

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 1022-13K4S	
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) 637474x4422843 Y 39.946443 -109.890807 AT SURFACE: 1739'FSL, 1745'FWL AT PROPOSED PRODUCING ZONE: 1925'FSL, 2280'FWL 637636x4422903 Y 39.946459 -109.388848				11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NESW 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) 1739'		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: 8,210		20. BOND DESCRIPTION: PLD0005237 22013542	
21. ELEVATIONS (SHOW WHETHER DF, RT, GR, ETC.): 5293'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	8,210	1320 SX 50/50 POZ	1.31 YIELD	14.3 PPG

25. ATTACHMENTS

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

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

NAME (PLEASE PRINT) SHEILA UPCHEGO TITLE SENIOR LAND ADMIN SPECIALIST
SIGNATURE *[Signature]* DATE 7/31/2007

(This space for State use only)

API NUMBER ASSIGNED: 43-047-39473

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

APPROVAL:

Date: 09-04-07
(See Instructions on Reverse Side)

By: *[Signature]*

RECEIVED

AUG 06 2007

DIV. OF OIL, GAS & MINING

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

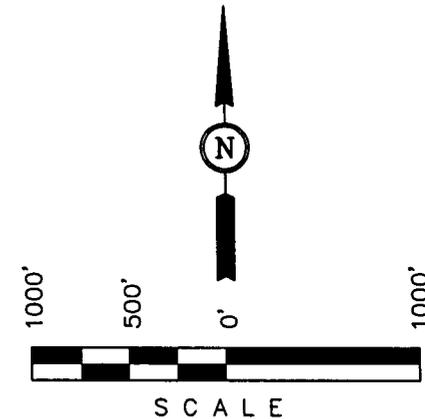
Kerr-McGee Oil & Gas Onshore LP

Well location, NBU #1022-13K4S, located as shown in the NE 1/4 SW 1/4 of Section 13, T10S, R22E, S.L.B.&M. Uintah County, Utah.

BASIS OF ELEVATION

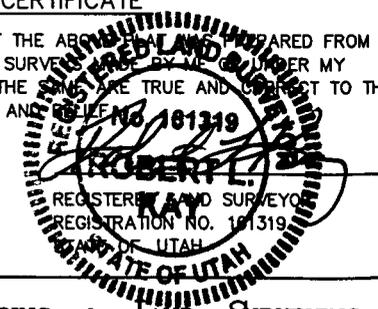
TWO WATER TRIANGULATION STATION LOCATED IN THE NW 1/4 OF SECTION 1, T10S, R21E, S.L.B.&M. TAKEN FROM THE BIG PACK MTN NE, QUADRANGLE, UTAH, UINTAH COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING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

LINE TABLE		
LINE	DIRECTION	LENGTH
L1	N71°03'05"E	572.46'

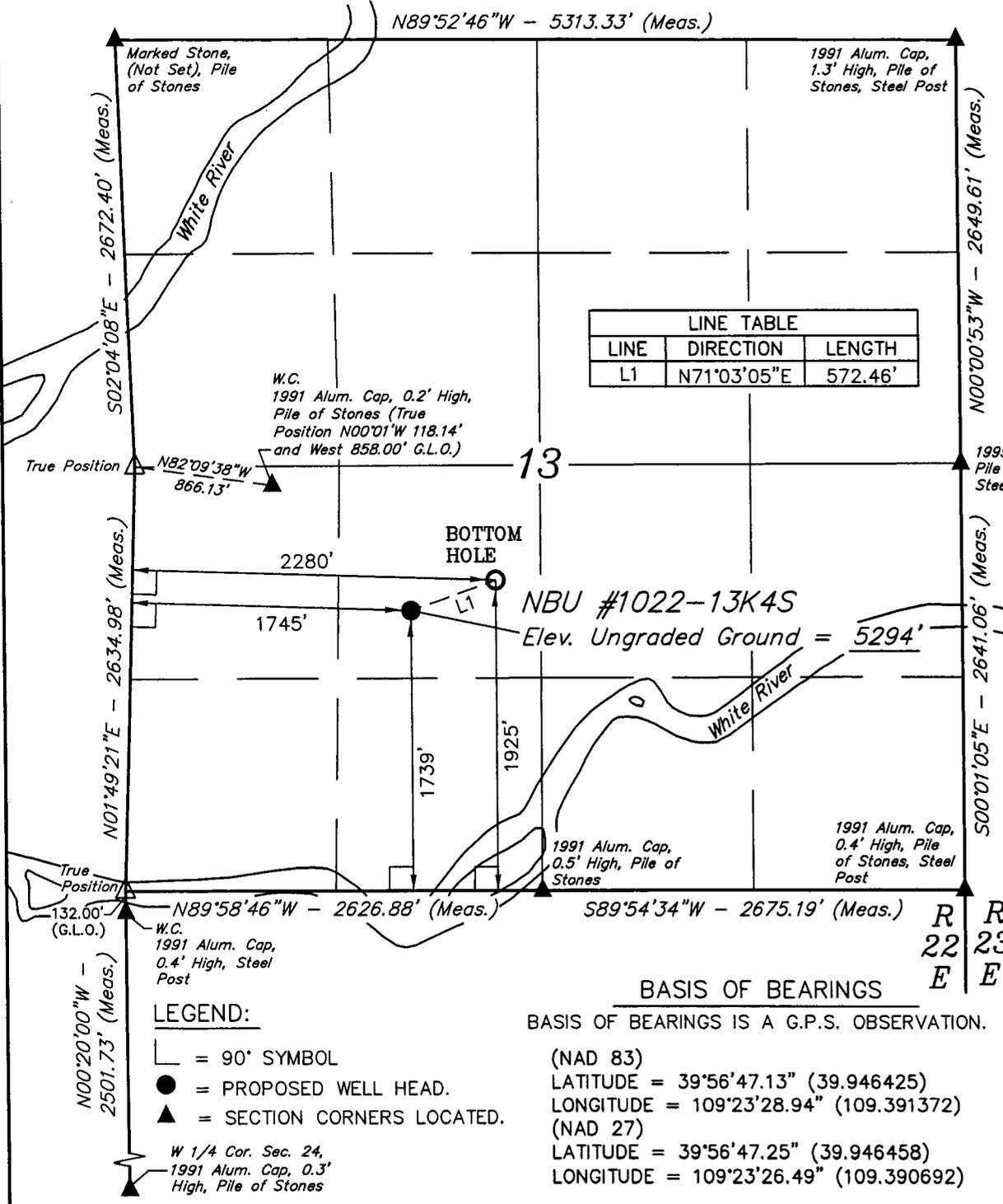


CERTIFICATE

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



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	



BASIS OF BEARINGS

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

(NAD 83)
 LATITUDE = 39°56'47.13" (39.946425)
 LONGITUDE = 109°23'28.94" (109.391372)
 (NAD 27)
 LATITUDE = 39°56'47.25" (39.946458)
 LONGITUDE = 109°23'26.49" (109.390692)

LEGEND:

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

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

**NBU 1022-13K4S
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	963'
Top of Birds Nest Water	1282'
Mahogany	1641'
Wasatch	4016'
Mesaverde	6252'
MVU2	7093'
MVL1	7648'
TD	8210'

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

<u>Substance</u>	<u>Formation</u>	<u>Depth</u>
Water	Green River	963'
	Top of Birds Nest Water	1282'
	Mahogany	1641'
Gas	Wasatch	4016'
Gas	Mesaverde	6252'
Gas	MVU2	7093'
Gas	MVL1	7648'
Water	N/A	
Other Minerals	N/A	

3. Pressure Control Equipment (Schematic Attached)

Please refer to the attached Drilling Program.

4. Proposed Casing & Cementing Program:

Please refer to the attached Drilling Program.

5. Drilling Fluids Program:

Please refer to the attached Drilling Program.

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

6. **Evaluation Program:**

Please refer to the attached Drilling Program.

7. **Abnormal Conditions:**

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

Maximum anticipated surface pressure equals approximately 3284 psi (bottomhole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

8. **Anticipated Starting Dates:**

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

9. **Variances:**

Please refer to the attached Drilling Program.

10. **Other Information:**

Please refer to the attached Drilling Program.



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

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 8210	11.60	I-80	LTC	7780	6350	201000
						2.47	1.28	2.42

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

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

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE Option 1	LEAD	500	Premium cmt + 2% CaCl + .25 pps flocele	215	60%	15.60	1.18
	TOP OUT CMT (1)	200	20 gals sodium silicate + Premium cmt + 2% CaCl + .25 pps flocele	50		15.60	1.18
	TOP OUT CMT (2)	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
SURFACE Option 2			NOTE: If well will circulate water to surface, option 2 will be utilized				
	LEAD	1500	65/35 Poz + 6% Gel + 10 pps gilsonite + .25 pps Flocele + 3% salt BWOW	360	35%	12.60	1.81
	TAIL	500	Premium cmt + 2% CaCl + .25 pps flocele	180	35%	15.60	1.18
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
PRODUCTION	LEAD	5,750'	Premium Lite II + 3% KCl + 0.25 pps celloflake + 5 pps gilsonite + 10% gel + 0.5% extender	630	60%	11.00	3.38
	TAIL	2,460'	50/50 Poz/G + 10% salt + 2% gel + .1% R-3	690	60%	14.30	1.31

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

FLOAT EQUIPMENT & CENTRALIZERS

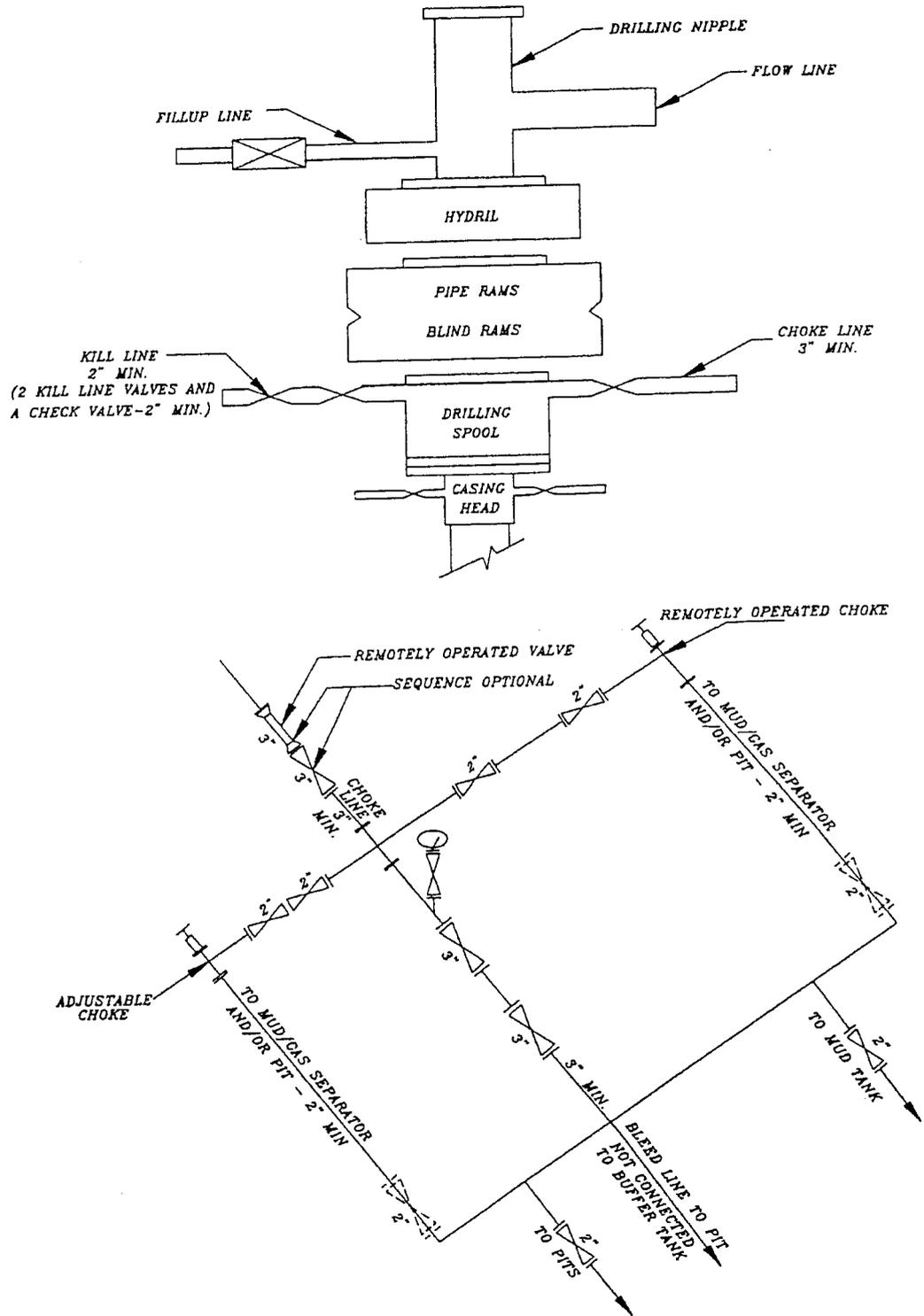
SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe.
PRODUCTION	Float shoe, 1 jt, float collar. Centralize first 3 joints & every third joint to top of tail cement with bow spring centralizers.

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

5M BOP STACK and CHOKE MANIFOLD SYSTEM



**NBU 1022-13K4S
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

7/31/2007

Date



Weatherford[®]

Drilling Services

Proposal



ANADARKO - KERR McGEE

NBU#1022-13K4S

UINTAH COUNTY, UTAH

WELL FILE: PLAN 1

DATE: JULY 16, 2007

Weatherford International, Ltd.

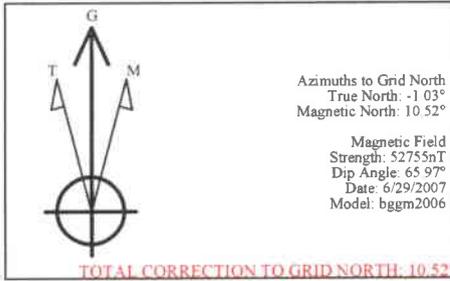
15710 John F. Kennedy Blvd

Houston, Texas 77032 USA

+1.281.260.1300 Main

+1.281.260.4730 Fax

www.weatherford.com



SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	69.41	0.00	0.00	0.00	0.00	0.00	0.00	
2	2160.00	0.00	69.41	2160.00	0.00	0.00	0.00	0.00	0.00	
3	3103.73	23.59	69.41	3077.29	67.39	179.33	2.50	69.41	191.58	
4	3244.39	23.59	69.41	3206.19	87.19	232.03	0.00	0.00	247.87	
5	4817.28	0.00	69.41	4735.00	199.50	530.92	1.50	180.00	567.17	
6	8292.28	0.00	69.41	8210.00	199.50	530.92	0.00	69.41	567.17	PBHL

WELL DETAILS							
Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
13K4S	0.00	0.00	14510593.10	2091398.30	39°56'47.038N	109°23'27.534W	N/A

TARGET DETAILS							
Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape	
PBHL	8210.00	199.50	530.92	14510792.60	2091929.22	Circle (Radius: 100)	

FORMATION TOP DETAILS			
No	TVDPath	MDPath	Formation
1	963.00	963.00	GREEN RIVER
2	4016.00	4093.96	WASATCH
3	6252.00	6334.28	MESAVERDE

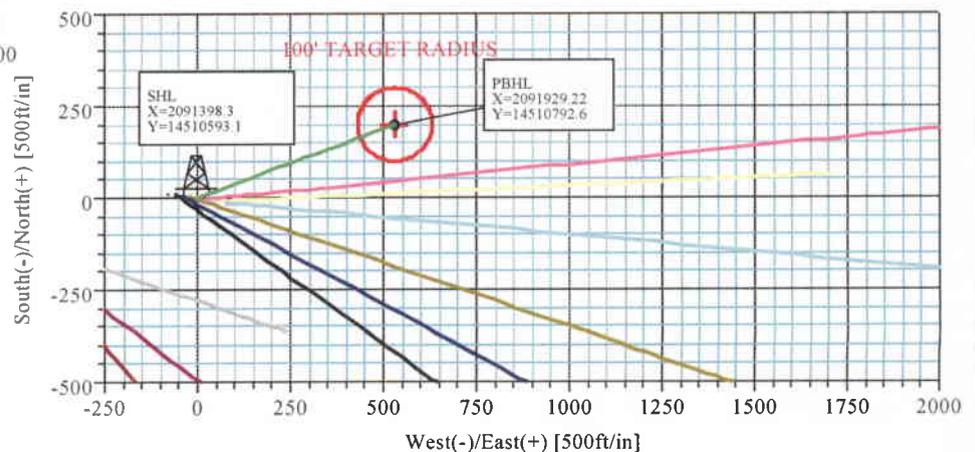
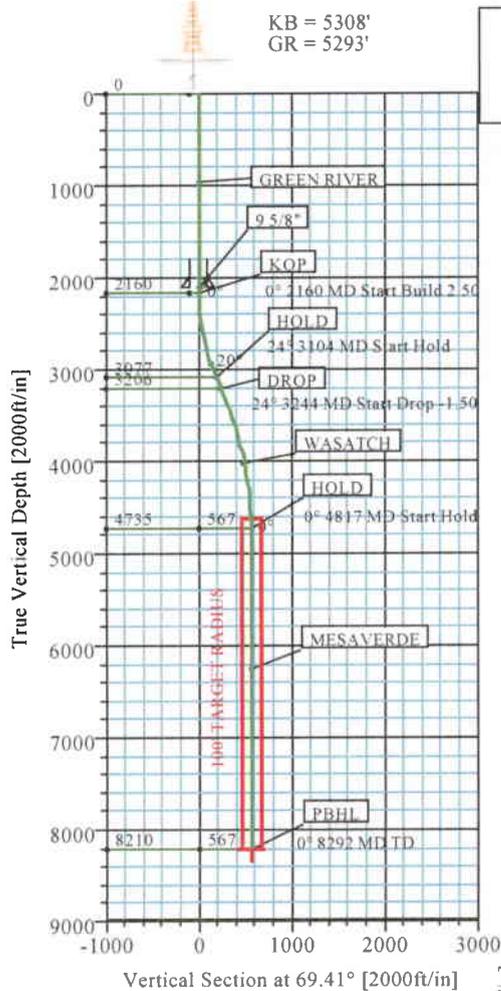
FIELD DETAILS

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

CASING DETAILS				
No	TVD	MD	Name	Size
1	2100.00	2100.00	9.5/8"	9.62



Weatherford Drilling Services

WELL PLAN REPORT



Company: Anadarko-Kerr-McGee	Date: 7/17/2007	Time: 15:24:47	Page: 1
Field: UINTAH COUNTY, UTAH (UTM Zone 12N-NAD 27)	Co-ordinate(NE) Reference:	Site: NBU 1022-13K4S, Grid North	
Site: NBU 1022-13K4S	Vertical (TVD) Reference:	SITE 5308.0	
Well: 13K4S	Section (VS) Reference:	Well (0.00N,0.00E,69.41Azi)	
Wellpath: 1	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Plan: Plan #1	Date Composed:	6/29/2007
Principal: Yes	Version:	1
	Tied-to:	From Surface

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 1022-13K4S

Site Position:	Northing: 14510593.10 ft	Latitude: 39 56 47.038 N	
From: Map	Easting: 2091398.30 ft	Longitude: 109 23 27.534 W	
Position Uncertainty:	0.00 ft	North Reference:	Grid
Ground Level:	5293.00 ft	Grid Convergence:	1.03 deg

Well: 13K4S	Slot Name:
Well Position:	
+N/-S 0.00 ft	Northing: 14510593.10 ft
+E/-W 0.00 ft	Easting: 2091398.30 ft
Position Uncertainty: 0.00 ft	Latitude: 39 56 47.038 N
	Longitude: 109 23 27.534 W

Wellpath: 1	Drilled From: Surface
Current Datum: SITE	Tie-on Depth: 0.00 ft
Magnetic Data: 6/29/2007	Above System Datum: Mean Sea Level
Field Strength: 32132 nT	Declination: -3.44 deg
Vertical Section: Depth From (TVD)	Mag Dip Angle: 30.42 deg
ft	+N/-S
	ft
0.00	0.00
	ft
	0.00
	deg
	69.41

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	69.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2160.00	0.00	69.41	2160.00	0.00	0.00	0.00	0.00	0.00	0.00	
3103.73	23.59	69.41	3077.29	67.39	179.33	2.50	2.50	0.00	69.41	
3244.39	23.59	69.41	3206.19	87.19	232.03	0.00	0.00	0.00	0.00	
4817.28	0.00	69.41	4735.00	199.50	530.92	1.50	-1.50	0.00	180.00	
8292.28	0.00	69.41	8210.00	199.50	530.92	0.00	0.00	0.00	69.41	PBHL

Survey

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	Comment
2100.00	0.00	69.41	2100.00	0.00	0.00	0.00	0.00	0.00	0.00	9 5/8"
2160.00	0.00	69.41	2160.00	0.00	0.00	0.00	0.00	0.00	0.00	KOP
2200.00	1.00	69.41	2200.00	0.12	0.33	0.35	2.50	2.50	0.00	
2300.00	3.50	69.41	2299.91	1.50	4.00	4.27	2.50	2.50	0.00	
2400.00	6.00	69.41	2399.56	4.42	11.75	12.55	2.50	2.50	0.00	
2500.00	8.50	69.41	2498.75	8.85	23.57	25.17	2.50	2.50	0.00	
2600.00	11.00	69.41	2597.30	14.81	39.42	42.11	2.50	2.50	0.00	
2700.00	13.50	69.41	2695.02	22.27	59.28	63.32	2.50	2.50	0.00	
2800.00	16.00	69.41	2791.71	31.23	83.11	88.78	2.50	2.50	0.00	
2900.00	18.50	69.41	2887.21	41.66	110.86	118.43	2.50	2.50	0.00	
3000.00	21.00	69.41	2981.32	53.54	142.49	152.22	2.50	2.50	0.00	
3100.00	23.50	69.41	3073.87	66.86	177.94	190.08	2.50	2.50	0.00	
3103.73	23.59	69.41	3077.29	67.39	179.33	191.58	2.50	2.50	0.00	HOLD
3200.00	23.59	69.41	3165.51	80.94	215.40	230.11	0.00	0.00	0.00	
3244.39	23.59	69.41	3206.19	87.19	232.03	247.87	0.00	0.00	0.00	DROP

Weatherford Drilling Services

WELL PLAN REPORT



Company: Anadarko-Kerr-McGee	Date: 7/17/2007	Time: 15:24:47	Page: 2
Field: UINTAH COUNTY, UTAH (UTM Zone 12N-NAD 27)	Co-ordinate(NE) Reference:	Site: NBU 1022-13K4S, Grid North	
Site: NBU 1022-13K4S	Vertical (TVD) Reference:	SITE 5308.0	
Well: 13K4S	Section (VS) Reference:	Well (0.00N,0.00E,69.41Azi)	
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	Build deg/100ft	Turn deg/100ft	Comment
3300.00	22.76	69.41	3257.31	94.89	252.52	269.76	1.50	-1.50	0.00	
3400.00	21.26	69.41	3350.02	108.07	287.60	307.23	1.50	-1.50	0.00	
3500.00	19.76	69.41	3443.68	120.39	320.39	342.27	1.50	-1.50	0.00	
3600.00	18.26	69.41	3538.22	131.85	350.88	374.84	1.50	-1.50	0.00	
3700.00	16.76	69.41	3633.59	142.43	379.05	404.92	1.50	-1.50	0.00	
3800.00	15.26	69.41	3729.70	152.13	404.86	432.50	1.50	-1.50	0.00	
3900.00	13.76	69.41	3826.51	160.94	428.31	457.55	1.50	-1.50	0.00	
4000.00	12.26	69.41	3923.94	168.86	449.39	480.06	1.50	-1.50	0.00	
4093.96	10.85	69.41	4016.00	175.48	467.00	498.88	1.50	-1.50	0.00	WASATCH
4100.00	10.76	69.41	4021.93	175.88	468.06	500.02	1.50	-1.50	0.00	
4200.00	9.26	69.41	4120.40	181.99	484.33	517.40	1.50	-1.50	0.00	
4300.00	7.76	69.41	4219.30	187.20	498.18	532.19	1.50	-1.50	0.00	
4400.00	6.26	69.41	4318.55	191.49	509.61	544.40	1.50	-1.50	0.00	
4500.00	4.76	69.41	4418.09	194.87	518.59	554.00	1.50	-1.50	0.00	
4600.00	3.26	69.41	4517.84	197.33	525.14	560.99	1.50	-1.50	0.00	
4698.26	1.79	69.41	4616.00	198.85	529.18	565.31	1.50	-1.50	0.00	ENT. TGT CYLINDER
4700.00	1.76	69.41	4617.74	198.87	529.23	565.36	1.50	-1.50	0.00	
4800.00	0.26	69.41	4717.72	199.49	530.88	567.13	1.50	-1.50	0.00	
4817.28	0.00	69.41	4735.00	199.50	530.92	567.17	1.50	-1.50	0.00	HOLD
4900.00	0.00	69.41	4817.72	199.50	530.92	567.17	0.00	0.00	0.00	
5000.00	0.00	69.41	4917.72	199.50	530.92	567.17	0.00	0.00	0.00	
5100.00	0.00	69.41	5017.72	199.50	530.92	567.17	0.00	0.00	0.00	
5200.00	0.00	69.41	5117.72	199.50	530.92	567.17	0.00	0.00	0.00	
5300.00	0.00	69.41	5217.72	199.50	530.92	567.17	0.00	0.00	0.00	
5400.00	0.00	69.41	5317.72	199.50	530.92	567.17	0.00	0.00	0.00	
5500.00	0.00	69.41	5417.72	199.50	530.92	567.17	0.00	0.00	0.00	
5600.00	0.00	69.41	5517.72	199.50	530.92	567.17	0.00	0.00	0.00	
5700.00	0.00	69.41	5617.72	199.50	530.92	567.17	0.00	0.00	0.00	
5800.00	0.00	69.41	5717.72	199.50	530.92	567.17	0.00	0.00	0.00	
5900.00	0.00	69.41	5817.72	199.50	530.92	567.17	0.00	0.00	0.00	
6000.00	0.00	69.41	5917.72	199.50	530.92	567.17	0.00	0.00	0.00	
6100.00	0.00	69.41	6017.72	199.50	530.92	567.17	0.00	0.00	0.00	
6200.00	0.00	69.41	6117.72	199.50	530.92	567.17	0.00	0.00	0.00	
6300.00	0.00	69.41	6217.72	199.50	530.92	567.17	0.00	0.00	0.00	
6334.28	0.00	69.41	6252.00	199.50	530.92	567.17	0.00	0.00	0.00	MESAVERDE
6400.00	0.00	69.41	6317.72	199.50	530.92	567.17	0.00	0.00	0.00	
6500.00	0.00	69.41	6417.72	199.50	530.92	567.17	0.00	0.00	0.00	
6600.00	0.00	69.41	6517.72	199.50	530.92	567.17	0.00	0.00	0.00	
6700.00	0.00	69.41	6617.72	199.50	530.92	567.17	0.00	0.00	0.00	
6800.00	0.00	69.41	6717.72	199.50	530.92	567.17	0.00	0.00	0.00	
6900.00	0.00	69.41	6817.72	199.50	530.92	567.17	0.00	0.00	0.00	
7000.00	0.00	69.41	6917.72	199.50	530.92	567.17	0.00	0.00	0.00	
7100.00	0.00	69.41	7017.72	199.50	530.92	567.17	0.00	0.00	0.00	
7200.00	0.00	69.41	7117.72	199.50	530.92	567.17	0.00	0.00	0.00	
7300.00	0.00	69.41	7217.72	199.50	530.92	567.17	0.00	0.00	0.00	
7400.00	0.00	69.41	7317.72	199.50	530.92	567.17	0.00	0.00	0.00	
7500.00	0.00	69.41	7417.72	199.50	530.92	567.17	0.00	0.00	0.00	
7600.00	0.00	69.41	7517.72	199.50	530.92	567.17	0.00	0.00	0.00	
7700.00	0.00	69.41	7617.72	199.50	530.92	567.17	0.00	0.00	0.00	
7800.00	0.00	69.41	7717.72	199.50	530.92	567.17	0.00	0.00	0.00	
7900.00	0.00	69.41	7817.72	199.50	530.92	567.17	0.00	0.00	0.00	
8000.00	0.00	69.41	7917.72	199.50	530.92	567.17	0.00	0.00	0.00	
8100.00	0.00	69.41	8017.72	199.50	530.92	567.17	0.00	0.00	0.00	

Weatherford Drilling Services

WELL PLAN REPORT



Company: Anadarko-Kerr-McGee	Date: 7/17/2007	Time: 15:24:47	Page: 3
Field: UINTAH COUNTY, UTAH (UTM Zone 12N-NAD 27)	Co-ordinate(NE) Reference:	Site: NBU 1022-13K4S, Grid North	
Site: NBU 1022-13K4S	Vertical (TVD) Reference:	SITE 5308.0	
Well: 13K4S	Section (VS) Reference:	Well (0.00N,0.00E,69.41Azi)	
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	Build deg/100ft	Turn deg/100ft	Comment
8200.00	0.00	69.41	8117.72	199.50	530.92	567.17	0.00	0.00	0.00	
8292.28	0.00	69.41	8210.00	199.50	530.92	567.17	0.00	0.00	0.00	PBHL

Targets

Name	Description Dip. Dir.	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	<--- Latitude --->		<--- Longitude --->					
							Deg	Min	Sec	Deg	Min	Sec		
PBHL		8210.00	199.50	530.92	14510792.60	2091929.22	39	56	48.915	N	109	23	20.671	W
	-Circle (Radius: 100)													
	-Plan hit target													

Casing Points

MD ft	TVD ft	Diameter in	Hole Size in	Name
2100.00	2100.00	9.62	12.25	9 5/8"

Annotation

MD ft	TVD ft	
2160.00	2160.00	KOP
3103.73	3077.28	HOLD
3244.39	3206.19	DROP
4698.26	4616.00	ENT. TGT CYLINDER
4817.28	4735.00	HOLD
8292.27	8209.99	PBHL

Formations

MD ft	TVD ft	Formations	Lithology	Dip Angle deg	Dip Direction deg
963.00	963.00	GREEN RIVER		0.00	0.00
4093.96	4016.00	WASATCH		0.00	0.00
6334.28	6252.00	MESAVERDE		0.00	0.00

Weatherford Drilling Services

Anticollision Report



Company: Anadarko-Kerr-McGee **Date:** 7/17/2007 **Time:** 15:25:33 **Page:** 1
Field: Uintah County, Utah (UTM Zone 12N-NAD 27)
Reference Site: NBU 1022-13K4S **Co-ordinate(NE) Reference:** Site: NBU 1022-13K4S, Grid North
Reference Well: 13K4S **Vertical (TVD) Reference:** SITE 5308.0
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: 0.00 to 8292.28 ft **Scan Method:** Closest Approach 3D
Maximum Radius: 10000.00 ft **Error Surface:** Ellipse

Plan: Plan #1 **Date Composed:** 6/29/2007
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 1022-13O2S	13O2S	1 V0 Plan: Plan #2 V1	2400.00	2401.81	20.56	10.78	2.10	

Site: NBU 1022-13O2S
Well: 13O2S
Wellpath: 1 V0 Plan: Plan #2 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
0.00	0.00	0.00	0.00	0.00	0.00	279.60	3.40	-20.10	20.39			No Data
100.00	100.00	100.00	100.00	0.09	0.09	279.60	3.40	-20.10	20.39	20.21	114.51	
200.00	200.00	200.00	200.00	0.30	0.30	279.60	3.40	-20.10	20.39	19.79	34.15	
300.00	300.00	300.00	300.00	0.51	0.51	279.60	3.40	-20.10	20.39	19.37	20.07	
400.00	400.00	400.00	400.00	0.72	0.72	279.60	3.40	-20.10	20.39	18.95	14.21	
500.00	500.00	500.00	500.00	0.93	0.93	279.60	3.40	-20.10	20.39	18.53	11.00	
600.00	600.00	600.00	600.00	1.14	1.14	279.60	3.40	-20.10	20.39	18.11	8.97	
700.00	700.00	700.00	700.00	1.35	1.35	279.60	3.40	-20.10	20.39	17.69	7.57	
800.00	800.00	800.00	800.00	1.56	1.56	279.60	3.40	-20.10	20.39	17.28	6.55	
900.00	900.00	900.00	900.00	1.76	1.76	279.60	3.40	-20.10	20.39	16.86	5.78	
1000.00	1000.00	1000.00	1000.00	1.97	1.97	279.60	3.40	-20.10	20.39	16.44	5.16	
1100.00	1100.00	1100.00	1100.00	2.18	2.18	279.60	3.40	-20.10	20.39	16.02	4.67	
1200.00	1200.00	1200.00	1200.00	2.39	2.39	279.60	3.40	-20.10	20.39	15.60	4.26	
1300.00	1300.00	1300.00	1300.00	2.60	2.60	279.60	3.40	-20.10	20.39	15.18	3.92	
1400.00	1400.00	1400.00	1400.00	2.81	2.81	279.60	3.40	-20.10	20.39	14.76	3.63	
1500.00	1500.00	1500.00	1500.00	3.02	3.02	279.60	3.40	-20.10	20.39	14.34	3.37	
1600.00	1600.00	1600.00	1600.00	3.23	3.23	279.60	3.40	-20.10	20.39	13.92	3.16	
1700.00	1700.00	1700.00	1700.00	3.44	3.44	279.60	3.40	-20.10	20.39	13.51	2.96	
1800.00	1800.00	1800.00	1800.00	3.65	3.65	279.60	3.40	-20.10	20.39	13.09	2.79	
1900.00	1900.00	1900.00	1900.00	3.86	3.86	279.60	3.40	-20.10	20.39	12.67	2.64	
2000.00	2000.00	2000.00	2000.00	4.07	4.07	279.60	3.40	-20.10	20.39	12.25	2.51	
2100.00	2100.00	2100.00	2100.00	4.28	4.28	279.60	3.40	-20.10	20.39	11.83	2.38	
2200.00	2200.00	2200.35	2200.35	4.49	4.49	209.53	3.28	-19.76	20.34	11.37	2.27	
2300.00	2299.91	2301.18	2301.09	4.70	4.70	201.91	1.98	-15.99	20.03	10.65	2.14	
2400.00	2399.56	2401.81	2401.36	4.91	4.92	185.89	-0.77	-8.06	20.56	10.78	2.10	
2500.00	2498.75	2502.13	2500.86	5.13	5.14	165.45	-4.95	3.98	24.05	13.85	2.36	
2600.00	2597.30	2601.99	2599.26	5.38	5.39	147.89	-10.51	20.05	31.94	21.28	3.00	
2700.00	2695.02	2701.29	2696.27	5.64	5.66	135.94	-17.43	40.02	44.15	32.96	3.94	
2800.00	2791.71	2799.90	2791.62	5.95	5.98	128.25	-25.66	63.76	60.09	48.29	5.09	
2900.00	2887.21	2897.72	2885.04	6.31	6.35	123.17	-35.14	91.12	79.33	66.83	6.35	
3000.00	2981.32	2994.65	2976.33	6.73	6.78	119.64	-45.82	121.93	101.59	88.28	7.63	
3100.00	3073.87	3090.62	3065.26	7.22	7.28	117.05	-57.62	155.99	126.69	112.44	8.89	
3200.00	3165.51	3185.69	3151.79	7.77	7.86	114.98	-70.50	193.17	153.68	138.34	10.02	
3300.00	3257.31	3279.79	3235.76	8.25	8.51	112.41	-84.40	233.28	181.60	165.19	11.06	
3400.00	3350.02	3372.90	3317.09	8.46	9.23	109.16	-99.25	276.12	210.23	192.95	12.17	
3500.00	3443.68	3467.49	3399.01	8.69	10.03	105.81	-114.73	320.81	239.33	221.13	13.15	

Weatherford Drilling Services

Anticollision Report



Company: Anadarko-Kerr-McGee **Date:** 7/17/2007 **Time:** 15:25:33 **Page:** 2
Field: UINTAH COUNTY, UTAH (UTM Zone 12N-NAD 27)
Reference Site: NBU 1022-13K4S **Co-ordinate(NE) Reference:** Site: NBU 1022-13K4S, Grid North
Reference Well: 13K4S **Vertical (TVD) Reference:** SITE 5308.0
Reference Wellpath: 1 **Db:** Sybase

Site: NBU 1022-13O2S
Well: 13O2S
Wellpath: 1 V0 Plan: Plan #2 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				
3600.00	3538.22	3561.90	3480.76	8.94	10.86	102.74	-130.19	365.41	268.65	249.53	14.05	
3700.00	3633.59	3656.06	3562.31	9.18	11.71	99.87	-145.60	409.89	298.32	278.31	14.91	
3800.00	3729.70	3749.91	3643.59	9.42	12.57	97.16	-160.97	454.23	328.46	307.61	15.76	
3900.00	3826.51	3843.38	3724.54	9.64	13.45	94.58	-176.27	498.39	359.20	337.57	16.61	
4000.00	3923.94	3936.42	3805.11	9.84	14.34	92.10	-191.50	542.35	390.67	368.34	17.49	
4100.00	4021.93	4028.95	3885.25	10.02	15.23	89.74	-206.65	586.06	423.01	400.04	18.42	
4200.00	4120.40	4120.92	3964.89	10.18	16.12	87.46	-221.70	629.51	456.33	432.82	19.41	
4300.00	4219.30	4212.26	4043.99	10.30	17.01	85.29	-236.66	672.66	490.74	466.78	20.47	
4400.00	4318.55	4302.91	4122.50	10.39	17.91	83.20	-251.50	715.49	526.37	502.03	21.62	
4500.00	4418.09	4392.80	4200.35	10.45	18.80	81.21	-266.21	757.96	563.30	538.67	22.87	
4600.00	4517.84	4481.88	4277.49	10.47	19.69	79.32	-280.80	800.04	601.62	576.78	24.23	
4700.00	4617.74	4570.08	4353.87	10.46	20.57	77.51	-295.24	841.71	641.41	616.45	25.70	
4800.00	4717.72	4657.34	4429.45	10.41	21.45	75.81	-309.52	882.94	682.74	657.73	27.30	
4900.00	4817.72	4743.96	4504.46	10.40	22.32	143.09	-323.70	923.86	725.45	702.98	32.29	
5000.00	4917.72	4830.56	4579.46	10.47	23.19	141.08	-337.88	964.77	769.04	746.14	33.58	
5100.00	5017.72	4917.16	4654.46	10.55	24.07	139.28	-352.06	1005.69	813.38	790.05	34.87	
5200.00	5117.72	5016.08	4740.36	10.63	24.94	137.45	-368.11	1052.02	857.98	834.24	36.14	
5300.00	5217.72	5127.49	4838.49	10.71	25.67	135.69	-385.38	1101.86	901.04	877.02	37.52	
5400.00	5317.72	5242.39	4941.26	10.80	26.40	134.17	-402.20	1150.40	942.08	917.80	38.80	
5500.00	5417.72	5360.70	5048.65	10.89	27.10	132.84	-418.46	1197.30	980.89	956.36	39.99	
5600.00	5517.72	5482.36	5160.63	10.98	27.78	131.69	-434.03	1242.24	1017.27	992.51	41.08	
5700.00	5617.72	5607.25	5277.09	11.08	28.42	130.69	-448.79	1284.83	1051.04	1026.06	42.07	
5800.00	5717.72	5735.22	5397.89	11.18	29.02	129.83	-462.61	1324.72	1082.04	1056.87	42.99	
5900.00	5817.72	5866.09	5522.82	11.28	29.56	129.09	-475.37	1361.54	1110.11	1084.77	43.81	
6000.00	5917.72	5999.64	5651.61	11.38	30.05	128.47	-486.93	1394.92	1135.12	1109.64	44.55	
6100.00	6017.72	6135.63	5783.92	11.49	30.47	127.94	-497.19	1424.52	1156.96	1131.37	45.22	
6200.00	6117.72	6273.75	5919.38	11.60	30.82	127.51	-506.02	1450.00	1175.51	1149.85	45.81	
6300.00	6217.72	6413.70	6057.53	11.72	31.10	127.17	-513.33	1471.09	1190.68	1164.97	46.33	
6400.00	6317.72	6555.13	6197.88	11.83	31.30	126.91	-519.03	1487.53	1202.39	1176.69	46.77	
6500.00	6417.72	6697.67	6339.88	11.95	31.42	126.73	-523.04	1499.12	1210.59	1184.92	47.15	
6600.00	6517.72	6840.93	6482.96	12.07	31.46	126.63	-525.33	1505.72	1215.24	1189.63	47.45	
6700.00	6617.72	6975.70	6617.72	12.20	31.45	126.61	-525.89	1507.34	1216.38	1179.25	32.76	
6800.00	6717.72	7075.70	6717.72	12.32	31.48	126.61	-525.89	1507.34	1216.38	1179.07	32.60	
6900.00	6817.72	7175.70	6817.72	12.45	31.52	126.61	-525.89	1507.34	1216.38	1178.88	32.44	
7000.00	6917.72	7275.70	6917.72	12.58	31.56	126.61	-525.89	1507.34	1216.38	1178.69	32.27	
7100.00	7017.72	7375.70	7017.72	12.71	31.61	126.61	-525.89	1507.34	1216.38	1178.49	32.10	
7200.00	7117.72	7475.70	7117.72	12.85	31.66	126.61	-525.89	1507.34	1216.38	1178.28	31.93	
7300.00	7217.72	7575.70	7217.72	12.98	31.70	126.61	-525.89	1507.34	1216.38	1178.08	31.75	
7400.00	7317.72	7675.70	7317.72	13.12	31.75	126.61	-525.89	1507.34	1216.38	1177.87	31.58	
7500.00	7417.72	7775.70	7417.72	13.26	31.80	126.61	-525.89	1507.34	1216.38	1177.65	31.41	
7600.00	7517.72	7875.70	7517.72	13.41	31.86	126.61	-525.89	1507.34	1216.38	1177.44	31.23	
7700.00	7617.72	7975.70	7617.72	13.55	31.91	126.61	-525.89	1507.34	1216.38	1177.22	31.06	
7800.00	7717.72	8075.70	7717.72	13.69	31.96	126.61	-525.89	1507.34	1216.38	1177.00	30.88	
7900.00	7817.72	8175.70	7817.72	13.84	32.02	126.61	-525.89	1507.34	1216.38	1176.77	30.71	
8000.00	7917.72	8275.70	7917.72	13.99	32.08	126.61	-525.89	1507.34	1216.38	1176.54	30.53	
8100.00	8017.72	8375.70	8017.72	14.14	32.13	126.61	-525.89	1507.34	1216.38	1176.31	30.35	
8200.00	8117.72	8475.70	8117.72	14.29	32.19	126.61	-525.89	1507.34	1216.38	1176.08	30.18	
8292.28	8210.00	8507.98	8150.00	14.43	32.21	126.61	-525.89	1507.34	1217.86	1177.38	30.08	

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.

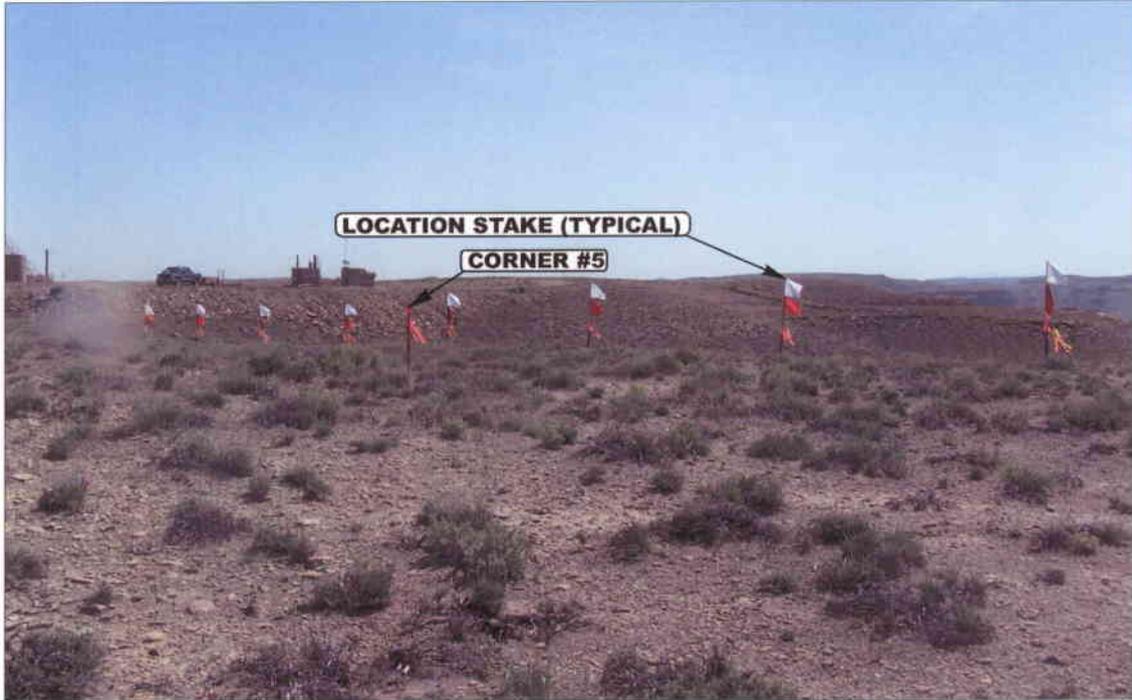


PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKES

CAMERA ANGLE: SOUTHERLY



PHOTO: VIEW OF EXISTING ACCESS

CAMERA ANGLE: WESTERLY



- Since 1964 -

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

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

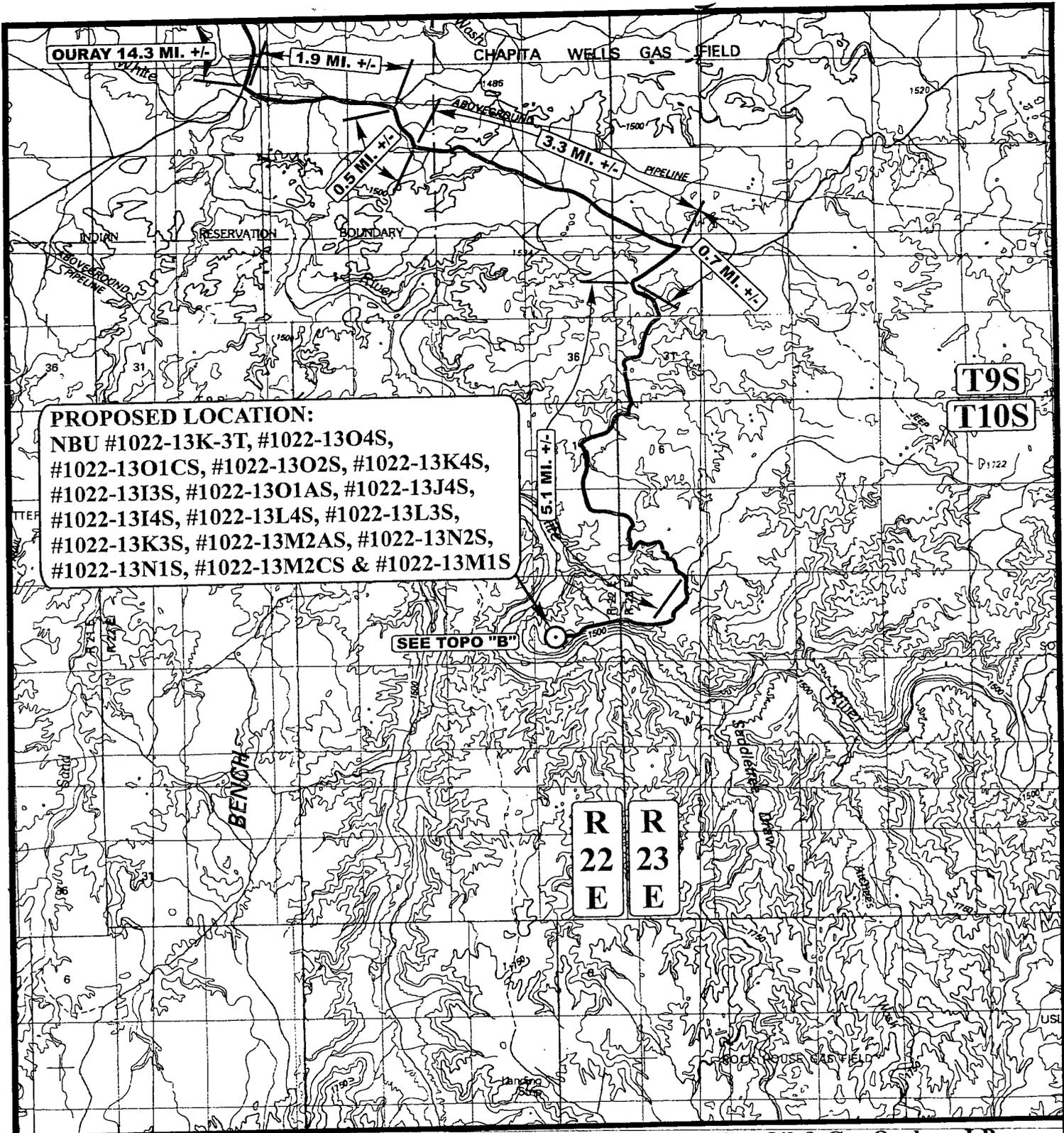
Kerr-McGee Oil & Gas Onshore LP

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. 1022-13K4S

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.



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

T9S
T10S

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

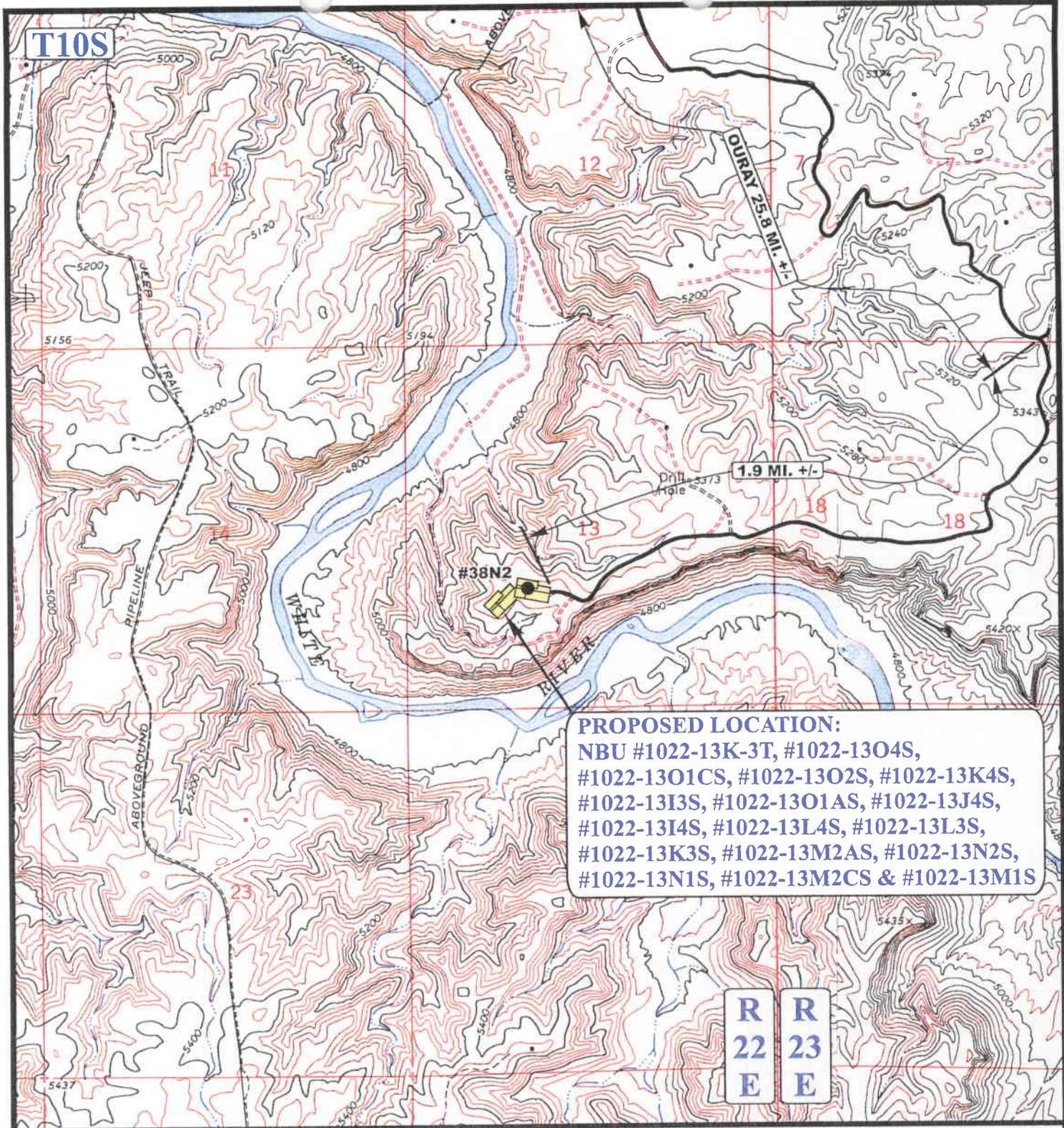
LEGEND:

○ PROPOSED LOCATION



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

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



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

R R
22 23
E E

LEGEND:

- EXISTING ROAD
- PROPOSED ACCESS ROAD

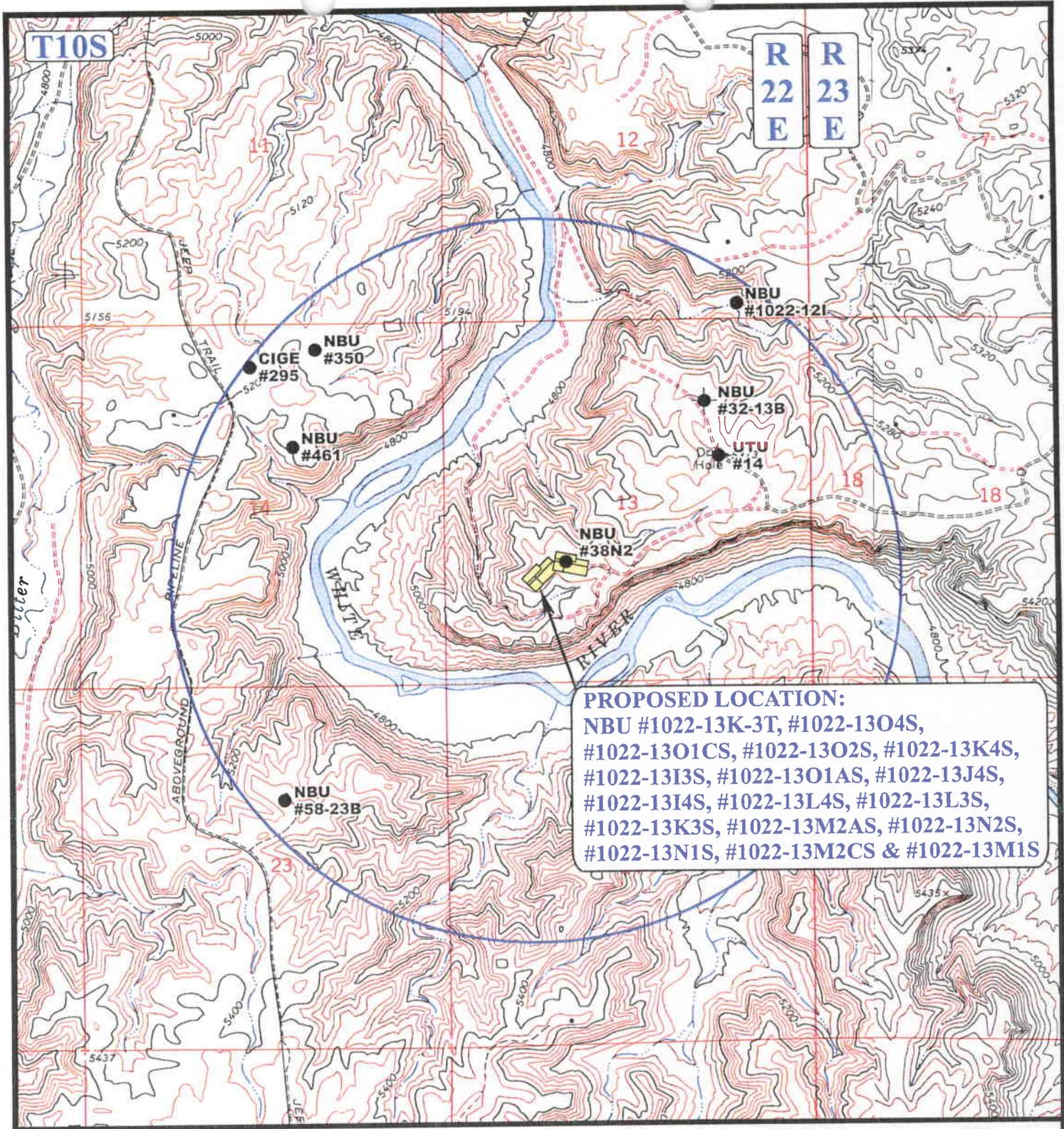


Kerr-McGee Oil & Gas Onshore LP

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

UEIS 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 **B 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

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

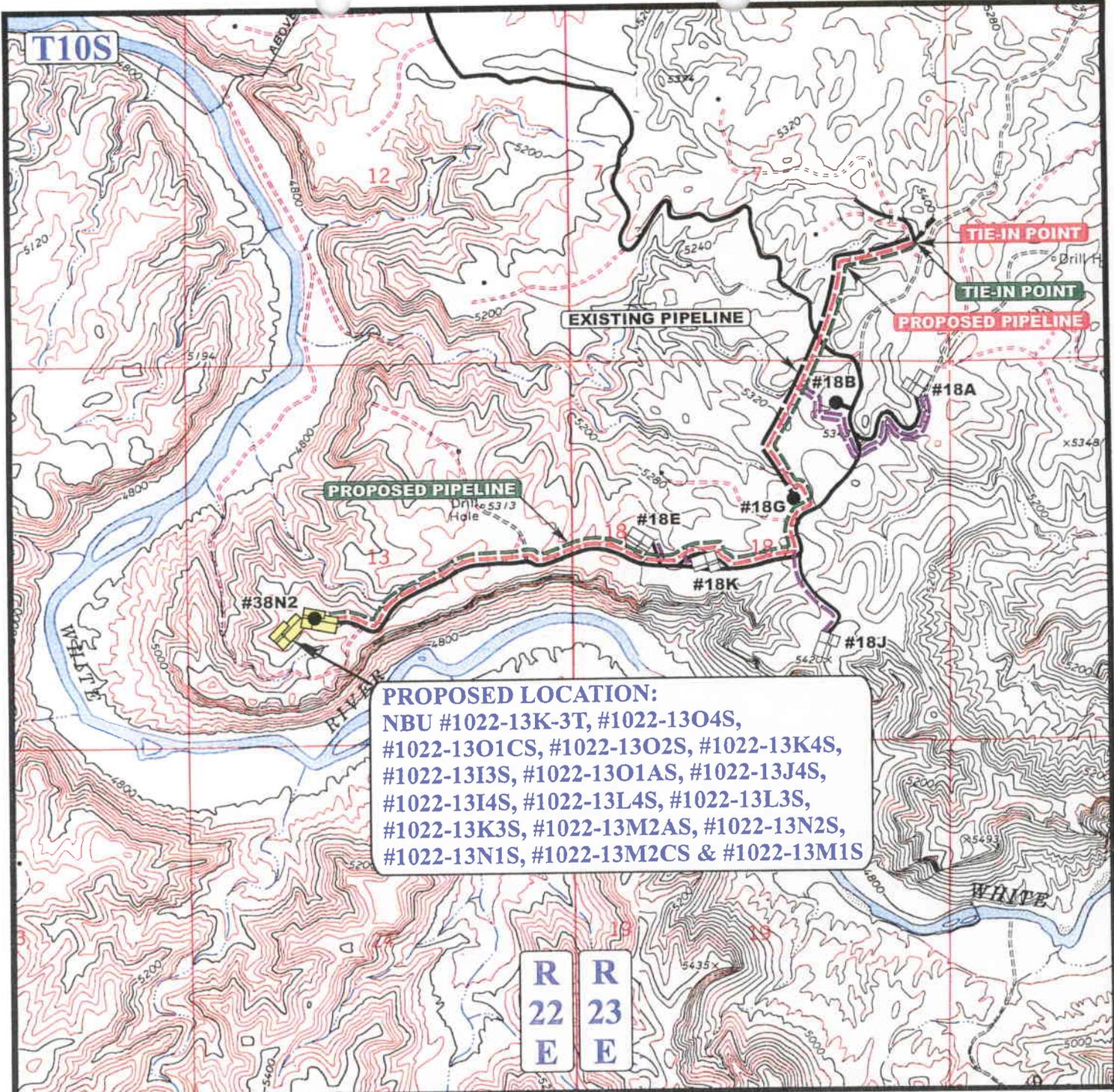
LEGEND:

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



UELS 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 **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

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)



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

TOPOGRAPHIC MAP 05 17 07
 MONTH DAY YEAR

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



Kerr-McGee Oil & Gas Onshore LP

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

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



PHOTO: VIEW FROM TIE-IN POINT

CAMERA ANGLE: WESTERLY



PHOTO: VIEW OF PIPELINE ALIGNMENT

CAMERA ANGLE: WESTERLY



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

- Since 1964 -

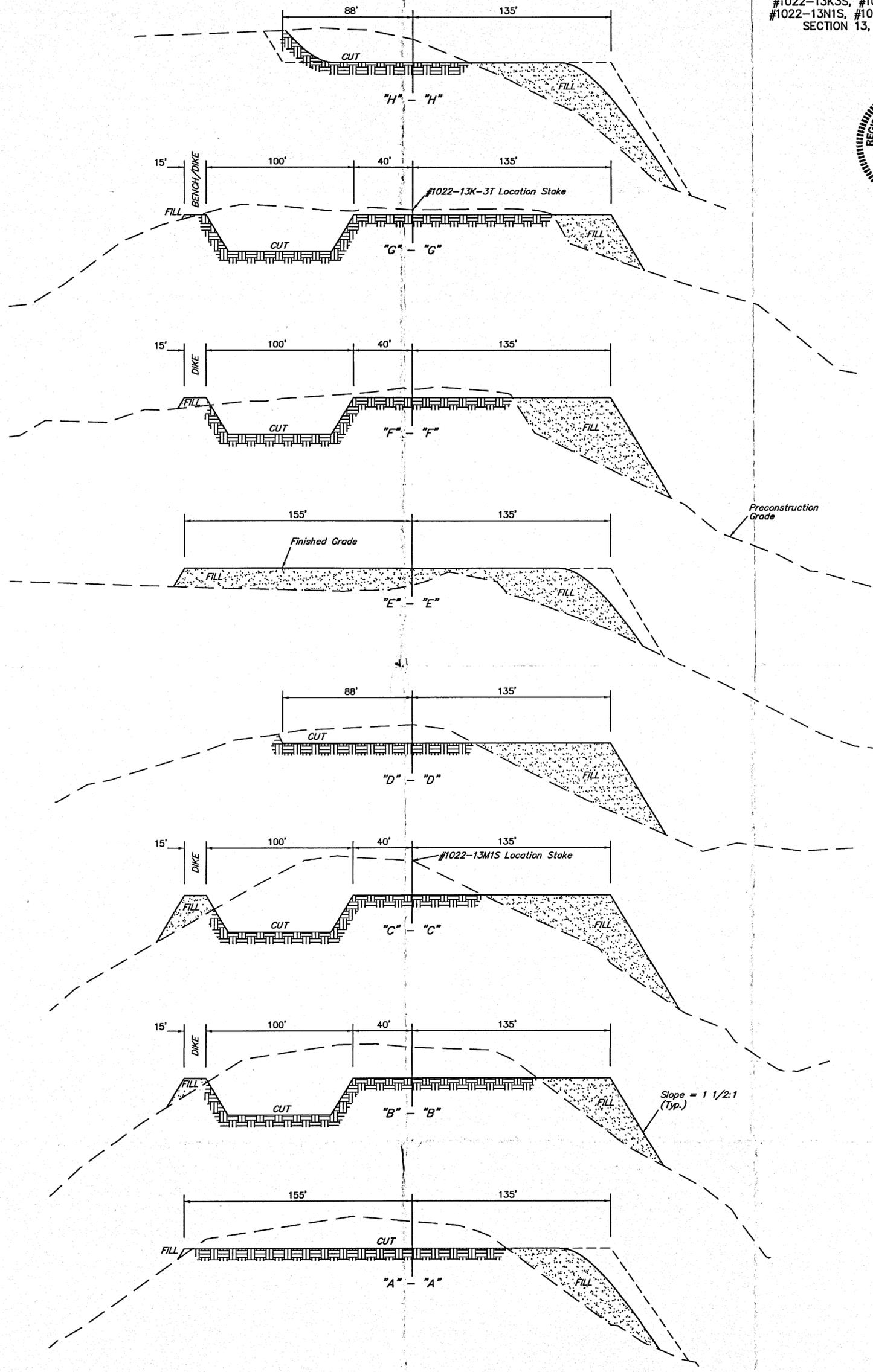
PIPELINE PHOTOS	05	17	07	PHOTO
	MONTH	DAY	YEAR	
TAKEN BY: L.K.	DRAWN BY: C.P.		REVISED: 00-00-00	

FIGURE #2

TYPICAL CROSS SECTIONS FOR
 NBU #1022-13K-3T, #1022-1304S,
 #1022-1301CS, #1022-1302S, #1022-13K4S,
 #1022-1313S, #1022-1301AS, #1022-13J4S,
 #1022-1314S, #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

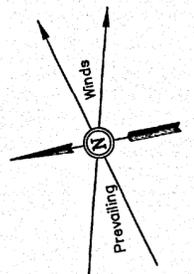
CUT (6") Topsoil Stripping	= 2,860 Cu. Yds.
Remaining Location	= 24,050 Cu. Yds.
TOTAL CUT	= 26,910 CU.YDS.
FILL	= 19,710 CU.YDS.
EXCESS MATERIAL	= 7,200 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	= 7,200 Cu. Yds.
EXCESS UNBALANCE (After Interim Rehabilitation)	= 0 Cu. Yds.

* NOTE:
 FILL QUANTITY INCLUDES 5% FOR COMPACTION

FIGURE #1

LOCATION LAYOUT FOR

NBU #1022-13K-3T, #1022-1304S, #1022-1301CS, #1022-1302S, #1022-13K4S, #1022-1313S, #1022-1301AS, #1022-13J4S, #1022-1314S, #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.

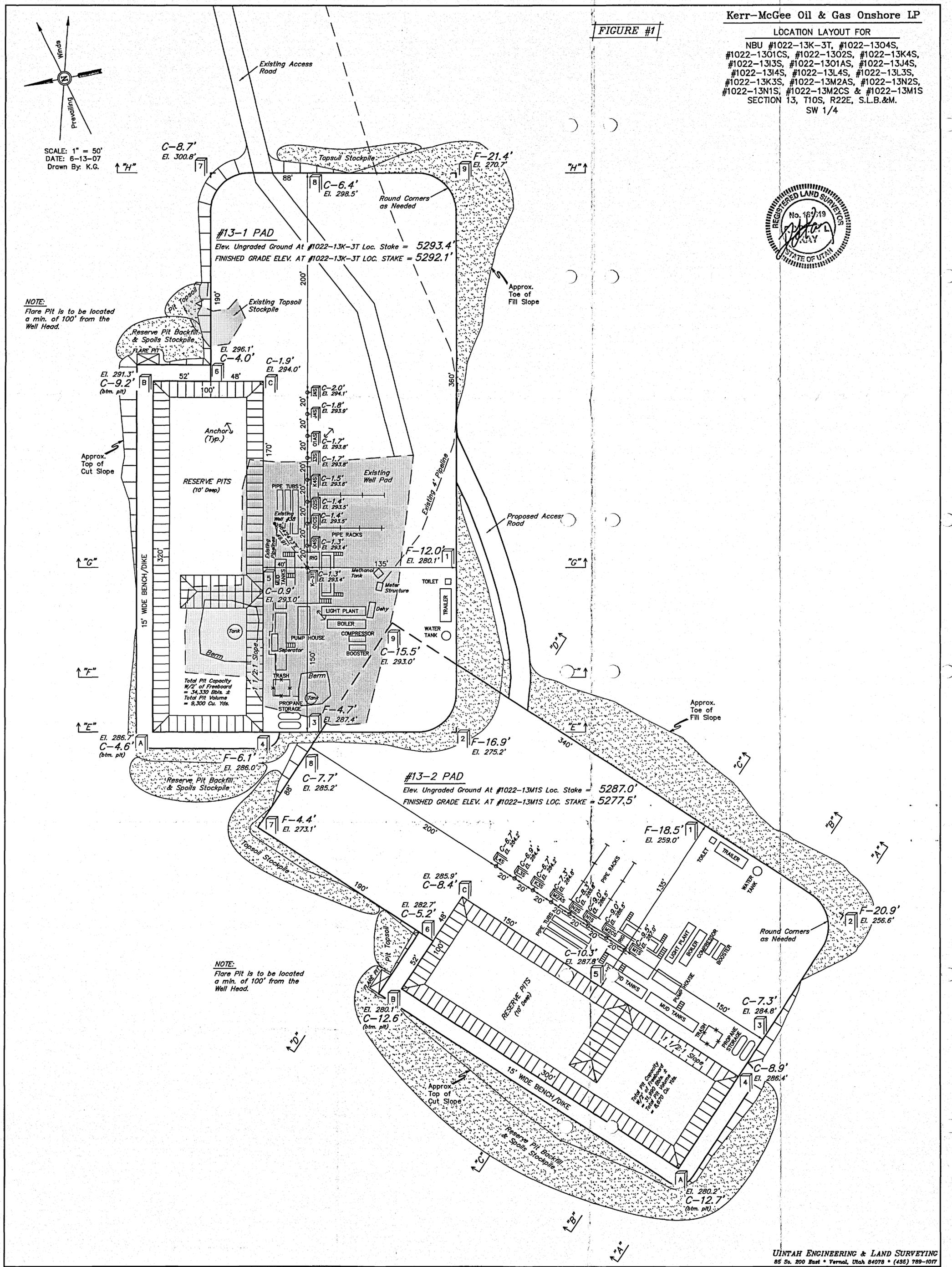


NOTE:
Flare Pit is to be located a min. of 100' from the Well Head.

#13-1 PAD
Elev. Ungraded Ground At #1022-13K-3T Loc. Stake = 5293.4'
FINISHED GRADE ELEV. AT #1022-13K-3T LOC. STAKE = 5292.1'

#13-2 PAD
Elev. Ungraded Ground At #1022-13M1S Loc. Stake = 5287.0'
FINISHED GRADE ELEV. AT #1022-13M1S LOC. STAKE = 5277.5'

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



Total Pit Capacity
W/2' of Freeboard
= 34,330 Bbls. ±
Total Pit Volume
= 9,300 Cu. Yds.

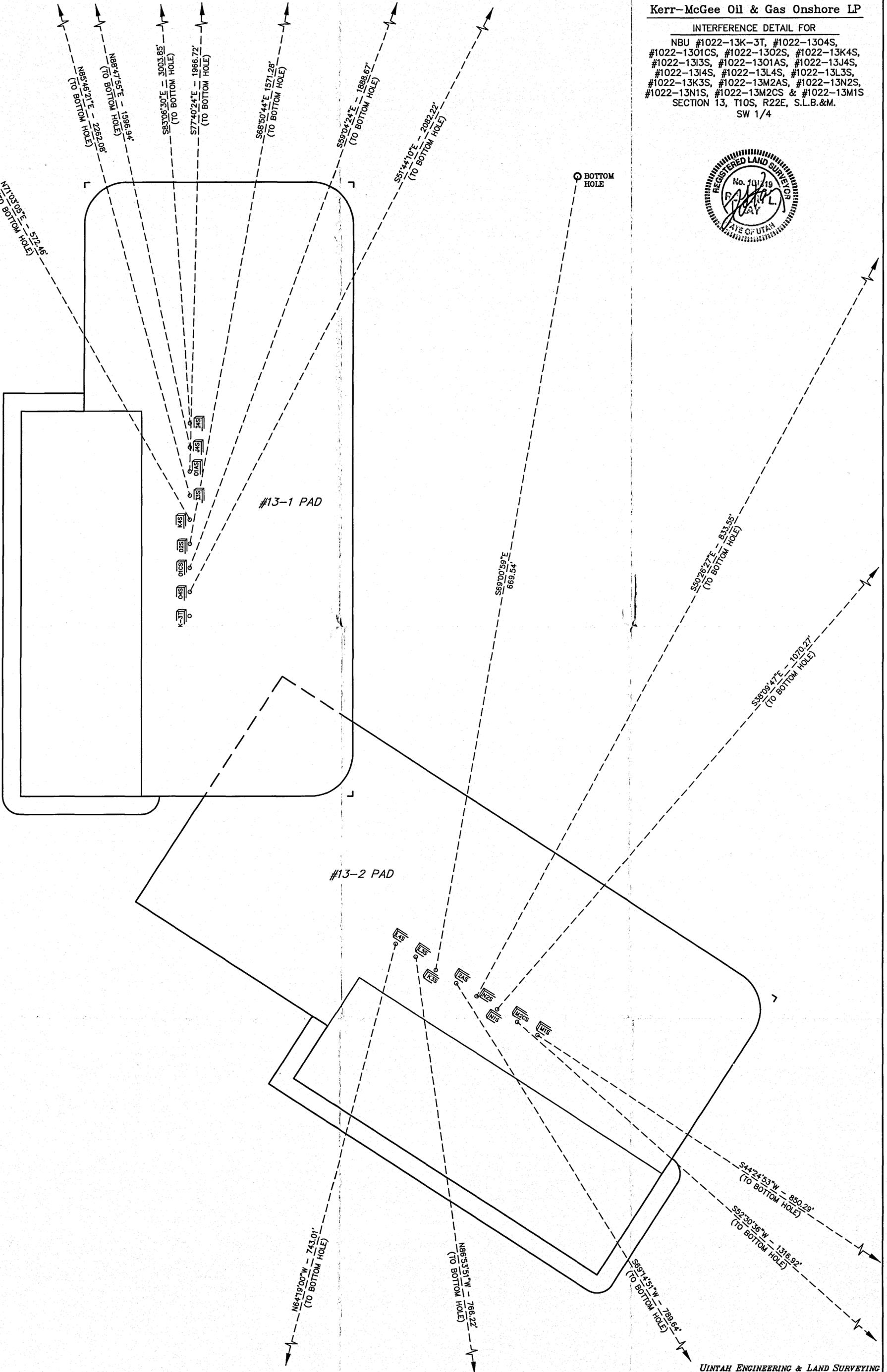
Total Pit Capacity
W/2' of Freeboard
= 34,330 Bbls. ±
Total Pit Volume
= 9,300 Cu. Yds.

INTERFERENCE DETAIL FOR

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



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



**WORKSHEET
APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 08/06/2007

API NO. ASSIGNED: 43-047-39473

WELL NAME: NBU 1022-13K4S
 OPERATOR: KERR-MCGEE OIL & GAS (N2995)
 CONTACT: SHEILA UPCHEGO

PHONE NUMBER: 435-781-7024

PROPOSED LOCATION:
 NESW 13 100S 220E
 SURFACE: 1739 FSL 1745 FWL
 BOTTOM: 1925 FSL 2280 FWL
 COUNTY: UINTAH
 LATITUDE: 39.94644 LONGITUDE: -109.3908
 UTM SURF EASTINGS: 637474 NORTHINGS: 4422843
 FIELD NAME: NATURAL BUTTES (630)

INSPECT LOCATN BY: / /		
Tech Review	Initials	Date
Engineering	DKD	8/31/07
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 Wbdr of Uncomm. Tract
 R649-3-11. Directional Drill

COMMENTS: Needs Permit (43-27-07)

STIPULATIONS: 1 - STATEMENT OF BASIS
2 - OIL SHALE
3 - Surface (sq Cont Stip

Application for Permit to Drill Statement of Basis

8/15/2007

Utah Division of Oil, Gas and Mining

Page 1

APD No	API WellNo	Status	Well Type	Surf Ownr	CBM
480	43-047-39473-00-00		GW	S	No
Operator	KERR-MCGEE OIL & GAS ONSHORE, LP		Surface Owner-APD		
Well Name	NBU 1022-13K4S		Unit		
Field	UNDESIGNATED		Type of Work		
Location	NESW 13 10S 22E S 1739 FSL 1745 FWL GPS Coord (UTM) 637474E 4422843N				

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

8/15/2007
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.

When the wells are completed the west tank on the west corner of the upper pad will be in view for about 1/8 mile along the river bottom. Even though rafters would have to look behind them to see this tank, Kerr McGee agreed to use a low profile tank for this location.

Application for Permit to Drill

Statement of Basis

8/15/2007

Utah Division of Oil, Gas and Mining

Page 2

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 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 1022-13K4S
API Number 43-047-39473-0 **APD No** 480 **Field/Unit** UNDESIGNATED
Location: 1/4,1/4 NESW **Sec** 13 **Tw** 10S **Rng** 22E 1739 FSL 1745 FWL
GPS Coord (UTM) 637484 4422801 **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
Wildlfe Habitat
Recreational
Existing Well Pad

New Road

Miles	Well Pad	Src Const Material	Surface Formation
0	Width 290 Length 510	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 1 **Sensitivity Level**

Characteristics / Requirements

The reserve pit is proposed on the northwest corner of the upper 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 320' 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

2007-08 Kerr McGee NBU 1022-13K4S

Casing Schematic

BHP $0.052(8210)11.6 = 4952 \text{ psi}$
 anticipate 5090 psi

Good $0.12(8210) = 985$
 $4952 - 985 = 3967 \text{ psi; MASP}$

BOPE SM ✓

9-5/8"
 MW 8.3
 Frac 19.3

Burst 2270
 $70\% 1589 \text{ psi}$

Max P @ Surf. shoe
 $.22(8210) = 1806$

$4952 - 1806 = 3146 \text{ psi}$
 ✓ Max press allowed @ Surf. shoe = 2100 psi
 test to 1589 psi (1 psi/ft) (fractured)

✓ A Legate PAD
 8/31/07

4-1/2"
 MW 11.6

Surface

12%
 18%

TOC @ 0.

Uinta

TOC @ 738. ✓
 to surf, w/5% w/o ✓
 963' Green River (Surf. stop propose to surface)
 1282' Birds Nest Water

1641' Mahogany

Surface
 2100. MD
 2100. TVD

4016' Wasatch

4300' ± BMSW

6252' Mesaverde

7093' MV U2

7642' MV L1

Production
 8292. MD
 8210. TVD

Well name:	2007-08 Kerr McGee NBU 1022-13K4S	
Operator:	Kerr McGee Oil & Gas Onshore L.P.	Project ID:
String type:	Surface	43-047-39473
Location:	Uintah County, Utah	

Design parameters:

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

Minimum design factors:

Collapse:
Design factor 1.125

Burst:
Design factor 1.00

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

Burst

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

No backup mud specified.

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

Non-directional string.

Re subsequent strings:

Next setting depth: 8,210 ft
Next mud weight: 11.600 ppg
Next setting BHP: 4,947 psi
Fracture mud wt: 19.250 ppg
Fracture depth: 2,100 ft
Injection pressure: 2,100 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	2100	9.625	32.30	H-40	ST&C	2100	2100	8.876	928

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

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

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

Date: August 27, 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.

Well name:	2007-08 Kerr McGee NBU 1022-13K4S	
Operator:	Kerr McGee Oil & Gas Onshore L.P.	Project ID:
String type:	Production	43-047-39473
Location:	Uintah County, Utah	

Design parameters:

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

Minimum design factors:

Collapse:
Design factor 1.125

Environment:

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

Burst:
Design factor 1.00

Cement top: Surface

Burst

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

No backup mud specified.

Tension:

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

Directional Info - Build & Drop

Kick-off point 2160 ft
Departure at shoe: 567 ft
Maximum dogleg: 2.5 °/100ft
Inclination at shoe: 0 °

Tension is based on buoyed weight.

Neutral point: 6,868 ft

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	8292	4.5	11.60	I-80	LT&C	8210	8292	3.875	723.6
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	4947	6360	1.286	4947	7780	1.57	79	212	2.69 J

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

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

Date: August 27, 2007
Salt Lake City, Utah

Remarks:
Collapse is based on a vertical depth of 8210 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

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



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

July 31, 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 1022-13K4S 1739'FSL, 1745'FWL (Surface)
1925'FSL, 2280'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 July 31, 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 1022-13K4S is located within the Natural Buttes Unit Area.
- Kerr McGee Oil & Gas Onshore L.P., is permitting this well as a directional well in order to minimize surface disturbance. Locating the well at the surface location and directionally drilling from this location, Kerr McGee Oil & Gas Onshore L.P., will be able to utilize the existing road and pipeline in the area.
- Furthermore, Kerr McGee Oil & Gas Onshore L.P. hereby certifies that it is the sole working interest owner within 460 feet of the entire directional well bore.

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

Sincerely,


Sheila Upchego
Senior Land Admin Specialist

RECEIVED

AUG 06 2007

DIV. OF OIL, GAS & MINING

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 4, 2007

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

Re: Natural Buttes Unit 1022-13K4S Well, 1739' FSL, 1745' FWL, NE SW, Sec. 13,
T. 10 South, R. 22 East, Bottom Location 1925' FSL, 2280' FWL, NE 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 43-047-39473.

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 Natural Buttes Unit 1022-13K4S
API Number: 43-047-39473
Lease: STUO-08512-ST

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

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

FORM 6

ENTITY ACTION FORM

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

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304739479	NBU 1022-13O2S		NESW	13	10S	22E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
<u>B</u>	99999	<u>2900</u>	11/13/2007		<u>11/26/07</u>		
Comments: MIRU PETE MARTIN BUCKET RIG. <u>WSMVD</u> SPUD WELL LOCATION ON 11/13/2007 AT 12:00 PM. <u>BHL = SWSE</u>							

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304739476	NBU 1022-13O1CS		NESW	13	10S	22E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
<u>B</u>	99999	<u>2900</u>	11/13/2007		<u>11/24/07</u>		
Comments: MIRU PETE MARTIN BUCKET RIG. <u>WSMVD</u> SPUD WELL LOCATION ON 11/13/2007 AT 9:00 AM. <u>BHL = SWSE</u>							

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304739473	NBU 1022-13K4S		NESW	13	10S	22E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
<u>B</u>	99999	<u>2900</u>	11/13/2007		<u>11/26/07</u>		
Comments: MIRU PETE MARTIN BUCKET RIG. <u>WSMVD</u> SPUD WELL LOCATION ON 11/13/2007 AT 1500 HRS <u>BHL = NESW</u>							

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)

Sheila Upchego
Signature

SENIOR LAND SPECIALIST

11/14/2007

Title

Date

(5/2000)

RECEIVED

NOV 14 2007

DIV. OF OIL, GAS & MINING

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

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS		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 1022-13K4S
3. ADDRESS OF OPERATOR: 1368 SOUTH 1200 EAST CITY VERNAL STATE UT ZIP 84078		9. API NUMBER: 4304739473
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1739'FSL, 1745'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>WELL SPUD</u>
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

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

MIRU PETE MARTIN BUCKET RIG. DRILLED 20" CONDUCTOR HOLE TO 40'. RAN 14" 36.7# SCHEDULE 10 PIPE. CMT W/28 SX READY MIX.

SPUD WELL LOCATION ON 11/13/2007 AT 1500 HRS.

NAME (PLEASE PRINT) <u>SHEILA UPCHEGO</u>	TITLE <u>SENIOR LAND ADMIN SPECIALIST</u>
SIGNATURE	DATE <u>11/14/2007</u>

(This space for State use only)

RECEIVED
NOV 20 2007

DIV. OF OIL, GAS & MINING

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

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: STUO-08512-ST
2. NAME OF OPERATOR: KERR MCGEE OIL & GAS ONSHORE LP		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: 1368 SOUTH 1200 EAST CITY VERNAL STATE UT ZIP 84078		7. UNIT or CA AGREEMENT NAME: UNIT #891008900A
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1739'FSL, 1745'FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NESW 13 10S 22E		8. WELL NAME and NUMBER: NBU 1022-13K4S
		9. API NUMBER: 4304739473
		10. FIELD AND POOL, OR WILDCAT: NATURAL BUTTES
		COUNTY: UINTAH
		STATE: UTAH

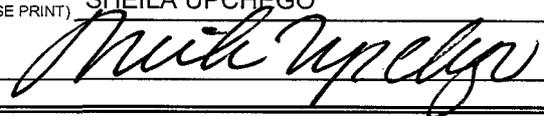
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> 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: SET SURFACE CSG.
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

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

MIRU BILL MARTIN AIR RIG ON 12/14/2007. DRILLED 12 1/4" SURFACE HOLE TO 2160'. RAN 9 5/8" 36# J-55 SURFACE CSG. LEAD CMT W/250 SX HIFILL CLASS G @11.0 PPG 3.82 YIELD. TAILED CMT W/200 SX PREM CLASS G @15.8 PPG 1.15 YIELD. RETURNS 85 BBL INTO DISPLACEMENT NO LEAD CMT TO SURFACE 300 PSI LIFT. RAN 200' OF 1" PIPE. CMT W/100 SX PREM CLASS G @15.8 PPG 1.15 YIELD. DOWN 1" PIPE NO CMT TO SURFACE WOC. TOP OUT W/125 SX PREM CLASS G @15.8 PPG 1.15 YIELD. DOWN BACKSIDE GOOD CMT TO SURFACE HOLE STAYED FULL.

WORT.

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

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

(This space for State use only)

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

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: STUO-08512-ST
2. NAME OF OPERATOR: KERR MCGEE OIL & GAS ONSHORE LP		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: 1368 SOUTH 1200 EAST CITY VERNAL STATE UT ZIP 84078		7. UNIT or CA AGREEMENT NAME: UNIT #891008900A
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1739'FSL, 1745'FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NESW 13 10S 22E		8. WELL NAME and NUMBER: NBU 1022-13K4S
		9. API NUMBER: 4304739473
		10. 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 (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: <u>FINAL DRILLING OPERATIONS</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.

FINISHED DRILLING FROM 2160' TO 8328' ON 03/05/2008. RAN 4 1/2" 11.6 # I-80 PRODUCTION CSG. LEAD CMT W/310 SX PREM LITE II @11.0 PPG 3.38 YIELD. TAILED CMT W/1200 SX 50/50 POZ @14.3 PPG 1.31 YIELD. DROP PLUG & DISPLACE W/128.9 BBLs WATER BUMP PLUG @3300 PSI (500 PSI OVER CIRC PSI) FLOAT HELD W/1 BBL GOOD RETURNS THROUGH OUT JOB W/30 BBL OF LEAD TO PIT. SET SLIPS W/100K N/D MAKE ROUGH CUT LAYOUT SAME CLEAN PITS.

RELEASED ENSIGN RIG 83 ON 03/07/2008 AT 1800 HRS.

NAME (PLEASE PRINT) <u>SHEILA UPCHEGO</u>	TITLE <u>SENIOR LAND ADMIN SPECIALIST</u>
SIGNATURE	DATE <u>3/11/2008</u>

(This space for State use only)

RECEIVED

MAR 17 2008

DIV. OF OIL, GAS & MINING

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

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS		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 1022-13K4S
3. ADDRESS OF OPERATOR: 1368 SOUTH 1200 EAST CITY VERNAL STATE UT ZIP 84078		9. API NUMBER: 4304739473
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1739'FSL, 1745'FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NESW 13 10S 22E		10. 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 (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: PRODUCTION START-UP
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

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

THE SUBJECT WELL LOCATION WAS PLACED ON PRODUCTION ON 05/01/2008 AT 1300 HRS.

PLEASE REFER TO THE ATTACHED CHRONOLOGICAL WELL HISTORY.

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

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

(This space for State use only)

Wins No.: 95383

NBU 1022-13L4S

Well Operations Summary Long

Operator KERR-MCGEE OIL & GAS ONSHORE LP	FIELD NAME NATURAL BUTTES	SPUD DATE 10/26/2007	GL 5,287	KB 5306	ROUTE
API 4304739486	STATE UTAH	COUNTY UINTAH	DIVISION ROCKIES		
Long/Lat.: 39.94615 / -109.39272	Q-Q/Sect/Town/Range: / 13 / 10S / 22E	Footages: 1,638.00' FSL 1,370.00' FWL			

Wellbore: NBU 1022-13L4S

MTD 8,329	TVD 8,206	PBMD	PBTVD
EVENT INFORMATION:		START DATE: 10/26/2007	END DATE: 2/28/2008
EVENT ACTIVITY: DRILLING		DATE WELL STARTED PROD.:	
OBJECTIVE: DEVELOPMENT		Event End Status: COMPLETE	
OBJECTIVE 2: ORIGINAL			
REASON: MV - WHR PAD#2			

RIG OPERATIONS:	Begin Mobilization	Rig On Location	Rig Charges	Rig Operation Start	Finish Drilling	Rig Release	Rig Off Location
BILL JRS RATHOLE DRILLIN	11/03/2007	11/03/2007	11/03/2007	11/03/2007	11/06/2007	11/06/2007	11/06/2007

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode	P/U	Operation
10/26/2007							
SUPERVISOR: LEW WELDON							
	0:00 - 12:00	12.00	DRLCON	12	F	P	WAIT ON PETE MARTIN BUCKET RIG
	12:00 - 16:00	4.00	DRLCON	02	A	P	MOVE IN AND RIG UP BUCKET RIG SPUD WELL @ 1200 HR 10/26/07 DRILL AND SET 40' OF SCHEDULE 10 PIPE DRILL RODENT HOLES FOR RIG 54 BLM AND STATE NOTIFIED OF SPUD
	16:00 - 0:00	8.00	DRLCON	12	F	P	WOAR
11/3/2007							
SUPERVISOR: LEW WELDON							
	0:00 - 10:00	10.00	DRLSUR	12	F	P	WAIT ON BILL JR AIR RIG
	10:00 - 18:00	8.00	DRLSUR	02	A	P	RIG DRILLING AHEAD NO WATER
	18:00 - 23:00	5.00	DRLSUR	05	I	X	LOST SNAP RING OFF HAMMER IN HOLE TOO
	23:00 - 0:00	1.00	DRLSUR	12	E	X	WAIT ON MAGNET FROM VERNAL
11/4/2007							
SUPERVISOR: LEW WELDON							
	0:00 - 2:00	2.00	DRLSUR	12	E	X	WAIT ON MAGNET FROM VERNAL
	2:00 - 5:00	3.00	DRLSUR	16	A	X	RIH WITH MAGNET RETIVE SNAP RING TOO
	5:00 - 6:00	1.00	DRLSUR	02	A	P	TIH WITH TRICONE AND DRILLING AHEAD AT REPORT TIME

Wins No.: 95383

NBU 1022-13L4S

API No.: 4304739486

5:00 - 6:00	1.00	DRLSUR	02	A	P	TIH WITH TRICONE AND DRILLING AHEAD AT REPORT TIME
6:00 - 18:00	12.00	DRLSUR	02	A	P	RIG DRILLING AHEAD HIT TRONA WATER @ 1400' CIRCULATE HOLE WITH SKID PUMP DISCOVERED PIN HOLE IN KELLY HOSE TOO AND WAIT FOR KELLY HOSE FROM VERNAL
18:00 - 21:00	3.00	DRLSUR	12	E	Z	WAIT ON KELLY HOSE
21:00 - 0:00	3.00	DRLSUR	02	A	P	RIG DRILLING AHEAD CIRCULATING WITH SKID PUMP

11/5/2007

SUPERVISOR: LEW WELDON

6:00 - 17:00	11.00	DRLSUR	02	A	P	RIG T/D @ 2170' CONDITION HOLE 1 HR NO CIRCULATION
17:00 - 20:00	3.00	DRLSUR	05	A	P	TRIP DP OUT OF HOLE
20:00 - 23:00	3.00	DRLSUR	11	B	P	RUN 2128' OF 9 5/8 CSG AND RIG DOWN AIR RIG
23:00 - 0:00	1.00	DRLSUR	12	F	P	WAIT ON BIG 4 TO SHOW UP AND GET RIGGED UP TO CEMENT

11/6/2007

SUPERVISOR: LEW WELDON

0:00 - 1:00	1.00	DRLSUR	12	F	Z	WAIT ON BIG 4 TO SHOW UP AND GET RIGGED UP TO CEMENT
1:00 - 2:00	1.00	DRLSUR	15	A	P	CEMENT 1ST STAGE WITH 300 SKS NO RETURNS TO PIT
2:00 - 2:30	0.50	DRLSUR	15	A	P	1ST TOP JOB 150 SKS DOWN BS WOC
2:30 - 4:30	2.00	DRLSUR	15	A	P	2ND TOP JOB 100 SKS DOWN BS WOC
4:30 - 6:00	1.50	DRLSUR	12	B	P	WAIT ON CMT AT REPORT TIME
6:00 - 7:00	1.00	DRLSUR	12	B	P	WAIT ON CMT
7:00 - 7:30	0.50	DRLSUR	15	A	P	3RD TOP JOB 125 SKS DOWN BS WOC
7:30 - 9:30	2.00	DRLSUR	15	A	P	4TH TOP JOB 125 SKS DOWN BS WOC
9:30 - 12:00	2.50	DRLSUR	15	A	P	5TH TOP JOB 100 SKS DOWN BS WOC
12:00 - 14:30	2.50	DRLSUR	15	A	P	6TH TOP JOB 225 SKS DOWN BS GOOD CMT TO SURFACE AND STAYED AT SURFACE

12:00 - 14:30	2.50	DRLSUR	15	A	P	6TH TOP JOB 225 SKS DOWN BS GOOD CMT TO SURFACE AND STAYED AT SURFACE
14:30 - 0:00	9.50	DRLSUR	12	F	P	NO VISIBLE LEAKS WORT

2/18/2008

SUPERVISOR: KENT MOORE

0:00 - 6:00	6.00	RDMO	01	E	P	RDRT
6:00 - 11:00	5.00	RDMO	01	C	P	SKID RIG 20'
11:00 - 16:00	5.00	RDMO	01	B	P	RURT
16:00 - 18:00	2.00	DRLPRO	13	A	P	N/UP BOP-TORQUE DOWN - N/UP ROTATING HEAD, FLOWLINE
18:00 - 23:00	5.00	DRLPRO	13	C	P	TEST BOP, RAMS, CHOKE, CHOKE LINE, KELLY, KELLY VALVE & FLOOR VALVES 250 LOW 5000 HIGH, ANNULAR 250 LOW 2500 HIGH, CASING 1500
23:00 - 0:00	1.00	DRLPRO	05	A	P	P/UP DIRECTIONAL ASSY - SET MOTOR TO 1.5 deg

2/19/2008

SUPERVISOR: KENT MOORE

0:00 - 2:00	2.00	DRLPRO	05	A	P	P/UP DIRECTIONAL ASSY & CHECK
2:00 - 7:00	5.00	DRLPRO	05	A	P	RIH TRIP CHECK HWDP - RIH DP TO 2023'
7:00 - 7:30	0.50	DRLPRO	07	A	P	CHANGE DRILL PIPE SLIP DIES
7:30 - 8:30	1.00	DRLPRO	13	A	P	INSTALL ROTATING HEAD RUBBER & CENTER BOP
8:30 - 11:00	2.50	DRLPRO	02	F	P	DRILL CMT, FE & RATHOLE TO 2189'
11:00 - 12:30	1.50	DRLPRO	02	D	P	DRILL F/2189' TO 2273'
12:30 - 14:30	2.00	DRLPRO	08	E	Z	TROUBLESHOOT MWD EQUIP. - NO SIGNAL TO SURFACE
14:30 - 16:00	1.50	DRLPRO	05	I	Z	POOH CHECK MWD EQUIPMENT
16:00 - 17:00	1.00	DRLPRO	08	E	Z	CHECK MWD - BAD BATTERY
17:00 - 18:30	1.50	DRLPRO	05	I	Z	RIH

Wins No.: 95383

NBU 1022-13L4S

API No.: 4304739486

17:00 - 18:30	1.50	DRLPRO	05	I	Z	RIH
18:30 - 0:00	5.50	DRLPRO	02	D	P	DRILL/SLIDE F/2273' TO 2609' (336' @ 61fph) MW 8.8/38

2/20/2008

SUPERVISOR: KENT MOORE

0:00 - 14:00	14.00	DRLPRO	02	D	P	DRILL/SLIDE F/2609' TO 3349' (740' @ 52.9fph) MW 9.0/42
14:00 - 14:30	0.50	DRLPRO	06	A	P	RIG SER
14:30 - 0:00	9.50	DRLPRO	02	D	P	DRILL/SLIDE F/3349' TO 3864' (515' @ 542fph) MW 9.0/42

2/21/2008

SUPERVISOR: KENT MOORE

0:00 - 15:00	15.00	DRLPRO	02	D	P	DRILL/SLIDE F/3864' TO 4519' (655' @ 43.7fph) MW 9.2/41
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/4519' TO 4868' (349' @ 41.0 fph) MW 9.5/44

2/22/2008

SUPERVISOR: KENT MOORE

0:00 - 16:00	16.00	DRLPRO	02	D	P	DRILL/SLIDE F/4868' TO 5491' (623' @ 38.9fph) MW 9.5/42
16:00 - 16:30	0.50	DRLPRO	06	A	P	RIG SER
16:30 - 0:00	7.50	DRLPRO	02	D	P	DRILL/SLIDE F/5491' TO 5702' (211' @ 28.2fph) MW 9.7/42

2/23/2008

SUPERVISOR: KENT MOORE

0:00 - 14:00	14.00	DRLPRO	02	D	P	DRILL SLIDE F/5702' TO 6069' (367' @ 26.2fph) MW 9.8/43
14:00 - 14:30	0.50	DRLPRO	06	A	P	RIG SER
14:30 - 0:00	9.50	DRLPRO	02	D	P	DRILL/SLIDE F/6069' TO 6389' (320' @ 33.7fph) MW 9.8/43

2/24/2008

SUPERVISOR: KENT MOORE

0:00 - 8:30	8.50	DRLPRO	02	D	P	DRILL/SLIDE F/6389' TO 6638' (249' @ 29.3fph) MW 9.8/42
8:30 - 12:00	3.50	DRLPRO	05	A	P	TFNB/MM - LDN DIRECTIONAL ASSY - P/UP BIT #2

16:30 - 23:00	6.50	DRLPRO	05	F	P	LDDP/BHA - BREAK KELLY
23:00 - 23:30	0.50	DRLPRO	05	F	P	RETRIEVE WEARBUSHING
23:30 - 0:00	0.50	DRLPRO	11	A	P	HPJSM - R/UP & RUN 4 1/2 PROD CASING

2/28/2008

SUPERVISOR: KENT MOORE

0:00 - 7:30	7.50	CSG	11	B	P	RUN 199 JTS 4 1/2 PROD CASING - SET @ 8415'
7:30 - 8:30	1.00	CSG	04	E	P	CIRC BTMMS UP
8:30 - 11:30	3.00	CSG	15	A	P	HPJSM - R/UP BJ - TEST LINES 7000 PSI - CEMENT 4 1/2 PROD CASING - PUMPED 20 BBLS MUD CLEAN, 20 SKS SCAVENGER 9.5 PPG 8.45 YIELD, 300 SKS LEAD 11.0 PPG 3.38 YIELD, 1125 SKS TAIL 14.3 PPG 1.31 YIELD - DROPPED PLUG @ DISPLACED W/130.16 BBLS FRESH WATER @ 2700 PSI, BUMPED PLUG W/3300 PSI - CHECK FLOATS , FLOATS DID NOT HOLD - REBUMPED PLUG AND HELD, FLOATS DID NOT HOLD, REBUMP PLUG, FLOATS DID NOT HOLD - REBUMP PLUG & SHUT IN W/3300 PSI - GOOD RETURNS DURING CMT JOB W/30 BBLS CEMENT TO SURFACE
11:30 - 15:00	3.50	CSG	12	B	S	WOC - (TRANSFER 1000 BBLS MUD TO RIG E-83 - CLEAN RIG TANKS)
15:00 - 18:00	3.00	CSG	13	A	P	N/DN BOPE - SET SLIPS 4 1/2 PROD CSG W/100K STRING WT - ROUGH CUT CSG - L/OUT SAME - RELEASE RIG @ 18:00 HRS 2/28/08, RESERVE PIT 2/3 FULL - PIT LINER OK
18:00 - 0:00	6.00	RDMO	01	E	P	RDRT

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

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

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

SUPERVISOR: KENT MOORE

Wins No.: 95383

NBU 1022-13L4S

API No.: 4304739486

EVENT INFORMATION:

EVENT ACTIVITY: COMPLETION

START DATE: 4/24/2008

OBJECTIVE: DEVELOPMENT

END DATE:

OBJECTIVE 2: ORIGINAL

DATE WELL STARTED PROD.:

REASON: MV - WHR PAD#2

Event End Status:

RIG OPERATIONS:

Begin Mobilization

Rig On Location

Rig Charges

Rig Operation Start

Finish Drilling

Rig Release

Rig Off Location

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 - 17:00	9.50	COMP	36	B	P	STG 1) RIH W/ 3 3/8" EXP GNS, 23 GRM, .36 HOLES, 90 DEG PHASING. PERFORATE 8,293' - 95' 8 SPF, 8,270' - 73' 8 SPF, 40 HLOES. POOH WHP 0 PSI, BRK 4,658 PSI @ 2.9 BPM, ISIP 2,730 PSI, FG .77. PUMP 100 BBLS @ 50 BPM @ 4,700 PSI = 31 OF 40 HOLES OPEN 77% MP 6,394 PSI, MR 50.8 BPM, AP 4,690 PSI, AR 50.5 BPM. ISIP 2,599 PSI, FG .75, NPI -131 PSI. PMP 604 BBLS OF SW & 10,894 LBS 30/50 SAND & 4,532 LBS OF 20/40 RESIN SAND. TOTAL PROP 15,426 LBS
							STG 2) RIH W/ 3 3/8" EXP GNS, 23 GRM, .36 HOLES, 90 DEG PHASING. PU 4 1/2" 8K BAKER CBP & SET @ 8,086' PERFORATE 8,053' - 56' 4 SPF, 7,892' - 94' 4 SPF, 7,881' - 86' 4 SPF, 40 HLOES. POOH WHP 2,100 PSI, BRK 3,731 PSI @ 2.4 BPM, ISIP 2,468 PSI, FG .75. PUMP 100 BBLS @ 49.5 BPM @ 4,500 PSI = 37 OF 40 HOLES OPEN 91% MP 5,529 PSI, MR 49.8 BPM, AP 4,657 PSI, AR 49.5 BPM. ISIP 2,844 PSI, FG .80, NPI 376 PSI. SWI SDFN PMP 3,470 BBLS OF SW & 127,440 LBS 30/50 SAND & 5,000 LBS OF 20/40 RESIN SAND. TOTAL PROP 132,440 LBS
4/25/2008							
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 3) RIH W/ 3 3/8" EXP GNS, 23 GRM, .36 HOLES, 120 DEG PHASING. PU 4 1/2" 8K BAKER CBP & SET @ 7,732' PERFORATE 7,688' - 7,702' 3 SPF, 42 HLOES. POOH WHP 2,050 PSI, BRK 3,201 PSI @ 1.8 BPM, ISIP 2,526 PSI, FG .77.
PUMP 100 BBLS @ 49.6 BPM @ 5,000 PSI = 30 OF 42 HOLES OPEN 72%
MP 5,530 PSI, MR 49.6 BPM, AP 5,029 PSI, AR 49.7 BPM. ISIP 2,591 PSI, FG .82, NPI 425 PSI.
PMP 679 BBLS OF SW & 16,204 LBS 30/50 SAND & 4,800 LBS OF 20/40 RESIN SAND. TOTAL PROP 21,004 LBS

STG 4) RIH W/ 3 3/8" EXP GNS, 23 GRM, .36 HOLES, 90 DEG PHASING. PU 4 1/2" 8K BAKER CBP & SET @ 7,493' PERFORATE 7,461' - 63' 4 SPF, 7,327' - 29' 4 SPF, 7,243' - 47' 4 SPF, 7,226' - 28' 4 SPF, 40 HLOES. POOH WHP 2,100 PSI, BRK 2,365 PSI @ 3.1 BPM, ISIP 2,244 PSI, FG .75.
PUMP 100 BBLS @ 50 BPM @ 4,700 PSI = 31 OF 40 HOLES OPEN 77%
MP 5,424 PSI, MR 50.1 BPM, AP 4,778 PSI, AR 50 BPM. ISIP 2,404 PSI, FG .77, NPI 160 PSI.
PMP 708 BBLS OF SW & 16,714 LBS 30/50 SAND & 5,301 LBS OF 20/40 RESIN SAND. TOTAL PROP 22,015 LBS

STG 5) RIH W/ 3 3/8" EXP GNS, 23 GRM, .36 HOLES, 90 120 & 180 DEG PHASING. PU 4 1/2" 8K BAKER CBP & SET @ 7,106' PERFORATE 7,073' - 76' 4 SPF, 6,992' - 95' 3 SPF, 6,974' - 77' 2 SPF, 6,950' - 54' 4 SPF, 43 HLOES. POOH BRK DWN PERF'S @ 2763#, EST INJ RT @ 50 BPM @ 4300#, ISIP 1718#, FG .68, TREAT STG 5 W/ 67,903# SAND TAILED IN W/ 5000# TLC SAND W/ SLK WTR. TOT CL FL 1847 BBLS. ISIP 2365#, NPI 647#, FG .78

STG 6: P/U 3 3/8" PERF GUNS & 4 1/2" CFP & RIH. SET CFP @ 6884', P/U SHOOT 20 HOLES F/ 6849' - 54', P/U SHOOT 24 HOLES F/ 6823' - 31'. POOH. BRK DWN PERF'S @ 2688#, EST INJ RT @ 50.1BPM @ 3850#. ISIP 2181#, FG .76, TREAT STG 6 W/ 28,224# SAND TAILED IN W/ 5000# TLC SAND W/ SLK WTR. TOT CL FL 2471#, NPI 290#, FG .80

STG 7: P/U 3 3/8" PERF GUNS & 4 1/2" CFP & RIH. SET CFP @ 6690', P/U SHOOT 8 HOLES F/ 6658' - 60', P/U SHOOT 32 HOLES F/ 6627' - 35'. POOH. BRK DWN PERF'S @ 4715#, EST INJ RT @ 52.1 BPM @ 4805#, ISIP 1972#, FG .74, TREAT STG 7 W/ 22,647# SAND TAILED IN W/ 5000# TLC SAND W/ SLK WTR. TOT CL FL 722 BBLS. ISIP 2341#, NPI 369#, FG .79

STG 8: P/U 3 3/8" PERF GUNS & 4 1/2" CFP & RIH. SET CFP @ 6550', P/U SHOOT 42 HOLES F/ 6506' - 20'. POOH. BRK DWN PERF'S @ 1920#, EST INJ RT @ 51 BPM @ 4070#, ISIP 1794#, FG .72, TREAT STG 8 W/ 29,229# SAND TAILED IN W/ 5000# TLC SAND W/ SLK WTR. TOT CL FL 876 BBLS. ISIP 2102#, NPI 308#, FG .76

P/U 4 1/2" CFP & RIH. SET KILL PLUG @ 6150'. POOH.

PUMP UP TO 4,500 PSI CBP CONVERTED
WELL COMPLETED

5/1/2008

SUPERVISOR: DOUG CHIVERS

13:00 -

PROD

WELL TURNED TO SALES @ 1300 HR ON 5/01/2008 - FCP 100#, TP N/A, 20/64" CK, 342 MCFD, 840 BWPD

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

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: STUO-08512-ST
2. NAME OF OPERATOR: KERR MCGEE OIL & GAS ONSHORE LP		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: 1368 SOUTH 1200 EAST CITY VERNAL STATE UT ZIP 84078		7. UNIT or CA AGREEMENT NAME: UNIT #891008900A
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1739'FSL, 1745'FWL		8. WELL NAME and NUMBER: NBU 1022-13K4S
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NESW 13 10S 22E		9. API NUMBER: 4304739473
COUNTY: UINTAH		10. FIELD AND POOL, OR WILDCAT: NATURAL BUTTES
STATE: UTAH		

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input 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: PRODUCTION START-UP
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

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

THE SUBJECT WELL LOCATION WAS PLACED ON PRODUCTION ON 05/15/2008 AT 8:00 PM.

PLEASE REFER TO THE ATTACHED CHRONOLOGICAL WELL HISTORY.

RECEIVED
JUN 18 2008
DIV. OF OIL, GAS & MINING

NAME (PLEASE PRINT) SHEILA UPCHEGO	TITLE SENIOR LAND ADMIN SPECIALIST
SIGNATURE 	DATE 6/16/2008

(This space for State use only)

Wins No.: 95375

NBU 1022-13K4S

Well Operations Summary Long

Operator KERR-MCGEE OIL & GAS ONSHORE LP	FIELD NAME NATURAL BUTTES	SPUD DATE 11/13/2007	GL 5,293	KB 5310	ROUTE
API 4304739473	STATE UTAH	COUNTY UINTAH	DIVISION ROCKIES		
Long/Lat.: 39.94639 / -109.39116	Q-Q/Sec/Town/Range: / 13 / 10S / 22E		Footages: 1,739.00' FSL 1,745.00' FWL		

Wellbore: NBU 1022-13K4S

MTD 8,328	TVD 8,251	PBMD	PBTVD
EVENT INFORMATION:	EVENT ACTIVITY: DRILLING	START DATE: 11/13/2007	
	OBJECTIVE: DEVELOPMENT	END DATE: 3/7/2008	
	OBJECTIVE 2:	DATE WELL STARTED PROD.: .	
	REASON:	Event End Status: COMPLETE	

RIG OPERATIONS:	Begin Mobilization	Rig On Location	Rig Charges	Rig Operation Start	Finish Drilling	Rig Release	Rig Off Location
BILL JRS RATHOLE DRILLIN	11/30/2007	11/30/2007	11/30/2007	11/30/2007	12/16/2007	12/16/2007	12/16/2007

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

11/13/2007

SUPERVISOR: LEW WELDON

15:00 - 21:00	6.00	DRLCON	02	P			MOVE IN AND RIG UP BUCKET RIG SPUD WELL @ 1500 HR 11/13/07 DRILL AND SET 40' OF SCHEDULE 10 PIPE DRILL RODENT HOLES FOR RIG 83 BLM AND STATE NOTIFIED OF SPUD
---------------	------	--------	----	---	--	--	---

21:00 - 0:00	3.00	DRLCON	12	P			WOAR
--------------	------	--------	----	---	--	--	------

11/30/2007

SUPERVISOR: LEW WELDON

13:00 - 14:30	1.50	DRLSUR	02	P			MOVE IN AND RIG UP AIR RIG SPUD WELL @ 1300 HR 11/30/07 DRILL TO 70' AND HAMMER QUIT POOH AND SDFN TO REPAIR HAMMER
---------------	------	--------	----	---	--	--	---

14:30 - 0:00	9.50	DRLSUR	12	Z			SDFN TO REPAIR HAMMER
--------------	------	--------	----	---	--	--	-----------------------

12/1/2007

SUPERVISOR: LEW WELDON

0:00 - 6:00	6.00	DRLSUR	12	P			WAIT ON BILL JR SDFN
-------------	------	--------	----	---	--	--	----------------------

6:00 - 18:00	12.00	DRLSUR	02	P			RIH TO 70' AND DRILL TO 780' SDFN
--------------	-------	--------	----	---	--	--	-----------------------------------

18:00 - 0:00	6.00	DRLSUR	12	P			SDFN
--------------	------	--------	----	---	--	--	------

12/2/2007

SUPERVISOR: LEW WELDON

0:00 - 6:00	6.00	DRLSUR	12	P			WAIT ON BILL JR AIR RIG
-------------	------	--------	----	---	--	--	-------------------------

6:00 - 11:00	5.00	DRLSUR	02	P	RIH TO 780' AND DRILL TO 1020' T/D PIOLET HOLE CONDITION HOLE 1 HR AND POOH
11:00 - 0:00	13.00	DRLSUR	12	P	WOAR

12/14/2007

SUPERVISOR: LEW WELDON

0:00 - 20:30	20.50	DRLSUR	12	P	WAIT ON BILL JR AIR RIG
20:30 - 0:00	3.50	DRLSUR	02	P	MOVE OVER AND RIG UP AIR RIG RIH TO 1020' AND SPUD WELL @ 2030 HR 12/14/07 DA AT REPORT TIME 1230'

12/15/2007

SUPERVISOR: LEW WELDON

0:00 - 12:00	12.00	DRLSUR	02	P	RIG DRILLING AHEAD HIT TRONA WATER @ 1410' CIRCULATING WITH SKID PUMP FULL RETURNS 1620'
12:00 - 0:00	12.00	DRLSUR	02	P	RIG DRILLING AHEAD CIRCULATING WITH SKID PUMP FULL RETURNS 1920'

12/16/2007

SUPERVISOR: LEW WELDON

0:00 - 12:00	12.00	DRLSUR	02	P	RIG T/D @ 2160' CONDITION HOLE 1 HR WITH FULL RETURNS
12:00 - 15:00	3.00	DRLSUR	05	P	TRIP DP OUT OF HOLE
15:00 - 17:00	2.00	DRLSUR	11	P	RUN 2123' OF 9 5/8 CSG AND 200' OF 1" PIPE RIG DOWN AIR RIG
17:00 - 18:00	1.00	DRLSUR	15	P	CEMENT 1ST STAGE WITH 250 SKS LEAD @ 11# 3.82 23 GAL/SK AND 200 SKS TAIL @ 15.8# 1.15 5.0 GAL/ SK REUTRNS 85 BBL INTO DISP. NO LEAD CMT TO SURFACE 300 PSI LIFT
18:00 - 18:30	0.50	DRLSUR	15	P	1ST TOP JOB 100 SKS DOWN 1" PIPE NO CMT TO SURFACE WOC
18:30 - 22:30	4.00	DRLSUR	15	P	2ND TOP JOB 125 SKS DOWN BS GOOD CMT TO SURFACE AND STAYED AT SURFACE
22:30 - 22:30	0.00	DRLSUR	12	P	NO VISIBLE LEAKS WORT

2/25/2008

SUPERVISOR: STUART NEILSON

3:00 - 22:30	19.50	DRLPRO	01	A	P	SKID RIG TO NBU 1022-13K4S
22:30 - 0:00	1.50	DRLPRO	13	A	P	N/U BOP & RUN FLARE LINES

22:30	-	0:00	1.50	DRLPRO	13	A	P	N/U BOP & RUN FLARE LINES
2/26/2008								
SUPERVISOR: STUART NEILSON								
0:00	-	5:00	5.00	DRLPRO	13	C	P	TEST BOP - TEST RAMS & ALL VALVES TO 250 LOW - 5000 HIGH, ANN TO 2500, SURFACE CASING TO 1500
5:00	-	14:00	9.00	DRLPRO	05	A	P	P/U & INSPECT DIR & HWDP & KELLY ON TIH, INSTALL ROT RUBBER TAG CEMENT @ 2017'
14:00	-	16:30	2.50	DRLPRO	02	F	P	DRLG CEMENT & F/E
16:30	-	0:00	7.50	DRLPRO	02	D	P	SPUD WELL @ 16:30 2/26/08, SURVEY-DRLG-SLIDE F/ 2160 TO 2616 453' @ 60.4' PH W 8.7 - 35 VIS
2/27/2008								
SUPERVISOR: STUART NEILSON								
0:00	-	15:00	15.00	DRLPRO	02	D	P	DRLG-SLIDE F 2616 TO 3420 804' @ 53.6' PH W 8.8 PPG - 35 VIS
15:00	-	15:30	0.50	DRLPRO	06	A	P	SERVICE RIG
15:30	-	0:00	8.50	DRLPRO	02	D	P	DRLG-SLIDE F/3420 TO 3820 400' @ 47' PH W/ 9.1 PPG - 40 VIS
2/28/2008								
SUPERVISOR: STUART NEILSON								
0:00	-	15:30	15.50	DRLPRO	02	D	P	DRLG ^ SLIDE F/ 3820 TO 4468 648' @ 41.8' PH W/ 9.5 PPG 40 VIS
15:30	-	16:00	0.50	DRLPRO	06	A	P	SERVICE RIG
16:00	-	0:00	8.00	DRLPRO	02	D	P	DRLG & SLIDE F/ 4468 TO 4758 290' @ 36.25' PH W/ 9.6 PPG 41 VIS
2/29/2008								
SUPERVISOR: STUART NEILSON								
0:00	-	12:30	12.50	DRLPRO	02	D	P	DRLG-SLIDE F/ 4758 TO 5117 359' & 28.7' PH W/ 10.2 PPG - 40 VIS
12:30	-	13:00	0.50	DRLPRO	06	A	P	SERVICE RIG
13:00	-	0:00	11.00	DRLPRO	02	D	P	DRLG-SLIDE F/ 5117 TO 5488 371' @ 33.7' PH W/ 10.2 PPG - 40 VIS
3/1/2008								
SUPERVISOR: STUART NEILSON								

Wins No.: 95375

NBU 1022-13K4S

API No.: 4304739473

0:00 - 13:00	13.00	DRLPRO	02	D	P	DRLG & SLIDE F/ 5488 TO 5889 401' @ 30.8' PH W/ 10.2 PPG - 40 VIS
13:00 - 13:30	0.50	DRLPRO	06	A	P	SERVICE RIG
13:30 - 0:00	10.50	DRLPRO	02	D	P	DRLG & SLIDE F/ 5889 TO 6145 256' @ 24.3' PH W/ 10.3 PPG - 41 VIS

3/2/2008

SUPERVISOR: STUART NEILSON

0:00 - 12:00	12.00	DRLPRO	02	D	P	DRLG F/ 6145 TO 6478 333' @ 27.8' PH W/ 10.3 PPG - 42 VIS
12:00 - 12:30	0.50	DRLPRO	06	A	P	SERVICE RIG
12:30 - 0:00	11.50	DRLPRO	02	D	P	DRLG F/ 6478 TO 6733 255' @ 22.2' PH W/ 10.3 PPG - 42 VIS

3/3/2008

SUPERVISOR: STUART NEILSON

0:00 - 13:00	13.00	DRLPRO	02	D	P	DRLG & SLID F/ 6733 TO 6922 189' @ 14.5' PH W/ 10.3 PPG - 45 VIS
13:00 - 22:00	9.00	DRLPRO	05	A	P	TFNB, LID DIR TOOLS, PIU MM & BIT #2, TIH
22:00 - 0:00	2.00	DRLPRO	02	D	P	DRLG F/ 6922 TO 6988 66" @ 33'PH W/ 10.3 PPG - 42 VIS

3/4/2008

SUPERVISOR: STUART NEILSON

0:00 - 15:00	15.00	DRLPRO	02	D	P	DRLG F/ 6988 TO 7622 634' @ 42.3' PH W/ 11.0 PPG - 42 VIS
15:00 - 15:30	0.50	DRLPRO	06	A	P	SERVICE RIG
15:30 - 0:00	8.50	DRLPRO	02	D	P	DRLG F/ 7622 TO 7923 301' @ 35.4' PH W/ 11.2 PPG - 42 VIS

3/5/2008

SUPERVISOR: STUART NEILSON

0:00 - 10:30	10.50	DRLPRO	02	D	P	DRLG F/ 7923 TO 8328' TD - TVD 8250 - 405' @ 38.6' PH W/ 11.2 PPG - 44 VIS
10:30 - 14:00	3.50	DRLPRO	04	C	P	CCH, RAISE MUD WT TO 11.5 TO CONTROL GAS
14:00 - 18:00	4.00	DRLPRO	05	E	P	POOH 67 STDS TO SHOE
18:00 - 19:00	1.00	DRLPRO	06	D	P	CUT DRLG LINE

18:00 - 19:00	1.00	DRLPRO	06	D	P	CUT DRLG LINE
19:00 - 21:30	2.50	DRLPRO	05	E	P	TIH
21:30 - 23:30	2.00	DRLPRO	04	C	P	CCH
23:30 - 0:00	0.50	DRLPRO	05	B	P	POOH F/ LOGS

3/6/2008

SUPERVISOR: STUART NEILSON

0:00 - 4:00	4.00	DRLPRO	05	B	P	POOH F/ LOGS, SPOT 20 BBLS PILL @ 4700 TO CONTROL FLOW,CONT POOH, L/D MM
4:00 - 10:00	6.00	DRLPRO	10	C	P	HPJSM W/ RIG & LOGGING CREWS, R/U & LOG F/ 8328.5' R/D
10:00 - 14:30	4.50	DRLPRO	05	D	P	TIH
14:30 - 16:30	2.00	DRLPRO	04	C	P	CCH
16:30 - 0:00	7.50	DRLPRO	05	E	P	HPJSM W RIG & L/D CREWS, R/U & LDDS, BREAK KELLY, PULL WEAR BUSHING

3/7/2008

SUPERVISOR: STUART NEILSON

0:00 - 0:30	0.50	DRLPRO	05	C	P	PULL WEAR BUSHING
0:30 - 3:30	3.00	DRLPRO	11	B	P	HPJSM W/ RIG & CASING CREWS, RIG UP & RUN PROD CASING
3:30 - 4:30	1.00	DRLPRO	07	A	S	DRLG LINE, RESPOOL ON DRUM
4:30 - 10:00	5.50	DRLPRO	11	B	P	RUN PROD CASING, R/D CASING CREW
10:00 - 11:30	1.50	DRLPRO	04	E	P	CCH TO CEMENT
11:30 - 14:30	3.00	DRLPRO	15	A	P	HPJSM W/ RIG & CEMENTERS - R/U & PSI TEST LINES TO 5000 PSI, PUMP 20 BBLS MUD CLEAN, SCAV 20 SKS-9.5 PPG 8.45 YLD - LEAD 310 SKS 11 PPG 3.38 YLD - TAIL 1200 SKS 14.3 PPG 1.31 YLD, DROP PLUG & DISPLACE W/ 128.9 BBLS WATER, BUMP PLUG @ 3300 PSI (500 PSI OVER CIRC PSI) FLOAT HELD W/ 1 BBL BACK TO TRUCK, GOOD RETURNS THOUGH OUT JOB W/ 30 BBL OF LEAD TO PIT
14:30 - 16:30	2.00	DRLPRO	13	A	P	SET SLIPS W/ 100 K, N/D & MAKE ROUGH CUT, LAYOUT SAME
16:30 - 18:00	1.50	DRLPRO	12	E	P	CLEAN PITS & RELEASE RIG @ 18:00 07/08

Wins No.: 95375 NBU 1022-13K4S API No.: 4304739473

16:30 - 18:00 1.50 DRLPRO 12 E P CLEAN PITS & RELEASE RIG @ 18:00 07/08

Wins No.: 95375

NBU 1022-13K4S

API No.: 4304739473

EVENT INFORMATION: EVENT ACTIVITY: COMPLETION START DATE: 5/5/2008
 OBJECTIVE: DEVELOPMENT END DATE: 5/13/2008
 OBJECTIVE 2: ORIGINAL DATE WELL STARTED PROD.:
 REASON: WHR PAD#1 - MV Event End Status: COMPLETE

RIG OPERATIONS: Begin Mobilization Rig On Location Rig Charges Rig Operation Start Finish Drilling Rig Release Rig Off Location
 LEED 698 / 698 05/12/2008 05/13/2008

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

5/5/2008

SUPERVISOR: DOUG CHIVERS

7:00 - 7:30	0.50	COMP	48			P	HSM. FRACING & PERFORATING
7:30 - 18:00	10.50	COMP	36	B		P	MIRU WEATHERFORD & CUTTERS TO FRAC & PERFORATE.

RIH W/ 3 3/8" EXP GNS, 23 GRM, .36 HOLES, 90 DEG PHASING. PERFORATE 8,184' - 8,194' 4 SPF, 40 HOLES. POOH PRIME UP PUMPS & LINES. PRESSURE TEST SURFACE EQUIPMENT TO 8,500 PSI. PUMP A DFIT. WHP 0 PSI, BRK @ 5,1366 PSI @ 3.9 BPM. INJECT 24 BBLS @ 3.7 BPM @ 2,770 PSI. ISIP 2,550 PSI. FG .74. RECORDED SURFACE PSI USINH HALLIBURTON.

STG 1) WHP 155 PSI, BRK 2,759 PSI, @ 1.8 BPM, ISIP 2,335 PSI, FG .73. PUMP 100 BBLS @ 49 BPM @ 5,000 PSI = 27 OF 40 HOLES OPEN 67%. MP 5,650 PSI, MR 52 BPM, AP 4,400 PSI, AR 49.5 BPM, ISIP 2,618 PSI, FG .76 NPI 283 PSI. PMP 783 BBLS OF SLK WATER & 18,349 LBS OF 30/50 SAND & 5,000 LBS OF 20/40 RESIN SND. TOTAL PROP 23,349 LBS.

STG 2) PU 4 1/2" CBP & RIH W/ 3 3/8" EXP GNS, 23 GRM, .36 HOLES, 90 DEG PHASING. SET BAKER 8K CBP @ 7,984' & PERFORATE 7,950' - 54' 4 SPF, 7,866' - 72' 4 SPF 40 HOLES. WHP 220 PSI, BRK 3,541 PSI, @ 2.9 BPM, ISIP 2,453 PSI, FG .75. PUMP 100 BBLS @ 52 BPM @ 4,700 PSI = 28 OF 40 HOLES OPEN 68%. MP 4,875 PSI, MR 53.5 BPM, AP 4,313 PSI, AR 51 BPM, ISIP 2,626 PSI, FG .77 NPI 173 PSI. PMP 1,302 BBLS OF SLK WATER & 40,641 LBS OF 30/50 SAND & 5,000 LBS OF 20/40 RESIN SND. TOTAL PROP 45,641 LBS.

STG 3) PU 4 1/2" CBP & RIH W/ 3 3/8" EXP GNS, 23 GRM, .36 HOLES, 90 & 180 DEG PHASING. SET BAKER 8K CBP @ 7,809' & PERFORATE 7,773' - 79' 4 SPF, 7,740' - 44' 2 SPF, 7,696' - 7,700' 2 SPF, 40 HOLES. WHP 1,000 PSI, BRK 3,346 PSI, @ 2.4 BPM, ISIP 2,614 PSI, FG .78. PUMP 100 BBLS @ 51.3 BPM @ 4,600 PSI = 40 OF 40 HOLES OPEN 100%. MP 5,224 PSI, MR 52 BPM, AP 4,592 PSI, AR 51 BPM, ISIP 2,829 PSI, FG .81 NPI 215 PSI. PMP 2,308 BBLS OF SLK WATER & 79,899 LBS OF 30/50 SAND & 5,000 LBS OF 20/40 RESIN SND. TOTAL PROP 84,899 LBS.

STG 4) PU 4 1/2" CBP & RIH W/ 3 3/8" EXP GNS, 23 GRM, .36 HOLES, 90 DEG PHASING. SET BAKER 8K CBP @ 7,648' & PERFORATE 7,610' - 18' 4 SPF, 32 HOLES. WHP 2,250 PSI, PUMP A DFIT. BRK 2,949 PSI, @ 4.6 BPM. PUMP 24 BBLS. STAB. RATE OF 4.6 BPM @ 3,000 PSI. ISIP 2,701 FG.79 SWI SDFN

5/6/2008

SUPERVISOR: DOUG CHIVERS

7:00 - 7:30	0.50	COMP	48			P	HSM. FRACING & PERFORATING
-------------	------	------	----	--	--	---	----------------------------

Time	Duration	Comp	Count	Code	Code	Description
7:30	- 18:00	10.50	COMP	36	B P	<p>STG 4) RIH W/ 3 3/8" EXP GNS, 23 GRM, .36 HOLES, 180 DEG PHASING. PERFORATE 7,521' - 25' 2 SPF, 8 HOLES & 32 HOLES FROM THE DAY BEFORE.</p> <p>WHP 2,000 PSI, BRK 2,949 PSI, @ 4.6 BPM, ISIP 2,701 PSI, FG .79.</p> <p>PUMP 100 BBLS @ 50.2 BPM @ 4,700 PSI = 40 OF 40 HOLES OPEN 100%.</p> <p>MP 6,118 PSI, MR 50.8 BPM, AP 3,166 PSI, AR 50 BPM, ISIP 2,829 PSI, FG .81 NPI 128 PSI.</p> <p>PMP 1,685 BBLS OF SLK WATER & 55,272 LBS OF 30/50 SAND & 5,000 LBS OF 20/40 RESIN SND. TOTAL PROP 60,272 LBS.</p> <p>STG 5) PU 4 1/2" CBP & RIH W/ 3 3/8" EXP GNS, 23 GRM, .36 HOLES, 90 120 & 180 DEG PHASING. SET BAKER 8K CBP @ 7,410' & PERFORATE 7,378' - 80' 4 SPF, 7,347' - 50' 4 SPF, 7,302' - 05' 3 SPF, 7,299' - 01' 3 SPF, 7,233' - 35 2 SPF, 39 HOLES.</p> <p>WHP 0 PSI, BRK 3,228 PSI, @ 2.8 BPM, ISIP 2,183 PSI, FG .74.</p> <p>PUMP 100 BBLS @ 50.4 BPM @ 3,900 PSI = 38 OF 39 HOLES OPEN 97%.</p> <p>MP 5,145 PSI, MR 50.6 BPM, AP 4,004 PSI, AR 50.3 BPM, ISIP 2,453 PSI, FG .78 NPI 270 PSI.</p> <p>PMP 2,972 BBLS OF SLK WATER & 106,458 LBS OF 30/50 SAND & 5,000 LBS OF 20/40 RESIN SND. TOTAL PROP 111,458 LBS.</p> <p>STG 6) PU 4 1/2" CBP & RIH W/ 3 3/8" EXP GNS, 23 GRM, .36 HOLES, 90 DEG PHASING. SET BAKER 8K CBP @ 7,176' & PERFORATE 7,143' - 46' 4 SPF, 7,106' - 13' 4 SPF, 40 HOLES.</p> <p>WHP 970 PSI, BRK 2,761 PSI, @ 2.6 BPM, ISIP 2,042 PSI, FG .73.</p> <p>PUMP 100 BBLS @ 50 BPM @ 4,800 PSI = 28 OF 40 HOLES OPEN 65%.</p> <p>MP 5,160 PSI, MR 52.7 BPM, AP 4,691 PSI, AR 50 BPM, ISIP 2,281 PSI, FG .76 NPI 239 PSI.</p> <p>PMP 728 BBLS OF SLK WATER & 19,368 LBS OF 30/50 SAND & 5,000 LBS OF 20/40 RESIN SND. TOTAL PROP 24,368 LBS.</p> <p>STG 7) PU 4 1/2" CBP & RIH W/ 3 3/8" EXP GNS, 23 GRM, .36 HOLES 90 DEG PHASING.</p> <p>PERFORATE 7,015' - 20' 4 SPF, 20 HOLES.</p> <p>PUMP A DFIT. WHP 80 PSI, BRK 5,001 PSI @ 5.7 BPM.</p> <p>STABILIZED RATE 5.7 BPM @ 2,342 PSI FOR 24 BBLS. ISIP 2,246 PSI FG .76.</p> <p>SWI SDFN</p>

5/7/2008

SUPERVISOR: DOUG CHIVERS

Time	Duration	Comp	Count	Code	Code	Description
7:00	- 7:30	0.50	COMP	48	P	HSM. FRACING & PERFORATING
7:30	- 11:30	4.00	COMP	36	B P	<p>STG 7) FINISH PERFORATING AFTER DFIT THE DAY BEFORE.</p> <p>RIH W/ 3 3/8" EXP GNS, 23 GRM, .36 HOLES 90 & 180 DEG PHASING.</p> <p>PERFORATE 7,015' - 20' 4 SPF, 6,996' - 00 4 SPF, 6,902' - 04' 2 SPF, 40 HOLES.</p> <p>WHP 700 PSI, BRK 5,001 PSI, @ 5.2 BPM, ISIP 2,246 PSI, FG .76.</p> <p>PUMP 100 BBLS @ 50.5 BPM @ 4,150 PSI = 30 OF 40 HOLES OPEN 75%.</p> <p>MP 4,916 PSI, MR 53.9 BPM, AP 3,993 PSI, AR 50 BPM, ISIP 2,341 PSI, FG .78 NPI 95 PSI.</p> <p>PMP 1,216 BBLS OF SLK WATER & 37,538 LBS OF 30/50 SAND & 5,000 LBS OF 20/40 RESIN SND. TOTAL PROP 42,538 LBS.</p> <p>STG 8) PU 4 1/2" CBP & RIH W/ 3 3/8" EXP GNS, 23 GRM, .36 HOLES 90 120 & 180 DEG PHASING. SET 8K BAKER CBP @ 6,831'</p> <p>PERFORATE 6,796' - 01' 4 SPF, 6,772' - 74 4 SPF, 6,753' - 56' 3 SPF, 6,690' - 92' 2 SPF, 41 HOLES.</p> <p>WHP 0 PSI, BRK 2,707 PSI, @ 2.9 BPM, ISIP 2,045 PSI, FG .74.</p> <p>PUMP 100 BBLS @ 50.3 BPM @ 3,800 PSI = 40 OF 41 HOLES OPEN 98%.</p> <p>MP 4,038 PSI, MR 50.6 BPM, AP 3,837 PSI, AR 50.2 BPM, ISIP 2,576 PSI, FG .82 NPI 531 PSI.</p> <p>PMP 1,137 BBLS OF SLK WATER & 34,382 LBS OF 30/50 SAND & 5,000 LBS OF 20/40 RESIN SND. TOTAL PROP 39,382 LBS.</p> <p>KILL PLG) PU 4 1/2" CBP RIH SET 8K BAKER CBP @ 6,640' STIM. COMPLETE. SWI WAIT ON DRL OUT</p>

5/12/2008

SUPERVISOR: BRAD BURMAN

7:00 - 7:30 0.50 COMP 48 P JSA#1

7:30 - 17:50 10.33 COMP 44 C P 7AM [DAY 4]

ROAD RIG TO LOCATION. WAIT ON WIND TO DIE DOWN. MIRU, SPOT EQUIPMENT. MOVE W.H. STAND. NDFRAC VALVES, NUBOP. R/U FLOOR & TBG EQUIP. P/U 3-7/8" BIT, POBS W/ X NIPPLE & RIH ON NEW 2-3/8" L-80 TBG. [SLM] TBG WAS DRIFTED. EOT @ 3300'.

5:30 PM SDFN. PREP TO DRILL OUT CBP'S IN AM

5/13/2008

SUPERVISOR: BRAD BURMAN

7:00 - 7:30 0.50 COMP 48 P JSA#5

7:30 - 18:00 10.50 COMP 44 C P 7AM [DAY 5]

EOT @ 3300'. CONTINUE P/U & RIH ON 2-3/8" TBG. [SLM] TBG WAS DRIFTED. TAG SAND @ 6590'. R/U SWWL & PMP. ESTAB CIRC. P.T. BOP TO 3000#. C/O 20' SD TO CBP #1 @ 6610'.

[DRLG CBP#1] @ 6610'. DRILL OUT BAKER 8K CBP IN 4 MIN. 25# DIFF. RIH, TAG SD @ 6801'. C/O 30' SD. FCP=0#.

[DRLG CBP#2] @ 6831'. DRILL OUT BAKER 8K CBP IN 5 MIN. 50# DIFF. RIH, TAG SD @ 7010'. C/O 40' SD. FCP=50#.

[DRLG CBP#3] @ 7050'. DRILL OUT BAKER 8K CBP IN 5 MIN. 100# DIFF. RIH, TAG SD @ 7146'. C/O 30' SD. FCP=200#.

[DRLG CBP#4] 7176'. DRILL OUT BAKER 8K CBP IN 5 MIN. 50# DIFF. RIH, TAG SD @ 7370'. C/O 40' SD. FCP=300#.

[DRLG CBP#5] @ 7410'. DRILL OUT BAKER 8K CBP IN 6 MIN. 50# DIFF. RIH, TAG SD @ 7618'. C/O 30' SD. FCP=300#.

[DRLG CBP#6] @ 7648'. DRILL OUT BAKER 8K CBP IN 5 MIN. 50# DIFF. RIH, TAG SD @ 7779'. C/O 30' SD. FCP=350#.

[DRLG CBP#7] @ 7809'. DRILL OUT BAKER 8K CBP IN 5 MIN. 0# DIFF. RIH, TAG SD @ 7939'. C/O 45' SD. FCP=450#.

[DRLG CBP#8] 7984'. DRILL OUT BAKER 8K CBP IN 5 MIN. 0# DIFF. RIH, TAG SD @ 8187'. C/O 96' SD TO PBTD @ 8283'. CIRC WELL CLN. R/D SWWL. POOH & L/D 20 JTS ON FLOAT. LAND TBG ON HNGR W/ 241 JTS NEW 2-3/8" L-80 TBG. EOT @ 7662.13 & POBS W/ X NIPPLE @ 7659.93'. AVG 5 MIN/PLUG & C/O 331' SAND. R/D FLOOR & TBG EQUIP. NDBOP, NUWH. DROP BALL DN TBG & PMP OFF THE BIT @ 2000#. OPEN WELL TO PIT ON 20/64 CHOKE. FTP=1300, SICP=1600. 6 PM TURN WELL OVER TO F.B.C. LTR @ 6 PM=10,631 BBLs. R/D RIG.

NOTE:

268 JTS NEW 2-3/8" L-80 DELIVERED

241 JTS LANDED

27 RETURNED.

5/14/2008

SUPERVISOR: MARK BONNIE

7:00 - 33 A

7 AM FLBK REPORT: CP 2000#, TP 1525#, 20/64" CK, 50 BWPH, MEDIUM SAND, LIGHT GAS
TTL BBLs RECOVERED: 703
BBLs LEFT TO RECOVER: 11,428

5/15/2008

SUPERVISOR: MARK BONNIE

7:00 - 33 A

7 AM FLBK REPORT: CP 1975#, TP 1100#, 20/64" CK, 39 BWPH, MEDIUM SAND, LIGHT GAS
TTL BBLs RECOVERED: 1775
BBLs LEFT TO RECOVER: 10,356

Wins No.: 95375

NBU 1022-13K4S

API No.: 4304739473

20:00 - PROD

WELL TURNED TO SALES @ 2000 HR ON 05/15/2008 - FTP
1600#, CP 2125#, CK 20/64", 280 MCFD, 1056 BWPD

5/16/2008

SUPERVISOR: MARK BONNIE

7:00 - 33 A

7 AM FLBK REPORT: CP 2800#, TP 1600#, 20/64" CK, 37 BWPH,
MEDIUM SAND, 1600 MCFD
TTL BBLs RECOVERED: 2683
BBLs LEFT TO RECOVER: 9448

5/17/2008

SUPERVISOR: MARK BONNIE

7:00 - 33 A

7 AM FLBK REPORT: CP 2500#, TP 1500#, 20/64" CK, 30 BWPH,
MEDIUM SAND, 1200 MCFD
TTL BBLs RECOVERED: 3444
BBLs LEFT TO RECOVER: 8687

5/18/2008

SUPERVISOR: MARK BONNIE

7:00 - 33 A

7 AM FLBK REPORT: CP 2300#, TP 1500#, 20/64" CK, 22 BWPH,
MEDIUM SAND, 1200 MCFD
TTL BBLs RECOVERED: 4052
BBLs LEFT TO RECOVER: 8079

5/19/2008

SUPERVISOR: MARK BONNIE

7:00 - 33 A

7 AM FLBK REPORT: CP 2100#, TP 1400#, 20/64" CK, 17 BWPH,
MEDIUM SAND, 1400 MCFD
TTL BBLs RECOVERED: 4520
BBLs LEFT TO RECOVER: 7611

5/20/2008

SUPERVISOR: MARK BONNIE

7:00 - 33 A

7 AM FLBK REPORT: CP 2000#, TP 1300#, 20/64" CK, 12 BWPH,
TRACE SAND, 1300 MCFD
TTL BBLs RECOVERED: 4861
BBLs LEFT TO RECOVER: 7270

5/21/2008

SUPERVISOR: MARK BONNIE

7:00 - 33 A

7 AM FLBK REPORT: CP 1900#, TP 1250#, 20/64" CK, 10 BWPH,
TRACE SAND, HEAVY GAS
TTL BBLs RECOVERED: 5129
BBLs LEFT TO RECOVER: 7002

5/22/2008

SUPERVISOR: MARK BONNIE

7:00 - 33 A

7 AM FLBK REPORT: CP 1800#, TP 1175#, 20/64" CK, 8 BWPH,
TRACE SAND, HEAVY GAS
TTL BBLs RECOVERED: 5357
BBLs LEFT TO RECOVER: 6774

5/23/2008

SUPERVISOR: MARK BONNIE

-

5/24/2008

SUPERVISOR: MARK BONNIE

-

5/25/2008

SUPERVISOR: MARK BONNIE

-

5/26/2008

SUPERVISOR: MARK BONNIE

7:00 - 33 A

7 AM REPORT: CP 1050#, TP 650#, CK 24/64", 10 BWPH, CLEAN,
1700 MCFD
TTL BBLs RECOVERED: 6189
BBLs LEFT TO RECOVER: 5942

5/27/2008

SUPERVISOR: MARK BONNIE

7:00 -

33 A

7 AM REPORT: CP 1000#, TP 650#, CK 28/64", 10 BWPH, TR
SAND, 1500 MCFD
TTL BBLs RECOVERED: 6399
BBLs LEFT TO RECOVER: 5732

5/28/2008

SUPERVISOR: MARK BONNIE

7:00 -

33 A

7 AM FLBK REPORT: CP 1000#, TP 600#, 28/64" CK, 14 BWPH,
TRACE SAND, HEAVY GAS
TTL BBLs RECOVERED: 808
BBLs LEFT TO RECOVER: 5444

5/29/2008

SUPERVISOR: MARK BONNIE

7:00 -

33 A

7 AM FLBK REPORT: CP 950#, TP 550#, 28/64" CK, 14 BWPH,
CLEAN SAND, HEAVY GAS
TTL BBLs RECOVERED: 1144
BBLs LEFT TO RECOVER: 5108

5/30/2008

SUPERVISOR: MARK BONNIE

7:00 -

33 A

7 AM FLBK REPORT: CP 900#, TP 550#, 28/64" CK, 14 BWPH,
CLEAN SAND, HEAVY GAS
TTL BBLs RECOVERED: 1480
BBLs LEFT TO RECOVER: 4772

6/1/2008

SUPERVISOR: MARK BONNIE

7:00 -

33 A

7 AM FLBK REPORT: CP 900#, TP 450#, 24/64" CK, 7 BWPH,
CLEAN SAND, HEAVY GAS
TTL BBLs RECOVERED: 1899
BBLs LEFT TO RECOVER: 4353

6/2/2008

SUPERVISOR: MARK BONNIE

7:00 -

33 A

7 AM FLBK REPORT: CP 850#, TP 400#, 24/64" CK, 6 BWPH,
CLEAN SAND, HEAVY GAS
TTL BBLs RECOVERED: 2054
BBLs LEFT TO RECOVER: 4198

6/3/2008

SUPERVISOR: JERRY RASMUSSEN

7:00 -

33 A

7 AM FLBK REPORT: CP 800#, TP 450#, 24/64" CK, 7 BWPH,
CLEAN SAND, HEAVY GAS
TTL BBLs RECOVERED: 2124
BBLs LEFT TO RECOVER: 4128

6/4/2008

SUPERVISOR: JERRY RASMUSSEN

7:00 -

33 A

7 AM FLBK REPORT: CP 875#, TP 475#, 24/64" CK, 7 BWPH,
CLEAN SAND, HEAVY GAS
TTL BBLs RECOVERED: 2288
BBLs LEFT TO RECOVER: 3964

6/5/2008

SUPERVISOR: JERRY RASMUSSEN

7:00 -

33 A

7 AM FLBK REPORT: CP 800#, TP 400#, 24/64" CK, 5 BWPH,
CLEAN SAND, HEAVY GAS
TTL BBLs RECOVERED: 2436
BBLs LEFT TO RECOVER: 3816

6/6/2008

SUPERVISOR: JERRY RASMUSSEN

7:00 -

33 A

7 AM FLBK REPORT: CP 1000#, TP 750#, 24/64" CK, 5 BWPH,
CLEAN SAND, HEAVY GAS
TTL BBLs RECOVERED: 2521
BBLs LEFT TO RECOVER: 3731

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

AMENDED REPORT FORM 8
(highlight changes)

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL: OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> DRY <input type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: STUO-08512-ST	
b. TYPE OF WORK: NEW WELL <input checked="" type="checkbox"/> HORIZ. LATS. <input type="checkbox"/> DEEP-EN <input type="checkbox"/> RE-ENTRY <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> OTHER _____		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
2. NAME OF OPERATOR: KERR McGEE OIL & GAS ONSHORE LP		7. UNIT or CA AGREEMENT NAME UNIT #891008900A	
3. ADDRESS OF OPERATOR: 1368 S 1200 E CITY VERNAL STATE UT ZIP 84078		8. WELL NAME and NUMBER: NBU 1022-13K4S	
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: 1739'FSL, 1745'FWL		9. API NUMBER: 4304739473	
AT TOP PRODUCING INTERVAL REPORTED BELOW:		10. FIELD AND POOL, OR WILDCAT NATURAL BUTTES	
AT TOTAL DEPTH: 1925'FSL, 2280'FWL (NE/SW) 1909 fsl 2283 fwl		11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NESW 13 10S 22E	
14. DATE SPUNDED: 11/13/2007		15. DATE T.D. REACHED: 3/5/2008	
16. DATE COMPLETED: 5/15/2008		17. ELEVATIONS (DF, RKB, RT, GL): 5293'GL	
18. TOTAL DEPTH: MD 8,328 TVD 8,251		19. PLUG BACK T.D.: MD 8,283 TVD 8,211	
20. IF MULTIPLE COMPLETIONS, HOW MANY? *		21. DEPTH BRIDGE MD PLUG SET: TVD	
22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each) CBL-CCL-GR, Comp 2, CD, CN, Cal		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 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	36#		2,160		675			
7 7/8"	4 1/2 I-80	11.6#		8,328		1510			

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"	7,662							

26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)	INTERVAL (Top/Bot MD)	NO. HOLES	PERFORATION STATUS
(A) MESAVERDE	6,690	8,194			6,690 - 8,194	320	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"/>

27. PERFORATION RECORD

INTERVAL (Top/Bot MD)	NO. HOLES	PERFORATION STATUS
6,690 - 8,194	320	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>

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

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
6690'-8194'	PMP 12,131 BBLS SLICK H2O & 431,907# 30/50 SD

29. ENCLOSED ATTACHMENTS:

- | | | | |
|---|--|---------------------------------------|--|
| <input type="checkbox"/> ELECTRICAL/MECHANICAL LOGS | <input type="checkbox"/> GEOLOGIC REPORT | <input type="checkbox"/> DST REPORT | <input checked="" 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

31. INITIAL PRODUCTION

INTERVAL A (As shown in item #26)

DATE FIRST PRODUCED: 5/15/2008		TEST DATE: 5/26/2008		HOURS TESTED: 24		TEST PRODUCTION RATES: →	OIL – BBL: 0	GAS – MCF: 1,743	WATER – BBL: 408	PROD. METHOD: FLOWING
CHOKE SIZE: 24/64	TBG. PRESS. 650	CSG. PRESS. 1,050	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL: 0	GAS – MCF: 1,743	WATER – BBL: 408	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	4,077 6,245	6,245			

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 6/16/2008

This report must be submitted within 30 days of

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

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

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

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

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



Weatherford[®]

Drilling Services

Completion



ANADARKO - KERR McGEE

NBU#1022-13K4S

UINTAH COUNTY, UTAH

WELL FILE: 4013812C

DATE: MARCH 4, 2008

Weatherford International, Ltd.

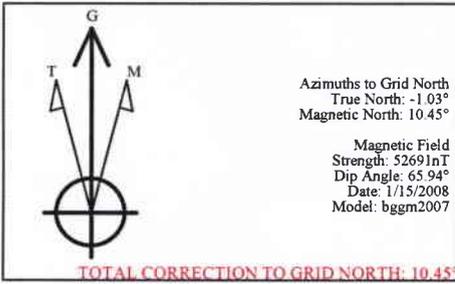
15710 John F. Kennedy Blvd

Houston, Texas 77032 USA

+1.281.260.1300 Main

+1.281.260.4730 Fax

www.weatherford.com



SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	1993.00	3.50	173.80	1991.51	-64.98	13.83	0.00	0.00	-9.91	
2	2183.00	3.50	173.80	2181.16	-76.51	15.08	0.00	0.00	-12.80	
3	2588.93	3.50	60.14	2586.33	-86.00	33.72	1.71	-90.00	1.32	
4	3162.82	17.85	60.14	3148.82	-33.21	125.66	2.50	-0.01	105.95	
5	4087.84	17.85	60.14	4029.32	107.97	371.51	0.00	0.00	385.75	
6	5277.67	0.00	0.00	5200.00	199.50	530.92	1.50	180.00	567.17	
7	8287.67	0.00	0.00	8210.00	199.50	530.92	0.00	0.00	567.17	PBHL

WELL DETAILS							
Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
13K4S	0.00	0.00	14510593.10	2091398.30	39°56'47.038N	109°23'27.534W	N/A

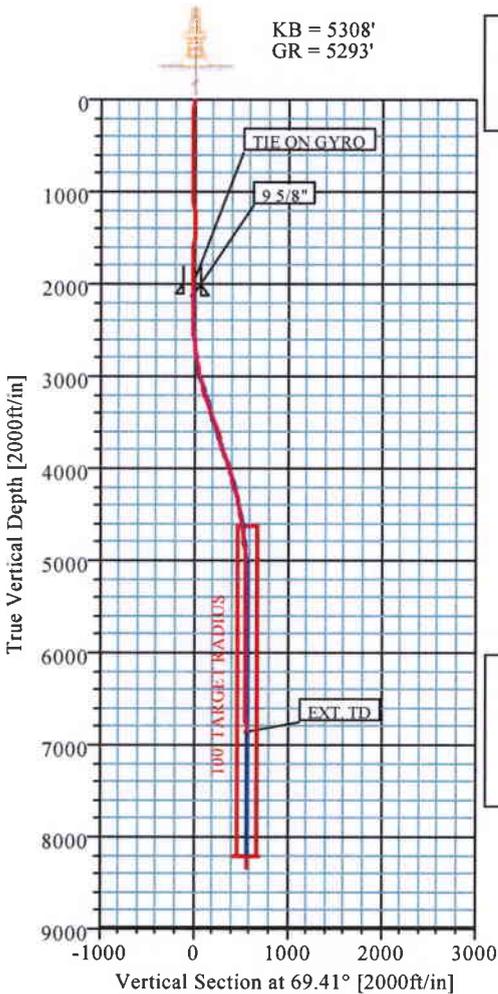
TARGET DETAILS							
Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape	
PBHL	8210.00	199.50	530.92	14510792.60	2091929.22	Circle (Radius: 100)	

FORMATION TOP DETAILS			
No.	TVDPath	MDPath	Formation
1	4016.00	4073.80	WASATCH
2	6252.00	6328.17	MESAVERDE

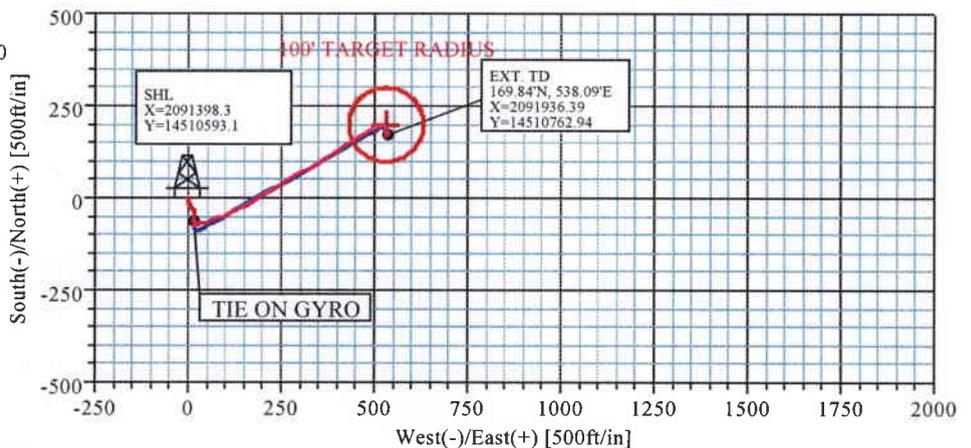
FIELD DETAILS
 UTAH COUNTY, UTAH (UTM Zone 12N-NAD 27)
 Geodetic System: Universal Transverse Mercator (USfeet)
 Ellipsoid: NAD27 (Clarke 1866)
 Zone: UTM Zone 12, North 114W to 108W
 Magnetic Model: bggm2007
 System Datum: Mean Sea Level
 Local North: Grid North

LEGEND	
	13K4S.1, Plan #2
	WFT SVY

CASING DETAILS				
No.	TVD	MD	Name	Size
1	2121.34	2123.00	9 5/8"	9.62



Survey: WFT SVY (13K4S/1)										
No	MD	Inc	Az	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	
79	6923.00	2.13	146.52	6846.48	EXT TD 169.84	538.09	0.00	0.00	563.44	





Weatherford

SURVEY REPORT - GEOGRAPHIC



Company: Anadarko-Kerr-McGee	Date: 3/4/2008	Time: 07:45:47	Page: 1
Field: UINTAH COUNTY, UTAH (UTM Zone 12N-NAD 27)	Co-ordinate(NE) Reference: Site: NBU 1022-13K4S, Grid North		
Site: NBU 1022-13K4S	Vertical (TVD) Reference: SITE 5308.0		
Well: 13K4S	Section (VS) Reference: Well (0.00N,0.00E,69.41Azi)		
Wellpath: 1	Survey Calculation Method: Minimum Curvature	Db: Sybase	

Survey: WFT SVY	Start Date: 2/28/2008
Company: WEATHERFORD DRILLING SERVICES	Engineer: Russell Joyner
Tool: MWD;MWD - Standard	Tied-to: From: GYRO SVY

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 1022-13K4S

Site Position:	Northing: 14510593.10 ft	Latitude: 39 56 47.038 N	
From: Map	Easting: 2091398.30 ft	Longitude: 109 23 27.534 W	
Position Uncertainty: 0.00 ft		North Reference: Grid	
Ground Level: 5293.00 ft		Grid Convergence: 1.03 deg	

Well: 13K4S **Slot Name:**

Well Position: +N/-S 0.00 ft	Northing: 14510593.10 ft	Latitude: 39 56 47.038 N	
+E/-W 0.00 ft	Easting: 2091398.30 ft	Longitude: 109 23 27.534 W	
Position Uncertainty: 0.00 ft			

Wellpath: 1

Current Datum: SITE	Height 5308.00 ft	Drilled From: Surface	Tie-on Depth: 0.00 ft
Magnetic Data: 1/15/2008		Above System Datum: Mean Sea Level	
Field Strength: 52691 nT		Declination: 11.48 deg	
Vertical Section: Depth From (TVD) ft	+N/-S ft	Mag Dip Angle: 65.94 deg	Direction deg
0.00	0.00	0.00	69.41

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	DLS deg/100ft	VS ft	MapN ft	MapE ft	Comme
1993.00	3.50	173.80	1991.51	-64.98	13.83	0.00	-9.91	14510528.12	2091412.13	TIE ON GYRO
2123.00	2.35	176.15	2121.34	-71.58	14.44	0.89	-11.67	14510521.52	2091412.74	9 5/8"
2169.00	1.94	177.65	2167.31	-73.30	14.53	0.89	-12.18	14510519.80	2091412.83	
2231.00	1.25	158.77	2229.28	-74.98	14.82	1.38	-12.50	14510518.12	2091413.12	
2293.00	0.63	143.27	2291.27	-75.88	15.27	1.07	-12.40	14510517.22	2091413.57	
2355.00	0.44	23.65	2353.27	-75.94	15.57	1.50	-12.14	14510517.16	2091413.87	
2417.00	1.69	38.40	2415.26	-75.00	16.23	2.05	-11.19	14510518.10	2091414.53	
2478.00	2.88	57.65	2476.21	-73.48	18.08	2.30	-8.92	14510519.62	2091416.38	
2539.00	4.38	75.15	2537.09	-72.06	21.63	3.03	-5.10	14510521.04	2091419.93	
2601.00	5.44	81.27	2598.86	-71.01	26.82	1.90	0.13	14510522.09	2091425.12	
2662.00	6.88	81.02	2659.51	-70.00	33.29	2.36	6.54	14510523.10	2091431.59	
2724.00	8.06	78.02	2720.98	-68.51	41.21	2.00	14.48	14510524.59	2091439.51	
2786.00	8.88	71.15	2782.31	-66.07	49.99	2.10	23.56	14510527.03	2091448.29	
2847.00	9.50	71.15	2842.52	-62.92	59.21	1.02	33.30	14510530.18	2091457.51	
2908.00	10.81	67.52	2902.57	-59.10	69.26	2.39	44.05	14510534.00	2091467.56	
2969.00	12.19	69.02	2962.34	-54.61	80.56	2.31	56.20	14510538.49	2091478.86	
3031.00	13.13	69.02	3022.83	-49.75	93.25	1.52	69.79	14510543.35	2091491.55	
3092.00	14.75	67.27	3082.03	-44.26	106.88	2.74	84.48	14510548.84	2091505.18	
3154.00	16.63	62.40	3141.72	-37.10	122.02	3.70	101.18	14510556.00	2091520.32	
3216.00	18.88	60.65	3200.77	-28.08	138.63	3.73	119.90	14510565.02	2091536.93	
3276.00	17.94	60.65	3257.70	-18.79	155.15	1.57	138.63	14510574.31	2091553.45	
3338.00	17.56	59.15	3316.74	-9.31	171.50	0.96	157.27	14510583.79	2091569.80	
3400.00	18.75	59.40	3375.66	0.56	188.11	1.92	176.28	14510593.66	2091586.41	
3462.00	18.81	57.27	3434.36	11.03	205.09	1.11	195.87	14510604.13	2091603.39	



Weatherford

SURVEY REPORT - GEOGRAPHIC



Company: Anadarko-Kerr-McGee	Date: 3/4/2008	Time: 07:45:47	Page: 2
Field: UINTAH COUNTY, UTAH (UTM Zone 12N-NAD 27)	Co-ordinate(NE) Reference:	Site: NBU 1022-13K4S, Grid North	
Site: NBU 1022-13K4S	Vertical (TVD) Reference:	SITE 5308.0	
Well: 13K4S	Section (VS) Reference:	Well (0.00N,0.00E,69.41Azi)	
Wellpath: 1	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	DLS deg/100ft	VS ft	MapN ft	MapE ft
3523.00	18.94	56.02	3492.08	21.88	221.58	0.70	215.11	14510614.98	2091619.88
3585.00	18.13	58.90	3550.86	32.49	238.18	1.97	234.39	14510625.59	2091636.48
3645.00	17.44	59.90	3607.99	41.82	253.95	1.26	252.43	14510634.92	2091652.25
3706.00	18.19	60.90	3666.07	51.04	270.18	1.33	270.87	14510644.14	2091668.48
3768.00	19.13	61.27	3724.81	60.63	287.55	1.53	290.50	14510653.73	2091685.85
3830.00	19.00	60.52	3783.41	70.48	305.24	0.45	310.52	14510663.58	2091703.54
3891.00	18.31	60.40	3841.20	80.10	322.22	1.13	329.80	14510673.20	2091720.52
3953.00	17.19	58.77	3900.25	89.66	338.52	1.98	348.42	14510682.76	2091736.82
4014.00	16.56	58.40	3958.62	98.89	353.63	1.05	365.81	14510691.99	2091751.93
4076.00	16.13	58.15	4018.12	108.06	368.47	0.70	382.93	14510701.16	2091766.77
4138.00	15.50	57.77	4077.77	117.02	382.80	1.03	399.50	14510710.12	2091781.10
4201.00	14.94	56.52	4138.56	125.99	396.69	1.03	415.66	14510719.09	2091794.99
4263.00	14.69	55.90	4198.50	134.81	409.87	0.48	431.09	14510727.91	2091808.17
4325.00	14.19	57.52	4258.54	143.30	422.79	1.04	446.17	14510736.40	2091821.09
4386.00	13.44	57.15	4317.78	151.16	435.05	1.24	460.42	14510744.26	2091833.35
4448.00	12.69	56.52	4378.17	158.82	446.78	1.23	474.10	14510751.92	2091845.08
4510.00	11.75	59.65	4438.77	165.77	457.91	1.85	486.96	14510758.87	2091856.21
4572.00	10.69	57.90	4499.58	172.02	468.23	1.80	498.81	14510765.12	2091866.53
4634.00	9.63	58.65	4560.61	177.77	477.53	1.72	509.54	14510770.87	2091875.83
4696.00	8.31	62.02	4621.85	182.57	485.92	2.29	519.08	14510775.67	2091884.22
4757.00	7.44	65.77	4682.27	186.26	493.41	1.66	527.39	14510779.36	2091891.71
4817.00	6.63	66.02	4741.82	189.26	500.12	1.35	534.73	14510782.36	2091898.42
4879.00	5.38	67.02	4803.48	191.85	506.06	2.02	541.21	14510784.95	2091904.36
4941.00	4.50	64.52	4865.25	194.03	510.94	1.46	546.53	14510787.13	2091909.24
5003.00	3.19	60.77	4927.11	195.92	514.64	2.15	550.66	14510789.02	2091912.94
5066.00	1.69	60.40	4990.05	197.24	516.97	2.38	553.31	14510790.34	2091915.27
5128.00	1.44	70.77	5052.03	197.94	518.50	0.61	555.00	14510791.04	2091916.80
5190.00	1.69	80.15	5114.00	198.36	520.14	0.58	556.67	14510791.46	2091918.44
5252.00	1.75	81.65	5175.97	198.65	521.98	0.12	558.50	14510791.75	2091920.28
5313.00	1.25	95.52	5236.95	198.72	523.56	1.01	560.00	14510791.82	2091921.86
5375.00	0.88	110.40	5298.94	198.49	524.68	0.74	560.97	14510791.59	2091922.98
5437.00	1.06	128.40	5360.93	197.97	525.58	0.57	561.63	14510791.07	2091923.88
5499.00	0.81	154.52	5422.93	197.22	526.22	0.79	561.96	14510790.32	2091924.52
5560.00	0.88	173.65	5483.92	196.36	526.45	0.47	561.88	14510789.46	2091924.75
5621.00	1.00	174.41	5544.91	195.37	526.56	0.20	561.63	14510788.47	2091924.86
5683.00	0.88	176.90	5606.90	194.35	526.63	0.20	561.34	14510787.45	2091924.93
5745.00	1.19	183.65	5668.89	193.24	526.62	0.54	560.94	14510786.34	2091924.92
5807.00	1.50	184.90	5730.88	191.78	526.51	0.50	560.32	14510784.88	2091924.81
5869.00	1.38	181.40	5792.86	190.23	526.42	0.24	559.69	14510783.33	2091924.72
5931.00	0.75	197.65	5854.85	189.10	526.28	1.12	559.16	14510782.20	2091924.58
5993.00	0.31	221.90	5916.84	188.58	526.05	0.78	558.76	14510781.68	2091924.35
6055.00	0.31	215.52	5978.84	188.32	525.84	0.06	558.47	14510781.42	2091924.14
6117.00	0.31	184.15	6040.84	188.02	525.73	0.27	558.26	14510781.12	2091924.03
6178.00	0.63	156.40	6101.84	187.55	525.85	0.63	558.21	14510780.65	2091924.15
6240.00	0.75	159.52	6163.83	186.86	526.13	0.20	558.23	14510779.96	2091924.43
6302.00	0.81	139.02	6225.83	186.14	526.56	0.46	558.38	14510779.24	2091924.86
6364.00	1.13	141.15	6287.82	185.34	527.23	0.52	558.73	14510778.44	2091925.53
6427.00	1.50	145.77	6350.80	184.17	528.08	0.61	559.12	14510777.27	2091926.38
6491.00	1.56	148.40	6414.78	182.74	529.01	0.14	559.48	14510775.84	2091927.31
6555.00	1.56	147.90	6478.76	181.26	529.93	0.02	559.82	14510774.36	2091928.23
6618.00	1.88	142.27	6541.73	179.71	531.02	0.57	560.29	14510772.81	2091929.32
6681.00	2.44	144.52	6604.68	177.80	532.43	0.90	560.94	14510770.90	2091930.73

Comme

Weatherford

SURVEY REPORT - GEOGRAPHIC



Company: Anadarko-Kerr-McGee	Date: 3/4/2008	Time: 07:45:47	Page: 3
Field: UINTAH COUNTY, UTAH (UTM Zone 12N-NAD 27)	Co-ordinate(NE) Reference:	Site: NBU 1022-13K4S, Grid North	
Site: NBU 1022-13K4S	Vertical (TVD) Reference:	SITE: 5308.0	
Well: 13K4S	Section (VS) Reference:	Well: (0.00N,0.00E,69.41Azi)	
Wellpath: 1	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	DLS deg/100ft	VS ft	MapN ft	MapE ft
6745.00	2.50	145.27	6668.62	175.55	534.01	0.11	561.63	14510768.65	2091932.31
6808.00	2.31	141.65	6731.57	173.42	535.58	0.39	562.36	14510766.52	2091933.88
6872.00	2.13	146.52	6795.52	171.42	537.04	0.41	563.02	14510764.52	2091935.34
6923.00	2.13	146.52	6846.48	169.84	538.09	0.00	563.44	14510762.94	2091936.39

Comme

Formations

MD ft	TVD ft	Formations	Lithology	Dip Angle deg	Dip Direction deg
	0.00	GREEN RIVER		0.00	0.00
4073.80	4016.00	WASATCH		0.00	0.00
6328.17	6252.00	MESAVERDE		0.00	0.00

Wins No.: 95375

NBU 1022-13K4S

Well Operations Summary Long

Operator KERR-MCGEE OIL & GAS ONSHORE LP	FIELD NAME NATURAL BUTTES	SPUD DATE 11/13/2007	GL 5,293	KB 5310	ROUTE
API 4304739473	STATE UTAH	COUNTY UINTAH	DIVISION ROCKIES		
Long/Lat.: 39.94639 / -109.39116		Q-Q/Sec/Town/Range: / 13 / 10S / 22E	Footages: 1,739.00' FSL 1,745.00' FWL		

Wellbore: NBU 1022-13K4S

MTD 8,328	TVD 8,251	PBMD	PBTVD
EVENT INFORMATION:		EVENT ACTIVITY: DRILLING	START DATE: 11/13/2007
		OBJECTIVE: DEVELOPMENT	END DATE: 3/7/2008
		OBJECTIVE 2:	DATE WELL STARTED PROD.:
		REASON:	Event End Status: COMPLETE

RIG OPERATIONS:	Begin Mobilization	Rig On Location	Rig Charges	Rig Operation Start	Finish Drilling	Rig Release	Rig Off Location
BILL JRS RATHOLE DRILLIN	11/30/2007	11/30/2007	11/30/2007	11/30/2007	12/16/2007	12/16/2007	12/16/2007

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

11/13/2007

SUPERVISOR: LEW WELDON

15:00 - 21:00	6.00	DRLCON	02	P			MOVE IN AND RIG UP BUCKET RIG SPUD WELL @ 1500 HR 11/13/07 DRILL AND SET 40' OF SCHEDULE 10 PIPE DRILL RODENT HOLES FOR RIG 83 BLM AND STATE NOTIFIED OF SPUD
---------------	------	--------	----	---	--	--	---

21:00 - 0:00	3.00	DRLCON	12	P			WOAR
--------------	------	--------	----	---	--	--	------

11/30/2007

SUPERVISOR: LEW WELDON

13:00 - 14:30	1.50	DRLSUR	02	P			MOVE IN AND RIG UP AIR RIG SPUD WELL @ 1300 HR 11/30/07 DRILL TO 70' AND HAMMER QUIT POOH AND SDFN TO REPAIR HAMMER
---------------	------	--------	----	---	--	--	---

14:30 - 0:00	9.50	DRLSUR	12	Z			SDFN TO REPAIR HAMMER
--------------	------	--------	----	---	--	--	-----------------------

12/1/2007

SUPERVISOR: LEW WELDON

0:00 - 6:00	6.00	DRLSUR	12	P			WAIT ON BILL JR SDFN
-------------	------	--------	----	---	--	--	----------------------

6:00 - 18:00	12.00	DRLSUR	02	P			RIH TO 70' AND DRILL TO 780' SDFN
--------------	-------	--------	----	---	--	--	-----------------------------------

18:00 - 0:00	6.00	DRLSUR	12	P			SDFN
--------------	------	--------	----	---	--	--	------

12/2/2007

SUPERVISOR: LEW WELDON

0:00 - 6:00	6.00	DRLSUR	12	P			WAIT ON BILL JR AIR RIG
-------------	------	--------	----	---	--	--	-------------------------

Wins.No.: 95375

NBU 1022-13K4S

API No.: 4304739473

6:00 - 11:00	5.00	DRLSUR	02	P	RIH TO 780' AND DRILL TO 1020' T/D PIOLET HOLE CONDITION HOLE 1 HR AND POOH
11:00 - 0:00	13.00	DRLSUR	12	P	WOAR

12/14/2007

SUPERVISOR: LEW WELDON

0:00 - 20:30	20.50	DRLSUR	12	P	WAIT ON BILL JR AIR RIG
20:30 - 0:00	3.50	DRLSUR	02	P	MOVE OVER AND RIG UP AIR RIG RIH TO 1020' AND SPUD WELL @ 2030 HR 12/14/07 DA AT REPORT TIME 1230'

12/15/2007

SUPERVISOR: LEW WELDON

0:00 - 12:00	12.00	DRLSUR	02	P	RIG DRILLING AHEAD HIT TRONA WATER @ 1410' CIRCULATING WITH SKID PUMP FULL RETURNS 1620'
12:00 - 0:00	12.00	DRLSUR	02	P	RIG DRILLING AHEAD CIRCULATING WITH SKID PUMP FULL RETURNS 1920'

12/16/2007

SUPERVISOR: LEW WELDON

0:00 - 12:00	12.00	DRLSUR	02	P	RIG T/D @ 2160' CONDITION HOLE 1 HR WITH FULL RETURNS
12:00 - 15:00	3.00	DRLSUR	05	P	TRIP DP OUT OF HOLE
15:00 - 17:00	2.00	DRLSUR	11	P	RUN 2123' OF 9 5/8 CSG AND 200' OF 1" PIPE RIG DOWN AIR RIG
17:00 - 18:00	1.00	DRLSUR	15	P	CEMENT 1ST STAGE WITH 250 SKS LEAD @ 11# 3.82 23 GAL/SK AND 200 SKS TAIL @ 15.8# 1.15 5.0 GAL/ SK REUTRNS 85 BBL INTO DISP. NO LEAD CMT TO SURFACE 300 PSI LIFT
18:00 - 18:30	0.50	DRLSUR	15	P	1ST TOP JOB 100 SKS DOWN 1" PIPE NO CMT TO SURFACE WOC
18:30 - 22:30	4.00	DRLSUR	15	P	2ND TOP JOB 125 SKS DOWN BS GOOD CMT TO SURFACE AND STAYED AT SURFACE
22:30 - 22:30	0.00	DRLSUR	12	P	NO VISIBLE LEAKS WORT

2/25/2008

SUPERVISOR: STUART NEILSON

3:00 - 22:30	19.50	DRLPRO	01	A	P	SKID RIG TO NBU 1022-13K4S
22:30 - 0:00	1.50	DRLPRO	13	A	P	N/U BOP & RUN FLARE LINES

Wins.No.: 95375

NBU 1022-13K4S

API No.: 4304739473

22:30 - 0:00 1.50 DRLPRO 13 A P N/U BOP & RUN FLARE LINES

2/26/2008

SUPERVISOR: STUART NEILSON

0:00 - 5:00 5.00 DRLPRO 13 C P TEST BOP - TEST RAMS & ALL VALVES TO 250 LOW - 5000 HIGH, ANN TO 2500, SURFACE CASING TO 1500

5:00 - 14:00 9.00 DRLPRO 05 A P P/U & INSPECT DIR & HWDP & KELLY ON TIH, INSTALL ROT RUBBER TAG CEMENT @ 2017'

14:00 - 16:30 2.50 DRLPRO 02 F P DRLG CEMENT & F/E

16:30 - 0:00 7.50 DRLPRO 02 D P SPUD WELL @ 16:30 2/26/08, SURVEY-DRLG-SLIDE F/ 2160 TO 2616 453' @ 60.4' PH W 8.7 - 35 VIS

2/27/2008

SUPERVISOR: STUART NEILSON

0:00 - 15:00 15.00 DRLPRO 02 D P DRLG-SLIDE F 2616 TO 3420 804' @ 53.6' PH W 8.8 PPG - 35 VIS

15:00 - 15:30 0.50 DRLPRO 06 A P SERVICE RIG

15:30 - 0:00 8.50 DRLPRO 02 D P DRLG-SLIDE F/3420 TO 3820 400' @ 47' PH W/ 9.1 PPG - 40 VIS

2/28/2008

SUPERVISOR: STUART NEILSON

0:00 - 15:30 15.50 DRLPRO 02 D P DRLG ^ SLIDE F/ 3820 TO 4468 648' @ 41.8' PH W/ 9.5 PPG 40 VIS

15:30 - 16:00 0.50 DRLPRO 06 A P SERVICE RIG

16:00 - 0:00 8.00 DRLPRO 02 D P DRLG & SLIDE F/ 4468 TO 4758 290' @ 36.25' PH W/ 9.6 PPG 41 VIS

2/29/2008

SUPERVISOR: STUART NEILSON

0:00 - 12:30 12.50 DRLPRO 02 D P DRLG-SLIDE F/ 4758 TO 5117 359' & 28.7' PH W/ 10.2 PPG - 40 VIS

12:30 - 13:00 0.50 DRLPRO 06 A P SERVICE RIG

13:00 - 0:00 11.00 DRLPRO 02 D P DRLG-SLIDE F/ 5117 TO 5488 371' @ 33.7' PH W/ 10.2 PPG - 40 VIS

3/1/2008

SUPERVISOR: STUART NEILSON

Wins No.: 95375

NBU 1022-13K4S

API No.: 4304739473

0:00 - 13:00	13.00	DRLPRO	02	D	P	DRLG & SLIDE F/ 5488 TO 5889 401' @ 30.8' PH W/ 10.2 PPG - 40 VIS
13:00 - 13:30	0.50	DRLPRO	06	A	P	SERVICE RIG
13:30 - 0:00	10.50	DRLPRO	02	D	P	DRLG & SLIDE F/ 5889 TO 6145 256' @ 24.3' PH W/ 10.3 PPG - 41 VIS

3/2/2008

SUPERVISOR: STUART NEILSON

0:00 - 12:00	12.00	DRLPRO	02	D	P	DRLG F/ 6145 TO 6478 333' @ 27.8' PH W/ 10.3 PPG - 42 VIS
12:00 - 12:30	0.50	DRLPRO	06	A	P	SERVICE RIG
12:30 - 0:00	11.50	DRLPRO	02	D	P	DRLG F/ 6478 TO 6733 255' @ 22.2' PH W/ 10.3 PPG - 42 VIS

3/3/2008

SUPERVISOR: STUART NEILSON

0:00 - 13:00	13.00	DRLPRO	02	D	P	DRLG & SLID F/ 6733 TO 6922 189' @ 14.5' PH W/ 10.3 PPG - 45 VIS
13:00 - 22:00	9.00	DRLPRO	05	A	P	TFNB, LID DIR TOOLS, PIU MM & BIT #2, TIH
22:00 - 0:00	2.00	DRLPRO	02	D	P	DRLG F/ 6922 TO 6988 66" @ 33'PH W/ 10.3 PPG - 42 VIS

3/4/2008

SUPERVISOR: STUART NEILSON

0:00 - 15:00	15.00	DRLPRO	02	D	P	DRLG F/ 6988 TO 7622 634' @ 42.3' PH W/ 11.0 PPG - 42 VIS
15:00 - 15:30	0.50	DRLPRO	06	A	P	SERVICE RIG
15:30 - 0:00	8.50	DRLPRO	02	D	P	DRLG F/ 7622 TO 7923 301' @ 35.4' PH W/ 11.2 PPG - 42 VIS

3/5/2008

SUPERVISOR: STUART NEILSON

0:00 - 10:30	10.50	DRLPRO	02	D	P	DRLG F/ 7923 TO 8328' TD - TVD 8250 - 405' @ 38.6' PH W/ 11.2 PPG - 44 VIS
10:30 - 14:00	3.50	DRLPRO	04	C	P	CCH, RAISE MUD WT TO 11.5 TO CONTROL GAS
14:00 - 18:00	4.00	DRLPRO	05	E	P	POOH 67 STDS TO SHOE
18:00 - 19:00	1.00	DRLPRO	06	D	P	CUT DRLG LINE

18:00 - 19:00	1.00	DRLPRO	06	D	P	CUT DRLG LINE
19:00 - 21:30	2.50	DRLPRO	05	E	P	TIH
21:30 - 23:30	2.00	DRLPRO	04	C	P	CCH
23:30 - 0:00	0.50	DRLPRO	05	B	P	POOH F/ LOGS

3/6/2008

SUPERVISOR: STUART NEILSON

0:00 - 4:00	4.00	DRLPRO	05	B	P	POOH F/ LOGS, SPOT 20 BBLs PILL @ 4700 TO CONTROL FLOW, CONT POOH, L/D MM
4:00 - 10:00	6.00	DRLPRO	10	C	P	HPJSM W/ RIG & LOGGING CREWS, R/U & LOG F/ 8328.5' R/D
10:00 - 14:30	4.50	DRLPRO	05	D	P	TIH
14:30 - 16:30	2.00	DRLPRO	04	C	P	CCH
16:30 - 0:00	7.50	DRLPRO	05	E	P	HPJSM W RIG & L/D CREWS, R/U & LDDS, BREAK KELLY, PULL WEAR BUSHING

3/7/2008

SUPERVISOR: STUART NEILSON

0:00 - 0:30	0.50	DRLPRO	05	C	P	PULL WEAR BUSHING
0:30 - 3:30	3.00	DRLPRO	11	B	P	HPJSM W/ RIG & CASING CREWS, RIG UP & RUN PROD CASING
3:30 - 4:30	1.00	DRLPRO	07	A	S	DRLG LINE, RESPOOL ON DRUM
4:30 - 10:00	5.50	DRLPRO	11	B	P	RUN PROD CASING, R/D CASING CREW
10:00 - 11:30	1.50	DRLPRO	04	E	P	CCH TO CEMENT
11:30 - 14:30	3.00	DRLPRO	15	A	P	HPJSM W/ RIG & CEMENTERS - R/U & PSI TEST LINES TO 5000 PSI, PUMP 20 BBLs MUD CLEAN, SCAV 20 SKS-9.5 PPG 8.45 YLD - LEAD 310 SKS 11 PPG 3.38 YLD - TAIL 1200 SKS 14.3 PPG 1.31 YLD, DROP PLUG & DISPLACE W/ 128.9 BBLs WATER, BUMP PLUG @ 3300 PSI (500 PSI OVER CIRC PSI) FLOAT HELD W/ 1 BBL BACK TO TRUCK, GOOD RETURNS THOUGH OUT JOB W/ 30 BBL OF LEAD TO PIT
14:30 - 16:30	2.00	DRLPRO	13	A	P	SET SLIPS W/ 100 K, N/D & MAKE ROUGH CUT, LAYOUT SAME
16:30 - 18:00	1.50	DRLPRO	12	E	P	CLEAN PITS & RELEASE RIG @ 18:00 07/08

Wins No.: 95375 NBU 1022-13K4S API No.: 4304739473

16:30 - 18:00 1.50 DRLPRO 12 E P CLEAN PITS & RELEASE RIG @ 18:00 07/08

Wins No.: 95375

NBU 1022-13K4S

API No.: 4304739473

EVENT INFORMATION:	EVENT ACTIVITY: COMPLETION	START DATE: 5/5/2008
	OBJECTIVE: DEVELOPMENT	END DATE: 5/13/2008
	OBJECTIVE 2: ORIGINAL	DATE WELL STARTED PROD.:
	REASON: WHR PAD#1 - MV	Event End Status: COMPLETE

RIG OPERATIONS:	Begin Mobilization	Rig On Location	Rig Charges	Rig Operation Start	Finish Drilling	Rig Release	Rig Off Location
LEED 698 / 698	05/12/2008						05/13/2008

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

5/5/2008

SUPERVISOR: DOUG CHIVERS

7:00	- 7:30	0.50	COMP	48		P	HSM. FRACING & PERFORATING
7:30	- 18:00	10.50	COMP	36	B	P	MIRU WEATHERFORD & CUTTERS TO FRAC & PERFORATE. RIH W/ 3 3/8" EXP GNS, 23 GRM, .36 HOLES, 90 DEG PHASING. PERFORATE 8,184' - 8,194' 4 SPF, 40 HOLES. POOH PRIME UP PUMPS & LINES. PRESSURE TEST SURFACE EQUIPMENT TO 8,500 PSI. PUMP A DFIT. WHP 0 PSI, BRK @ 5,1366 PSI @ 3.9 BPM. INJECT 24 BBLS @ 3.7 BPM @ 2,770 PSI. ISIP 2,550 PSI. FG .74. RECORDED SURFACE PSI USINH HALLIBURTON. STG 1) WHP 155 PSI, BRK 2,759 PSI, @ 1.8 BPM, ISIP 2,335 PSI, FG .73. PUMP 100 BBLS @ 49 BPM @ 5,000 PSI = 27 OF 40 HOLES OPEN 67%. MP 5,650 PSI, MR 52 BPM, AP 4,400 PSI, AR 49.5 BPM, ISIP 2,618 PSI, FG .76 NPI 283 PSI. PMP 783 BBLS OF SLK WATER & 18,349 LBS OF 30/50 SAND & 5,000 LBS OF 20/40 RESIN SND. TOTAL PROP 23,349 LBS. STG 2) PU 4 1/2" CBP & RIH W/ 3 3/8" EXP GNS, 23 GRM, .36 HOLES, 90 DEG PHASING. SET BAKER 8K CBP @ 7,984' & PERFORATE 7,950' - 54' 4 SPF, 7,866' - 72' 4 SPF 40 HOLES. WHP 220 PSI, BRK 3,541 PSI, @ 2.9 BPM, ISIP 2,453 PSI, FG .75. PUMP 100 BBLS @ 52 BPM @ 4,700 PSI = 28 OF 40 HOLES OPEN 68%. MP 4,875 PSI, MR 53.5 BPM, AP 4,313 PSI, AR 51 BPM, ISIP 2,626 PSI, FG .77 NPI 173 PSI. PMP 1,302 BBLS OF SLK WATER & 40,641 LBS OF 30/50 SAND & 5,000 LBS OF 20/40 RESIN SND. TOTAL PROP 45,641 LBS. STG 3) PU 4 1/2" CBP & RIH W/ 3 3/8" EXP GNS, 23 GRM, .36 HOLES, 90 & 180 DEG PHASING. SET BAKER 8K CBP @ 7,809' & PERFORATE 7,773' - 79' 4 SPF, 7,740' - 44' 2 SPF, 7,696' - 7,700' 2 SPF, 40 HOLES. WHP 1,000 PSI, BRK 3,346 PSI, @ 2.4 BPM, ISIP 2,614 PSI, FG .78. PUMP 100 BBLS @ 51.3 BPM @ 4,600 PSI = 40 OF 40 HOLES OPEN 100%. MP 5,224 PSI, MR 52 BPM, AP 4,592 PSI, AR 51 BPM, ISIP 2,829 PSI, FG .81 NPI 215 PSI. PMP 2,308 BBLS OF SLK WATER & 79,899 LBS OF 30/50 SAND & 5,000 LBS OF 20/40 RESIN SND. TOTAL PROP 84,899 LBS. STG 4) PU 4 1/2" CBP & RIH W/ 3 3/8" EXP GNS, 23 GRM, .36 HOLES, 90 DEG PHASING. SET BAKER 8K CBP @ 7,648' & PERFORATE 7,610' - 18' 4 SPF, 32 HOLES. WHP 2,250 PSI, PUMP A DFIT. BRK 2,949 PSI, @ 4.6 BPM. PUMP 24 BBLS. STAB. RATE OF 4.6 BPM @ 3,000 PSI. ISIP 2,701 FG.79 SWI SDFN

5/6/2008

SUPERVISOR: DOUG CHIVERS

7:00	- 7:30	0.50	COMP	48		P	HSM. FRACING & PERFORATING
------	--------	------	------	----	--	---	----------------------------

7:30	- 18:00	10.50	COMP	36	B	P	STG 4) RIH W/ 3 3/8" EXP GNS, 23 GRM, .36 HOLES, 180 DEG PHASING. PERFORATE 7,521' - 25' 2 SPF, 8 HOLES & 32 HOLES FROM THE DAY BEFORE. WHP 2,000 PSI, BRK 2,949 PSI, @ 4.6 BPM, ISIP 2,701 PSI, FG .79. PUMP 100 BBLS @ 50.2 BPM @ 4,700 PSI = 40 OF 40 HOLES OPEN 100%. MP 6,118 PSI, MR 50.8 BPM, AP 3,166 PSI, AR 50 BPM, ISIP 2,829 PSI, FG .81 NPI 128 PSI. PMP 1,685 BBLS OF SLK WATER & 55,272 LBS OF 30/50 SAND & 5,000 LBS OF 20/40 RESIN SND. TOTAL PROP 60,272 LBS.
							STG 5) PU 4 1/2" CBP & RIH W/ 3 3/8" EXP GNS, 23 GRM, .36 HOLES, 90 120 & 180 DEG PHASING. SET BAKER 8K CBP @ 7,410' & PERFORATE 7,378' - 80' 4 SPF, 7,347' - 50' 4 SPF, 7,302' - 05' 3 SPF, 7,299' - 01' 3 SPF, 7,233' - 35 2 SPF, 39 HOLES. WHP 0 PSI, BRK 3,228 PSI, @ 2.8 BPM, ISIP 2,183 PSI, FG .74. PUMP 100 BBLS @ 50.4 BPM @ 3,900 PSI = 38 OF 39 HOLES OPEN 97%. MP 5,145 PSI, MR 50.6 BPM, AP 4,004 PSI, AR 50.3 BPM, ISIP 2,453 PSI, FG .78 NPI 270 PSI. PMP 2,972 BBLS OF SLK WATER & 106,458 LBS OF 30/50 SAND & 5,000 LBS OF 20/40 RESIN SND. TOTAL PROP 111,458 LBS.
							STG 6) PU 4 1/2" CBP & RIH W/ 3 3/8" EXP GNS, 23 GRM, .36 HOLES, 90 DEG PHASING. SET BAKER 8K CBP @ 7,176' & PERFORATE 7,143' - 46' 4 SPF, 7,108' - 13' 4 SPF, 40 HOLES. WHP 970 PSI, BRK 2,761 PSI, @ 2.6 BPM, ISIP 2,042 PSI, FG .73. PUMP 100 BBLS @ 50 BPM @ 4,800 PSI = 28 OF 40 HOLES OPEN 65%. MP 5,160 PSI, MR 52.7 BPM, AP 4,691 PSI, AR 50 BPM, ISIP 2,281 PSI, FG .76 NPI 239 PSI. PMP 728 BBLS OF SLK WATER & 19,368 LBS OF 30/50 SAND & 5,000 LBS OF 20/40 RESIN SND. TOTAL PROP 24,368 LBS.
							STG 7) PU 4 1/2" CBP & RIH W/ 3 3/8" EXP GNS, 23 GRM, .36 HOLES 90 DEG PHASING. PERFORATE 7,015' - 20' 4 SPF, 20 HOLES. PUMP A DFIT. WHP 80 PSI, BRK 5,001 PSI @ 5.7 BPM. STABILIZED RATE 5.7 BPM @ 2,342 PSI FOR 24 BBLS. ISIP 2,246 PSI FG .76. SWI SDFN

5/7/2008

SUPERVISOR: DOUG CHIVERS

7:00	- 7:30	0.50	COMP	48		P	HSM. FRACING & PERFORATING
7:30	- 11:30	4.00	COMP	36	B	P	STG 7) FINISH PERFORATING AFTER DFIT THE DAY BEFORE. RIH W/ 3 3/8" EXP GNS, 23 GRM, .36 HOLES 90 & 180 DEG PHASING. PERFORATE 7,015' - 20' 4 SPF, 6,996' - 00 4 SPF, 6,902' - 04' 2 SPF, 40 HOLES. WHP 700 PSI, BRK 5,001 PSI, @ 5.2 BPM, ISIP 2,246 PSI, FG .76. PUMP 100 BBLS @ 50.5 BPM @ 4,150 PSI = 30 OF 40 HOLES OPEN 75%. MP 4,916 PSI, MR 53.9 BPM, AP 3,993 PSI, AR 50 BPM, ISIP 2,341 PSI, FG .78 NPI 95 PSI. PMP 1,216 BBLS OF SLK WATER & 37,538 LBS OF 30/50 SAND & 5,000 LBS OF 20/40 RESIN SND. TOTAL PROP 42,538 LBS.
							STG 8) PU 4 1/2" CBP & RIH W/ 3 3/8" EXP GNS, 23 GRM, .36 HOLES 90 120 & 180 DEG PHASING. SET 8K BAKER CBP @ 6,831' PERFORATE 6,796' - 01' 4 SPF, 6,772' - 74 4 SPF, 6,753' - 56' 3 SPF, 6,690' - 92' 2 SPF, 41 HOLES. WHP 0 PSI, BRK 2,707 PSI, @ 2.9 BPM, ISIP 2,045 PSI, FG .74. PUMP 100 BBLS @ 50.3 BPM @ 3,800 PSI = 40 OF 41 HOLES OPEN 98%. MP 4,038 PSI, MR 50.6 BPM, AP 3,837 PSI, AR 50.2 BPM, ISIP 2,576 PSI, FG .82 NPI 531 PSI. PMP 1,137 BBLS OF SLK WATER & 34,382 LBS OF 30/50 SAND & 5,000 LBS OF 20/40 RESIN SND. TOTAL PROP 39,382 LBS.
							KILL PLG) PU 4 1/2" CBP RIH SET 8K BAKER CBP @ 6,640' STIM. COMPLETE. SWI WAIT ON DRL OUT

5/12/2008

SUPERVISOR: BRAD BURMAN

7:00 - 7:30 0.50 COMP 48 P JSA#1

7:30 - 17:50 10.33 COMP 44 C P 7AM [DAY 4]

ROAD RIG TO LOCATION. WAIT ON WIND TO DIE DOWN. MIRU, SPOT EQUIPMENT. MOVE W.H. STAND. NDFRAC VALVES, NUBOP. R/U FLOOR & TBG EQUIP. P/U 3-7/8" BIT, POBS W/ X NIPPLE & RIH ON NEW 2-3/8" L-80 TBG. [SLM] TBG WAS DRIFTED. EOT @ 3300'.

5:30 PM SDFN. PREP TO DRILL OUT CBP'S IN AM

5/13/2008

SUPERVISOR: BRAD BURMAN

7:00 - 7:30 0.50 COMP 48 P JSA#5

7:30 - 18:00 10.50 COMP 44 C P 7AM [DAY 5]

EOT @ 3300'. CONTINUE P/U & RIH ON 2-3/8" TBG.[SLM] TBG WAS DRIFTED. TAG SAND @ 6590'. R/U SWVL & PMP. ESTAB CIRC. P.T. BOP TO 3000#. C/O 20' SD TO CBP #1 @ 6610'.

[DRLG CBP#1] @ 6610' DRILL OUT BAKER 8K CBP IN 4 MIN. 25# DIFF. RIH, TAG SD @ 6801'. C/O 30' SD. FCP=0#.

[DRLG CBP#2] @ 6831'. DRILL OUT BAKER 8K CBP IN 5 MIN. 50# DIFF. RIH, TAG SD @ 7010'. C/O 40' SD. FCP=50#.

[DRLG CBP#3] @ 7050'. DRILL OUT BAKER 8K CBP IN 5 MIN. 100# DIFF. RIH, TAG SD @ 7146.. C/O 30' SD. FCP=200#.

[DRLG CBP#4] 7176'. DRILL OUT BAKER 8K CBP IN 5 MIN. 50#.DIFF. RIH, TAG SD @ 7370'. C/O 40' SD. FCP=300#.

[DRLG CBP#5] @ 7410'. DRILL OUT BAKER 8K CBP IN 6 MIN. 50# DIFF. RIH, TAG SD @ 7618'. C/O 30' SD. FCP=300#.

[DRLG CBP#6] @ 7648'. DRILL OUT BAKER 8K CBP IN 5 MIN. 50# DIFF. RIH, TAG SD @ 7779'. C/O 30' SD. FCP=350#.

[DRLG CBP#7] @ 7809'. DRILL OUT BAKER 8K CBP IN 5 MIN. 0# DIFF. RIH, TAG SD @ 7939'. C/O 45' SD. FCP=450#.

[DRLG CBP#8] 7984'.DRILL OUT BAKER 8K CBP IN 5 MIN. 0# DIFF. RIH, TAG SD @ 8187'. C/O 96' SD TO PBTD @ 8283'. CIRC WELL CLN. R/D SWVL. POOH & L/D 20 JTS ON FLOAT. LAND TBG ON HNGR W/ 241 JTS NEW 2-3/8" L-80 TBG. EOT @ 7662.13 & POBS W/ X NIPPLE @ 7659.93'. AVG 5 MIN/PLUG & C/O 331' SAND. R/D FLOOR & TBG EQUIP. NDBOP, NUWH. DROP BALL DN TBG & PMP OFF THE BIT @ 2000#. OPEN WELL TO PIT ON 20/64 CHOKE. FTP=1300, SICP=1600.

6 PM TURN WELL OVER TO F.B.C. LTR @ 6 PM=10,631 BBLs. R/D RIG.

NOTE:

268 JTS NEW 2-3/8" L-80 DELIVERED
241 JTS LANDED
27 RETURNED.

5/14/2008

SUPERVISOR: MARK BONNIE

7:00 - 33 A

7 AM FLBK REPORT: CP 2000#, TP 1525#, 20/64" CK, 50 BWPH, MEDIUM SAND, LIGHT GAS
TTL BBLs RECOVERED: 703
BBLs LEFT TO RECOVER: 11,428

5/15/2008

SUPERVISOR: MARK BONNIE

7:00 - 33 A

7 AM FLBK REPORT: CP 1975#, TP 1100#, 20/64" CK, 39 BWPH, MEDIUM SAND, LIGHT GAS
TTL BBLs RECOVERED: 1775
BBLs LEFT TO RECOVER: 10,356

20:00 -	PROD			WELL TURNED TO SALES @ 2000 HR ON 05/15/2008 - FTP 1600#, CP 2125#, CK 20/64", 280 MCFD, 1056 BWPD
5/16/2008				
SUPERVISOR: MARK BONNIE				
7:00 -		33	A	7 AM FLBK REPORT: CP 2800#, TP 1600#, 20/64" CK, 37 BWPH, MEDIUM SAND, 1600 MCFD TTL BBLS RECOVERED: 2683 BBLS LEFT TO RECOVER: 9448
5/17/2008				
SUPERVISOR: MARK BONNIE				
7:00 -		33	A	7 AM FLBK REPORT: CP 2500#, TP 1500#, 20/64" CK, 30 BWPH, MEDIUM SAND, 1200 MCFD TTL BBLS RECOVERED: 3444 BBLS LEFT TO RECOVER: 8687
5/18/2008				
SUPERVISOR: MARK BONNIE				
7:00 -		33	A	7 AM FLBK REPORT: CP 2300#, TP 1500#, 20/64" CK, 22 BWPH, MEDIUM SAND, 1200 MCFD TTL BBLS RECOVERED: 4052 BBLS LEFT TO RECOVER: 8079
5/19/2008				
SUPERVISOR: MARK BONNIE				
7:00 -		33	A	7 AM FLBK REPORT: CP 2100#, TP 1400#, 20/64" CK, 17 BWPH, MEDIUM SAND, 1400 MCFD TTL BBLS RECOVERED: 4520 BBLS LEFT TO RECOVER: 7611
5/20/2008				
SUPERVISOR: MARK BONNIE				
7:00 -		33	A	7 AM FLBK REPORT: CP 2000#, TP 1300#, 20/64" CK, 12 BWPH, TRACE SAND, 1300 MCFD TTL BBLS RECOVERED: 4861 BBLS LEFT TO RECOVER: 7270
5/21/2008				
SUPERVISOR: MARK BONNIE				
7:00 -		33	A	7 AM FLBK REPORT: CP 1900#, TP 1250#, 20/64" CK, 10 BWPH, TRACE SAND, HEAVY GAS TTL BBLS RECOVERED: 5129 BBLS LEFT TO RECOVER: 7002
5/22/2008				
SUPERVISOR: MARK BONNIE				
7:00 -		33	A	7 AM FLBK REPORT: CP 1800#, TP 1175#, 20/64" CK, 8 BWPH, TRACE SAND, HEAVY GAS TTL BBLS RECOVERED: 5357 BBLS LEFT TO RECOVER: 6774
5/23/2008				
SUPERVISOR: MARK BONNIE				
-				
5/24/2008				
SUPERVISOR: MARK BONNIE				
-				
5/25/2008				
SUPERVISOR: MARK BONNIE				
-				
5/26/2008				
SUPERVISOR: MARK BONNIE				
7:00 -		33	A	7 AM REPORT: CP 1050#, TP 650#, CK 24/64", 10 BWPH, CLEAN, 1700 MCFD TTL BBLS RECOVERED: 6189 BBLS LEFT TO RECOVER: 5942

5/27/2008

SUPERVISOR: MARK BONNIE

7:00 -

33 A

7 AM REPORT: CP 1000#, TP 650#, CK 28/64", 10 BWPH, TR
SAND, 1500 MCFD
TTL BBLS RECOVERED: 6399
BBLS LEFT TO RECOVER: 5732

5/28/2008

SUPERVISOR: MARK BONNIE

7:00 -

33 A

7 AM FLBK REPORT: CP 1000#, TP 600#, 28/64" CK, 14 BWPH,
TRACE SAND, HEAVY GAS
TTL BBLS RECOVERED: 808
BBLS LEFT TO RECOVER: 5444

5/29/2008

SUPERVISOR: MARK BONNIE

7:00 -

33 A

7 AM FLBK REPORT: CP 950#, TP 550#, 28/64" CK, 14 BWPH,
CLEAN SAND, HEAVY GAS
TTL BBLS RECOVERED: 1144
BBLS LEFT TO RECOVER: 5108

5/30/2008

SUPERVISOR: MARK BONNIE

7:00 -

33 A

7 AM FLBK REPORT: CP 900#, TP 550#, 28/64" CK, 14 BWPH,
CLEAN SAND, HEAVY GAS
TTL BBLS RECOVERED: 1480
BBLS LEFT TO RECOVER: 4772

6/1/2008

SUPERVISOR: MARK BONNIE

7:00 -

33 A

7 AM FLBK REPORT: CP 900#, TP 450#, 24/64" CK, 7 BWPH,
CLEAN SAND, HEAVY GAS
TTL BBLS RECOVERED: 1899
BBLS LEFT TO RECOVER: 4353

6/2/2008

SUPERVISOR: MARK BONNIE

7:00 -

33 A

7 AM FLBK REPORT: CP 850#, TP 400#, 24/64" CK, 6 BWPH,
CLEAN SAND, HEAVY GAS
TTL BBLS RECOVERED: 2054
BBLS LEFT TO RECOVER: 4198

6/3/2008

SUPERVISOR: JERRY RASMUSSEN

7:00 -

33 A

7 AM FLBK REPORT: CP 800#, TP 450#, 24/64" CK, 7 BWPH,
CLEAN SAND, HEAVY GAS
TTL BBLS RECOVERED: 2124
BBLS LEFT TO RECOVER: 4128

6/4/2008

SUPERVISOR: JERRY RASMUSSEN

7:00 -

33 A

7 AM FLBK REPORT: CP 875#, TP 475#, 24/64" CK, 7 BWPH,
CLEAN SAND, HEAVY GAS
TTL BBLS RECOVERED: 2288
BBLS LEFT TO RECOVER: 3964

6/5/2008

SUPERVISOR: JERRY RASMUSSEN

7:00 -

33 A

7 AM FLBK REPORT: CP 800#, TP 400#, 24/64" CK, 5 BWPH,
CLEAN SAND, HEAVY GAS
TTL BBLS RECOVERED: 2436
BBLS LEFT TO RECOVER: 3816

6/6/2008

SUPERVISOR: JERRY RASMUSSEN

7:00 -

33 A

7 AM FLBK REPORT: CP 1000#, TP 750#, 24/64" CK, 5 BWPH,
CLEAN SAND, HEAVY GAS
TTL BBLS RECOVERED: 2521
BBLS LEFT TO RECOVER: 3731

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 1022-13K4S
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047394730000
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: 1739 FSL 1745 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: 11/8/2009	<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 11/08/2009.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
 December 03, 2009

NAME (PLEASE PRINT) Andy Lytle	PHONE NUMBER 720 929-6100	TITLE Regulatory Analyst
SIGNATURE N/A		DATE 12/3/2009

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 1022-13K4S
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047394730000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6514 9. FIELD and POOL or WILDCAT: NATURAL BUTTES
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1739 FSL 1745 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NESW Section: 13 Township: 10.0S Range: 22.0E Meridian: S	COUNTY: UINTAH STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 1/24/2012	<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 and commingle with the existing Mesaverde formation. Please see the attached procedure. Thank you.

Approved by the Utah Division of Oil, Gas and Mining
Date: February 02, 2012
By: *Derek Duff*

NAME (PLEASE PRINT) Jaime Scharnowske	PHONE NUMBER 720 929-6304	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 1/24/2012	

Greater Natural Buttes Unit



NBU 1022-13K4S
RE-COMPLETIONS PROCEDURE

DATE:1/19/2012
AFE#:
API#:4304739473
USER ID: Rachappe (Frac Invoices Only)

COMPLETIONS ENGINEER: James Page, Denver, CO
(720) 929-6747 (Office)
(303) 501-2731 (Cell)

SIGNATURE:

ENGINEERING MANAGER: JEFF DUFRESNE

SIGNATURE:

REMEMBER SAFETY FIRST!

Name: NBU 1022-13K4S
Location: SW SE NE SW SEC13 T10S R22E
LAT: 39.946425 **LONG:** -109.391372 **COORDINATE:** NAD83 (*Surface Location*)
Uintah County, UT
Date: 1/19/2012

ELEVATIONS: 5293' GL 5310' KB *Frac Registry TVD: 8222'*

TOTAL DEPTH: 8328" **PBTD:** 8283'
SURFACE CASING: 9 5/8", 36# J-55 ST&C @ 2140'
PRODUCTION CASING: 4 1/2", 11.6#, I-80 LT&C @ 8328'
 Marker Joint **3950'-3971'**

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
4 1/2" 11.6# P- 110	10691	7580	3.875"	0.0155	0.6528
2 3/8" by 4 1/2" Annulus				0.0101	0.4227

TOPS:

1045' Green River Top
 1298' Bird's Nest Top
 1675' Mahogany Top
 4077' Wasatch Top
 6240' Mesaverde Top

BOTTOMS:

6240' Wasatch Bottom
 8328' Mesaverde Bottom (TD)

T.O.C. @ 830'

GENERAL:

- A minimum of **5** 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 3/06/08
- **2** fracturing stages required for coverage.
- Procedure calls for **3** 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 **7000 psi.**
- **If casing pressure test fails. MIRU with tubing and packer. Isolate leak by pressure testing above and below the packer. RIH and set appropriate casing leak remediation**

(specific details on remediation will be provided in post-job-report). Re-pressure test to 1000 and 3500 psi for 15 minutes each and to 7000 psi for 30 minutes.

- Flush volumes are the sum of slick water and acid used during displacement (include scale inhibitor as mentioned above). Stage acid and scale inhibitor if necessary to cover the next perforated interval.
- **Call flush at 0 PPG @ inline densimeters. Slow to 5 bbl/min over last 10-20 bbls of flush. Flush to top perf.**
- **If distance between plug and top perf of previous stage is less than 50', it is considered to be tight spacing - over flush stage by 5 bbls (from top perf)**
- Tubing Currently Landed @~7662
- Originally completed on 5/5/2008

Existing Perforations:

<u>PERFORATIONS</u>					
<u>Formation</u>	<u>Zone</u>	<u>Top</u>	<u>Btm</u>	<u>spf</u>	<u>Shots</u>
MESA VERDE		6690	6692	2	4
MESA VERDE		6753	6756	3	9
MESA VERDE		6772	6774	4	8
MESA VERDE		6796	6801	4	20
MESA VERDE		6902	6904	2	4
MESA VERDE		6996	7000	4	16
MESA VERDE		7015	7020	4	20
MESA VERDE		7106	7113	4	28
MESA VERDE		7143	7146	4	12
MESA VERDE		7233	7235	2	4
MESA VERDE		7299	7301	3	6
MESA VERDE		7302	7305	3	9
MESA VERDE		7347	7350	4	12
MESA VERDE		7378	7380	4	8
MESA VERDE		7521	7525	2	8
MESA VERDE		7610	7618	4	32
MESA VERDE		7696	7700	2	8
MESA VERDE		7740	7744	2	8
MESA VERDE		7773	7779	4	24
MESA VERDE		7866	7872	4	24
MESA VERDE		7950	7954	4	16
MESA VERDE		8184	8194	4	40

Relevant History:

Originally completed May 2008, Current Production < 150 MCFD. Only Mesaverde production.

H2S History:

Location Name	(Column Names)	2011											2012
		Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	
NBU 1022-13K4S	Max(Tank H2S (ppm))	0	0	0	0	0	0	0	0	0	0	0	0
	Max(Separator H2S (ppm))	51	80	82	85	80	88	84	36	103	92	89	

PROCEDURE:

- MIRU. Control well with recycled water and biocide as required. ND WH, NU BOP's and test.
- If the tubing is below the proposed CBP depth, TOO H with 2-3/8", 4.7#, J-55 (or N-80) tubing (currently landed at ~7662). Visually inspect for scale and consider replacing if needed.
- If tbg looks ok consider running a gauge ring to 5800' (50' below proposed CBP). Otherwise P/U a mill and C/O to 5800' (50' below proposed CBP).
- Set 8000 psi CBP at ~ 5750'. 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; if pressure test fails contact Denver engineer and see notes. As per standard operating procedure install steel blowdown line to reserve pit from 4-1/2" X 9-5/8" annulus. 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.
- Perf the following with 3-3/8" gun, 23 gm, 0.36"hole:

Zone	From	To	spf	# of shots
WASATCH	5591	5593	4	8
WASATCH	5712	5717	3	15
- 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 ~5591' and trickle 250gal 15%HCL w/ scale inhibitor in flush.
- Set **8000** psi CBP at ~5308'. Perf the following 3-3/8" gun, 23 gm, 0.36"hole:

Zone	From	To	spf	# of shots
WASATCH	5070	5071	4	4
WASATCH	5182	5184	3	6
WASATCH	5220	5222	3	6
WASATCH	5276	5278	4	8
- Breakdown perfs and establish injection rate. Fracture as outlined in Stage 2 on attached listing. Under-displace to ~5070' and flush only with recycled water.
- Set **8000** psi CBP at ~5,020'.
- ND Frac Valves, NU and Test BOPs.

11. TIH with 3 7/8" mill, pump open sub, XN nipple and tubing.
12. Mill 2 plugs and clean out to a depth of 5740'.
13. Land tubing at 5040', drop ball and pump open sub. Flow back completion load. RDMO
14. MIRU, POOH tbg and mill. TIH with POBS and mill.
15. Mill last plug @ 5750' clean out to PBSD at 8283'. Land tubing at ±7660' pump off bit and bit sub. **This well WILL be commingled at this time.**
16. Clean out well with foam and/or swabbing unit until steady flow has been established from completion.
17. **Leave surface casing valve open.** Monitor and report any flow from surface casing. RDMO

**For design questions, please call
James Page, Denver, CO
(720) 929-6747 (Office)
(303) 501-2731 (Cell)**

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

NOTES:

Verify that the Braden head valve is locked OPEN.

Max Sand Concentration: Wasatch 2 ppg;

Name NBU 1022-13K4CS
 Perforation and CBP Summary

Stage	Zones	Perforations		SPF	Holes	Fracture Coverage		
		Top, ft	Bottom, ft					
1	WASATCH	5591	5593	4	8	5590.5	to	5594.5
	WASATCH	5712	5717	3	15	5709.5	to	5726.5
	WASATCH							
	WASATCH							
	WASATCH							
	WASATCH							
	WASATCH							
	# of Perfs/stage				23	CBP DEPTH	5,308	
2	WASATCH	5070	5071	4	4	5066	to	5078.5
	WASATCH	5182	5184	3	6	5179.5	to	5185
	WASATCH	5220	5222	3	6	5219.5	to	5224.5
	WASATCH	5276	5278	4	8	5271.5	to	5283
	WASATCH							
	WASATCH							
	WASATCH							
	# of Perfs/stage				24	CBP DEPTH	5,020	
	Totals				47			

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

James Page: 720-929-6747

Completion Supervisor Foreman

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

Completion Manager

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

Vernal Main Office

435-789-3342

Emergency Contact Information—Call 911

Vernal Regional Hospital Emergency: 435-789-3342

Police: (435) 789-5835

Fire: 435-789-4222

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

AMENDED REPORT FORM 8
(highlight changes)

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

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

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT or CA AGREEMENT NAME
UTU63047A

8. WELL NAME and NUMBER:
NBU 1022-13K4S

9. API NUMBER:
4304739473

10. FIELD AND POOL, OR WILDCAT
NATURAL BUTTES

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

12. COUNTY
UINTAH

13. STATE
UTAH

14. DATE SPUNDED:
11/13/2007

15. DATE T.D. REACHED:
3/5/2008

16. DATE COMPLETED:
4/13/2012

ABANDONED READY TO PRODUCE

17. ELEVATIONS (DF, RKB, RT, GL):
5293 GL

18. TOTAL DEPTH: MD **8,328** TVD **8,251**

19. PLUG BACK T.D.: MD **8,283** TVD **8,211**

20. IF MULTIPLE COMPLETIONS, HOW MANY? *

21. DEPTH BRIDGE MD PLUG SET: TVD

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)
CBL/CCL/GR-COMP 2-CD/CN/CAL

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

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

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
20"	14" STL	36.7#	0	40		28			
12 1/4"	9 5/8" J-55	36#	0	2,160		675		0	
7 7/8"	4 1/2" I-80	11.6#	0	8,328		1,510		830	

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"	7,664							

26. PRODUCING INTERVALS					27. PERFORATION RECORD				
FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)	INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS	
(A) WASATCH	5,070	5,717			5,070 5,717	0.36	47	Open <input checked="" type="checkbox"/>	Squeezed <input type="checkbox"/>
(B)								Open <input type="checkbox"/>	Squeezed <input type="checkbox"/>
(C)								Open <input type="checkbox"/>	Squeezed <input type="checkbox"/>
(D)								Open <input type="checkbox"/>	Squeezed <input type="checkbox"/>

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

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
5070-5717	PUMP 1,699 BBLs SLICK H2O & 48,235 LBS 30/50 OTTAWA SAND 2 STAGES

RECEIVED
MAY 05 2012
DIV. OF OIL, GAS & MINING

29. ENCLOSED ATTACHMENTS:

ELECTRICAL/MECHANICAL LOGS
 SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION

GEOLOGIC REPORT
 CORE ANALYSIS

DST REPORT
 OTHER: _____

DIRECTIONAL SURVEY

30. WELL STATUS:
PROD

31. INITIAL PRODUCTION

INTERVAL A (As shown in item #26)

DATE FIRST PRODUCED: 4/13/2012		TEST DATE: 4/30/2012		HOURS TESTED: 24		TEST PRODUCTION RATES: →	OIL – BBL: 0	GAS – MCF: 119	WATER – BBL: 0	PROD. METHOD: FLOWING
CHOKE SIZE: 48/64	TBG. PRESS. 373	CSG. PRESS. 435	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL: 0	GAS – MCF: 119	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	1,045
				BIRD'S NEST	1,298
				MAHOAGANY	1,675
				WASATCH	4,077
				MESAVERDE	6,240

35. ADDITIONAL REMARKS (Include plugging procedure)

Attached is the recompletion history and perforation report.

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 5/31/2012

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

1 General

1.1 Customer Information

Company	US ROCKIES REGION
Representative	
Address	

1.2 Well/Wellbore Information

Well	NBU 1022-13K4S YELLOW	Wellbore No.	OH
Well Name	NBU 1022-13K4S	Wellbore Name	NBU 1022-13K4S
Report No.	1	Report Date	4/1/2012
Project	UTAH-UINTAH	Site	WHITE RIVER PAD
Rig Name/No.	ROCKY MOUNTAIN WELL SERVICE 3/3	Event	RECOMPL/RESEREVEADD
Start Date	4/1/2012	End Date	4/10/2012
Spud Date	11/13/2007	Active Datum	RKB @5,310.00usft (above Mean Sea Level)
UWI	NBU 102213K-4S		

1.3 General

Contractor		Job Method		Supervisor	
Perforated Assembly		Conveyed Method			

1.4 Initial Conditions

Fluid Type		Fluid Density		Gross Interval	5,070.0 (usft)-5,717.0 (usft)	Start Date/Time	4/1/2012 12:00AM
Surface Press		Estimate Res Press		No. of Intervals	6	End Date/Time	4/1/2012 12:00AM
TVD Fluid Top		Fluid Head		Total Shots	47	Net Perforation Interval	14.00 (usft)
Hydrostatic Press		Press Difference		Avg Shot Density	3.36 (shot/ft)	Final Surface Pressure	
Balance Cond	NEUTRAL					Final Press Date	

1.5 Summary

2 Intervals

2.1 Perforated Interval

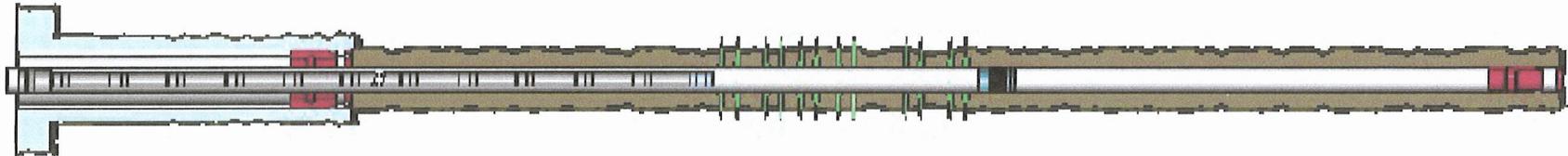
Date	Formation/ Reservoir	CCL@ (usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diamete r (in)	Carr Type /Carr Manuf	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
4/1/2012 12:00AM	WASATCH/			5,070.0	5,071.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diamete r (in)	Carr Type /Carr Manuf	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
4/1/2012 12:00AM	WASATCH/			5,182.0	5,184.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/1/2012 12:00AM	WASATCH/			5,220.0	5,222.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/1/2012 12:00AM	WASATCH/			5,276.0	5,278.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
4/1/2012 12:00AM	WASATCH/			5,591.0	5,593.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
4/1/2012 12:00AM	WASATCH/			5,712.0	5,717.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	

3 Plots

3.1 Wellbore Schematic



**US ROCKIES REGION
Operation Summary Report**

Well: NBU 1022-13K4S YELLOW

Spud Date: 11/13/2007

Project: UTAH-UINTAH

Site: WHITE RIVER PAD

Rig Name No: ROCKY MOUNTAIN WELL SERVICE
3/3

Event: RECOMPL/RESEREVEADD

Start Date: 4/1/2012

End Date: 4/10/2012

Active Datum: RKB @5,310.00usft (above Mean Sea Level)

UWI: NBU 102213K-4S

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
3/26/2012	7:00 - 7:30	0.50	COMP	48		P		HSM, RIGGING UP RIG
	7:30 - 13:00	5.50	COMP	47	A	P		RDMO NBU 1022-13O1CS, MIRU NBU 1022-13K4S 290 PSI FTP & FCP CONTROL TBG W/ 20 BBLS, N/D WH, N/U BOPS,R/U FLOOR, UNLAND TBG,R/U SCAN TECH,SCAN TBG OOH 32 JTS, EOT @ 6654' SDFN. WIND
3/27/2012	7:00 - 7:30	0.50	COMP	48		P		HSM, L/D TBG
	7:30 - 12:00	4.50	COMP	31	I	P		120# FCP, 580# SITP EOT @ 6654', POOH SCANNING TBG. SCAN 241JTS 2 3/8" L-80 TBG 239 JTS YELLOW BAND 2 JTS RED BAND ,BAD THREADS R/D SCAN TECH, R/D FLOOR N/D BOPS, N/U FV, RDMO, MIRU NBU 1022-13J4S
3/28/2012	15:00 - 17:00	2.00	COMP	34	I	P		MIRU, JW WIRELINE P/U HALB 10K CBP, RIH SET @ 5760', POOH, R/D JW, FILL CSG W/ RIG PUMP
3/29/2012	7:00 - 8:30	1.50	COMP	33	C	P		MIRU B&C QUICKTEST, PSI TEST CSG, FV, CBP TO 1000# 40#LOSS 15MIN, 3500# 31#LOSS 15 MIN, 6200# 30 MIN, 49#LOSS, GOOD TEST, RDMO B&C QUICK TEST, SWI
3/30/2012	7:00 - 12:00	5.00	COMP	37		P		PERF STG 1)PU 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH PERF AS PER PERF DESIGN. POOH. SWFW
4/2/2012	7:00 - 7:15	0.25	COMP	48		P		HSM, GOING OVER FRAC

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 1022-13K4S YELLOW

Spud Date: 11/13/2007

Project: UTAH-UINTAH

Site: WHITE RIVER PAD

Rig Name No: ROCKY MOUNTAIN WELL SERVICE
3/3

Event: RECOMPL/RESEREVEADD

Start Date: 4/1/2012

End Date: 4/10/2012

Active Datum: RKB @5,310.00usft (above Mean Sea Level)

UWI: NBU 102213K-4S

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	7:15 - 14:00	6.75	COMP	36	B	P		<p>PERF & FRAC FOLLOWING WELL AS PER DESIGN W/ 30/50 MESH SAND & SLK WTR. ALL CBP'S ARE HALIBURTON 8K CBP'S. REFER TO STIM PJR FOR FLUID, SAND AND CHEMICAL VOLUME PUMP'D</p> <p>FRAC STG #1] WHP=309#, BRK DN PERFS=3,200#, @=4.7 BPM, INJ RT=51, INJ PSI=3,329#, INITIAL ISIP=964#, INITIAL FG=.61, FINAL ISIP=1,705#, FINAL FG=.74, AVERAGE RATE=51, AVERAGE PRESSURE=3,092#, MAX RATE=51.5, MAX PRESSURE=4,537#, NET PRESSURE INCREASE=741#, 23/23 100% CALC PERFS OPEN. X OVER TO WIRE LINE</p> <p>PERF STG #2] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @=5,308', PERF WASATCH USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW</p> <p>FRAC STG #2] WHP=468#, BRK DN PERFS=1,629#, @=3.4 BPM, INJ RT=51.1, INJ PSI=3,477#, INITIAL ISIP=808#, INITIAL FG=.59, FINAL ISIP=1,520#, FINAL FG=.73, AVERAGE RATE=51, AVERAGE PRESSURE=3,364#, MAX RATE=51.2, MAX PRESSURE=4,025#, NET PRESSURE INCREASE=712#, 21/24 88% CALC PERFS OPEN. X OVER TO WIRE LINE</p> <p>P/U RIH W/ HALIBURTON 8K CBP, SET FOR TOP KILL @=5,020</p> <p>TOTAL FLUID PUMP'D=1,699 BBLs TOTAL SAND PUMP'D=48,235# HSM- JSA</p>
4/10/2012	7:00 - 7:15	0.25	COMP	48		P		

US ROCKIES REGION
Operation Summary Report

Well: NBU 1022-13K4S YELLOW

Spud Date: 11/13/2007

Project: UTAH-UINTAH

Site: WHITE RIVER PAD

Rig Name No: ROCKY MOUNTAIN WELL SERVICE
3/3

Event: RECOMPL/RESEREVEADD

Start Date: 4/1/2012

End Date: 4/10/2012

Active Datum: RKB @5,310.00usft (above Mean Sea Level)

UWI: NBU 102213K-4S

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	7:15 - 17:00	9.75	COMP	44	C	P		<p>NDWH, NUBOP, P/U 3 7/8" BIT, PUMP OPEN BIT SUB & XN SEAT NIPPLE, RIH W/ 158 JTS 2 3/8" L-80 TBG OFF FLOAT, TAG FILL @ 5010', R/U PWR SWWL & BREAK CIRC, PRESS TEST BOP TO 3000 PSI, TEST GOOD.</p> <p>C/O 10' SAND, TAG 1ST PLUG @ 5,020' DRL PLUG IN 10 MIN. 20 PSI INCREASE, CSG PRESS 0 PSI, RIH TAG FILL @ 5,273', R/U WEATHERFORD FOAM UNIT & BREAK CIRC.</p> <p>C/O 35' SAND, TAG 2 ND PLUG @ 5,308' DRL PLUG IN 10 MIN. 75 PSI INCREASE, CSG PRESS 300 PSI, RIH TAG FILL @ 5,742', ISOL @ 5,760', CIRC WELL CLEAN W/ FOAM UNIT, R/D FOAM UNIT & PWR SWWL, POOH & L/D 22 JTS ON FLOAT, LAND TBG W/ 159 JTS, EOT @ 5055.87'.</p> <p>R/D FLOOR & TBG EQUIP, ND BOPS, NU WH, DROP BALL, PMP OPEN BIT W/ 1350 PSI.</p> <p>TURN OVER TO FLOW BACK CREW. TBG PRESS 300 PSI CSG PRESS 600 PSI.</p> <p>RDMO, MIRU ON NBU 1022-13J4S, SDFN.</p> <p>KB= 17' 4 1/16" WEATHERFORD HANGER= .83' 159 JTS 2 3/8" L-80 = 5,035.84' POBS= 2.20' EOT @ 5,055.87'</p> <p>TWTR= 1,829 BBLS TWR= 263 BBLS TWLTR= 1,566 BBLS</p> <p>SENT 81 JTS YELLOW BAND 2 3/8" L-80 TBG (2,574.52') 1 JT RED BAND (31.74') TO SAMUELS YARD.</p>
4/13/2012	8:00 -		PROD	50				<p>WELL TURNED TO SALES AT 0800 HR ON 4/13/2012 - 824 MCFD, 480 BWPD, FCP 900#, FTP 600#, 20/64 CK</p>
4/30/2012	7:00 -			50				<p>WELL IP'D ON 4/30/12 - 119 MCFD, 0 BOPD, 0 BWPD, CP 435#, FTP 373#, CK 48/64", LP 114#, 24 HRS</p>
5/1/2012	-							

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 1022-13K4S YELLOW

Spud Date: 11/13/2007

Project: UTAH-UINTAH

Site: WHITE RIVER PAD

Rig Name No: ROCKY MOUNTAIN WELL SERVICE
3/3

Event: WELL WORK EXPENSE

Start Date: 4/20/2012

End Date: 5/10/2012

Active Datum: RKB @5,310.00usft (above Mean Sea Level)

UWI: NBU 102213K-4S

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
5/9/2012	7:00 - 7:15	0.25	PROD	48		P		HSM - JSA
	7:15 - 15:00	7.75	PROD	31	I	P		MIRU, NDWH, NUBOP, UNLAND TBG, POOH W/ 159 JTS TBG, L/D PUMP OPEN BIT SUB, P/U 3 7/8" BIT, POBS, OLD XN SN, RIH W/ 159 JTS 2 3/8" L-80, P/U TBG OFF FLOAT CONT TO RIH W/ 22 JTS TAG FILL @ 5,710', R/U PWR SWIVEL, SWIFN
5/10/2012	7:00 - 7:15	0.25	PROD	48		P		HSM - JSA
	7:15 - 15:00	7.75	PROD	44	C	P		R/U WEATHERFORD FOAM UNIT, BRK CIRC, C/O 40' SAND TAG PLUG @ 5,750', D/O CBP IN 3 MIN, 300 PSI INC, 400 PSI FCP, CONT TO P/U TBG OFF FLOAT RIH TAG FILL @ 8,262', 68' BELOW BTM PERF, CIRC WELL CLEAN, R/D PWR SWIVEL & FOAM UNIT, POOH L/D 19 JTS ON FLOAT, LAND W/ 242 JTS 2 3/8" L-80 YELLOW BAND, EOT @ 7,663.83', R/D FLOOR & TBG EQUIP, NDBOP, NUWH, DROP BALL POBS ??? PUMPED 40 BBLS NO PSI INC, SWI TO BUILD PRESS, SICP 800 PSI, SITP 0 PSI, RDMO. MIRU ON NBU 1022-13M1S, SDFN
								KB - 17' HANGER - .83' 242 JTS L-80 - 7,643.80' POBS W/ XN - 2.20' EOT @ 7,663.83'
								TWTR = 185 BBLS TWR = 200 BBLS TWLTR = 0 BBLS