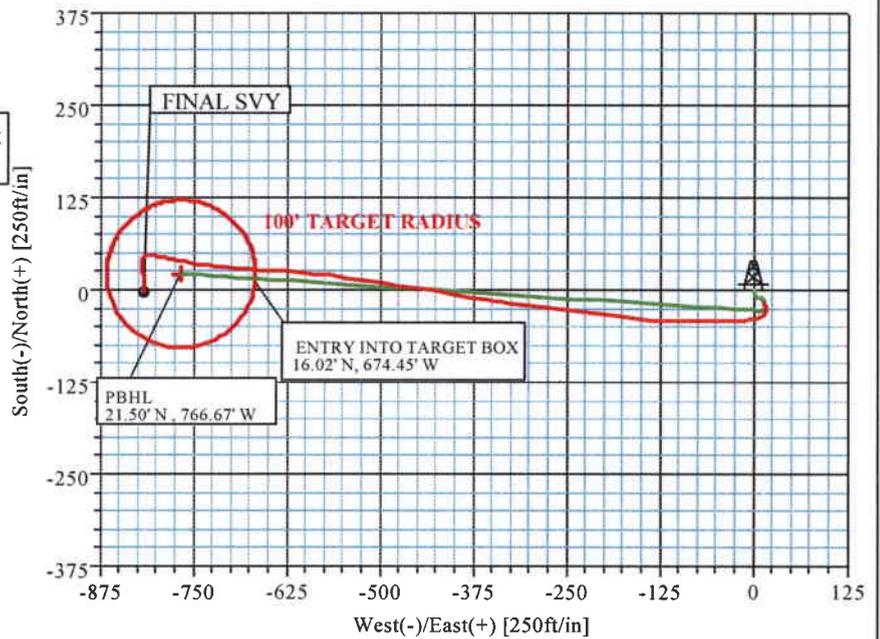
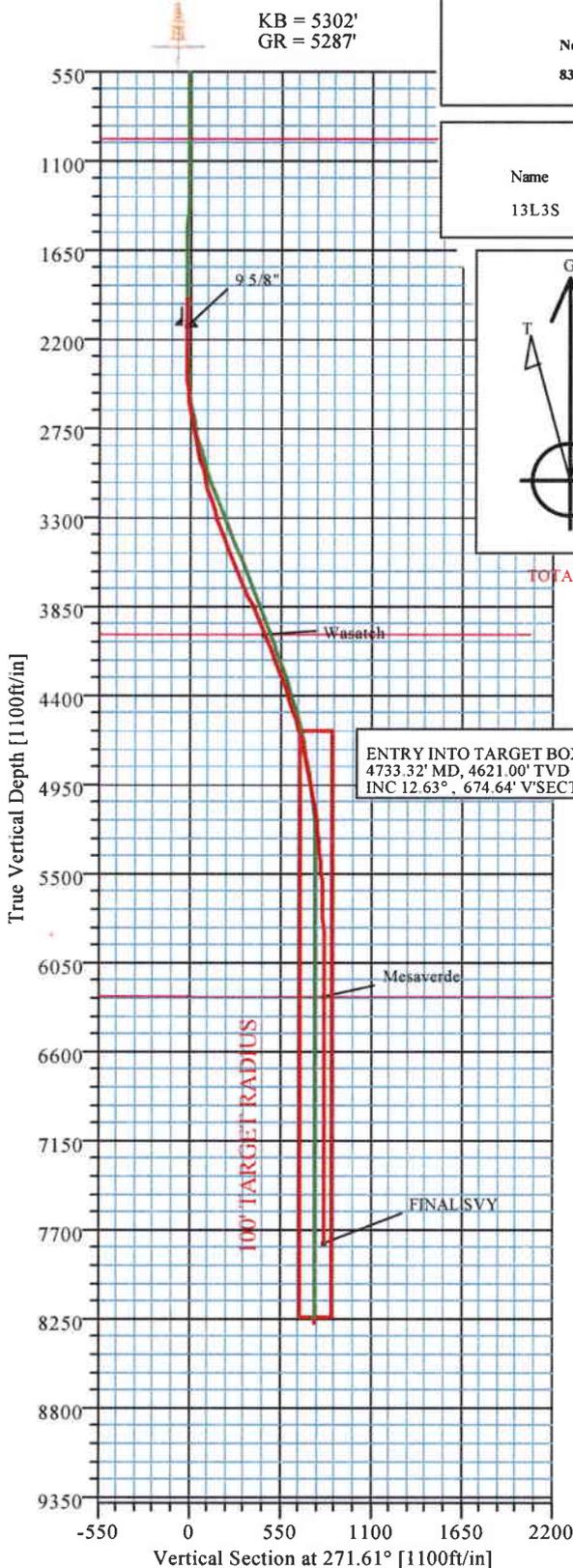
FIELD DETAILS

UINTAH COUNTY, UTAH (UTM Zone 12N-NAD 27)
Geodetic System: Universal Transverse Mercator (USfeet)
Ellipsoid: NAD27 (Clarke 1866)
Zone: UTM Zone 12, North 114W to 108W
Magnetic Model: bggm2007
System Datum: Mean Sea Level
Local North: Grid North



Azimuths to Grid North
True North: -1.03°
Magnetic North: 10.51°
Magnetic Field
Strength: 52740nT
Dip Angle: 65.95°
Date: 7/30/2007
Model: bggm2007

TOTAL CORRECTION TO GRID NORTH: 10.52°



LEGEND

-  13L3S,1,Plan #3
-  1
-  Survey #2

Survey: Survey #2 (13L3S/1)

Created By: Tracy Williams

Date: 2/15/2008



Survey Report

Company: Anadarko-Kerr-McGee	Date: 2/15/2008	Time: 08:06:34	Page: 1
Field: UINTAH COUNTY, UTAH (UTM Zone 12N-NAD 27)	Co-ordinate(NE) Reference: Site: NBU 1022-13L3S, Grid North		
Site: NBU 1022-13L3S	Vertical (TVD) Reference: SITE 5302.0		
Well: 13L3S	Section (VS) Reference: Well (0.00N,0.00E,271.61Azi)		
Wellpath: 1	Survey Calculation Method: Minimum Curvature	Db: Sybase	

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

Map System: Universal Transverse Mercator (USfeet)	Map Zone: UTM Zone 12, North 114W to 108W
Geo Datum: NAD27 (Clarke 1866)	Coordinate System: Site Centre
Sys Datum: Mean Sea Level	Geomagnetic Model: bggm2007

Site: NBU 1022-13L3S

Site Position:	Northing: 14510468.20 ft	Latitude: 39 56 45.872 N
From: Map	Easting: 2091011.90 ft	Longitude: 109 23 32.524 W
Position Uncertainty: 0.00 ft		North Reference: Grid
Ground Level: 5287.00 ft		Grid Convergence: 1.03 deg

Well: 13L3S

Slot Name:

Well Position: +N/-S 0.00 ft	Northing: 14510468.20 ft	Latitude: 39 56 45.872 N
+E/-W 0.00 ft	Easting: 2091011.90 ft	Longitude: 109 23 32.524 W
Position Uncertainty: 0.00 ft		

Wellpath: 1

Current Datum: SITE	Height 5302.00 ft	Drilled From: Surface
Magnetic Data: 7/30/2007		Tie-on Depth: 0.00 ft
Field Strength: 52740 nT		Above System Datum: Mean Sea Level
Vertical Section: Depth From (TVD)		Declination: 11.54 deg
ft	+N/-S ft	Mag Dip Angle: 65.95 deg
		+E/-W ft
		Direction deg

0.00	0.00	0.00	271.61
------	------	------	--------

Survey: Survey #2

Start Date: 2/15/2008

Company: Weatherford International, Ltd
Tool: MWD;MWD - Standard

Engineer: Tracy Williams
Tied-to: From: Definitive Path

Survey: Survey #2

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
1948.00	1.50	170.36	1947.81	-18.03	14.96	-15.46	0.00	0.00	0.00	MWD
2134.00	1.81	164.44	2133.73	-23.26	16.16	-16.80	0.19	0.17	-3.18	MWD
2197.00	1.69	164.19	2196.70	-25.11	16.68	-17.37	0.19	-0.19	-0.40	MWD
2260.00	1.13	141.82	2259.68	-26.49	17.31	-18.05	1.23	-0.89	-35.51	MWD
2323.00	1.44	185.82	2322.67	-27.77	17.62	-18.39	1.59	0.49	69.84	MWD
2387.00	2.88	214.32	2386.62	-29.90	16.63	-17.46	2.74	2.25	44.53	MWD
2450.00	4.06	225.07	2449.51	-32.78	14.16	-15.07	2.13	1.87	17.06	MWD
2513.00	5.38	240.19	2512.29	-35.82	10.02	-11.02	2.86	2.10	24.00	MWD
2576.00	6.63	248.57	2574.95	-38.62	4.07	-5.15	2.42	1.98	13.30	MWD
2640.00	7.19	266.94	2638.49	-40.19	-3.37	2.24	3.55	0.87	28.70	MWD
2703.00	10.13	268.32	2700.77	-40.56	-12.85	11.71	4.68	4.67	2.19	MWD
2766.00	12.81	269.32	2762.50	-40.80	-25.37	24.22	4.27	4.25	1.59	MWD
2829.00	13.00	268.69	2823.91	-41.05	-39.44	38.27	0.38	0.30	-1.00	MWD
2893.00	13.88	266.32	2886.16	-41.71	-54.30	53.11	1.62	1.37	-3.70	MWD
2956.00	13.69	268.82	2947.34	-42.34	-69.29	68.08	0.99	-0.30	3.97	MWD
3019.00	13.25	269.07	3008.61	-42.62	-83.96	82.74	0.70	-0.70	0.40	MWD
3083.00	14.31	270.32	3070.77	-42.69	-99.21	97.97	1.72	1.66	1.95	MWD
3146.00	15.88	270.82	3131.59	-42.52	-115.61	114.38	2.50	2.49	0.79	MWD
3209.00	17.19	274.44	3191.99	-41.68	-133.51	132.29	2.64	2.08	5.75	MWD
3272.00	16.88	278.07	3252.23	-39.67	-151.85	150.68	1.76	-0.49	5.76	MWD
3335.00	18.00	280.40	3312.33	-36.63	-170.48	169.39	2.09	1.78	3.70	MWD
3398.00	18.56	279.07	3372.15	-33.30	-189.96	188.95	1.11	0.89	-2.11	MWD
3462.00	20.19	277.94	3432.52	-30.16	-210.96	210.03	2.61	2.55	-1.77	MWD
3525.00	21.00	274.94	3491.50	-27.69	-232.97	232.10	2.11	1.29	-4.76	MWD



Weatherford International, Ltd.



Weatherford

Survey Report

Company: Anadarko-Kerr-McGee	Date: 2/15/2008	Time: 08:06:34	Page: 2
Field: UINTAH COUNTY, UTAH (UTM Zone 12N-NAD 27)	Co-ordinate(NE) Reference: Site: NBU 1022-13L3S, Grid North		
Site: NBU 1022-13L3S	Vertical (TVD) Reference: SITE 5302.0		
Well: 13L3S	Section (VS) Reference: Well (0.00N,0.00E,271.61Azi)		
Wellpath: 1	Survey Calculation Method: Minimum Curvature		Db: Sybase

Survey: Survey #2

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
3588.00	20.56	272.94	3550.40	-26.15	-255.27	254.43	1.33	-0.70	-3.17	MWD
3652.00	20.19	274.69	3610.40	-24.67	-277.50	276.70	1.11	-0.58	2.73	MWD
3715.00	24.63	278.07	3668.63	-21.94	-301.34	300.61	7.34	7.05	5.37	MWD
3778.00	25.31	278.82	3725.74	-18.03	-327.65	327.02	1.19	1.08	1.19	MWD
3841.00	25.19	279.32	3782.72	-13.79	-354.19	353.66	0.39	-0.19	0.79	MWD
3904.00	24.13	279.57	3839.97	-9.48	-380.12	379.70	1.69	-1.68	0.40	MWD
3967.00	23.38	279.69	3897.63	-5.24	-405.14	404.83	1.19	-1.19	0.19	MWD
4030.00	22.88	279.94	3955.57	-1.02	-429.52	429.32	0.81	-0.79	0.40	MWD
4093.00	21.25	279.04	4013.95	2.89	-452.86	452.76	2.64	-2.59	-1.43	MWD
4157.00	21.88	278.32	4073.47	6.44	-476.12	476.11	1.07	0.98	-1.12	MWD
4220.00	22.06	278.32	4131.90	9.85	-499.44	499.52	0.29	0.29	0.00	MWD
4283.00	21.75	279.32	4190.35	13.45	-522.66	522.83	0.77	-0.49	1.59	MWD
4346.00	20.69	278.07	4249.08	16.90	-545.20	545.46	1.83	-1.68	-1.98	MWD
4409.00	19.06	277.07	4308.32	19.73	-566.43	566.76	2.64	-2.59	-1.59	MWD
4473.00	17.94	275.32	4369.02	21.93	-586.61	587.00	1.95	-1.75	-2.73	MWD
4536.00	17.25	275.07	4429.07	23.66	-605.58	606.01	1.10	-1.10	-0.40	MWD
4599.00	17.25	273.94	4489.24	25.13	-624.20	624.66	0.53	0.00	-1.79	MWD
4662.00	17.00	274.19	4549.44	26.44	-642.71	643.20	0.41	-0.40	0.40	MWD
4725.00	15.56	271.49	4609.92	27.33	-660.34	660.85	2.58	-2.29	-4.29	MWD
4788.00	14.44	272.19	4670.77	27.85	-676.64	677.15	1.80	-1.78	1.11	MWD
4852.00	13.38	274.44	4732.89	28.73	-692.00	692.53	1.86	-1.66	3.52	MWD
4915.00	12.25	276.69	4794.32	30.07	-705.90	706.47	1.96	-1.79	3.57	MWD
4979.00	11.81	275.82	4856.92	31.53	-719.16	719.76	0.74	-0.69	-1.36	MWD
5042.00	10.88	278.94	4918.68	33.11	-731.45	732.09	1.77	-1.48	4.95	MWD
5105.00	9.81	280.07	4980.66	34.97	-742.61	743.29	1.73	-1.70	1.79	MWD
5168.00	9.19	282.19	5042.80	36.97	-752.81	753.55	1.13	-0.98	3.37	MWD
5232.00	8.19	278.69	5106.06	38.74	-762.31	763.10	1.77	-1.56	-5.47	MWD
5295.00	6.94	277.44	5168.51	39.91	-770.52	771.34	2.00	-1.98	-1.98	MWD
5358.00	5.69	281.57	5231.13	41.03	-777.35	778.20	2.11	-1.98	6.56	MWD
5421.00	5.38	283.07	5293.83	42.32	-783.29	784.17	0.54	-0.49	2.38	MWD
5484.00	4.56	283.22	5356.60	43.56	-788.61	789.52	1.30	-1.30	0.24	MWD
5548.00	4.31	281.82	5420.40	44.64	-793.44	794.38	0.43	-0.39	-2.19	MWD
5611.00	3.56	275.57	5483.26	45.31	-797.70	798.66	1.37	-1.19	-9.92	MWD
5674.00	3.06	273.32	5546.15	45.60	-801.33	802.29	0.82	-0.79	-3.57	MWD
5737.00	3.00	271.44	5609.06	45.74	-804.65	805.62	0.18	-0.10	-2.98	MWD
5801.00	2.06	270.07	5673.00	45.78	-807.48	808.44	1.47	-1.47	-2.14	MWD
5895.00	1.81	274.57	5766.95	45.90	-810.65	811.61	0.31	-0.27	4.79	MWD
5990.00	1.75	256.94	5861.90	45.69	-813.56	814.52	0.58	-0.06	-18.56	MWD
6085.00	1.06	246.69	5956.87	45.02	-815.78	816.72	0.77	-0.73	-10.79	MWD
6180.00	1.25	224.94	6051.85	43.94	-817.31	818.22	0.50	0.20	-22.89	MWD
6275.00	0.88	227.32	6146.84	42.71	-818.58	819.46	0.39	-0.39	2.51	MWD
6370.00	1.06	188.94	6241.82	41.35	-819.26	820.09	0.69	0.19	-40.40	MWD
6465.00	1.44	188.57	6336.80	39.30	-819.57	820.35	0.40	0.40	-0.39	MWD
6560.00	1.38	169.07	6431.77	36.99	-819.53	820.25	0.51	-0.06	-20.53	MWD
6655.00	1.81	175.44	6526.74	34.38	-819.19	819.84	0.49	0.45	6.71	MWD
6749.00	1.75	171.69	6620.69	31.48	-818.87	819.43	0.14	-0.06	-3.99	MWD
6844.00	1.25	171.44	6715.66	29.02	-818.51	819.00	0.53	-0.53	-0.26	MWD
6939.00	1.69	175.07	6810.63	26.59	-818.23	818.65	0.47	0.46	3.82	MWD
7034.00	1.94	168.07	6905.58	23.63	-817.78	818.12	0.35	0.26	-7.37	MWD
7129.00	1.69	160.57	7000.53	20.73	-816.98	817.24	0.36	-0.26	-7.89	MWD
7223.00	2.00	180.69	7094.48	17.78	-816.54	816.72	0.76	0.33	21.40	MWD
7318.00	1.94	177.32	7189.43	14.52	-816.48	816.57	0.14	-0.06	-3.55	MWD
7413.00	1.69	173.82	7284.38	11.52	-816.26	816.26	0.29	-0.26	-3.68	MWD



Weatherford International, Ltd.



Survey Report

Weatherford

Company: Anadarko-Kerr-McGee	Date: 2/15/2008	Time: 08:06:34	Page: 3
Field: Uintah County, Utah (UTM Zone 12N-NAD 27)	Co-ordinate(NE) Reference:	Site: NBU 1022-13L3S, Grid North	
Site: NBU 1022-13L3S	Vertical (TVD) Reference:	SITE: 5302.0	
Well: 13L3S	Section (VS) Reference:	Well: (0.00N,0.00E,271.61Azi)	
Wellpath: 1	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Survey: Survey #2

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
7508.00	1.38	178.82	7379.34	8.99	-816.08	816.01	0.36	-0.33	5.26	MWD
7603.00	1.56	202.32	7474.31	6.65	-816.55	816.42	0.66	0.19	24.74	MWD
7698.00	1.50	194.44	7569.28	4.24	-817.35	817.15	0.23	-0.06	-8.29	MWD
7793.00	1.75	169.69	7664.24	1.61	-817.40	817.13	0.78	0.26	-26.05	MWD
7856.00	2.13	186.44	7727.21	-0.50	-817.36	817.03	1.08	0.60	26.59	MWD
7908.00	2.13	186.44	7779.17	-2.42	-817.58	817.19	0.00	0.00	0.00	MWD

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: STUO-08512-ST
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: 7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: NBU 1022-13L3S
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047394850000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6007 Ext
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1624 FSL 1356 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NESW Section: 13 Township: 10.0S Range: 22.0E Meridian: S	9. FIELD and POOL or WILDCAT: NATURAL BUTTES COUNTY: UINTAH STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 11/5/2009	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input checked="" type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: _____

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

THIS WELL RETURNED TO PRODUCTION ON 11/05/2009.

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

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

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS	
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	
1. TYPE OF WELL Gas Well	5. LEASE DESIGNATION AND SERIAL NUMBER: STUO-08512-ST
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
PHONE NUMBER: 720 929-6511	8. WELL NAME and NUMBER: NBU 1022-13L3S
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1624 FSL 1356 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NESW Section: 13 Township: 10.0S Range: 22.0E Meridian: S	9. API NUMBER: 43047394850000
	9. FIELD and POOL or WILDCAT: NATURAL BUTTES
	COUNTY: UINTAH
	STATE: UTAH

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

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

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

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

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

Date: March 29, 2012

By: *D. K. Duff*

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

Greater Natural Buttes Unit



NBU 1022-13L3S
RE-COMPLETIONS PROCEDURE

DATE:3/12/2012
AFE#:
API#:4304739485
USER ID:WIU473 (Frac Invoices Only)

COMPLETIONS ENGINEER: RACHAEL HILL, Denver, CO
(720)-929-6599(Office)
(303)-907-9167 (Cell)

SIGNATURE:

ENGINEERING MANAGER: JEFF DUFRESNE

SIGNATURE:

REMEMBER SAFETY FIRST!

Name: NBU 1022-13L3S
Location: SW NW SW SEC 13 T10S R22E
LAT: 39.946108 **LONG: -109.392772** **COORDINATE: NAD83 (Surface)**
Uintah County, UT
Date: 3/12/2012

ELEVATIONS: 5287' GL 5306' KB *Frac Registry TVD: 8283*

TOTAL DEPTH: 8412' **PBTD:** 8367'
SURFACE CASING: 9 5/8", 36# J-55 LT&C @ 2120'
PRODUCTION CASING: 4 1/2", 11.6#, I-80 LT&C @ 8412'
Marker Joint **4113-4134'**

TUBULAR PROPERTIES:

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

TOPS:

1037' Green River Top
1280' Bird's Nest Top
1675' Mahogany Top
4091' Wasatch Top
6320' Mesaverde Top

BOTTOMS:

6320' Wasatch Bottom
8412' Mesaverde Bottom (TD)

T.O.C. @ 940' & HYDRAULIC ISOLATION @ 1630' from Cutters CBL 3/19/2008

GENERAL:

- A minimum of **7** tanks (cleaned lined 500 bbl) of recycled water will be required. Note: Use biocide in tanks and the water needs to be at least 45°F at pump time.
- All perforation depths are from Bakers Induction-Density-Neutron log dated 2/16/2008
- **3** fracturing stages required for coverage.
- Procedure calls for **4** CBP's (**8000** psi) .
- Calculate open perforations after each breakdown. If less than 60% of the perforations appear to be open, ball out with 15% HCl.
- Pump scale inhibitor at 3 gpt (in pad and until 1.25 ppg ramp up is reached) and 10 gpt in all flushes except the final stage. Remember to pre-load the casing with scale inhibitor for the very first stage with 10 gpt.
- 30/50 mesh Ottawa sand, **Slickwater frac.**
- Maximum surface pressure **6200** psi.
- Flush volumes are the sum of slick water and acid used during displacement (include scale inhibitor as mentioned above). Stage acid and scale inhibitor if necessary to cover the next perforated interval.

- **Call flush at 0 PPG @ inline densiometers. Slow to 5 bbl/min over last 10-20 bbls of flush. Flush to top perf.**
- **If distance between plug and top perf of previous stage is less than 50', it is considered to be tight spacing - over flush stage by 5 bbls (from top perf)**
- Tubing Currently Landed @~7843
- Originally completed on 4/24/2008

Existing Perforations:

<u>PERFORATIONS</u>						
<u>Formation</u>	<u>Zone</u>	<u>Top</u>	<u>Btm</u>	<u>spf</u>	<u>Shots</u>	<u>Date</u>
MESA VERDE		6368	6378	4	40	04/24/2008
MESA VERDE		6942	6956	3	42	04/24/2008
MESA VERDE		7070	7080	3	30	04/24/2008
MESA VERDE		7102	7106	3	12	04/24/2008
MESA VERDE		7207	7210	3	9	04/24/2008
MESA VERDE		7246	7250	3	12	04/24/2008
MESA VERDE		7319	7322	3	9	04/24/2008
MESA VERDE		7396	7399	4	12	04/24/2008
MESA VERDE		7702	7704	4	8	04/24/2008
MESA VERDE		7724	7726	4	8	04/24/2008
MESA VERDE		7752	7754	4	8	04/24/2008
MESA VERDE		7767	7772	4	20	04/24/2008
MESA VERDE		7860	7866	3	18	04/24/2008
MESA VERDE		7881	7883	2	4	04/24/2008
MESA VERDE		7930	7933	4	12	04/24/2008
MESA VERDE		8009	8011	4	8	04/24/2008

Relevant History:

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode	P/U	Operation
3/15/2011	<u>SUPERVISOR:</u> 7:00 -	JAY AGUINIGA	PROD	35	G	P	<u>DWC:</u> \$520.00 <u>CWC:</u> \$520.00 <u>MD:</u> Travel to location rig up went in with jdc stacked out at 7824 beat down latch on plunger came out had a sand plunger went back in latch on spring hit oil jars 6 times broke loose came out had a standing valve put on bailer run T.D stacked out at 8096 beat down came out bailer had some sand scratch and brouch tubing had some scale and sand came out 1.90 brouch was clean plunger was good standing valve was good drop standing valve and sand plunger chase to bottom came out rig down travel to next location. FLUID LEVEL7600SEAT NIPPLE DEPTH7824 SN TYPEXTD (Max Depth)8096 JOB DETAILS SPRING AND/OR PRODUCTION TOOL DETAIL Spring OutNoneSpring InNone Stuck SpringYes, stuck but able to latch onCorrosion on SpringNo Bailed AcidNo Broken SpringNoScale on SpringNo Production ToolsNoneDepth of Tool Other HardwareStanding Valve PLUNGER DETAIL Stuck PlungerYes, stuck but able to latch onCorrosion on PlungerNo Broken PlungerNoScale on PlungerNo SOLIDS DETAIL Tight SpotsNoneSeverity of TrashLight Solid sample to turn inYesSolid Sample SourceTubing Speculated Type of SolidSandSpeculated Depth of Solid LOST SLICKLINE TOOLS Slickline Tools LostNoDepth of Tool

H2S History:

NBU 1022-13L3S			
		Max(Sepa rator H2S (ppm))	Max(Tank H2S (ppm))
2009	Mar	80	0
2009	Apr	84	0
2009	May	23	12
2009	Jun	10	0
2009	Jul	49	0
2009	Aug	35	0
2009	Sep	122	0
2009	Nov	20	0
2009	Dec	20	0
2010	Jan	0	0
2010	Feb	38	0
2010	Mar	30	0
2010	Apr	40	0
2010	May	60	0
2010	Jun	40	0
2010	Jul	15	0
2010	Aug	0	0
2010	Oct	30	0
2010	Dec	235	0
2011	Jan	83	0
2011	Mar	67	0
2011	Apr	52	0
2011	May	50	0
2011	Jun	53	0
2011	Jul	50	0
2011	Aug	57	0
2011	Sep	57	0
2011	Oct	91	0
2011	Nov	77	0
2011	Dec	116	0
2012	Jan	109	0
2012	Feb	121	0

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. TOOH with 2-3/8", 4.7#, J-55 (or N-80) tubing (currently landed at ~7843'). Visually inspect for scale and consider replacing if needed.
3. If tbg looks ok consider running a gauge ring to 6067 (50' below proposed CBP). Otherwise P/U a mill and C/O to 6067 (50' below proposed CBP).
4. Set 8000 psi CBP at ~ 6017'. ND BOPs and NU frac valves. Test frac valves and casing to 1000 and 3500 psi for 15 minutes each and to 6200 psi for 30 minutes. As per standard operating procedure install steel blowdown line to reserve pit from 4-1/2" X 9-5/8" annulus with pressure relief valve in line. Pressure relief will be set to release at 500 psig. Lock **OPEN** the Braden head valve. Annulus will be monitored throughout stimulation. If release occurs, stimulation will be shut down. Well conditions will be assessed and actions taken as necessary to secure the well. UDOGM will be notified if a release to the annulus occurs.
5. Perf the following with 3-3/8" gun, 23 gm, 0.36"hole:

Zone	From	To	spf	# of shots
WASATCH	5863	5867	4	16
WASATCH	5965	5967	4	8
6. Breakdown perfs and establish injection rate (include scale inhibitor in fluid). Spot 250 gals of 15% HCL and let soak 5-10 min. Fracture as outlined in Stage 1 on attached listing. Under-displace to ~5863' and trickle 250gal 15%HCL w/ scale inhibitor in flush .
7. Set 8000 psi CBP at ~5684'. Perf the following 3-3/8" gun, 23 gm, 0.36"hole:

Zone	From	To	spf	# of shots
WASATCH	5493	5495	4	8
WASATCH	5650	5654	4	16
8. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 2 on attached listing. Under-displace to ~5493' and trickle 250gal 15%HCL w/ scale inhibitor in flush.
9. Set 8000 psi CBP at ~5372'. Perf the following with 3-3/8" gun, 23 gm, 0.36" hole:

Zone	From	To	spf	# of shots
WASATCH	5126	5128	3	6
WASATCH	5249	5250	3	3
WASATCH	5301	5302	3	3
WASATCH	5338	5342	3	12
10. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 3 on attached listing. Under-displace to ~5126' flush only with recycled water.
11. Set 8000 psi CBP at~5076'.
12. 14. ND Frac Valves, NU and Test BOPs.
13. TIH with 3 7/8" mill, pump open sub, XN nipple and tubing.
14. Mill 3 plugs and clean out to a depth of 6000'.
15. Land tubing at 5463', drop ball and pump open sub. Flow back completion load. RDMO

- 16. MIRU, POOH tbg and mill. TIH with POBS and mill.
 - 17. Mill last plug @ 6017' clean out to PBSD at 8367'. Land tubing at ±7843' pump off bit and bit sub. **This well WILL be commingled at this time.**
 - 18. Clean out well with foam and/or swabbing unit until steady flow has been established from completion.
- 20. Leave surface casing valve open.** Monitor and report any flow from surface casing. RDMO

**For design questions, please call
 Rachael Hill, Denver, CO
 (720)-929-6057 (Office)
 (832)-859-0515 (Cell)**

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

NOTES:

If using any chemicals for pickling tubing or H2S Scavenging, have MSDS for all chemicals prior to starting work

Verify that the Braden head valve is locked OPEN.

Total Stages	3	stages
Last Stage Flush	3346	gals

Service Company Supplied Chemicals - Job Totals

Friction Reducer	51	gals @	0.5	GPT
Surfactant	103	gals @	1.0	GPT
Clay Stabilizer	103	gals @	1.0	GPT
15% Hcl	750	gals @	250	gal/stg
Iron Control for acid	4	gals @	5.0	GPT of acid
Surfactant for acid	1	gals @	1.0	GPT of acid
Corrosion Inhibitor for acid	2	gals @	2.0	GPT of acid

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

Scale Inhibitor	295	gals pumped per schedule above
Biocide	51	gals @ 0.5 GPT

Acid Pickling and H2S Procedures (If Required)

****PROCEDURE FOR PUMPING ACID DOWN TBG**

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

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

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

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

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

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

Key Contact information

Completion Engineer

Rachael Hill: 303-907-9167, 720-929-6599

Production Engineer

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

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

Name NBU 1022-13L3S
 Perforation and CBP Summary

Stage	Zones	Perforations		SPF	Holes	Fracture Coverage		
		Top, ft	Bottom, ft					
1	WASATCH	5863	5867	4	16	5861	to	5868.75
	WASATCH	5965	5967	4	8	5962	to	5968.75
	WASATCH							
	WASATCH							
	WASATCH							
	WASATCH							
	# of Perfs/stage					24	CBP DEPTH	5,684
2	WASATCH	5493	5495	4	8	5489.25	to	5496.75
	WASATCH	5650	5654	4	16	5644.25	to	5662.5
	WASATCH							
	WASATCH							
	WASATCH							
	WASATCH							
	WASATCH							
# of Perfs/stage					24	CBP DEPTH	5,372	
3	WASATCH	5126	5128	3	6	5122.5	to	5133.75
	WASATCH	5249	5250	3	3	5247.25	to	5254
	WASATCH	5301	5302	3	3	5292.25	to	5314.75
	WASATCH	5338	5342	3	12	5329.5	to	5357.25
	WASATCH							
	WASATCH							
	WASATCH							
# of Perfs/stage					24	CBP DEPTH	5,076	
Totals					72			

NBU 1022-13L3S						
MD	TVD	INC		MD	TVD	INC
0	0	0		4157	4073.474	21.88
100	100	0.25		4220	4131.899	22.06
200	200	0.5		4283	4190.351	21.75
300	299.99	0.5		4346	4249.079	20.69
400	399.99	0.5		4409	4308.325	19.06
500	499.99	0.5		4473	4369.017	17.94
600	599.98	0.75		4536	4429.069	17.25
700	699.97	1		4599	4489.236	17.25
800	799.96	0.75		4662	4549.442	17
900	899.95	0.75		4725	4609.915	15.56
1000	999.94	0.75		4788	4670.768	14.44
1100	1099.93	1		4852	4732.891	13.38
1200	1199.91	1		4915	4794.321	12.25
1300	1299.9	1		4979	4856.915	11.81
1400	1399.89	0.75		5042	4918.684	10.88
1500	1499.88	0.75		5105	4980.659	9.81
1600	1599.87	0.75		5168	5042.795	9.19
1700	1699.86	0.75		5232	5106.06	8.19
1800	1799.85	1		5295	5168.51	6.94
1900	1899.83	1.5		5358	5231.127	5.69
1948	1947.81	1.5		5421	5293.833	5.38
2134	2133.731	1.81		5484	5356.596	4.56
2197	2196.702	1.69		5548	5420.404	4.31
2260	2259.683	1.13		5611	5483.256	3.56
2323	2322.669	1.44		5674	5546.15	3.06
2387	2386.623	2.88		5737	5609.062	3
2450	2449.507	4.06		5801	5672.999	2.06
2513	2512.295	5.38		5895	5766.946	1.81
2576	2574.949	6.63		5990	5861.9	1.75
2640	2638.492	7.19		6085	5956.871	1.06
2703	2700.767	10.13		6180	6051.853	1.25
2766	2762.503	12.81		6275	6146.836	0.88
2829	2823.912	13		6370	6241.823	1.06
2893	2886.159	13.88		6465	6336.801	1.44
2956	2947.345	13.69		6560	6431.772	1.38
3019	3008.611	13.25		6655	6526.735	1.81
3083	3070.769	14.31		6749	6620.69	1.75
3146	3131.593	15.88		6844	6715.657	1.25
3209	3191.988	17.19		6939	6810.626	1.69
3272	3252.226	16.88		7034	6905.578	1.94
3335	3312.329	18		7129	7000.53	1.69
3398	3372.15	18.56		7223	7094.483	2
3462	3432.524	20.19		7318	7189.426	1.94
3525	3491.499	21		7413	7284.379	1.69
3588	3550.401	20.56		7508	7379.345	1.38
3652	3610.397	20.19		7600	7471.31	2
3715	3668.627	24.63		7700	7571.24	2.25
3778	3725.739	25.31		7800	7671.17	2
3841	3782.719	25.19		7900	7771.09	2.5
3904	3839.973	24.13		8000	7871.01	2.25
3967	3897.635	23.38		8100	7970.92	2.5
4030	3955.57	22.88		8200	8070.83	2.5
4093	4013.954	21.25		8289	8159.74	2.5

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

AMENDED REPORT FORM 8
(highlight changes)

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL: OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> DRY <input type="checkbox"/> OTHER _____		7. UNIT or CA AGREEMENT NAME UTU63074A	
b. TYPE OF WORK: NEW WELL <input type="checkbox"/> HORIZ. LATS. <input type="checkbox"/> DEEP-EN <input type="checkbox"/> RE-ENTRY <input type="checkbox"/> DIFF. RESVR. <input checked="" type="checkbox"/> OTHER RECOMPLETION		8. WELL NAME and NUMBER: NBU 1022-13L3S	
2. NAME OF OPERATOR: KERR MCGEE OIL & GAS ONSHORE, L.P.		9. API NUMBER: 4304739485	
3. ADDRESS OF OPERATOR: P.O.BOX 173779 CITY DENVER STATE CO ZIP 80217		PHONE NUMBER: (720) 929-6304	
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: NESW 1624 FSL 1356 FWL S13,T10S,R22E AT TOP PRODUCING INTERVAL REPORTED BELOW: NWSW 1659 FSL 613 FWL S13,T10S,R22E AT TOTAL DEPTH: NWSW 1622 FSL 538 FWL S13,T10S,R22E		10 FIELD AND POOL, OR WLD/CAT NATURAL BUTTES	
		11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NESW 13 10S 22E S	
		12. COUNTY UINTAH	13. STATE UTAH

14. DATE SPUDDED: 10/26/2007		15. DATE T.D. REACHED: 2/16/2008		16. DATE COMPLETED: 5/18/2012		ABANDONED <input type="checkbox"/> READY TO PRODUCE <input checked="" type="checkbox"/>		17. ELEVATIONS (DF, RKB, RT, GL): 5287 GL	
18. TOTAL DEPTH: MD 8,412 TVD 8,283		19. PLUG BACK T.D.: MD 8,367 TVD 8,238		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)					23. WAS WELL CORED? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> (Submit analysis) WAS DST RUN? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> (Submit report) DIRECTIONAL SURVEY? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> (Submit copy)				

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

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
20"	14" STL	36.7#	0	40		28			
12 1/4"	9 5/8" J-55	32.3#36#	0	2,140		600			
7 7/8"	4 1/2" I-80	11.6#	0	8,412		1,496			

25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 3/8"	7,153							

26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)	INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
(A) WASATCH	5,126	5,967			5,126 5,967	0.36	72	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
(B)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
(C)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
(D)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>

27. PERFORATION RECORD

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

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
5126-5967	PUMP 2853 BBLs SLICK H2O & 81805 LBS 30/50 OTTAWA SAND 3 STAGES

29. ENCLOSED ATTACHMENTS:

- | | | | |
|---|--|---------------------------------------|---|
| <input type="checkbox"/> ELECTRICAL/MECHANICAL LOGS | <input type="checkbox"/> GEOLOGIC REPORT | <input type="checkbox"/> DST REPORT | <input type="checkbox"/> DIRECTIONAL SURVEY |
| <input type="checkbox"/> SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION | <input type="checkbox"/> CORE ANALYSIS | <input type="checkbox"/> OTHER: _____ | |

30. WELL STATUS:

PROD

RECEIVED

AUG 21 2012

DIV. OF OIL, GAS & MINING

31. INITIAL PRODUCTION

INTERVAL A (As shown in Item #26)

DATE FIRST PRODUCED: 5/18/2012		TEST DATE: 8/15/2012		HOURS TESTED: 24		TEST PRODUCTION RATES: →	OIL - BBL: 0	GAS - MCF: 432	WATER - BBL: 0	PROD. METHOD: FLOWING
CHOKE SIZE: 24/64	TBG. PRESS. 176	CSG. PRESS. 590	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL - BBL: 0	GAS - MCF: 432	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.)

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.

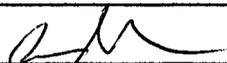
34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
				GREEN RIVER	1,037
				BIRD'S NEST	1,280
				MAHOGANY	1,675
				WASATCH	4,091
				MESAVERDE	6,320

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. New recompletion perforations are: Wasatch 5126-5967; existing perforations: Mesaverde 6368-8011. The Iso plug separating new perforations from old perforations was drilled out on 8/3/12. Test information is production from all Wasatch/Mesaverde perforations.

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

NAME (PLEASE PRINT) CARA MAHLER TITLE REGULATORY ANALYST
 SIGNATURE  DATE 8/16/2012

This report must be submitted within 30 days of

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

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

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

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

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 1022-13L3S purple

Spud Date: 10/26/2007

Project: UTAH-UINTAH

Site: WHITE RIVER PAD

Rig Name No: MILES-GRAY 1/1, ROCKY MOUNTAIN WELL SERVICE 3/3

Event: RECOMPL/RESEREVEADD

Start Date: 4/25/2012

End Date: 8/6/2012

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

UWI: NBU 1022-13L3S

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
4/25/2012	10:00 - 17:00	7.00	ABANDZ	31	I	P		MIRU, SICP 170 PSI, SITP 170 PSI, ATTEMPTED TO PUMP DWN TBG W/ TMAC FILLED & PRESS UP AFTER 22 BBLs, NDWH, NUBOP, R/U J-W WIRELINE & PERF TBG, R/D J-W, UNLAND TBG, R/U SCAN TECH, POOH SCAN L/D ON FLOAT 252 JTS TBG, 243 YELLOW BAND, 9 RED BAND (279.65'), L/D XN NIPPLE & SPRING W/ STANDING VALVE, SWFN HSM - JSA
4/26/2012	7:00 - 7:15	0.25	ABANDZ	48		P		R/U J-W WIRELINE, RIH W/ GAUGE RING & TRASH BASKET TO 6,067', NO TIGHT SPOTS, CAME OUT CLEAN, RIH W/ HAL 10K CBP SET @ 6,017', R/D J-W, NDBOP, NU TEST FLANGE, RDMO
	7:15 - 9:00	1.75	ABANDZ	34	I	P		
5/1/2012	8:30 - 9:50	1.33	ABANDZ	33	C	P		MIRU B & C QUICK TEST PRESS TEST FRAC VALVES & CASING TO 1,000 PSI FOR 15 MIN LOST 13 PSI, 3,500 PSI FOR 15 MIN LOST 19 PSI, 6,200 FOR 30 MIN LOST 59 PSI, RDMO B & C
5/8/2012	6:45 - 7:00	0.25	COMP	48		P		HSM. HIGH PSI LINES

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 1022-13L3S purple

Spud Date: 10/26/2007

Project: UTAH-UINTAH

Site: WHITE RIVER PAD

Rig Name No: MILES-GRAY 1/1, ROCKY MOUNTAIN WELL SERVICE 3/3

Event: RECOMPL/RESERVEADD

Start Date: 4/25/2012

End Date: 8/6/2012

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

UWI: NBU 1022-13L3S

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	7:00 - 18:00	11.00	COMP	36	B	P		<p>PERF STG 1)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH PERF AS PER DESIGN. POOH, X-OVER FOR FRAC CREW.</p> <p>FRAC STG 1)WHP 62 PSI, BRK 2542 PSI @ 8.0 BPM. ISIP 1497 PSI, FG .69. CALC PERFS OPEN @ 49.9 BPM @ 4225 PSI = 75% HOLES OPEN. (18/24 HOLES OPEN) ISIP 1987 PSI, FG .77, NPI 490 PSI. MP 4618 PSI, MR 51.8 BPM, AP 4008 PSI, AR 49 BPM, PUMPED 30/50 OWATTA SAND. SWI, X-OVER FOR WL.</p> <p>PERF STG 2)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 5684' P/U PERF AS PER DESIGN. POOH. X-OVER FOR FRAC CREW.</p> <p>FRAC STG 2)WHP 300 PSI, BRK 1916 PSI @ 4.8 BPM. ISIP 1463 PSI, FG .70. CALC PERFS OPEN @ 50.3 BPM @ 3309 PSI = 100% HOLES OPEN. (24/24 HOLES OPEN) ISIP 1631 PSI, FG .73, NPI 168 PSI. MP 4241 PSI, MR 50.4 BPM, AP 3494 PSI, AR 49.5 BPM, PUMPED 30/50 OWATTA SAND. SWI, X-OVER FOR WL.</p> <p>PERF STG 3)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 120 DEG PHASING. RIH SET CBP @ 5372' P/U PERF AS PER DESIGN. POOH. X-OVER FOR FRAC CREW.</p> <p>FRAC STG 3)WHP 632 PSI, BRK 1337 PSI @ 3.7 BPM. ISIP 830 PSI, FG .59. CALC PERFS OPEN @ 51.2 BPM @ 3207 PSI = 75% HOLES OPEN. (18/24 HOLES OPEN) ISIP 1591 PSI, FG .74, NPI 761 PSI. MP 3867 PSI, MR 50 BPM, AP 3823 PSI, AR 49.5 BPM, PUMPED 30/50 OWATTA SAND. SWI, X-OVER FOR WL.</p> <p>PU 4 1/2 8K HAL CBP. RIH SET KILL PLUG @ 5076'. POOH. SWI. DONE FRACING THIS WELL.</p> <p>TOTAL SAND = 81,805 LBS TOTAL CLFL = 2853 BBLS HSM-JSA</p>
5/18/2012	7:00 - 7:15	0.25	DRLOUT	48		P		

US ROCKIES REGION
Operation Summary Report

Well: NBU 1022-13L3S purple

Spud Date: 10/26/2007

Project: UTAH-UINTAH

Site: WHITE RIVER PAD

Rig Name No: MILES-GRAY 1/1, ROCKY MOUNTAIN WELL SERVICE 3/3

Event: RECOMPL/RESEREVEADD

Start Date: 4/25/2012

End Date: 8/6/2012

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

UWI: NBU 1022-13L3S

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	7:15 - 15:00	7.75	DRLOUT	44	C	P		<p>MIRU, P/U 3 7/8" BIT, PUMP OPEN BIT SUB, XN SN, RIH W/ 2 3/8" L-80 TBG OFF FLOAT TAG FILL @ 5,054', R/U PWR SWMVEL, BRK CIRC W/ RIG PUMP, PRESS TEST BOP TO 3,000 PSI LOST 0 PSI IN 15 MIN.</p> <p>C/O 30' SAND TAG PLUG #1 @ 5,084, D/O HAL 8K CBP IN 3 MIN, 100 PSI INC, FCP 150 PSI, RIH TAG FILL @ 5,342'.</p> <p>C/O 30' SAND TAG PULG #2 @ 5,372', D/O HAL 8K CBP IN 5 MIN, 100 PSI INC, FCP 250 PSI, RIH TAG FILL @ 5,653'.</p> <p>C/O 30' SAND TAG PLUG #3 @ 5,683, D/O HAL 8K CBP IN 4 MIN, 100 PSI INC, FCP 350 PSI, RIH TAG FILL @ 5,488' (23' BELOW BTM PERF), R/D PWR SWMVEL, POOH L/D 17 JTS ON FLOAT, LAND TBG W/ 172 JTS L-80 TBG @ 5,474.88'. R/D FLOOR & TBG EQUIP, NDBOP, NUWH, DROP BALL PUMP OPEN BIT SUB @ 1,900 PSI, TURN OVER TO FBC SICP 1,300 PSI, SITP 600 PSI. SDFWE</p> <p>KB-19' HANGER-.83' 172 JTS 2 3/8" L-80-5,452.85' POBS-2.20' EOT @ 5,474.88'</p> <p>71 JTS (2,236.5') 2 3/8" L-80 YELLOW BAND SENT TO SAMUELS YARD</p> <p>TWTR=2,953 BBLS TWR=275 BBLS TWLTR=2,678 BBLS</p>
	14:15 - 15:00	0.75	DRLOUT	50				<p>WELL TURNED TO SALES @ 14:15 HR ON 5/18/2012, 1200 MCFD, 960 BWP, FCP 1300# , FTP 800#, 22/64".</p>
8/2/2012	12:00 - 14:00	2.00	DRLOUT	30	A	P		<p>RDMO NBU 1022-13L4S, MIRU, FCP & FTP 170#, CNTRL TBG W/ 20 BBLS, N/D WH, N/U BOPS, UNLAND TBG.</p>
	14:00 - 16:00	2.00	DRLOUT	31	I	P		<p>POOH & TALLY, W/ 172 JTS 2 3/8" L-80 TBG, L/D POPBS & 3 7/8" SBB. 5 PM SWI, SDFN</p>
8/3/2012	7:00 - 7:30	0.50	DRLOUT	48		P		<p>HSM, PWR SWVL CONNECTIONS</p>
	7:30 - 9:00	1.50	DRLOUT	31	I	P		<p>450# SICP. CONTROL CSG W/ 40 BBLS, P/U 3 7/8" MILL, POBS, RIH W/ 188 JTS 2 3/8" L-80 TBG, TAG @ 5960',</p>
	9:00 - 13:30	4.50	DRLOUT	44	C	P		<p>R/U PWR SWVL, TECH FOAM, BRK CIRC W/ FOAM UNIT, 40 MIN, C/O 57' SAND, D/O ISO PLUG @ 6017', RIH TAG @ 8120', W/ 256 JTS. BTM PERF 8011'. L/D 31JTS ON FLOAT.</p>
	13:30 - 16:30	3.00	DRLOUT	31	I	P		<p>POOH W/ 225 JTS, L/D POBS & MILL. SWI, SDFWE</p>

US ROCKIES REGION
Operation Summary Report

Well: NBU 1022-13L3S purple

Spud Date: 10/26/2007

Project: UTAH-UINTAH

Site: WHITE RIVER PAD

Rig Name No: MILES-GRAY 1/1, ROCKY MOUNTAIN WELL SERVICE 3/3

Event: RECOMPL/RESEREVEADD

Start Date: 4/25/2012

End Date: 8/6/2012

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

UWI: NBU 1022-13L3S

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
8/6/2012	7:00 - 7:30	0.50	COMP	48		P		HSM, REVIEW RIH PROD TBG, BROACH TBG. BLEW CSG DWN, CONTROL CSG W/ 35 BLS. PU 1.875 XN NOTCH & RIH PROD TBG, BROACH TBG EVERY 24 JTS. LAND TBG HANGER W/ 225 JTS. 2-3/8 L-80 TBG, EOT @ 7153.05', RD FLOOR & TBG EQUIPMENT, ND BOP'S, NU WH, CLEAN LOCATION, RDMO. MOVE TO NBU 1022-13N2S. TBG DETAIL: KB----- -19.0' HANGER-----83 225 JTS. 2-3/8 L-80 TBG-----7132.17' 1.875 XN NOTCH-----1.05' EOT @-----7153.05' WLTR. 100 BBLS. TOP PERF @ 5126' BTM PERF @ 8011' PBTD @ 8367' C/O TO 8120' SWNW SW SEC: 13- 10S- 22E LAT: 39.946108 LONG: 109.392772
	7:30 - 12:00	4.50	COMP	31	I	P		

1 General

1.1 Customer Information

Company	US ROCKIES REGION
Representative	
Address	

1.2 Well/Wellbore Information

Well	NBU 1022-13L3S purple	Wellbore No.	OH
Well Name	NBU 1022-13L3S	Wellbore Name	NBU 1022-13L3S
Report No.	1	Report Date	4/25/2012
Project	UTAH-UINTAH	Site	WHITE RIVER PAD
Rig Name/No.	ROCKY MOUNTAIN WELL SERVICE 3/3	Event	RECOMPL/RESEREVEADD
Start Date	4/25/2012	End Date	5/18/2012
Spud Date	10/26/2007	Active Datum	RKB @5,306.01ft (above Mean Sea Level)
UWI	NBU 1022-13L3S		

1.3 General

Contractor		Job Method		Supervisor	
Perforated Assembly		Conveyed Method			

1.4 Initial Conditions

Fluid Type		Fluid Density	
Surface Press		Estimate Res Press	
TVD Fluid Top		Fluid Head	
Hydrostatic Press		Press Difference	
Balance Cond	NEUTRAL		

1.5 Summary

Gross Interval	5,126.0 (ft)-5,967.0 (ft)	Start Date/Time	4/25/2012 12:00AM
No. of Intervals	8	End Date/Time	4/25/2012 12:00AM
Total Shots	72	Net Perforation Interval	20.00 (ft)
Avg Shot Density	3.60 (shot/ft)	Final Surface Pressure	
		Final Press Date	

2 Intervals

2.1 Perforated Interval

Date	Formation/Reservoir	CCL@ (ft)	CCL-T S (ft)	MD Top (ft)	MD Base (ft)	Shot Density (shot/ft)	Misfires/Add. Shot	Diameter (in)	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
4/25/2012 12:00AM	WASATCH/			5,126.0	5,128.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO	N

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (ft)	CCL-T S (ft)	MD Top (ft)	MD Base (ft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diamete r (in)	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
4/25/2012 12:00AM	WASATCH/			5,249.0	5,250.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/25/2012 12:00AM	WASATCH/			5,301.0	5,302.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/25/2012 12:00AM	WASATCH/			5,338.0	5,342.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/25/2012 12:00AM	WASATCH/			5,493.0	5,495.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
4/25/2012 12:00AM	WASATCH/			5,650.0	5,654.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
4/25/2012 12:00AM	WASATCH/			5,863.0	5,867.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
4/25/2012 12:00AM	WASATCH/			5,965.0	5,967.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	

3 Plots

3.1 Wellbore Schematic

