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 ☑ REENTER ☐ DEEPEN ☐	7. IF INDIAN, ALLOTTEE OR TRIBE NAME:
B. TYPE OF WELL: OIL ☐ GAS ☑ OTHER _____ SINGLE ZONE ☐ MULTIPLE ZONE ☑	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 1022-13O1AS
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) 637486 X 4422841 Y 39.946422 -109.390647 AT SURFACE: 1731'FSL, 1784'FWL AT PROPOSED PRODUCING ZONE: 1310'FSL, 1540'FEL 638084 X 4422726 Y 39.945293 -109.383694	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)	16. NUMBER OF ACRES IN LEASE:	17. NUMBER OF ACRES ASSIGNED TO THIS WELL:
1731'	600.00	
18. DISTANCE TO NEAREST WELL (DRILLING, COMPLETED, OR APPLIED FOR) ON THIS LEASE (FEET)	**19. PROPOSED DEPTH:**	**20. BOND DESCRIPTION:**
REFER TO TOPO C	8,140	~~RLB0005237~~ 22013542
21. ELEVATIONS (SHOW WHETHER DF, RT, GR, ETC.):	**22. APPROXIMATE DATE WORK WILL START:**	**23. ESTIMATED DURATION:**
5293'GL		

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	8,140	1310 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:

- ☑ WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER
- ☑ EVIDENCE OF DIVISION OF WATER RIGHTS APPROVAL FOR USE OF WATER
- ☑ COMPLETE DRILLING PLAN
- ☐ 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: 43-047-39478

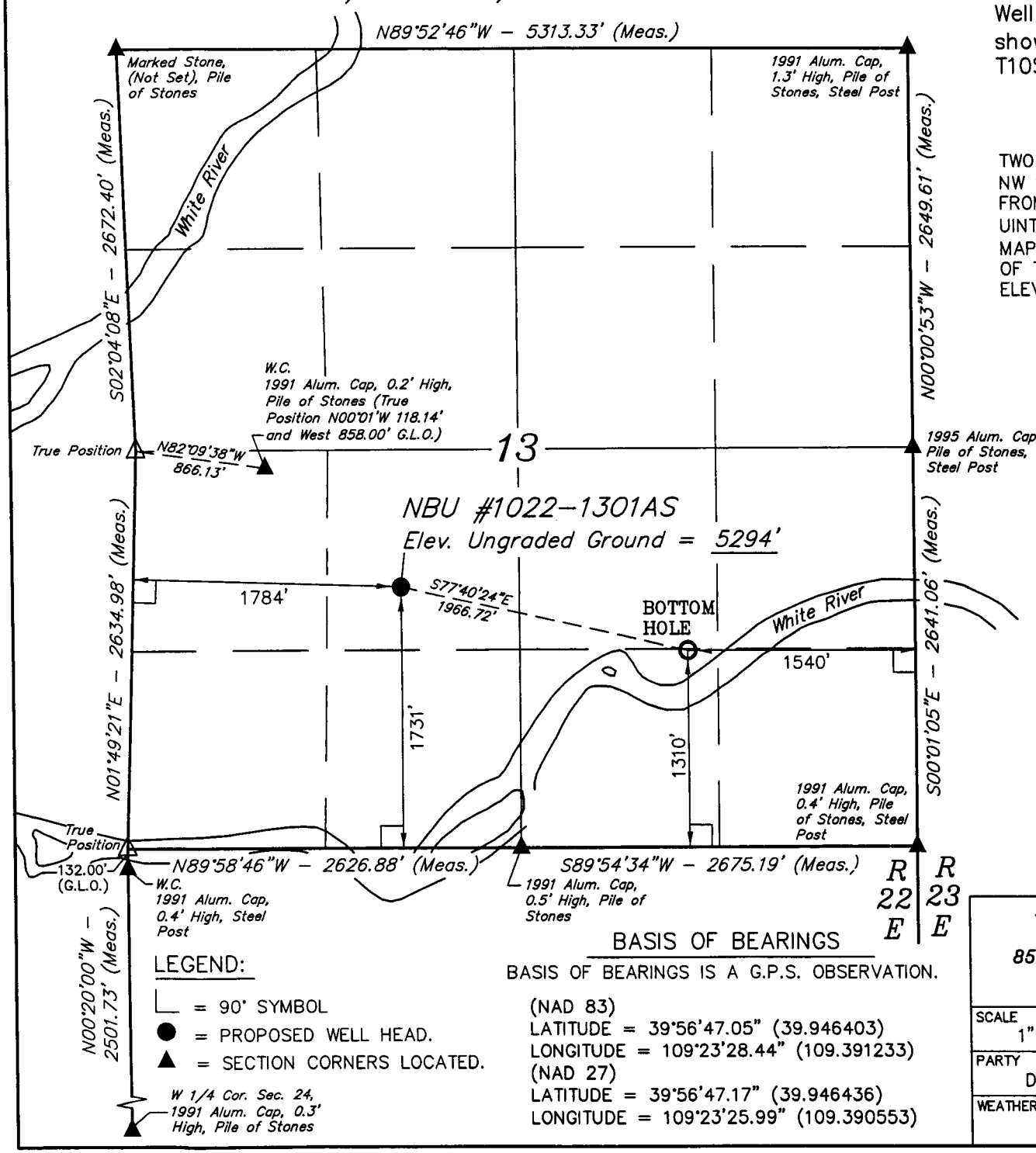
Approved by the Utah Division of Oil, Gas and Mining
APPROVAL:

Date: 09-04-07
By: [signature]

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

(11/2001) (See Instructions on Reverse Side)

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



LEGEND:

└ = 90° SYMBOL

● = PROPOSED WELL HEAD.

▲ = SECTION CORNERS LOCATED.

BASIS OF BEARINGS

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

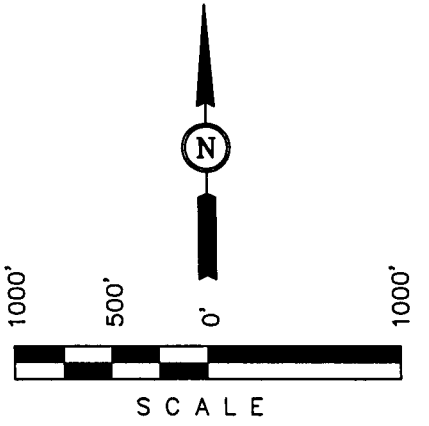
(NAD 83)
LATITUDE = 39°56'47.05" (39.946403)
LONGITUDE = 109°23'28.44" (109.391233)
(NAD 27)
LATITUDE = 39°56'47.17" (39.946436)
LONGITUDE = 109°23'25.99" (109.390553)

Kerr-McGee Oil & Gas Onshore LP

Well location, NBU #1022-1301AS, 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.



CERTIFICATE

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

REGISTERED LAND SURVEYOR
REGISTRATION NO. 161319
STATE OF UTAH

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

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

NBU 1022-13O1AS
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:**

Formation	Depth
Uinta	0- Surface
Green River	934'
Top of Birds Nest Water	1242'
Mahogany	1614'
Wasatch	3976'
Mesaverde	6204'
MVU2	7037'
MVL1	7598'
TD	8140'

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

Substance	Formation	Depth
	Green River	934'
Water	Top of Birds Nest Water	1242'
	Mahogany	1614'
Gas	Wasatch	3976'
Gas	Mesaverde	6204'
Gas	MVU2	7037'
Gas	MVL1	7598'
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 8140' TD, approximately equals 5047 psi (calculated at 0.62 psi/foot).

Maximum anticipated surface pressure equals approximately 3256 psi (bottomhole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

8. **Anticipated Starting Dates:**

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

9. **Variances:**

Please refer to the attached Drilling Program.

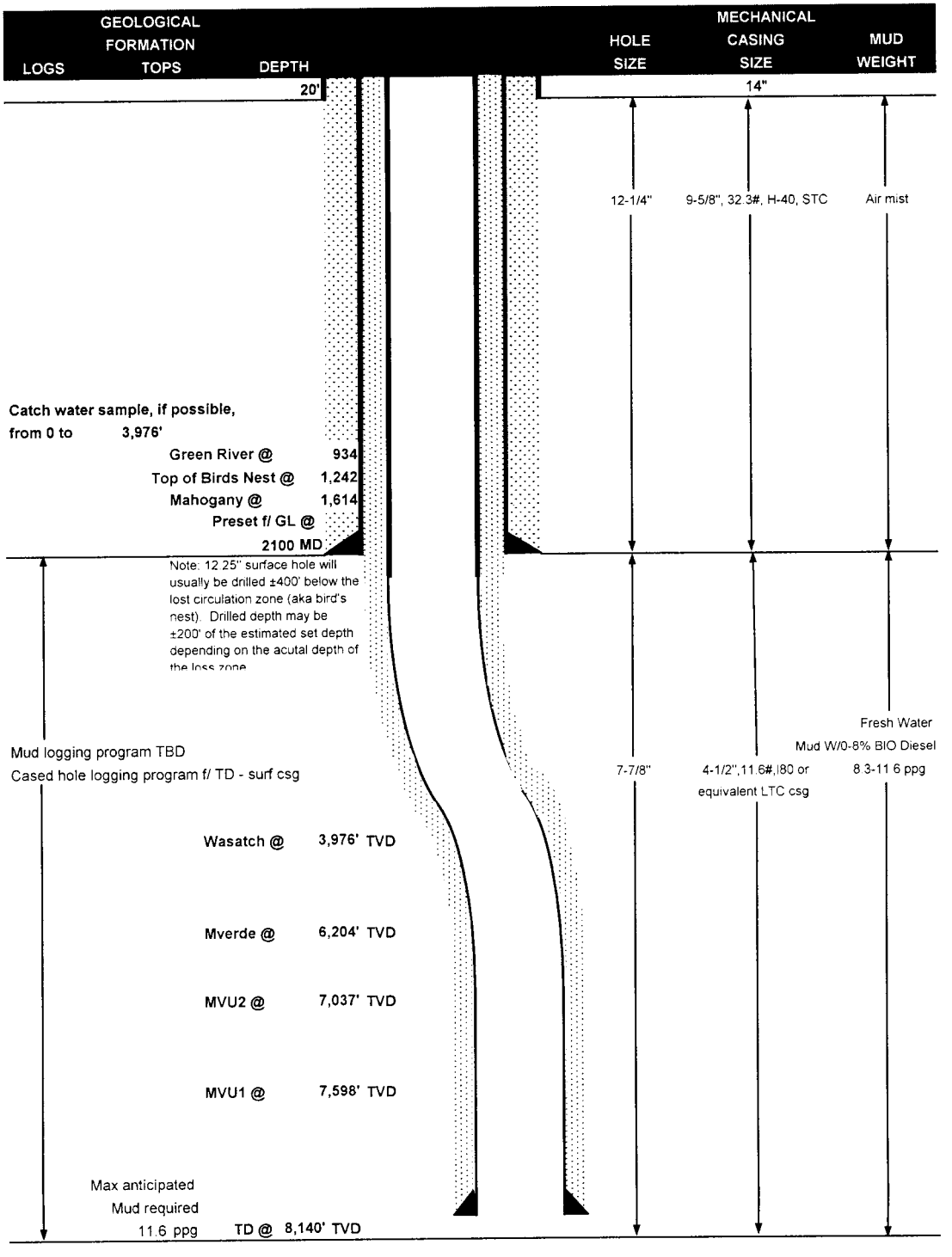
10. **Other Information:**

Please refer to the attached Drilling Program.

KERR-McGEE OIL & GAS ONSHORE LP

DRILLING PROGRAM

COMPANY NAME	KERR-McGEE OIL & GAS ONSHORE LP	DATE	August 1, 2007
WELL NAME	**NBU 1022-13O1AS**	TD	8,140' TVD
FIELD	Natural Buttes COUNTY Uintah STATE Utah	ELEVATION	5,293' GL KB 5,308'
SURFACE LOCATION	NE/SW SEC. 13, T10S, R22E 1731'FSL, 1784'FWL		
	Latitude: 39.946403 Longitude: 109.391233		
BTM HOLE LOCATION	NW/SW/SE SEC. 13, T10S, R22E 1310'FSL, 1540'FEL		
OBJECTIVE ZONE(S)	Wasatch/Mesaverde		
ADDITIONAL INFO	Regulatory Agencies: UDOGM (MINERALS AND SURFACE), BLM, Tri-County Health Dept.		



KERR-McGEE OIL & GAS ONSHORE LP

DRILLING PROGRAM

CASING PROGRAM

	SIZE	INTERVAL			WT.	GR.	CPLG.	DESIGN FACTORS		
								BURST	COLLAPSE	TENSION
CONDUCTOR	14"	0-40'								
								2270	1370	254000
SURFACE	9-5/8"	0	to	2100	32.30	H-40	STC	0.73*******	1.39	4.28
								7780	6350	201000
PRODUCTION	4-1/2"	0	to	8140	11.60	I-80	LTC	2.49	1.29	2.44

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 3119 psi

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

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE	LEAD	500	Premium cmt + 2% CaCl + .25 pps flocele	215	60%	15.60	1.18
Option 1	TOP OUT CMT (1)	200	20 gals sodium silicate + Premium cmt + 2% CaCl + .25 pps flocele	50		15.60	1.18
	TOP OUT CMT (2)	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
SURFACE		NOTE: If well will circulate water to surface, option 2 will be utilized					
Option 2	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	5,700'	Premium Lite II + 3% KCl + 0.25 pps celloflake + 5 pps gilsonite + 10% gel + 0.5% extender	620	60%	11.00	3.38
	TAIL	2,440'	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.

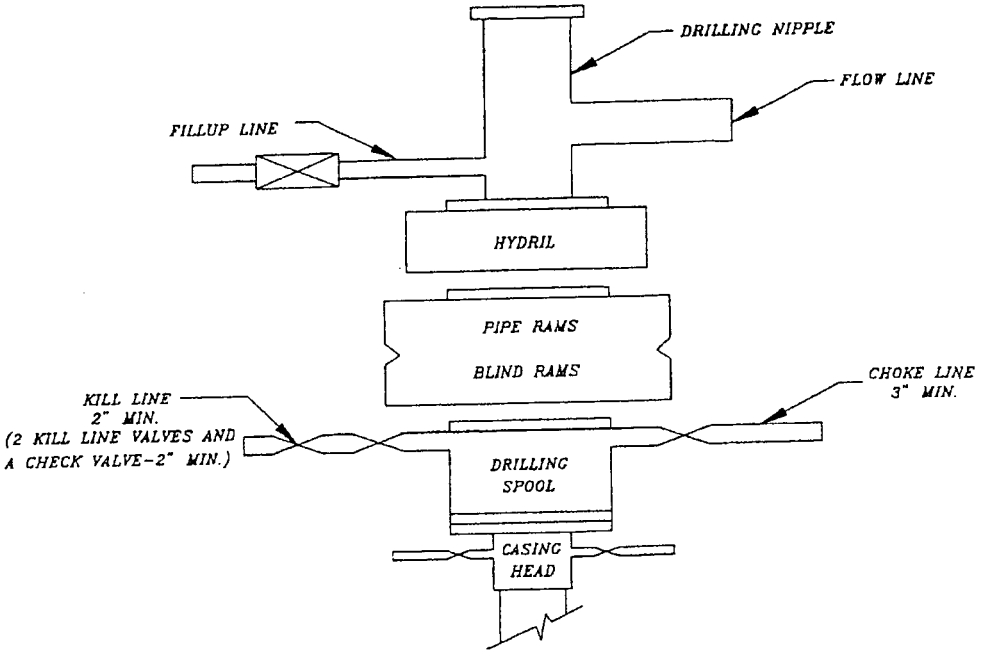
DRILLING ENGINEER: _____ **DATE:** _____

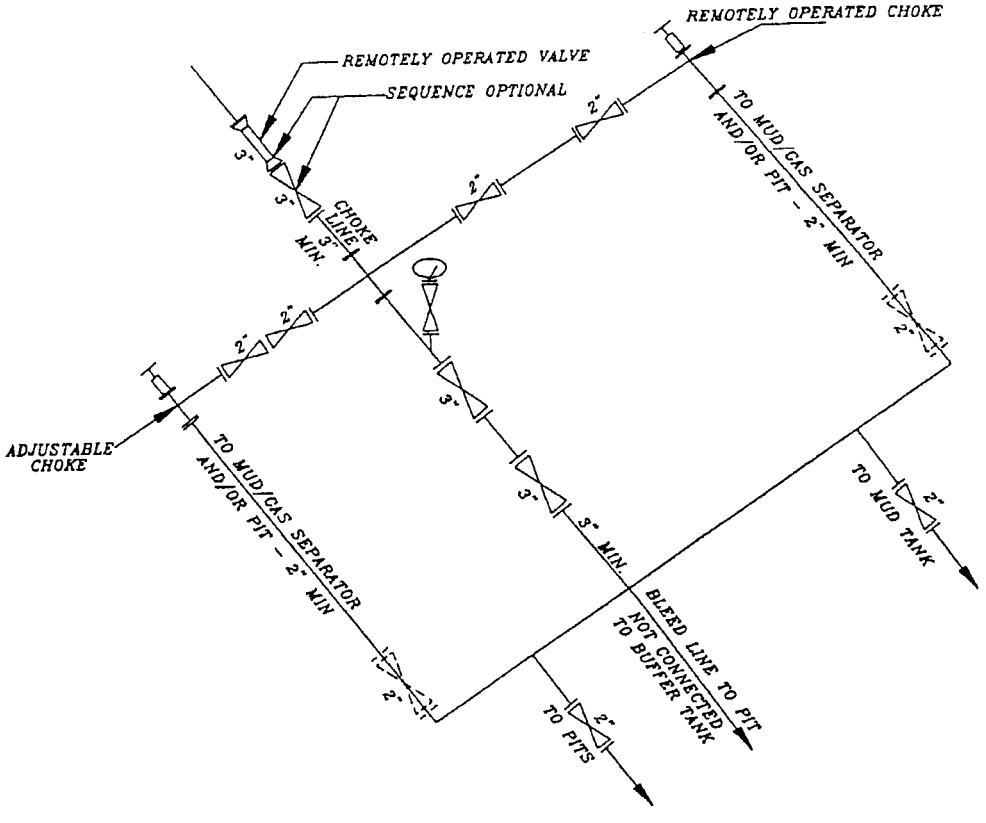
Brad Laney

DRILLING SUPERINTENDENT: _____ **DATE:** _____

Randy Bayne

5M BOP STACK and CHOKE MANIFOLD SYSTEM





NBU 1022-13O1AS
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 KerrMcGee

ANADARKO - KERR McGEE

NBU#1022-13O1AS

UINTAH COUNTY, UTAH

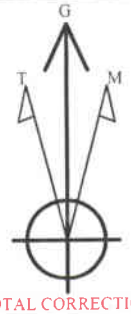
WELL FILE: PLAN 2

DATE: JULY 12, 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

KERR MCGEE OIL & GAS
NBU #1022-13O1AS
UINTAH COUNTY, UTAH

Anadarko KerrMcGee Weatherford



Azimuths to Grid North
True North: -1.03°
Magnetic North: 10.52°

Magnetic Field
Strength: 52755nT
Dip Angle: 65.97°
Date: 6/29/2007
Model: bggm2006

TOTAL CORRECTION TO GRID NORTH: 10.52°

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	100.61	0.00	0.00	0.00	0.00	0.00	0.00	
2	2160.00	0.00	100.61	2160.00	0.00	0.00	0.00	0.00	0.00	
3	3360.00	30.00	100.61	3305.92	-56.52	301.80	2.50	100.61	307.05	
4	5751.45	30.00	100.61	5376.97	-276.64	1477.09	0.00	0.00	1502.77	
5	7751.45	0.00	100.61	7286.83	-370.84	1980.09	1.50	180.00	2014.52	
6	8604.62	0.00	100.61	8140.00	-370.84	1980.09	0.00	0.00	2014.52	PBHL

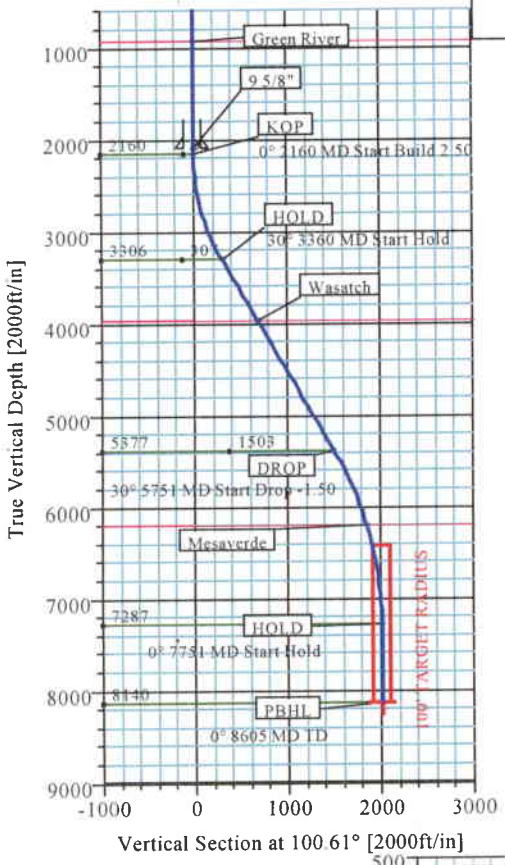
WELL DETAILS

Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
13O1AS	0.00	0.00	14510586.10	2091437.50	39°56'46.962N	109°23'27.032W	N/A

KB = 5308'
GR = 5293'

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
PBHL	8140.00	-370.84	1980.09	14510215.26	2093417.59	Circle (Radius: 100)



FORMATION TOP DETAILS

No	TVDPath	MDPath	Formation
1	934.00	934.00	Green River
2	3976.00	4133.75	Wasatch
3	6204.00	6653.56	Mesaverde

FIELD DETAILS

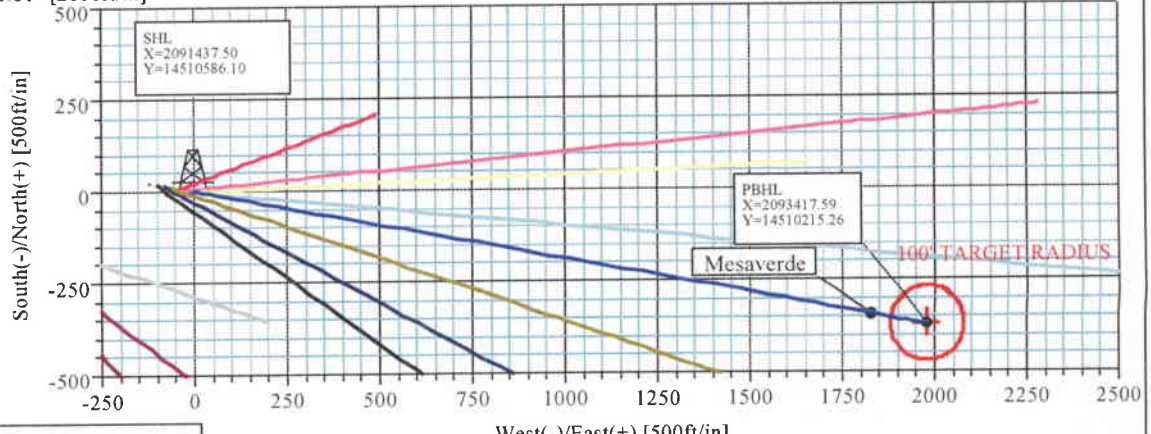
UINTAH COUNTY, UTAH (UTM Zone 12N-NAD 27)

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



Plan: Plan #2 (13O1AS/1)

Created By: R. JOYNER Date: 7/13/2007

Weatherford Drilling Services
DIRECTIONAL PLAN REPORT

Weatherford

Company:	Anadarko-Kerr-McGee	**Date:** 7/13/2007	**Time:** 09:20:43	**Page:**	1
Field:	UINTAH COUNTY, UTAH (UTM Zone 12N-NAD 27)	**Co-ordinate(NE) Reference:**	Site: NBU 1022-13O1AS, Grid North		
Site:	NBU 1022-13O1AS	**Vertical (TVD) Reference:**	SITE 5308.0		
Well:	13O1AS	**Section (VS) Reference:**	Well (0.00N,0.00E,100.61Azi)		
Wellpath:	1	**Survey Calculation Method:**	Minimum Curvature	**Db:**	Sybase

Plan:	Plan #2	**Date Composed:**	7/11/2007
		Version:	1
Principal:	Yes	**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 1022-13O1AS

Site Position:		**Northing:**	14510586.10 ft	**Latitude:**	39 56 46.962 N
From:	Map	**Easting:**	2091437.50 ft	**Longitude:**	109 23 27.032 W
Position Uncertainty:	0.00 ft			**North Reference:**	Grid
Ground Level:	5293.00 ft			**Grid Convergence:**	1.03 deg

Well: 13O1AS **Slot Name:**

Well Position:	+N/-S	0.00 ft	**Northing:**	14510586.10 ft	**Latitude:**	39 56 46.962 N
	+E/-W	0.00 ft	**Easting:**	2091437.50 ft	**Longitude:**	109 23 27.032 W
Position Uncertainty:		0.00 ft				

Wellpath: 1

Current Datum:	SITE	**Height**	5308.00 ft	**Drilled From:**	Surface
Magnetic Data:	6/29/2007			**Tie-on Depth:**	0.00 ft
Field Strength:	52755 nT			**Above System Datum:**	Mean Sea Level
				Declination:	11.55 deg
				Mag Dip Angle:	65.97 deg

Vertical Section:	Depth From (TVD) ft	+N/-S ft	+E/-W ft	Direction deg
	0.00	0.00	0.00	100.61

Plan Section Information

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg	Target
0.00	0.00	100.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2160.00	0.00	100.61	2160.00	0.00	0.00	0.00	0.00	0.00	0.00	
3360.00	30.00	100.61	3305.92	-56.52	301.80	2.50	2.50	0.00	100.61	
5751.45	30.00	100.61	5376.97	-276.64	1477.09	0.00	0.00	0.00	0.00	
7751.45	0.00	100.61	7286.83	-370.84	1980.09	1.50	-1.50	0.00	180.00	
8604.62	0.00	100.61	8140.00	-370.84	1980.09	0.00	0.00	0.00	0.00	PBHL

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	MapN ft	MapE ft	Comment
2100.00	0.00	100.61	2100.00	0.00	0.00	0.00	0.00	14510586.10	2091437.50	9 5/8"
2160.00	0.00	100.61	2160.00	0.00	0.00	0.00	0.00	14510586.10	2091437.50	KOP
2200.00	1.00	100.61	2200.00	-0.06	0.34	0.35	2.50	14510586.04	2091437.84	
2300.00	3.50	100.61	2299.91	-0.79	4.20	4.27	2.50	14510585.31	2091441.70	
2400.00	6.00	100.61	2399.56	-2.31	12.34	12.55	2.50	14510583.79	2091449.84	
2500.00	8.50	100.61	2498.75	-4.63	24.74	25.17	2.50	14510581.47	2091462.24	
2600.00	11.00	100.61	2597.30	-7.75	41.39	42.11	2.50	14510578.35	2091478.89	
2700.00	13.50	100.61	2695.02	-11.66	62.24	63.32	2.50	14510574.44	2091499.74	
2800.00	16.00	100.61	2791.71	-16.34	87.26	88.78	2.50	14510569.76	2091524.76	
2900.00	18.50	100.61	2887.21	-21.80	116.41	118.43	2.50	14510564.30	2091553.91	
3000.00	21.00	100.61	2981.32	-28.02	149.62	152.22	2.50	14510558.08	2091587.12	
3100.00	23.50	100.61	3073.87	-34.99	186.84	190.08	2.50	14510551.11	2091624.34	
3200.00	26.00	100.61	3164.67	-42.70	227.98	231.95	2.50	14510543.40	2091665.48	
3300.00	28.50	100.61	3253.57	-51.13	272.98	277.73	2.50	14510534.97	2091710.48	
3360.00	30.00	100.61	3305.92	-56.52	301.80	307.05	2.50	14510529.58	2091739.30	HOLD

Weatherford Drilling Services
DIRECTIONAL PLAN REPORT

Weatherford

Company:	Anadarko-Kerr-McGee	**Date:** 7/13/2007	**Time:** 09:20:43	**Page:**	2
Field:	UINTAH COUNTY, UTAH (UTM Zone 12N-NAD 27)	**Co-ordinate(NE) Reference:**	Site: NBU 1022-13O1AS, Grid North		
Site:	NBU 1022-13O1AS	**Vertical (TVD) Reference:**	SITE 5308.0		
Well:	13O1AS	**Section (VS) Reference:**	Well (0.00N,0.00E,100.61Azi)		
Wellpath:	1	**Survey Calculation Method:**	Minimum Curvature	**Db:**	Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	MapN ft	MapE ft	Comment
3400.00	30.00	100.61	3340.56	-60.20	321.46	327.05	0.00	14510525.90	2091758.96	
3500.00	30.00	100.61	3427.16	-69.41	370.60	377.05	0.00	14510516.69	2091808.10	
3600.00	30.00	100.61	3513.76	-78.61	419.75	427.05	0.00	14510507.49	2091857.25	
3700.00	30.00	100.61	3600.36	-87.82	468.89	477.05	0.00	14510498.28	2091906.39	
3800.00	30.00	100.61	3686.97	-97.02	518.04	527.05	0.00	14510489.08	2091955.54	
3900.00	30.00	100.61	3773.57	-106.23	567.19	577.05	0.00	14510479.87	2092004.69	
4000.00	30.00	100.61	3860.17	-115.43	616.33	627.05	0.00	14510470.67	2092053.83	
4100.00	30.00	100.61	3946.77	-124.63	665.48	677.05	0.00	14510461.47	2092102.98	
4133.75	30.00	100.61	3976.00	-127.74	682.06	693.92	0.00	14510458.36	2092119.56	Wasatch
4200.00	30.00	100.61	4033.38	-133.84	714.62	727.05	0.00	14510452.26	2092152.12	
4300.00	30.00	100.61	4119.98	-143.04	763.77	777.05	0.00	14510443.06	2092201.27	
4400.00	30.00	100.61	4206.58	-152.25	812.91	827.05	0.00	14510433.85	2092250.41	
4500.00	30.00	100.61	4293.18	-161.45	862.06	877.05	0.00	14510424.65	2092299.56	
4600.00	30.00	100.61	4379.79	-170.65	911.20	927.05	0.00	14510415.45	2092348.70	
4700.00	30.00	100.61	4466.39	-179.86	960.35	977.05	0.00	14510406.24	2092397.85	
4800.00	30.00	100.61	4552.99	-189.06	1009.50	1027.05	0.00	14510397.04	2092447.00	
4900.00	30.00	100.61	4639.59	-198.27	1058.64	1077.05	0.00	14510387.83	2092496.14	
5000.00	30.00	100.61	4726.20	-207.47	1107.79	1127.05	0.00	14510378.63	2092545.29	
5100.00	30.00	100.61	4812.80	-216.68	1156.93	1177.05	0.00	14510369.42	2092594.43	
5200.00	30.00	100.61	4899.40	-225.88	1206.08	1227.05	0.00	14510360.22	2092643.58	
5300.00	30.00	100.61	4986.00	-235.08	1255.22	1277.05	0.00	14510351.02	2092692.72	
5400.00	30.00	100.61	5072.61	-244.29	1304.37	1327.05	0.00	14510341.81	2092741.87	
5500.00	30.00	100.61	5159.21	-253.49	1353.51	1377.05	0.00	14510332.61	2092791.01	
5600.00	30.00	100.61	5245.81	-262.70	1402.66	1427.05	0.00	14510323.40	2092840.16	
5700.00	30.00	100.61	5332.42	-271.90	1451.81	1477.05	0.00	14510314.20	2092889.31	
5751.45	30.00	100.61	5376.97	-276.64	1477.09	1502.77	0.00	14510309.46	2092914.59	DROP
5800.00	29.27	100.61	5419.17	-281.06	1500.69	1526.78	1.50	14510305.04	2092938.19	
5900.00	27.77	100.61	5507.03	-289.84	1547.62	1574.53	1.50	14510296.26	2092985.12	
6000.00	26.27	100.61	5596.11	-298.21	1592.27	1619.96	1.50	14510287.89	2093029.77	
6100.00	24.77	100.61	5686.35	-306.14	1634.62	1663.04	1.50	14510279.96	2093072.12	
6200.00	23.27	100.61	5777.69	-313.63	1674.63	1703.75	1.50	14510272.47	2093112.13	
6300.00	21.77	100.61	5870.06	-320.68	1712.28	1742.05	1.50	14510265.42	2093149.78	
6400.00	20.27	100.61	5963.40	-327.29	1747.54	1777.92	1.50	14510258.81	2093185.04	
6500.00	18.77	100.61	6057.65	-333.44	1780.38	1811.34	1.50	14510252.66	2093217.88	
6600.00	17.27	100.61	6152.74	-339.13	1810.79	1842.28	1.50	14510246.97	2093248.29	
6653.56	16.47	100.61	6204.00	-341.99	1826.07	1857.82	1.50	14510244.11	2093263.57	Mesaverde
6700.00	15.77	100.61	6248.61	-344.37	1838.74	1870.71	1.50	14510241.73	2093276.24	
6800.00	14.27	100.61	6345.19	-349.14	1864.22	1896.63	1.50	14510236.96	2093301.72	
6875.50	13.14	100.61	6418.54	-352.43	1881.80	1914.52	1.50	14510233.67	2093319.30	INT. TGT CYLINDER
6900.00	12.77	100.61	6442.42	-353.44	1887.20	1920.01	1.50	14510232.66	2093324.70	
7000.00	11.27	100.61	6540.22	-357.28	1907.67	1940.84	1.50	14510228.82	2093345.17	
7100.00	9.77	100.61	6638.53	-360.64	1925.62	1959.10	1.50	14510225.46	2093363.12	
7200.00	8.27	100.61	6737.30	-363.53	1941.03	1974.78	1.50	14510222.57	2093378.53	
7300.00	6.77	100.61	6836.43	-365.93	1953.90	1987.87	1.50	14510220.17	2093391.40	
7400.00	5.27	100.61	6935.88	-367.87	1964.21	1998.36	1.50	14510218.23	2093401.71	
7500.00	3.77	100.61	7035.56	-369.32	1971.96	2006.24	1.50	14510216.78	2093409.46	
7600.00	2.27	100.61	7135.42	-370.29	1977.14	2011.51	1.50	14510215.81	2093414.64	
7700.00	0.77	100.61	7235.38	-370.78	1979.75	2014.17	1.50	14510215.32	2093417.25	
7751.45	0.00	100.61	7286.83	-370.84	1980.09	2014.52	1.50	14510215.26	2093417.59	HOLD
7800.00	0.00	100.61	7335.38	-370.84	1980.09	2014.52	0.00	14510215.26	2093417.59	
7900.00	0.00	100.61	7435.38	-370.84	1980.09	2014.52	0.00	14510215.26	2093417.59	
8000.00	0.00	100.61	7535.38	-370.84	1980.09	2014.52	0.00	14510215.26	2093417.59	
8100.00	0.00	100.61	7635.38	-370.84	1980.09	2014.52	0.00	14510215.26	2093417.59	

Weatherford Drilling Services
DIRECTIONAL PLAN REPORT

Weatherford

Company:	Anadarko-Kerr-McGee	**Date:** 7/13/2007 **Time:** 09:20:43	**Page:** 3
Field:	UINTAH COUNTY, UTAH (UTM Zone 12N-NAD 27)	**Co-ordinate(NE) Reference:**	Site: NBU 1022-13O1AS, Grid North
Site:	NBU 1022-13O1AS	**Vertical (TVD) Reference:**	SITE 5308.0
Well:	13O1AS	**Section (VS) Reference:**	Well (0.00N,0.00E,100.61Azi)
Wellpath:	1	**Survey Calculation Method:**	Minimum Curvature **Db:** Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	MapN ft	MapE ft	Comment
8200.00	0.00	100.61	7735.38	-370.84	1980.09	2014.52	0.00	14510215.26	2093417.59	
8300.00	0.00	100.61	7835.38	-370.84	1980.09	2014.52	0.00	14510215.26	2093417.59	
8400.00	0.00	100.61	7935.38	-370.84	1980.09	2014.52	0.00	14510215.26	2093417.59	
8500.00	0.00	100.61	8035.38	-370.84	1980.09	2014.52	0.00	14510215.26	2093417.59	
8600.00	0.00	100.61	8135.38	-370.84	1980.09	2014.52	0.00	14510215.26	2093417.59	
8604.62	0.00	100.61	8140.00	-370.84	1980.09	2014.52	0.00	14510215.26	2093417.59	PBHL

Targets

Name	Description Dip.	Dir.	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	<---- Latitude ----> Deg Min Sec	<--- Longitude ---> Deg Min Sec
PBHL -Circle (Radius: 100) -Plan hit target			8140.00	-370.84	1980.09	14510215.26	2093417.59	39 56 42.943 N	109 23 1.695 W

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
3360.00	3305.92	HOLD
5751.45	5376.97	DROP
6875.50	6418.54	INT. TGT CYLINDER
7751.45	7286.83	HOLD
8604.61	8139.99	PBHL

Formations

MD ft	TVD ft	Formations	Lithology	Dip Angle deg	Dip Direction deg
934.00	934.00	Green River		0.00	0.00
4133.75	3976.00	Wasatch		0.00	0.00
6653.56	6204.00	Mesaverde		0.00	0.00

Weatherford Drilling Services
Anticollision Report

Weatherford

Company:	Anadarko-Kerr-McGee	**Date:** 7/13/2007	**Time:** 09:21:40	**Page:**	1
Field:	UINTAH COUNTY, UTAH (UTM Zone 12N-NAD 27)				
Reference Site:	NBU 1022-13O1AS	**Co-ordinate(NE) Reference:**	Site: NBU 1022-13O1AS, Grid North		
Reference Well:	13O1AS	**Vertical (TVD) Reference:**	SITE 5308.0		
Reference Wellpath:	1			**Db:**	Sybase

NO GLOBAL SCAN: Using user defined selection & scan criteria		**Reference:**	Plan: Plan #2
Interpolation Method:	MD **Interval:** 100.00 ft	**Error Model:**	ISCWSA Ellipse
Depth Range:	0.00 to 8604.62 ft	**Scan Method:**	Closest Approach 3D
Maximum Radius:	10000.00 ft	**Error Surface:**	Ellipse

Plan:	Plan #2	**Date Composed:**	7/11/2007
		Version:	1
Principal:	Yes	**Tied-to:**	From Surface

Summary

<---------- Offset Wellpath ----------> Site	Well	Wellpath	Reference MD ft	Offset MD ft	Ctr-Ctr Distance ft	Edge Distance ft	Separation Factor	Warning
NBU 1022-13I3	13I3	1 V0 Plan: Plan #2 V1	2400.00	2401.92	20.11	10.33	2.06	

Site: NBU 1022-13I3
Well: 13I3
Wellpath: 1 V0 Plan: Plan #2 V1 **Inter-Site Error:** 0.00 ft

Reference MD ft	Reference TVD ft	Offset MD ft	Offset TVD ft	Semi-Major Axis Ref ft	Semi-Major Axis Offset ft	TFO-HS deg	Offset Location North ft	Offset Location East ft	Ctr-Ctr Distance ft	Edge Distance ft	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	280.38	3.50	-19.10	19.42			No Data
100.00	100.00	100.00	100.00	0.09	0.09	280.38	3.50	-19.10	19.42	19.24	109.08	
200.00	200.00	200.00	200.00	0.30	0.30	280.38	3.50	-19.10	19.42	18.82	32.53	
300.00	300.00	300.00	300.00	0.51	0.51	280.38	3.50	-19.10	19.42	18.40	19.12	
400.00	400.00	400.00	400.00	0.72	0.72	280.38	3.50	-19.10	19.42	17.98	13.53	
500.00	500.00	500.00	500.00	0.93	0.93	280.38	3.50	-19.10	19.42	17.56	10.48	
600.00	600.00	600.00	600.00	1.14	1.14	280.38	3.50	-19.10	19.42	17.15	8.55	
700.00	700.00	700.00	700.00	1.35	1.35	280.38	3.50	-19.10	19.42	16.73	7.22	
800.00	800.00	800.00	800.00	1.56	1.56	280.38	3.50	-19.10	19.42	16.31	6.24	
900.00	900.00	900.00	900.00	1.76	1.76	280.38	3.50	-19.10	19.42	15.89	5.50	
1000.00	1000.00	1000.00	1000.00	1.97	1.97	280.38	3.50	-19.10	19.42	15.47	4.92	
1100.00	1100.00	1100.00	1100.00	2.18	2.18	280.38	3.50	-19.10	19.42	15.05	4.45	
1200.00	1200.00	1200.00	1200.00	2.39	2.39	280.38	3.50	-19.10	19.42	14.63	4.06	
1300.00	1300.00	1300.00	1300.00	2.60	2.60	280.38	3.50	-19.10	19.42	14.21	3.73	
1400.00	1400.00	1400.00	1400.00	2.81	2.81	280.38	3.50	-19.10	19.42	13.79	3.45	
1500.00	1500.00	1500.00	1500.00	3.02	3.02	280.38	3.50	-19.10	19.42	13.38	3.21	
1600.00	1600.00	1600.00	1600.00	3.23	3.23	280.38	3.50	-19.10	19.42	12.96	3.01	
1700.00	1700.00	1700.00	1700.00	3.44	3.44	280.38	3.50	-19.10	19.42	12.54	2.82	
1800.00	1800.00	1800.00	1800.00	3.65	3.65	280.38	3.50	-19.10	19.42	12.12	2.66	
1900.00	1900.00	1900.00	1900.00	3.86	3.86	280.38	3.50	-19.10	19.42	11.70	2.52	
2000.00	2000.00	2000.00	2000.00	4.07	4.07	280.38	3.50	-19.10	19.42	11.28	2.39	
2100.00	2100.00	2100.00	2100.00	4.28	4.28	280.38	3.50	-19.10	19.42	10.86	2.27	
2200.00	2200.00	2200.33	2200.33	4.49	4.49	180.07	3.53	-18.75	19.43	10.45	2.16	
2300.00	2299.91	2301.14	2301.05	4.70	4.70	183.32	3.92	-14.78	19.59	10.20	2.09	
2400.00	2399.56	2401.92	2401.47	4.91	4.92	189.94	4.73	-6.40	20.11	10.33	2.06	
2500.00	2498.75	2502.63	2501.36	5.14	5.14	199.21	5.97	6.34	21.40	11.21	2.10	
2600.00	2597.30	2603.27	2600.51	5.38	5.39	209.70	7.63	23.43	23.86	13.23	2.24	
2700.00	2695.02	2703.80	2698.71	5.66	5.67	219.81	9.71	44.81	27.82	16.66	2.49	
2800.00	2791.71	2804.21	2795.76	5.98	6.00	228.50	12.20	70.42	33.38	21.59	2.83	
2900.00	2887.21	2904.47	2891.44	6.36	6.38	235.46	15.09	100.19	40.52	27.96	3.23	
3000.00	2981.32	3004.56	2985.57	6.81	6.83	240.89	18.38	134.04	49.13	35.65	3.64	
3100.00	3073.87	3104.47	3077.97	7.33	7.36	245.10	22.05	171.87	59.11	44.55	4.06	
3200.00	3164.67	3204.19	3168.43	7.95	7.97	248.38	26.10	213.59	70.39	54.57	4.45	
3300.00	3253.57	3303.69	3256.81	8.66	8.68	250.99	30.52	259.08	82.89	65.68	4.82	
3400.00	3340.56	3402.88	3343.05	9.46	9.47	252.93	35.26	307.85	96.46	77.59	5.11	
3500.00	3427.16	3501.89	3428.80	10.32	10.31	254.20	40.05	357.12	110.29	89.73	5.36	

Weatherford Drilling Services
Anticollision Report

Weatherford

Company:	Anadarko-Kerr-McGee	**Date:** 7/13/2007	**Time:** 09:21:40	**Page:**	2
Field:	UINTAH COUNTY, UTAH (UTM Zone 12N-NAD 27)				
Reference Site:	NBU 1022-13O1AS	**Co-ordinate(NE) Reference:**	Site: NBU 1022-13O1AS, Grid North		
Reference Well:	13O1AS	**Vertical (TVD) Reference:**	SITE 5308.0		
Reference Wellpath:	1			**Db:**	Sybase

Site: NBU 1022-13I3
Well: 13I3
Wellpath: 1 V0 Plan: Plan #2 V1 **Inter-Site Error:** 0.00 ft

Reference MD ft	Reference TVD ft	Offset MD ft	Offset TVD ft	Semi-Major Axis Ref ft	Semi-Major Axis Offset ft	TFO-HS deg	Offset Location North ft	Offset Location East ft	Ctr-Ctr Distance ft	Edge Distance ft	Separation Factor	Warning
3600.00	3513.76	3600.90	3514.54	11.21	11.19	255.19	44.83	406.40	124.17	101.84	5.56	
3700.00	3600.36	3699.92	3600.29	12.12	12.08	255.98	49.62	455.67	138.07	114.08	5.76	
3800.00	3686.97	3798.93	3686.04	13.05	13.00	256.62	54.40	504.95	151.99	126.16	5.88	
3900.00	3773.57	3897.94	3771.79	14.00	13.93	257.16	59.19	554.22	165.93	138.23	5.99	
4000.00	3860.17	3996.95	3857.53	14.96	14.88	257.61	63.98	603.49	179.88	150.28	6.08	
4100.00	3946.77	4095.97	3943.28	15.93	15.83	258.00	68.76	652.77	193.85	162.32	6.15	
4200.00	4033.38	4194.98	4029.03	16.91	16.80	258.34	73.55	702.04	207.81	174.35	6.21	
4300.00	4119.98	4293.99	4114.78	17.90	17.77	258.63	78.34	751.32	221.79	186.38	6.26	
4400.00	4206.58	4393.01	4200.52	18.90	18.74	258.89	83.12	800.59	235.77	198.40	6.31	
4500.00	4293.18	4492.02	4286.27	19.89	19.73	259.12	87.91	849.87	249.75	210.41	6.35	
4600.00	4379.79	4591.03	4372.02	20.90	20.71	259.33	92.70	899.14	263.74	222.42	6.38	
4700.00	4466.39	4690.04	4457.77	21.90	21.70	259.51	97.48	948.41	277.73	234.42	6.41	
4800.00	4552.99	4789.06	4543.51	22.91	22.70	259.68	102.27	997.69	291.72	246.42	6.44	
4900.00	4639.59	4888.07	4629.26	23.93	23.69	259.83	107.06	1046.96	305.72	258.42	6.46	
5000.00	4726.20	4987.08	4715.01	24.94	24.69	259.97	111.84	1096.24	319.72	270.41	6.48	
5100.00	4812.80	5086.09	4800.76	25.96	25.69	260.10	116.63	1145.51	333.72	282.40	6.50	
5200.00	4899.40	5185.11	4886.50	26.98	26.69	260.21	121.41	1194.79	347.72	294.39	6.52	
5300.00	4986.00	5284.12	4972.25	28.00	27.70	260.32	126.20	1244.06	361.72	306.38	6.54	
5400.00	5072.61	5383.13	5058.00	29.03	28.71	260.42	130.99	1293.34	375.72	318.36	6.55	
5500.00	5159.21	5482.14	5143.75	30.05	29.71	260.51	135.77	1342.61	389.73	330.35	6.56	
5600.00	5245.81	5581.16	5229.49	31.08	30.72	260.60	140.56	1391.88	403.73	342.33	6.58	
5700.00	5332.42	5680.17	5315.24	32.11	31.73	260.68	145.35	1441.16	417.74	354.31	6.59	
5800.00	5419.17	5779.19	5400.99	33.06	32.74	260.69	150.13	1490.44	431.69	366.32	6.60	
5900.00	5507.03	5878.21	5486.75	33.75	33.76	260.89	154.92	1539.71	445.30	378.23	6.64	
6000.00	5596.11	5977.17	5572.45	34.41	34.77	261.39	159.70	1588.96	458.53	389.81	6.67	
6100.00	5686.35	6076.01	5658.05	35.04	35.78	262.18	164.48	1638.15	471.48	401.13	6.70	
6200.00	5777.69	6174.66	5743.49	35.63	36.79	263.21	169.25	1687.25	484.26	412.33	6.73	
6300.00	5870.06	6273.05	5828.69	36.18	37.80	264.48	174.01	1736.21	496.99	423.56	6.77	
6400.00	5963.40	6371.76	5914.22	36.70	38.77	265.97	178.77	1785.27	509.84	435.02	6.81	
6500.00	6057.65	6472.65	6002.57	37.17	39.52	267.49	183.48	1833.75	522.58	446.67	6.88	
6600.00	6152.74	6574.10	6092.67	37.61	40.20	268.95	187.99	1880.15	535.05	458.22	6.96	
6700.00	6248.61	6676.11	6184.48	38.00	40.84	270.35	192.29	1924.38	547.21	469.58	7.05	
6800.00	6345.19	6778.68	6277.96	38.35	41.45	271.71	196.37	1966.38	559.05	480.72	7.14	
6900.00	6442.42	6881.80	6373.06	38.67	42.03	273.02	200.22	2006.07	570.51	491.61	7.23	
7000.00	6540.22	6985.48	6469.72	38.94	42.56	274.30	203.85	2043.39	581.59	502.24	7.33	
7100.00	6638.53	7089.71	6567.88	39.17	43.05	275.54	207.23	2078.26	592.26	512.56	7.43	
7200.00	6737.30	7194.49	6667.49	39.36	43.51	276.75	210.38	2110.62	602.49	522.57	7.54	
7300.00	6836.43	7299.82	6768.48	39.51	43.92	277.94	213.27	2140.39	612.27	532.23	7.65	
7400.00	6935.88	7405.69	6870.78	39.62	44.29	279.10	215.90	2167.51	621.57	541.51	7.76	
7500.00	7035.56	7512.09	6974.31	39.70	44.61	280.26	218.27	2191.91	630.39	550.45	7.89	
7600.00	7135.42	7619.02	7079.01	39.73	44.89	281.39	220.37	2213.53	638.70	558.99	8.01	
7700.00	7235.38	7726.47	7184.78	39.73	45.12	282.52	222.20	2232.31	646.50	567.12	8.14	
7800.00	7335.38	7834.47	7291.60	39.71	45.31	24.27	223.74	2248.19	653.70	592.46	10.68	
7900.00	7435.38	7943.25	7399.59	39.75	45.45	25.25	225.00	2261.15	659.77	598.26	10.73	
8000.00	7535.38	8052.68	7508.56	39.79	45.55	25.99	225.96	2271.09	664.51	602.78	10.76	
8100.00	7635.38	8162.60	7618.27	39.84	45.60	26.50	226.63	2277.94	667.82	605.94	10.79	
8200.00	7735.38	8272.83	7728.43	39.88	45.61	26.77	226.99	2281.65	669.62	607.67	10.81	
8300.00	7835.38	8379.79	7835.38	39.93	45.59	26.82	227.06	2282.37	669.97	622.15	14.01	
8400.00	7935.38	8479.79	7935.38	39.98	45.62	26.82	227.06	2282.37	669.97	622.01	13.97	
8500.00	8035.38	8579.79	8035.38	40.02	45.67	26.82	227.06	2282.37	669.97	621.86	13.93	
8600.00	8135.38	8679.79	8135.38	40.07	45.71	26.82	227.06	2282.37	669.97	621.70	13.88	

Weatherford Drilling Services
Anticollision Report

Company:	Anadarko-Kerr-McGee	**Date:**	7/13/2007	**Time:**	09:21:40
Field:	UINTAH COUNTY, UTAH (UTM Zone 12N-NAD 27)				
Reference Site:	NBU 1022-13O1AS	**Co-ordinate(NE) Reference:**	Site: NBU 1022-13O1AS, Grid North		
Reference Well:	13O1AS	**Vertical (TVD) Reference:**	SITE 5308.0		
Reference Wellpath:	1			**Db:**	Sybase

Site: NBU 1022-13I3
Well: 13I3
Wellpath: 1 V0 Plan: Plan #2 V1

Inter-Site Error: 0.00 ft

Reference MD ft	Reference TVD ft	Offset MD ft	Offset TVD ft	Semi-Major Axis Ref ft	Semi-Major Axis Offset ft	TFO-HS deg	Offset Location North ft	Offset Location East ft	Ctr-Ctr Distance ft	Edge Distance ft	Separation Factor	Warning
8604.62	8140.00	8684.41	8140.00	40.08	45.71	26.82	227.06	2282.37	669.97	621.70	13.88	

Kerr-McGee Oil & Gas Onshore LP

NBU #1022-13K-3T, #1022-13O4S, #1022-13O1CS, #1022-13O2S, #1022-13D4S, #1022-13I3S, #1022-13O1AS, #1022-13J4S, #1022-13I4S, #1022-13L4S, #1022-13L3S, #1022-13K3S, #1022-13M2AS, #1022-13N2S, #1022-13N1S, #1022-13M2CS & #1022-13M1S
SECTION 13, T10S, R22E, S.L.B.&M.

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

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

Kerr-McGee Oil & Gas Onshore LP

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

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

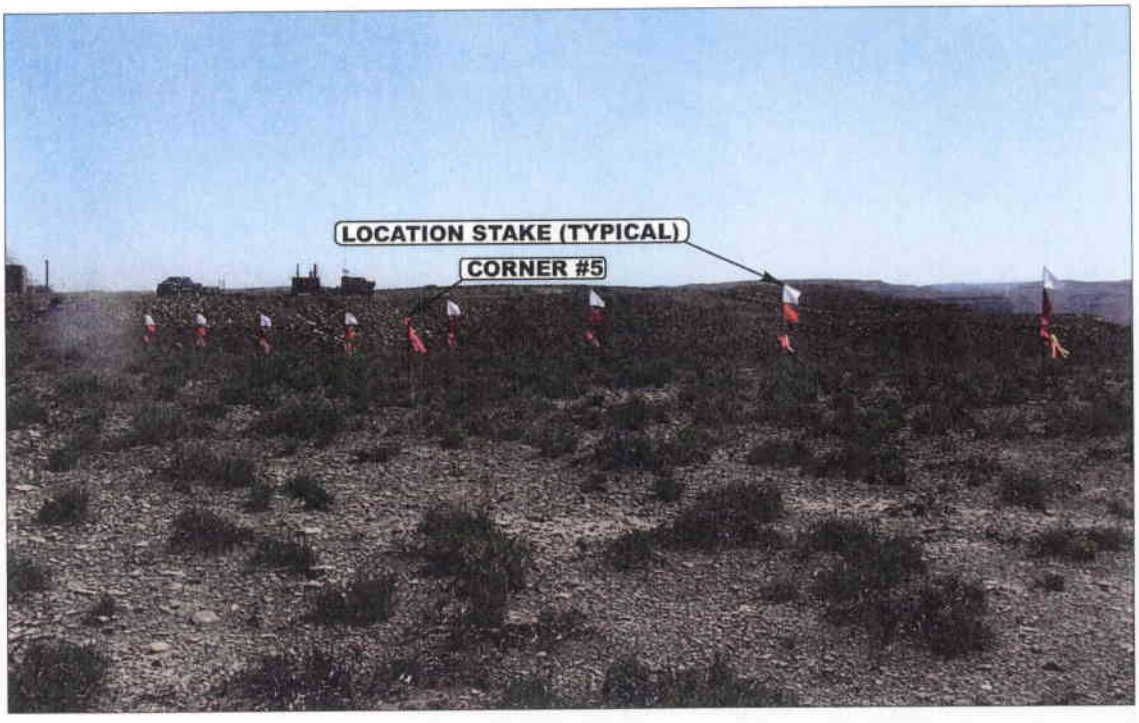
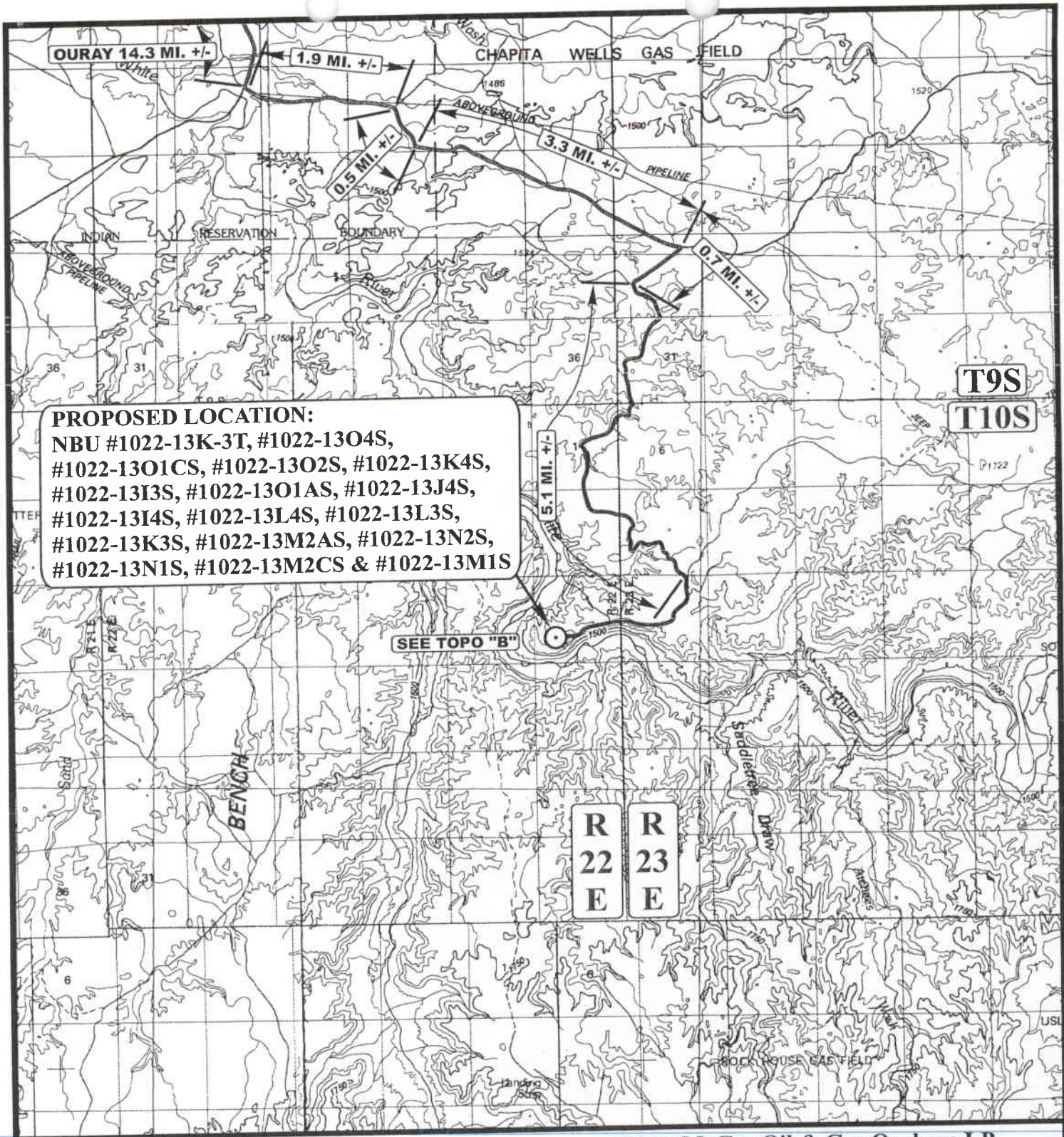


PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKES **CAMERA ANGLE: SOUTHERLY**

PHOTO: VIEW OF EXISTING ACCESS **CAMERA ANGLE: WESTERLY**

Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
435-789-1017 uels@uelsinc.com
- Since 1964 -

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



LEGEND:

⊙ PROPOSED LOCATION

N

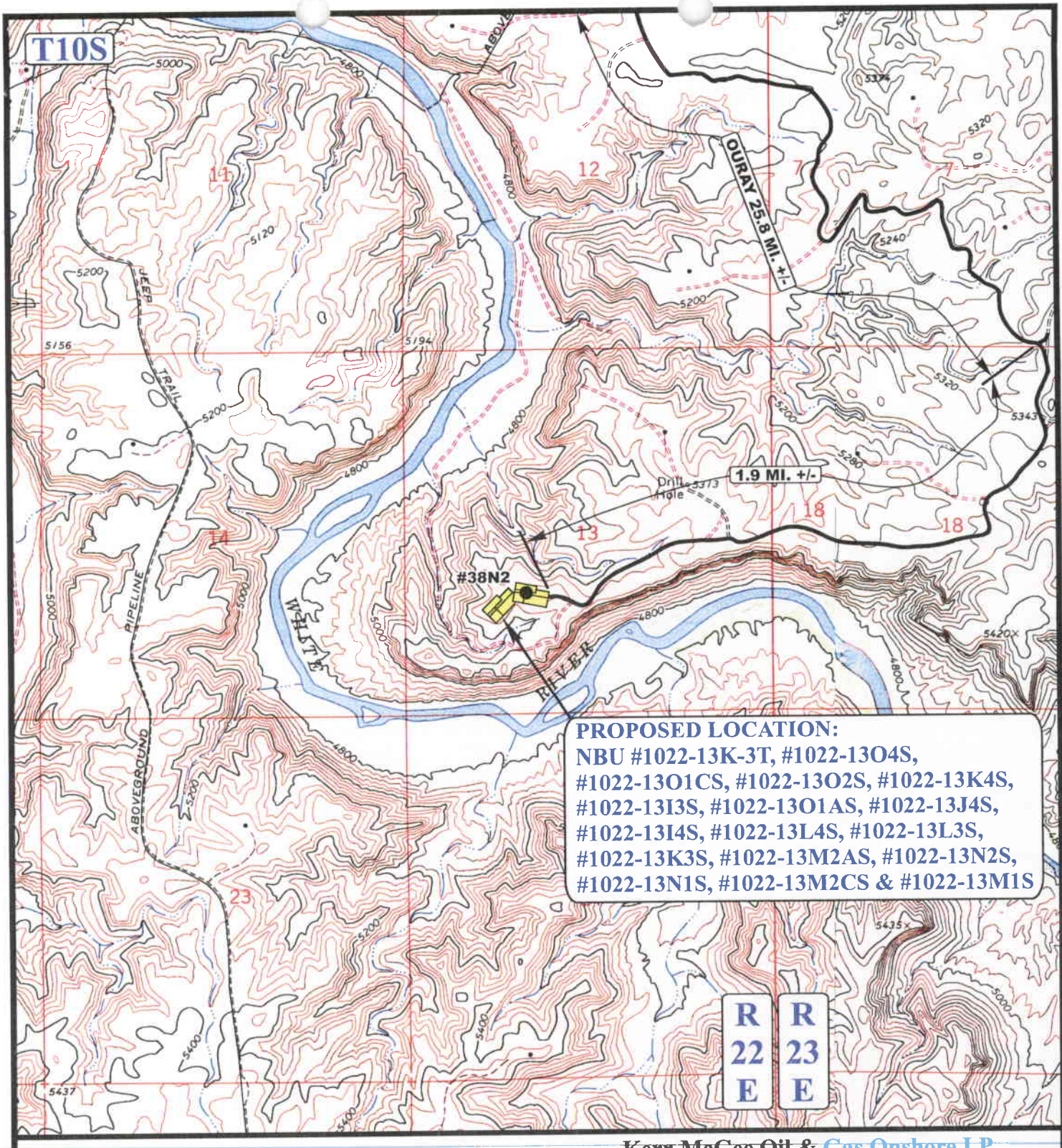
Kerr-McGee Oil & Gas Onshore LP

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

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

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

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



LEGEND:

EXISTING ROAD

PROPOSED ACCESS ROAD

N

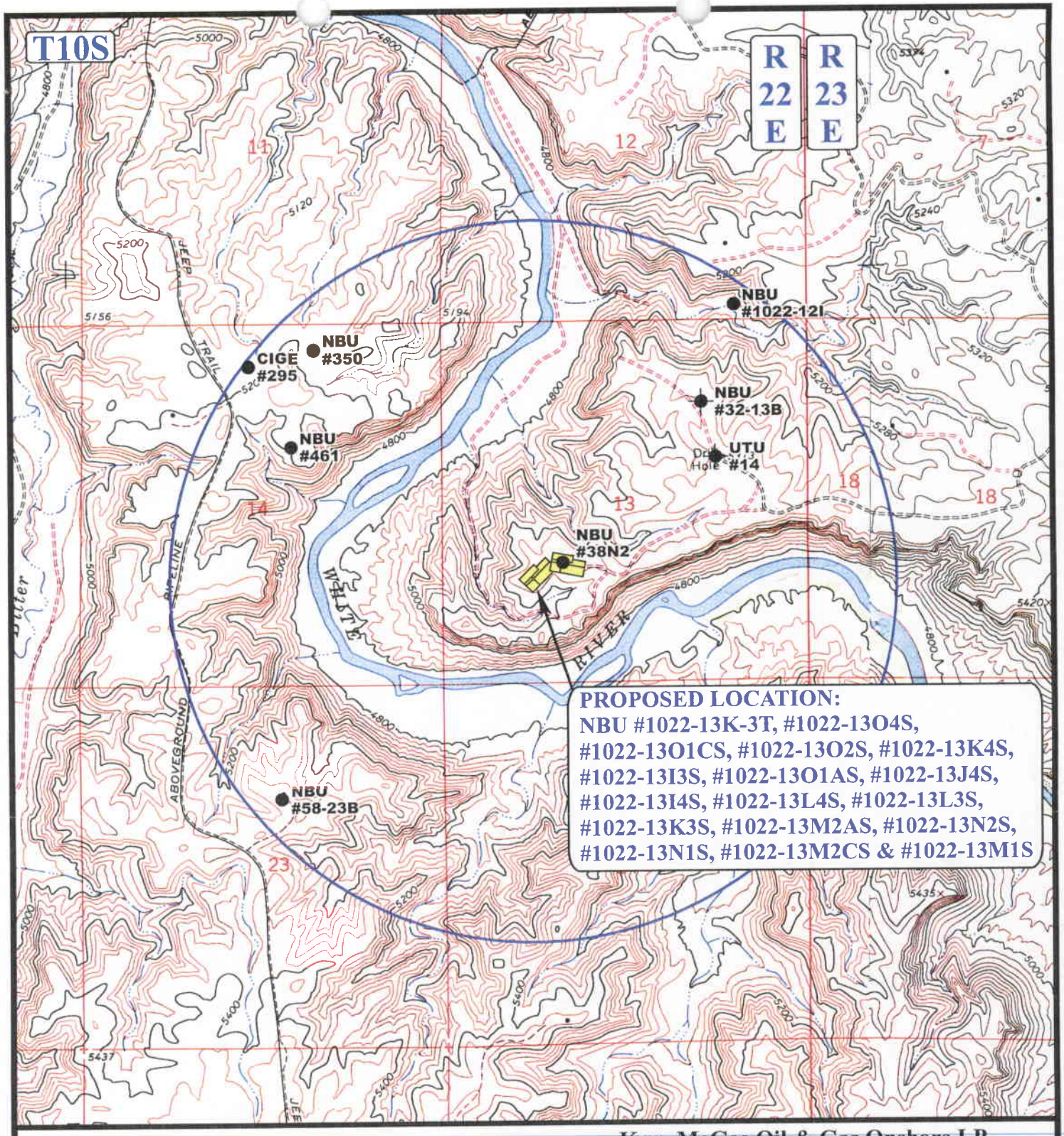
Kerr-McGee Oil & Gas Onshore LP

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

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

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

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



LEGEND:

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

N

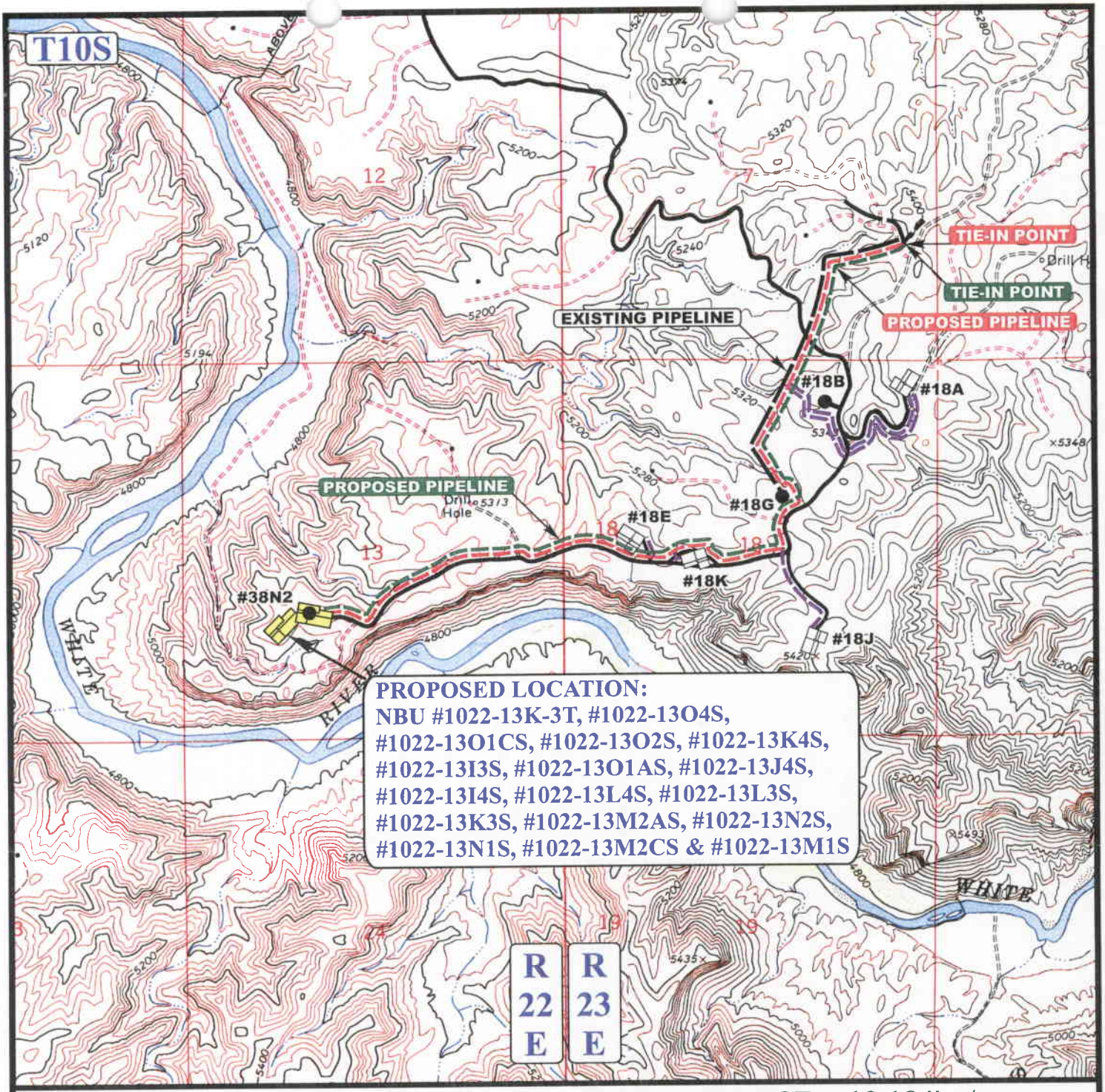
Kerr-McGee Oil & Gas Onshore LP

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

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

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

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



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

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

LEGEND:

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

N

Kerr-McGee Oil & Gas Onshore LP

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

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

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

TOPOGRAPHIC MAP	05 MONTH	17 DAY	07 YEAR	D TOPO
SCALE: 1" = 2000'	DRAWN BY: C.P.	REVISED: 07-19-07		

Kerr-McGee Oil & Gas Onshore LP

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

PIPELINE ALIGNMENT

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

PHOTO: VIEW FROM TIE-IN POINT **CAMERA ANGLE: WESTERLY**

PHOTO: VIEW OF PIPELINE ALIGNMENT **CAMERA ANGLE: WESTERLY**

- Since 1964 -
Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
435-789-1017 uels@uelsinc.com

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

FIGURE #1

Kerr-McGee Oil & Gas Onshore LP

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

REGISTERED LAND SURVEYOR No. 161317 STATE OF UTAH

Winds
Prevailing

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'

Existing Access Road
Topsoil Stockpile
Round Corners as Needed
Approx. Toe of Fill Slope
Existing 4" Pipeline
Proposed Access Road
Approx. Top of Cut Slope
Anchor (Typ.)
RESERVE PITS (10' Deep)
Existing Well Pad
PIPE TUBS
PIPE RACKS
Existing Well #38
Existing Pipelines
RIG
MUD TANKS
Methanol Tank
Meter Structure
TOILET
TRAILER
WATER TANK
LIGHT PLANT
Dehy
BOILER
COMPRESSOR
PUMP HOUSE
Separator
BOOSTER
TRASH
PROPANE STORAGE
Tank
Berm
Pit Topsoil
Existing Topsoil Stockpile
Reserve Pit Backfill & Spoils Stockpile
FLARE PIT
15' WIDE BENCH/DIKE
1 1/2:1 Slope
Total Pit Capacity W/2' of Freeboard = 34,330 Bbls. ±
Total Pit Volume = 9,300 Cu. Yds.
Total Pit Capacity W/2' of Freeboard = 31,990 Bbls. ±
Total Pit Volume = 8,670 Cu. Yds.

C-8.7' El. 300.8'
F-21.4' El. 270.7'
C-6.4' El. 298.5'
88'
200'
190'
100'
52'
48'
320'
170'
360'
340'
300'
150'
135'
40'
C-4.0' El. 296.1'
C-1.9' El. 294.0'
C-9.2' El. 291.3' (btm. pit)
C-2.0' El. 294.1'
C-1.8' El. 293.9'
C-1.7' El. 293.8'
C-1.7' El. 293.8'
C-1.5' El. 293.6'
C-1.4' El. 293.5'
C-1.4' El. 293.5'
C-1.3' El. 293.4'
C-1.3' El. 293.4'
C-0.9' El. 293.0'
C-15.5' El. 293.0'
F-12.0' El. 280.1'
F-4.7' El. 287.4'
F-16.9' El. 275.2'
C-4.6' El. 286.7' (btm. pit)
F-6.1' El. 286.0'
C-7.7' El. 285.2'
F-4.4' El. 273.1'
F-18.5' El. 259.0'
F-20.9' El. 256.6'
C-8.4' El. 285.9'
C-5.2' El. 282.7'
C-10.3' El. 287.8'
C-7.3' El. 284.8'
C-8.9' El. 286.4'
C-12.6' El. 280.1' (btm. pit)
C-12.7' El. 280.2' (btm. pit)
C-6.7' El. 284.2'
C-6.9' El. 284.4'
C-6.7' El. 284.2'
C-7.3' El. 284.8'
C-8.3' El. 285.8'
C-9.0' El. 286.5'
C-9.0' El. 286.5'
C-9.5' El. 287.0'

"A" "B" "C" "D" "E" "F" "G" "H"

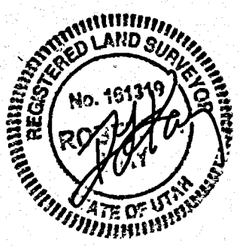
UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017

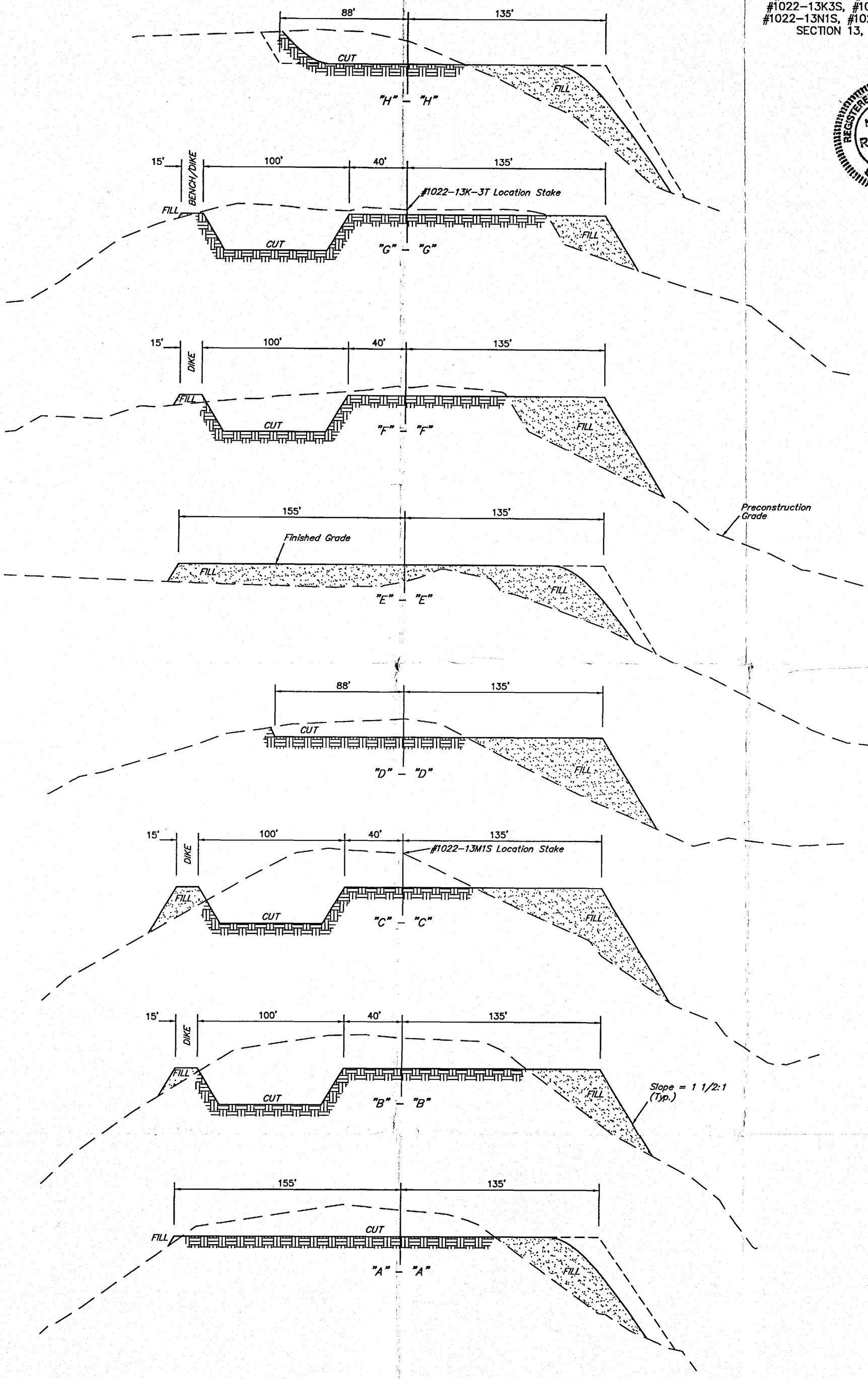
1" = 20'
X-Section Scale
1" = 50'
DATE: 6-13-07
Drawn By: K.G.

FIGURE #2

Kerr-McGee Oil & Gas Onshore LP

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





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

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

Kerr-McGee Oil & Gas Onshore LP

INTERFERENCE DETAIL 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.

N85°46'21"E - 2262.08' (TO BOTTOM HOLE)
N88°47'55"E - 1596.94' (TO BOTTOM HOLE)
S83°06'30"E - 3003.85' (TO BOTTOM HOLE)
S77°40'24"E - 1966.72' (TO BOTTOM HOLE)
S68°50'44"E - 1571.28' (TO BOTTOM HOLE)
S59°04'24"E - 1888.67' (TO BOTTOM HOLE)
S51°44'10"E - 2082.22' (TO BOTTOM HOLE)
N71°03'05"E - 572.46' (TO BOTTOM HOLE)

BOTTOM HOLE

#13-1 PAD

14S
13S
01AS
12S
K4S
02S
01CS
04S
K-3T

S69°00'59"E 669.54'

#13-2 PAD

L4S
L3S
K3S
J2AS
N2S
N1S
M2CS
M1S

S50°26'27"E - 833.55' (TO BOTTOM HOLE)
S38°09'47"E - 1070.27' (TO BOTTOM HOLE)
S44°24'53"W - 850.29' (TO BOTTOM HOLE)
S52°30'36"W - 1316.92' (TO BOTTOM HOLE)
S69°14'51"W - 789.64' (TO BOTTOM HOLE)
N64°19'00"W - 743.01' (TO BOTTOM HOLE)
N86°53'51"W - 766.22' (TO BOTTOM HOLE)

REGISTERED LAND SURVEYOR
161319
ROBERT L. KAY
STATE OF UTAH

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

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

WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 08/06/2007

API NO. ASSIGNED: 43-047-39478

WELL NAME: NBU 1022-13O1AS

OPERATOR: KERR-MCGEE OIL & GAS (N2995)

PHONE NUMBER: 435-781-7024

CONTACT: SHEILA UPCHEGO

PROPOSED LOCATION:

NESW 13 100S 220E

SWSE SURFACE: 1731 FSL 1784 FWL

BOTTOM: 1310 FSL 1540 FEL

COUNTY: UINTAH

LATITUDE: 39.94642 LONGITUDE: -109.3907

UTM SURF EASTINGS: 637846 NORTHINGS: 4422841

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)

N Potash (Y/N)

✓ Oil Shale 190-5 (B) or 190-3 or 190-13

✓ Water Permit
(No. 43-8496)

N RDCC Review (Y/N)
(Date:)

NA Fee Surf Agreement (Y/N)

NA 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 ubdrs & 2 uncomm. Tract

✓ R649-3-11. Directional Drill

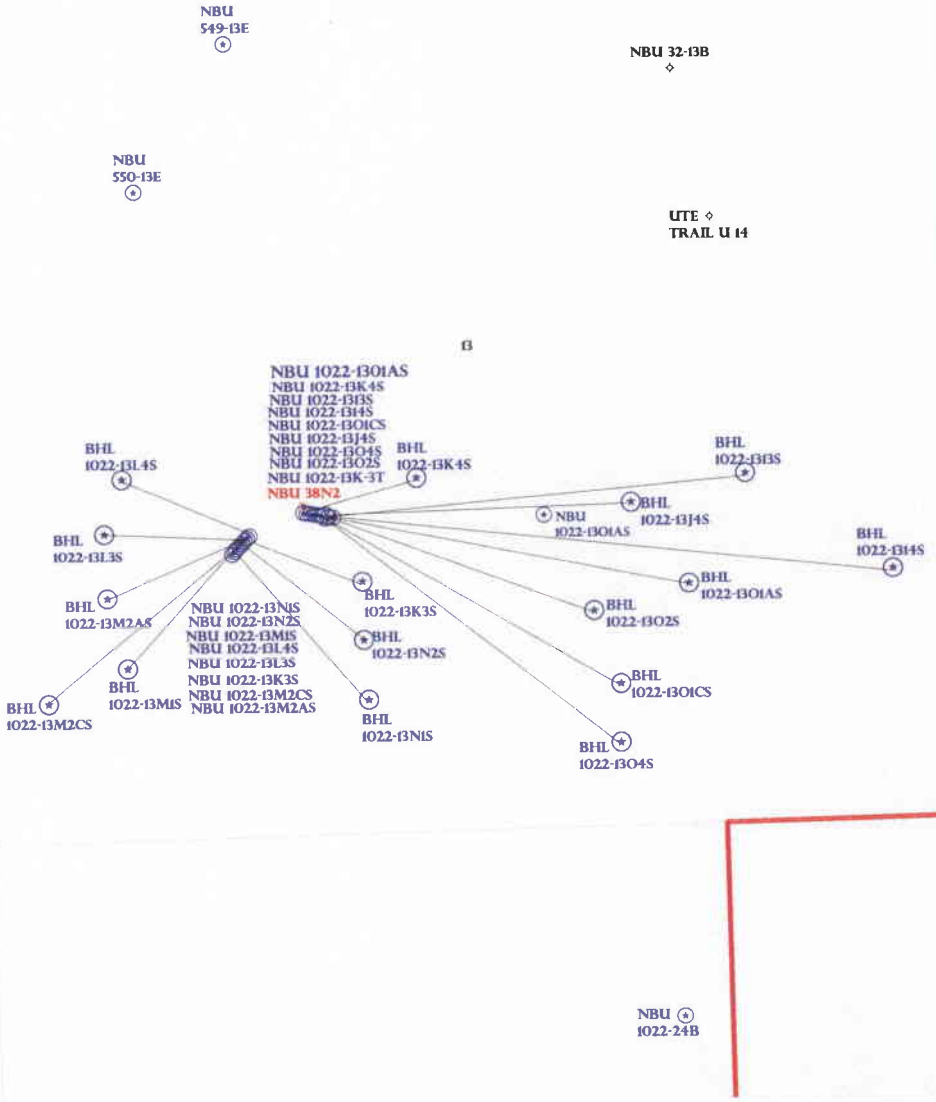
COMMENTS: Need Onsite (06-27-07)

STIPULATIONS: 1 - STATEMENT OF BASIS
2 - OIL SHALE
3. Surface Csg Cmt Stip

T10S R22E

T10S R23E

NATURAL BUTTES FIELD
NATURAL BUTTES UNIT
CAUSE: 173-14 / 12-2-1999



OPERATOR: KERR MCGEE O&G (N2995)

SEC: 13 T.10S R. 22E

FIELD: NATURAL BUTTES (630)

COUNTY: UINTAH

CAUSE: 173-14 / 12-2-1999

Field Status
- ABANDONED
- ACTIVE
- COMBINED
- INACTIVE
- PROPOSED
- STORAGE
- TERMINATED

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

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

Utah Oil Gas and Mining

N
W E
S

PREPARED BY: DIANA MASON

DATE: 8-AUGUST-2007

Application for Permit to Drill
Statement of Basis
Utah Division of Oil, Gas and Mining

APD No	API WellNo	Status	Well Type	Surf Ownr	CBM
485	43-047-39478-00-00		GW	S	No

Operator KERR-MCGEE OIL & GAS ONSHORE, LP **Surface Owner-APD**
Well Name NBU 1022-13O1AS **Unit**
Field UNDESIGNATED **Type of Work**
Location NESW 13 10S 22E S 1731 FSL 1784 FWL GPS Coord (UTM) 637486E 4422841N

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.

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	6/27/2007
Onsite Evaluator	**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 1022-13O1AS
API Number 43-047-39478-0 **APD No** 485 **Field/Unit** UNDESIGNATED
Location: 1/4,1/4 NESW **Sec** 13 **Tw** 10S **Rng** 22E 1731 FSL 1784 FWL
GPS Coord (UTM) 637496 4422844 **Surface Owner**

Participants

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

Regional/Local Setting & Topography

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

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

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

Surface Use Plan

Current Surface Use
Grazing
Recreational
Wildlfe Habitat
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 Diverson Required N

Berm Required? N

Erosion Sedimentation Control Required? N

Paleo Survey Run? Y **Paleo Potental 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 to 20	5
Affected Populations	<10	0
Presence Nearby Utility Conduits	Not Present	0
	Final Score	40 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

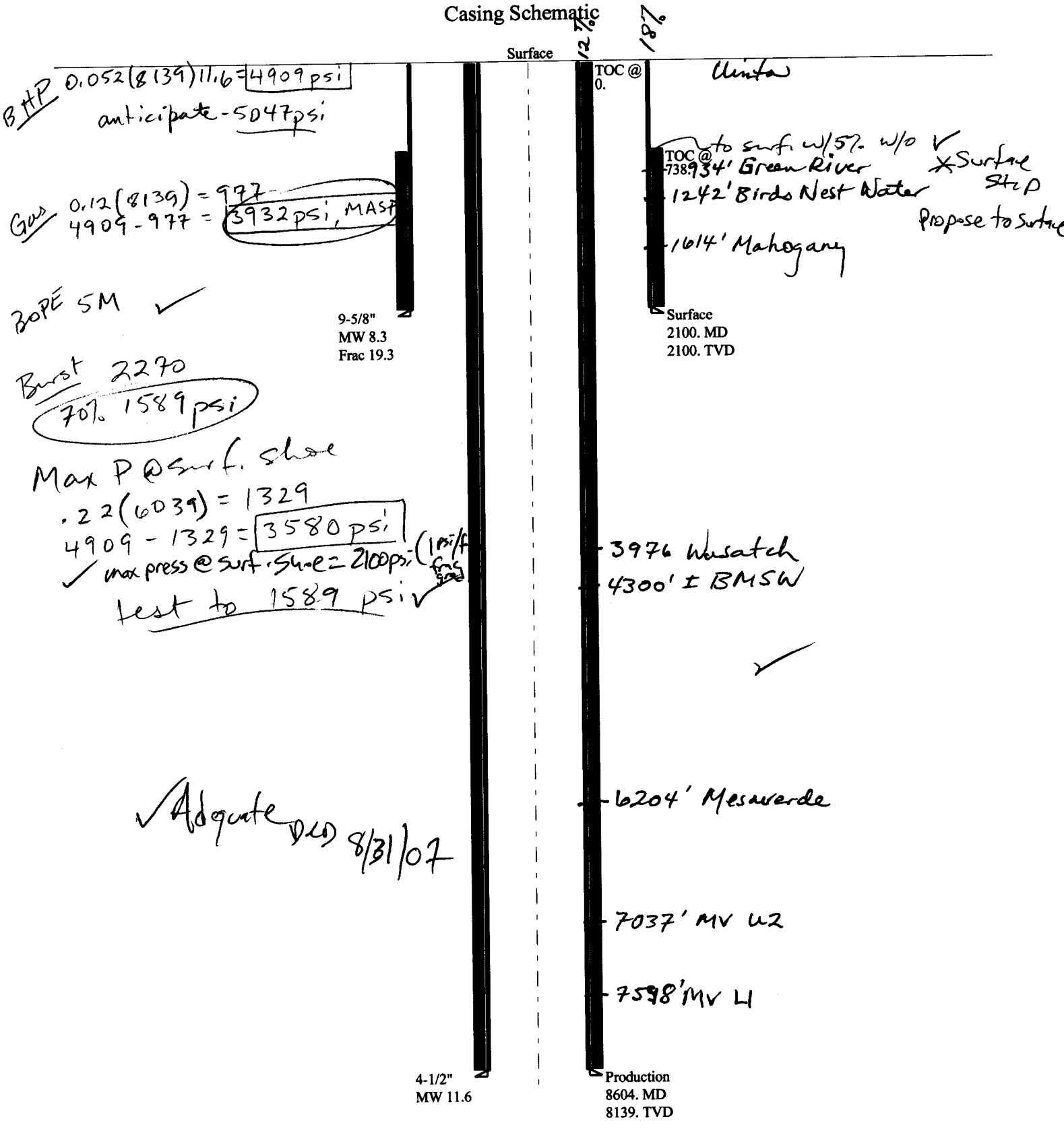
Other Observations / Comments

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	6/27/2007
Evaluator	**Date / Time**

2007-08 Kerr McGee NBU 1022-13O1AS

Casing Schematic



Well name:	**2007-08 Kerr McGee NBU 1022-13O1AS**
Operator:	**Kerr McGee Oil & Gas Onshore L.P.**
String type:	Surface
Project ID:	43-047-39478
Location:	Uintah County, Utah

Design parameters:

Collapse

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

Burst

Max anticipated surface pressure: 653 psi
Internal gradient: 0.120 psi/ft
Calculated BHP 905 psi

No backup mud specified.

Minimum design factors:

Collapse:

Design factor 1.125

Burst:

Design factor 1.00

Tension:

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

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

Environment:

H2S considered?	No
Surface temperature:	75 °F
Bottom hole temperature:	104 °F
Temperature gradient:	1.40 °F/100ft
Minimum section length:	1,300 ft
Cement top:	738 ft

Non-directional string.

Re subsequent strings:

Next setting depth:	0 ft
Next mud weight:	11.600 ppg
Next setting BHP:	0 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 (ft^3)
1	2100	9.625	32.30	H-40	ST&C	2100	2100	8.876	927.9

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	905	1370	1.513	905	2270	2.51	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.

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

Well name:	**2007-08 Kerr McGee NBU 1022-13O1AS**
Operator:	**Kerr McGee Oil & Gas Onshore L.P.**
String type:	Production
Project ID:	43-047-39478
Location:	Uintah County, Utah

Design parameters:

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

Burst
Max anticipated surface pressure: 3,114 psi
Internal gradient: 0.220 psi/ft
Calculated BHP 4,905 psi

No backup mud specified.

Minimum design factors:

Collapse:
Design factor 1.125

Burst:
Design factor 1.00

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

Tension is based on buoyed weight.
Neutral point: 7,191 ft

Environment:
H2S considered? No
Surface temperature: 75 °F
Bottom hole temperature: 189 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 1,500 ft

Cement top: Surface

Directional Info - Build & Drop
Kick-off point 2160 ft
Departure at shoe: 2015 ft
Maximum dogleg: 2.5 °/100ft
Inclination at shoe: 0 °

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft^3)
1	8604	4.5	11.60	I-80	LT&C	8139	8604	3.875	750.8

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	4905	6360	1.297	4905	7780	1.59	78	212	2.72 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 8139 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.

KerrMcGee

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 1022-13O1AS 1731'FSL, 1784'FWL (Surface)
1310'FSL, 1540'FEL (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 1022-13O1AS 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

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 1022-13O1AS Well, 1731' FSL, 1784' FWL, NE SW, Sec. 13, T. 10 South, R. 22 East, Bottom Location 1310' FSL, 1540' FEL, SW SE, 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 43-047-39478.

Sincerely,

Gil Hunt
Associate Director

pab
Enclosures

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

1594 West North Temple, Suite 1210, PO Box 145801, Salt Lake City, UT 84114-5801
telephone (801) 538-5340 • facsimile (801) 359-3940 • TTY (801) 538-7458 • www.ogm.utah.gov

UTAH DNR OIL, GAS & MINING

Operator: Kerr McGee Oil & Gas Onshore LP

Well Name & Number Natural Buttes Unit 1022-13O1AS

API Number: 43-047-39478

Lease: STUO-08512-ST

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

Conditions of Approval

1. **General**

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

2. **Notification Requirements**

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

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

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

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

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

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

3. **Reporting Requirements**

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

4. Compliance with the State of Utah Antiquities Act forbids disturbance of archeological, historical, or paleontological remains. Should archeological, historical or paleontological remains be encountered during your operations, you are required to immediately suspend all operations and immediately inform the Trust Lands Administration and the Division of State History of the discovery of such remains.

5. Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis. (Copy Attached)

6. In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

7. In accordance with Order in Cause No. 190-5(b) dated October 28, 1982, the Operator shall comply with requirements of Rules R649-3-31 and R649-3-27 pertaining to Designated Oil Shale Areas. Additionally, the operator shall ensure that the surface and/or production casing is properly cemented over the entire oil shale interval as defined by Rule R649-3-31. The Operator shall report the actual depth the oil shale is encountered to the Division.

8. Surface casing shall be cemented to the surface.

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

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

Well Name: **NBU 1022-13O1AS**

Api No: **43-047-39478** Lease Type: **STATE**

Section **13** Township **10S** Range **22E** County **UINTAH**

Drilling Contractor **PETE MARTIN DRLG** RIG # **BUCKET**

SPUDDED:

Date **11/15/07**

Time **11:00 AM**

How **DRY**

Drilling will Commence:

Reported by **SHEILA UPCHEGO**

Telephone # **(435) 781-7024**

Date **11/16/07** **Signed** **CHD**

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

FORM 6

ENTITY ACTION FORM

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

Well 1 43047-39475

API Number	Well Name		QQ	Sec	Twp	Rng	County
~~4304739474~~	NBU 1022-13I4S		NESW	13	10S	22E	UINTAH
Action Code	**Current Entity Number**	**New Entity Number**	**Spud Date**			**Entity Assignment Effective Date**	
B	99999	2900	11/15/2007			11/26/07	

Comments: MIRU PETE MARTIN BUCKET RIG. WSMVD
SPUD WELL LOCATION ON 11/15/2007 AT 1900 HRS. BHL = NESE

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304739474	NBU 1022-13I3S		NESW	13	10S	22E	UINTAH
Action Code	**Current Entity Number**	**New Entity Number**	**Spud Date**			**Entity Assignment Effective Date**	
B	99999	2900	11/15/2007			11/26/07	

Comments: MIRU PETE MARTIN BUCKET RIG. WSMVD
SPUD WELL LOCATION ON 11/15/2007 AT 7:00 AM. BHL = NESE

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304739478	NBU 1022-13O1AS		NESW	13	10S	22E	UINTAH
Action Code	**Current Entity Number**	**New Entity Number**	**Spud Date**			**Entity Assignment Effective Date**	
B	99999	2900	11/15/2007			11/26/07	

Comments: MIRU PETE MARTIN BUCKET RIG. WSMVD
SPUD WELL LOCATION ON 11/15/2007 AT 11:00 AM BHL = SWSE

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

SHEILA UPCHEGO
Name (Please Print)
Signature
SENIOR LAND SPECIALIST
Title
11/16/2007
Date

RECEIVED
NOV 19 2007
DIV. OF OIL, GAS & MINING

(5/2000)

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

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

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

5. LEASE DESIGNATION AND SERIAL NUMBER: STUO-08512-ST
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
7. UNIT or CA AGREEMENT NAME: UNIT #891008900A
1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☑ OTHER
8. WELL NAME and NUMBER: NBU 1022-13O1AS
2. NAME OF OPERATOR: KERR McGEE OIL & GAS ONSHORE LP
9. API NUMBER: 4304739478
3. ADDRESS OF OPERATOR: 1368 SOUTH 1200 EAST CITY VERNAL STATE UT ZIP 84078
PHONE NUMBER: (435) 781-7024
10. FIELD AND POOL, OR WILDCAT: NATURAL BUTTES
4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1731'FSL, 1784'FWL
COUNTY: UINTAH
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NESW 13 10S 22E
STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT (Submit in Duplicate)	☐ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
Approximate date work will start: _____	☐ ALTER CASING	☐ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARILY ABANDON
	☐ CHANGE TO PREVIOUS PLANS	☐ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLARE
☑ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
Date of work completion:	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
_____	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☑ OTHER: WELL SPUD
	☐ CONVERT WELL TYPE	☐ 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 11/15/2007 AT 11:00 AM.

RECEIVED
NOV 20 2007
DIV. OF OIL, GAS & MINING

NAME (PLEASE PRINT) SHEILA UPCHEGO
TITLE SENIOR LAND ADMIN SPECIALIST
SIGNATURE
DATE 11/16/2007

(This space for State use only)

(5/2000)

(See Instructions on Reverse Side)

FORM 9

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

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

SUNDRY NOTICES AND REPORTS ON WELLS

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

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

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

1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☑ OTHER

8. WELL NAME and NUMBER: NBU 1022-13O1AS

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

9. API NUMBER: 4304739478

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

PHONE NUMBER: (435) 781-7024

10. FIELD AND POOL, OR WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL

FOOTAGES AT SURFACE: 1731'FSL, 1784'FWL

COUNTY: UINTAH

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

STATE: UTAH

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Approximate date work will start: _____	☐ ALTER CASING	☐ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARILY ABANDON
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☑ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
Date of work completion: _____	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☑ OTHER: SET SURFACE CSG
	☐ CONVERT WELL TYPE	☐ 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 12/12/2007. DRILLED 12 1/4" SURFACE HOLE TO 2160'. RAN 9 5/8" 36# J-55 SURFACE CSG. LEAD CMT W/200 SX HIFILL CLASS G @11.0 PPG 3.82 YIELD. TAILED CMT W/200 SX PREM CLASS G @15.8 PPG 1.15 YIELD. GOOD RETURNS NO LEAD CMT TO SURFACE 500 PSI LIFT. RAN 150' OF 1" PIPE. PIPE SLIPPED OUT OF WRENCH AND WENT DOWN BACKSIDE RUN ANOTHER 150' OF 1" PIPE DOWN BACKSIDE CMT W/150 SX PREM CLASS G @15.8 PPG 1.15 YIELD. NO CMT TO SURFACE. TOP OUT W/100 SX PREM CLASS G @15.8 PPG 1.15 YIELD. DOWN BACKSIDE GOOD CMT TO SURFACE HOLE STAYED FULL.

WORT.

RECEIVED
DEC 2 4 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)

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

FORM 9

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

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

9. API NUMBER: 4304739478

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PHONE NUMBER: (435) 781-7024

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

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Date of work completion: _____	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☑ OTHER: FINAL DRILLING OPERATIONS
	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	

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

FINISHED DRILLING FROM 2160' TO 8685' ON 03/31/2008. RAN 4 1/2" 11.6# I-80 PRODUCTION CSG. LEAD CMT W/368 SX PREM LITE II @11.5 PPG 2.82 YIELD. TAILED CMT W/1060 SX 50/50 POZ @14.3 PPG 1.31 YIELD. DROP PLUG AND DISPLACE W/133 BBLS WATER AND BUMP PLUG 500 OVER FINAL CIRC PRESSURE OF 2460 AND PLUG HELD GOT BACK 33 BBLS CMT TO PIT. NIPPLE DOWN SET SLIPS W/115K AN CUT OFF 4 1/2" CSG. WASH AND CLEAN MUD TANKS.

RELEASED ENSIGN RIG 83 ON 04/02/2008 AT 0300 HRS.

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

NAME (PLEASE PRINT) SHEILA UPCHEGO TITLE SENIOR LAND ADMIN SPECIALIST

SIGNATURE Sheila Upchego DATE 4/2/2008

(This space for State use only)

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

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

FORM 9

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

PHONE NUMBER: (435) 781-7024

10. FIELD AND POOL, OR WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL

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COUNTY: UINTAH

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

STATE: UTAH

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	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARILY ABANDON
	☐ CHANGE TO PREVIOUS PLANS	☐ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLARE
☑ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
Date of work completion:	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☑ OTHER: PRODUCTION START-UP
	☐ CONVERT WELL TYPE	☐ 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 05/16/2008 AT 1:00 PM.

PLEASE REFER TO THE ATTACHED CHRONOLOGICAL WELL HISTORY.

NAME (PLEASE PRINT) SHEILA UPCHEGO TITLE SENIOR LAND ADMIN SPECIALIST

SIGNATURE Sheila Upchego DATE 5/19/2008

(This space for State use only)

RECEIVED
MAY 21 2008
DIV. OF OIL, GAS & MINING

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

WINS No.: 95377	NBU 1022-13O-1AS	Start Date: 11/15/2007
AFE No.: 2008167	Operation Summary Report	End Date: 4/2/2008

Operator	FIELD NAME	SPUD DATE	GL	KB	ROUTE
KERR-MCGEE OIL & GAS ONSHORE LP	NATURAL BUTTES	11/15/07	5,293	5310	

API	STATE	COUNTY	DIVISION
4304739478	UTAH	UINTAH	ROCKIES

Lat./Long.: Lat./Long.: 39.94640 / -109.39123 **Q-Q/Sect/Town/Range:** / 13 / 10S / 22E **Footages:** 1,731.00' FSL 1,784.00' FWL

MTD	TVD	LOG MD	PBMD	PBTVD
8685	8210			

EVENT INFORMATION: EVENT ACTIVITY: DRILLING REASON:
OBJECTIVE: DEVELOPMENT DATE WELL STARTED/RESUMED: 1
OBJECTIVE2: Event End Status: COMPLETE

RIG OPERATIONS:	Begin Mobilization	Rig On Location	Rig Charges	Rig Operation Start	Finish Drilling	Rig Release	Rig Off Location
PETE MARTIN DRILLING / I	11/15/2007	11/15/2007	11/15/2007	11/15/2007	11/15/2007	11/15/2007	11/15/2007

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode	P/U	Operation
11/15/2007							
SUPERVISOR: LEW WELDON							
	0:00 - 11:00	11.00	DRLCON	12		P	WAIT ON PETE MARTIN BUCKET RIG
	11:00 - 17:00	6.00	DRLCON	02		P	MOVE IN AND RIG UP BUCKET RIG SPUD WELL @ 1100 HR 11/15/07 DRILL AND SET 40' OF SCHEDULE 10 PIPE DRILL RODENT HOLES FOR RIG 83 BLM AND STATE NOTFIED OF SPUD
	17:00 - 0:00	7.00	DRLCON	12		P	WOAR
12/4/2007							
SUPERVISOR: LEW WELDON							
	0:00 - 9:30	9.50	DRLSUR	12		P	WAIT ON BILL JR AIR RIG
	9:30 - 18:00	8.50	DRLSUR	02		P	MOVE IN AND RIG UP AIR RIG SPUD WELL @ 0930 HR 12/4/07 DRILL PIOLET HOLE TO 780' AND SDFN
	18:00 - 0:00	6.00	DRLSUR	12		P	SDFN
12/5/2007							
SUPERVISOR: LEW WELDON							
	0:00 - 6:00	6.00	DRLSUR	12		P	SDFN
	6:00 - 11:00	5.00	DRLSUR	02		P	RIH TO 780' AND DRILL TO 1020' T/D PIOLET HOLE @ 1020' CONDITION HOLE 1 HR POOH
12/12/2007							
SUPERVISOR: LEW WELDON							
	0:00 - 17:30	17.50	DRLSUR	12		P	WAIT ON BILL JR AIR RIG
	17:30 - 0:00	6.50	DRLSUR	02		P	MOVE IN AND RIG UP AIR RIG RIH TO 1020' SPUD WELL @ 1730 HR 12/12/07 DA AT REPORT TIME 1320'
12/13/2007							
SUPERVISOR: LEW WELDON							
	0:00 - 12:00	12.00	DRLSUR	02		P	RIG DRILLING AHEAD CIRCULATING WITH BIG 4 FULL RETURNS 1710'
	12:00 - 0:00	12.00	DRLSUR	02		P	RIG DRILLING AHEAD CIRCULATING WITH BIG 4 FULL RETURNS 2010'
12/14/2007							
SUPERVISOR: LEW WELDON							
	0:00 - 7:00	7.00	DRLSUR	02		P	RIG T/D @ 2160' CONDITION HOLE 1 HR WITH FULL RETURNS
	7:00 - 10:00	3.00	DRLSUR	05		P	TRIP DP OUT OF HOLE
	10:00 - 14:00	4.00	DRLSUR	11		P	RUN 2130' OF 9 5/8 CSG RUN 150' OF 1" PIPE PIPE SLIPED OUT OF WRENCH AND WENT DOWN BS RUN ANOTHER 150' OF 1" PIPE DOWN BS AND RIG DOWN AIR RIG

Wins No.: 95377	NBU 1022-13O-1AS	API No.: 4304739478

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

RIG OPERATIONS:	Begin Mobilization	Rig On Location	Rig Charges	Rig Operation Start	Finish Drilling	Rig Release	Rig Off Location
PETE MARTIN DRILLING / 1	11/15/2007	11/15/2007	11/15/2007	11/15/2007	11/15/2007	11/15/2007	11/15/2007

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode	P/U	Operation
	14:00 - 15:00	1.00	DRLSUR	15		P	CEMENT 1ST STAGE WITH 200 SKS LEAD @ 11# 3.82 23 GAL/SK AND 200 SKS TAIL @ 15.8# 1.15 5.0 GAL/SK GOOD RETURNS NO LEAD CMT TO SURFACE 500 PSI LIFT
	15:00 - 15:30	0.50	DRLSUR	15		P	1ST TOP JOB 150 SKS DOWN 1" PIPE NO CMT TO SURFACE WOC
	15:30 - 17:00	1.50	DRLSUR	15		P	2ND TOP JOB 100 SKS DOWN BS GOO CMT TO SURFACE AND STAYED AT SURFACE
	17:00 - 0:00	7.00	DRLSUR	12		P	NO VISIBLE LEAKS WORT
3/21/2008							
SUPERVISOR: SID ARMSTRONG							
	0:00 - 19:00	19.00	DRLPRO	01	C	P	SKID RIG & RIG UP
	19:00 - 0:00	5.00	DRLPRO	13	C	P	NIPPLE UP & TEST B.O.P'S
3/22/2008							
SUPERVISOR: SID ARMSTRONG							
	0:00 - 1:00	1.00	DRLPRO	13	C	P	TEST B.O.P'S
	1:00 - 8:30	7.50	DRLPRO	05	A	P	INSPECT BHA & T.I.H & TAG @ 2,034
	8:30 - 9:30	1.00	DRLPRO	02	F	P	DRILL CEMENT & F.E
	9:30 - 13:00	3.50	DRLPRO	02	D	P	DRILL-SURVEY F/ 2160 TO 2406 - 246' @ 70.2 FPH W/ 8.4 PPG VIS 30
	13:00 - 13:30	0.50	DRLPRO	06	A	P	RIG SER
	13:30 - 0:00	10.50	DRLPRO	02	D	P	DRILL-SURVEY F/ 2406 TO 3002 - 596' @ 56.7 W/ 8.8 PPG VIS 38
3/23/2008							
SUPERVISOR: SID ARMSTRONG							
	0:00 - 10:30	10.50	DRLPRO	02	D	P	DRILL-SURVEY F/ 3002 TO 3544 - 542' @ 51.6 FPH W/ 8.9 PPG VIS 42
	10:30 - 11:00	0.50	DRLPRO	06	A	P	SER RIG
	11:00 - 0:00	13.00	DRLPRO	02	D	P	DRILL-SURVEY F/ 3544 TO 4120 - 576' @ 44.3 W/ 9.6 PPG VIS 42
3/24/2008							
SUPERVISOR: SID ARMSTRONG							
	0:00 - 13:30	13.50	DRLPRO	02	D	P	DRILL-SURVEY F/ 4120 TO 4560 - 440' @ 32.5 FPH W/ 10.0 PPG VIS 42
	13:30 - 14:00	0.50	DRLPRO	06	A	P	SER RIG
	14:00 - 0:00	10.00	DRLPRO	02	D	P	DRILL-SURVEY F/ 4560 TO 4980 - 420' @ 42.0 FPH W/ 10.0 PPG VIS 42
3/25/2008							
SUPERVISOR: SID ARMSTRONG							
	0:00 - 16:30	16.50	DRLPRO	02	D	P	DRILL-SURVEY F/ 4980 TO 5517 - 537' @ 32.5 FPH W/ 10.0 PPG VIS 42
	16:30 - 17:00	0.50	DRLPRO	06	A	P	SER RIG
	17:00 - 0:00	7.00	DRLPRO	02	D	P	DRILL-SURVEY F/ 5517 TO 5750 - 233' @ 33.2 FPH W/ 10.0 PPG VIS 42
3/26/2008							
SUPERVISOR: SID ARMSTRONG							
	0:00 - 11:30	11.50	DRLPRO	02	D	P	DRILL-SURVEY F/ 5750 TO 6118 - 368' @ 32.0 FPH W/ 10.0 PPG VIS 42
	11:30 - 12:00	0.50	DRLPRO	06	A	P	RIG SER
	12:00 - 22:30	10.50	DRLPRO	02	D	P	DRILL-SURVEY F/ 6118 TO 6444 - 326 @ 31.0 FPH W/ 10.1 PPG VIS 42
	22:30 - 0:00	1.50	DRLPRO	05	A	P	BUILD SLUG & T.O.H (MUD MOTOR FAILURE)

Wins No.: 95377	NBU 1022-13O-1AS	API No.: 4304739478
EVENT INFORMATION:	EVENT ACTIVITY: DRILLING	REASON:
	OBJECTIVE: DEVELOPMENT	DATE WELL STARTED/RESUMED: 11/15/2007
	OBJECTIVE2:	Event End Status: COMPLETE

RIG OPERATIONS:	Begin Mobilization	Rig On Location	Rig Charges	Rig Operation Start	Finish Drilling	Rig Release	Rig Off Location
PETE MARTIN DRILLING / 1	11/15/2007	11/15/2007	11/15/2007	11/15/2007	11/15/2007	11/15/2007	11/15/2007

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode	P/U	Operation
3/27/2008							
SUPERVISOR: SID ARMSTRONG							
	0:00 - 8:00	8.00	DRLPRO	05	A	P	T.F.N.B & MUD MOTOR
	8:00 - 10:30	2.50	DRLPRO	02	D	P	DRILL-SURVEY F/ 6444 TO 6533 - 89' @ 35.6 FPH W/ 10.2 PPG VIS 42
	10:30 - 11:00	0.50	DRLPRO	06	A	P	RIG SER
	11:00 - 0:00	13.00	DRLPRO	02	D	P	DRILL-SURVEY F/ 6533 TO 6910 - 377' @ 29.0 FPH W/ 10.5 PPG VIS 43
3/28/2008							
SUPERVISOR: SID ARMSTRONG							
	0:00 - 14:00	14.00	DRLPRO	02	D	P	DRILL-SURVEY F/ 6910 TO 7235 - 325' @ 23.2 FPH W/ 10.6 PPG VIS 43
	14:00 - 14:30	0.50	DRLPRO	06	A	P	SER RIG
	14:30 - 0:00	9.50	DRLPRO	02	D	P	DRILL-SURVEY F/ 7325 TO 7464 - 139' @ 14.6 FPH W/ 11.0 PPG VIS 45
3/29/2008							
SUPERVISOR: SID ARMSTRONG							
	0:00 - 12:30	12.50	DRLPRO	02	D	P	DRILL-SURVEY F/ 7464 TO 7714 - 250' @ 20.0 FPH W/ 11.1 PPG VIS 45
	12:30 - 13:00	0.50	DRLPRO	06	A	P	RIG SER
	13:00 - 0:00	11.00	DRLPRO	02	D	P	DRILL-SURVEY F/ 7714 TO 8019 - 305' @ 27.7 FPH W/ 11.3 PPG VIS 45
3/30/2008							
SUPERVISOR: SID ARMSTRONG							
	0:00 - 8:30	8.50	DRLPRO	02	D	P	DRILL-SURVEY F/ 8019 TO 8158 - 139' @ 16.3 FPH W/ 11.6 PPG VIS 45
	8:30 - 16:30	8.00	DRLPRO	05	A	P	PUMP SLUG & T.F.N.B & MUD MOTOR
	16:30 - 0:00	7.50	DRLPRO	02	D	P	DRILL SURVEY F/ 8158 TO 8420 - 262 @ 34.9 FPH W/ 12.0 PPG VIS 45
3/31/2008							
SUPERVISOR: SID ARMSTRONG							
	0:00 - 5:30	5.50	DRLPRO	02	D	P	DRILL-SURVEY F/ 8420 TO 8685 - 265' @ 48.1 FPH W/ 12.0 PPG VIS 45
	5:30 - 6:30	1.00	DRLPRO	04	C	P	CIRC BTM UP
	6:30 - 8:00	1.50	DRLPRO	05	E	P	SHORT TRIP 10 STANDS
	8:00 - 9:00	1.00	DRLPRO	04	C	P	CIRC BTM UP
	9:00 - 13:00	4.00	DRLPRO	05	B	P	T.O.H F/ LOGS
	13:00 - 19:30	6.50	DRLPRO	08	A	P	R/U BAKER WIRELINE & RUN TRIPLE COMBO LOGGERS DEPTH @ 8,680 & R/D
	19:30 - 23:00	3.50	DRLPRO	05	A	P	M/U BIT & BIT SUB & T.I.H
	23:00 - 0:00	1.00	DRLPRO	04	C	P	CIRC BTM UP & R/U LAYDOWM MACHINE
4/1/2008							
SUPERVISOR: SID ARMSTRONG							
	0:00 - 1:00	1.00	DRLPRO	04	B	P	CIRC BTM UP
	1:00 - 9:00	8.00	DRLPRO	05	D	P	HELD SAFETY MEETING & R/U LAYDOWN MACHINE & L/D D.P
	9:00 - 18:00	9.00	DRLPRO	11	B	P	HELD SAFETY MEETING & R/U CSG CREW & RUN 4 1/2 PROD. STRING - 205 JTS PLUS MARKER
	18:00 - 20:00	2.00	DRLPRO	04	E	P	R/U BJ CEMENT HEAD & CIRC BTM UP

Wins No.: 95377	NBU 1022-13O-1AS	API No.: 4304739478

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

RIG OPERATIONS:	Begin Mobilization	Rig On Location	Rig Charges	Rig Operation Start	Finish Drilling	Rig Release	Rig Off Location
PETE MARTIN DRILLING / I	11/15/2007	11/15/2007	11/15/2007	11/15/2007	11/15/2007	11/15/2007	11/15/2007

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode	P/U	Operation
	20:00 - 22:30	2.50	DRLPRO	15	A	P	HELD SAFETY MEETING & TESTED LINES 4500 PSI & CEMENT W/ 20 BBLS MUD CLEAN & 20 SKS SCAVENGER W/ 9.5 PPG YIELD 8.45 & F/ LEAD 368 SKS W/ 11.5 PPG YIELD 2.82 F/ TAIL 1060 SKS W/ 14.3 PPG YIELD 1.31 & DROP PLUG & DISPLACED W/ 133 BBLS WATER & BUMP PLUG 500 OVER FINAL CIRC PRESSURE OF 2460 & PLUG HELD & GOT BACK 33 BBLS CEMENT TO PIT.
	22:30 - 0:00	1.50	DRLPRO	13	A	P	NIPPLE DOWN SET SLIPS W/ 115K & CUT OFF 4 1/2 CASING
4/2/2008							
SUPERVISOR: SID ARMSTRONG							
	0:00 - 3:00	3.00	DRLPRO	13	A	P	WASH & CLEAN PITS OUT & RELEASED RIG @ 0300 ON 4/2/2008

WINS No.: 95377	NBU 1022-13O-1AS	Start Date: 5/5/2008
AFE No.: 2008167	Operation Summary Report	End Date:

Operator	FIELD NAME	SPUD DATE	GL	KB	ROUTE
KERR-MCGEE OIL & GAS ONSHORE LP	NATURAL BUTTES	11/15/07	5,293	5310	

API	STATE	COUNTY	DIVISION
4304739478	UTAH	UINTAH	ROCKIES

Lat./Long.: Lat./Long.: 39.94640 / -109.39123 **Q-Q/Sect/Town/Range:** / 13 / 10S / 22E **Footages:** 1,731.00' FSL 1,784.00' FWL

MTD	TVD	LOG MD	PBMD	PBTVD
8685	8210			

EVENT INFORMATION: EVENT ACTIVITY: COMPLETION
OBJECTIVE: DEVELOPMENT
OBJECTIVE2: ORIGINAL
REASON: WHR PAD#1 - MV
DATE WELL STARTED/RESUMED:
Event End Status:

RIG OPERATIONS:	Begin Mobilization	Rig On Location	Rig Charges	Rig Operation Start	Finish Drilling	Rig Release	Rig Off Location
LEED 698 / 698		04/02/2008				04/08/2008	04/08/2008

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. PERFORATING & FRACING
	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 PASHING. PERFORATE 8,345' - 49' 4 SPF, 8,216' - 22' 4 SPF, 40 HOLES. WHP 0 PSI, BRK 4,093 PSI, @ 2.5 BPM, ISIP 2,283 PSI, FG .72. PUMP 100 BBLS @ 50.3 BPM @ 4,350 PSI = 36 OF 40 HOLES OPEN 88%. MP 5,188 PSI, MR 53 BPM, AP 4,232 PSI, AR 50 BPM, ISIP 2,692 PSI, FG .77 NPI 409 PSI. PMP 1,807 BBLS OF SLK WATER & 56,364 LBS OF 30/50 SAND & 5,000 LBS OF 20/40 RESIN SND. TOTAL PROP 61,364 LBS. STG 2) PU 4 1/2" CBP RIH W/ 3 3/8" EXP GNS, 23 GRM, .36 HOLES, 90 & 120 DEG PASHING. SET 8K BAKER CBP @ 8,053' & PERFORATE 8,016' - 23' 4 SPF, 7,945' - 47' 3 SPF, 7,855' - 57' 3 SPF, 40 HOLES. WHP 600 PSI, BRK 3,439 PSI, @ 2.6 BPM, ISIP 2,372 PSI, FG .74. PUMP 100 BBLS @ 39.9 BPM @ 4,500 PSI = 27 OF 40 HOLES OPEN 68%. MP 5,319 PSI, MR 40.2 BPM, AP 4,288 PSI, AR 40 BPM, ISIP 2,782 PSI, FG .79 NPI 410 PSI. PMP 1,494 BBLS OF SLK WATER & 47,693 LBS OF 30/50 SAND & 5,000 LBS OF 20/40 RESIN SND. TOTAL PROP 52,693 LBS. SWI SDFN
5/6/2008							
SUPERVISOR: DOUG CHIVERS							
	7:00 - 7:30	0.50	COMP	48		P	HSM. FRACING & PERFORATING

Wins No.: 95377	NBU 1022-13O-1AS	API No.: 4304739478
EVENT INFORMATION:	EVENT ACTIVITY: COMPLETION	REASON: WHR PAD#1 - MV
	OBJECTIVE: DEVELOPMENT	DATE WELL STARTED/RESUMED:
	OBJECTIVE2: ORIGINAL	Event End Status:

RIG OPERATIONS:	Begin Mobilization	Rig On Location	Rig Charges	Rig Operation Start	Finish Drilling	Rig Release	Rig Off Location
LEED 698 / 698		04/02/2008				04/08/2008	04/08/2008

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode	P/U	Operation
	7:30 - 18:00	10.50	COMP	36	B	P	STG 3) PU 4 1/2" CBP & RIH W/ 3 3/8" EXP GNS, 23 GRM, .36 HOLES, 90 DEG PHASING. SET BAKER 8K CBP @ 7,676' & PERFORATE 7,644' - 46' 4 SPF, 7,634' - 38' 4 SPF, 7,618' - 22' 4 SPF, 40 HOLES. WHP 1,700 PSI, BRK 3,207 PSI, @ 2.9 BPM, ISIP 1,837 PSI, FG .68. PUMP 100 BBLS @ 39.6 BPM @ 3,400 PSI = 29 OF 40 HOLES OPEN 73%. MP 4,608 PSI, MR 40.2 BPM, AP 3,455 PSI, AR 39.7 BPM, ISIP 2,417 PSI, FG .76 NPI 580 PSI. PMP 1,734 BBLS OF SLK WATER & 57,214 LBS OF 30/50 SAND & 5,000 LBS OF 20/40 RESIN SND. TOTAL PROP 62,214 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 @ 7,557' & PERFORATE 7,520' - 27' 4 SPF, 7,419' - 22' 4 SPF, 7,346' - 48' 4 SPF, 48 HOLES. WHP 850 PSI, BRK 2,304 PSI, @ 2.9 BPM, ISIP 1,650 PSII, FG .68. PUMP 100 BBLS @ 53.6 BPM @ 3,900 PSI = 48 OF 48 HOLES OPEN 100%. MP 4,764 PSI, MR 53.9 BPM, AP 4,061 PSI, AR 53.5 BPM, ISIP 2,227 PSI, FG .74 NPI 577 PSI. PMP 6,400 BBLS OF SLK WATER & 240,429 LBS OF 30/50 SAND & 5,000 LBS OF 20/40 RESIN SND. TOTAL PROP 245,429 LBS. STG 5) PU 4 1/2" CBP & RIH W/ 3 3/8" EXP GNS, 23 GRM, .36 HOLES, 90 & 120 DEG PHASING. SET BAKER 8K CBP @ 7,266' & PERFORATE 7,230' - 36' 4 SPF, 7,172' - 74' 4 SPF, 7,107' - 10' 3 SPF, 41 HOLES. WHP 2,100 PSI, BRK 2,246 PSI, @ 3.2 BPM, ISIP 1,988 PSII, FG .74. PUMP 100 BBLS @ 49.8 BPM @ 4,100 PSI = 34 OF 41 HOLES OPEN 83%. MP 4,461 PSI, MR 51.2 BPM, AP 4,100 PSI, AR 49.7 BPM, ISIP 2,286 PSI, FG .78 NPI 298 PSI. PMP 1,007 BBLS OF SLK WATER & 28,906 LBS OF 30/50 SAND & 5,000 LBS OF 20/40 RESIN SND. TOTAL PROP 33,906 LBS. KILL PLG) PU 4 1/2" 8K BAKER CBP RIH SET @ 7,057' WELL STIM COMPLETE SWI.
5/7/2008							
SUPERVISOR: BRAD BURMAN							
	7:00 - 7:30	0.50	COMP	48		P	JSA#5

Wins No.: 95377	NBU 1022-13O-1AS	API No.: 4304739478

EVENT INFORMATION:	EVENT ACTIVITY: COMPLETION	REASON: WHR PAD#1 - MV
	OBJECTIVE: DEVELOPMENT	DATE WELL STARTED/RESUMED:
	OBJECTIVE2: ORIGINAL	Event End Status:

RIG OPERATIONS:	Begin Mobilization	Rig On Location	Rig Charges	Rig Operation Start	Finish Drilling	Rig Release	Rig Off Location
LEED 698 / 698		04/02/2008				04/08/2008	04/08/2008

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode	P/U	Operation
	7:30 - 10:53	3.38	COMP	44	C	P	7AM [DAY 3] RDMO NBU 1022-13IS. MIRU ON NBU 1022-13O1AS. SPOT EQUIP. N/D FRAC VALVES, NUBOP. R/U FLOOR & TBG EQUIP. P/U 3-7/8" BIT, POBS W/ XN NIPPLE & RIH ON 2-3/8" L-80 TBG. [SLM] TBG WAS DRIFTED. TAG CBP#1 @ 7050'. R/U SWVL & PMP. ESTAB CIRC . P.T. BOP TO 3000#. [DRLG CBP#1] @ 7050'. DRILL OUT BAKER 8K CBP IN 6 MIN. 150# DIFF. RIH, TAG SD @ 7226'. C/O 40' SD. FCP=150# [DRLG CBP#2] @ 7266'. DRILL OUT BAKER 8K CBP IN 6 MIN. 50# DIFF. RIH, TAG SD @ 7522'. C/O 35' SD. FCP=200#. [DRLG CBP#3] @ 7557'. DRILL OUT BAKER 8K CBP IN 6 MIN. 50# DIFF. RIH, TAG SD @ 7646'. C/O 30' SD. FCP=250#. [DRLG CBP #4] @ 7676'. DRILL OUT BAKER 8K CBP IN 6 MIN. 100# DIFF. RIH, TAG SD @ 8018'. C/O 35' SD. FCP=300#. [DRLG CBP# 5] @ 8053'. DRILL OUT IN 5 MIN. 50# DIFF. RIH, TAG SD @ 8469'. B.P. @ 8349'. [120' RATHOLE] . ORIG PBTD @ 8630'. CIRC WELL CLN. R/D SWVL. POOH & L/D 11 JTS ON FLOAT. LAND TBG ON HNGR W/ 257 JTS NEW 2-3/8" L-80 TBG. EOT @ 8180.93' & POBS W/ XN @ 8178.73'. AVG 6 MIN/PLUG & C/O 140' SAND. R/D FLOOR & TBG EQUIPMENT. NDBOP, NUWH. DROP BALL DN TBG & PMP OFF THE BIT @ 2300#. OPEN WELL TO PIT ON 20/64 CHOKE. FTP=1150, SICP=1400. 6 PM TURN WELL OVER TO FBC. LTR @ 6PM=11,042 BBLS.
5/17/2008							
SUPERVISOR: BRAD BURMAN							
	13:00 -		PROD				TURN WELL TO SALES @ 1300 HR ON 5/17/2008 - FTP 1500#, CP 3000#, CK 20/64", 264 MCFD, 720 BWPD

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

AMENDED REPORT ☐ (highlight changes) FORM 8

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. LEASE DESIGNATION AND SERIAL NUMBER: STUO-08512-ST
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
7. UNIT or CA AGREEMENT NAME: UNIT #891008900A
8. WELL NAME and NUMBER: NBU 1022-13O1AS
9. API NUMBER: 4304739478
10 FIELD AND POOL, OR WILDCAT: NATURAL BUTTES
11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NESW 13 10S 22E
12. COUNTY: UINTAH
13. STATE: UTAH

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☑ DRY ☐ OTHER
b. TYPE OF WORK: NEW WELL ☑ HORIZ. LATS. ☐ DEEP-EN ☐ RE-ENTRY ☐ DIFF. RESVR. ☐ OTHER
2. NAME OF OPERATOR: KERR McGEE OIL & GAS ONSHORE LP
3. ADDRESS OF OPERATOR: 1368 S 1200 E CITY VERNAL STATE UT ZIP 84078 PHONE NUMBER: (435) 781-7024
4. LOCATION OF WELL (FOOTAGES)
AT SURFACE: 1731'FSL, 1784'FWL per DKD review
AT TOP PRODUCING INTERVAL REPORTED BELOW:
AT TOTAL DEPTH: ~~1310FSL, 1540'FEL~~ (SW/SE) 1319 fsl 1494 fel

14. DATE SPUDDED: 11/15/2007
15. DATE T.D. REACHED: 3/31/2008
16. DATE COMPLETED: 5/16/2008 ABANDONED ☐ READY TO PRODUCE ☑
17. ELEVATIONS (DF, RKB, RT, GL): 5293'GL
18. TOTAL DEPTH: MD 8,685 TVD 8,210
19. PLUG BACK T.D.: MD 8,630 TVD 8,155
20. IF MULTIPLE COMPLETIONS, HOW MANY? *
21. DEPTH BRIDGE PLUG SET: MD TVD
22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)
CBL-CCL-GR, Comp 2, CD, CN, Cal, HDI
23.
WAS WELL CORED? NO ☑ YES ☐ (Submit analysis)
WAS DST RUN? NO ☑ YES ☐ (Submit report)
DIRECTIONAL SURVEY? NO ☐ YES ☑ (Submit copy)

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

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
20"	14" STL	36.7#		40		28			
12 1/4"	9 5/8 J-55	36#		2,160		650			
7 7/8"	4 1/2 I-80	11.6#		8,685		1428			

25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 3/8"	8,181							

26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)
(A) MESAVERDE	7,107	8,349		
(B) WSMVD				
(C)				
(D)				

27. PERFORATION RECORD

INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
7,107 8,349	0.36	209	Open ☑ Squeezed ☐
			Open ☐ Squeezed ☐
			Open ☐ Squeezed ☐
			Open ☐ Squeezed ☐

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

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

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
7107'-8349'	PMP 12,442 BBLS SLICK H2O & 455,606# 30/50 SD

29. ENCLOSED ATTACHMENTS:

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

30. WELL STATUS: PROD

(5/2000)

(CONTINUED ON BACK)

31. INITIAL PRODUCTION

INTERVAL A (As shown in item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
5/16/2008	5/25/2008	24		0	1,360	408	FLOWING

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:
20/64	980	1,800					0	1,360	408	PROD

INTERVAL B (As shown in item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:

CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

INTERVAL C (As shown in item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:

CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

INTERVAL D (As shown in item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:

CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

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

SOLD

33. SUMMARY OF POROUS ZONES (Include Aquifers):

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

34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
WASATCH	4,157	6,540			
MESAVERDE	6,540				

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

(5/2000)

Weatherford

Drilling Services

Completion

Anadarko KerrMcGee

ANADARKO - KERR McGEE

NBU#1022-13O1AS

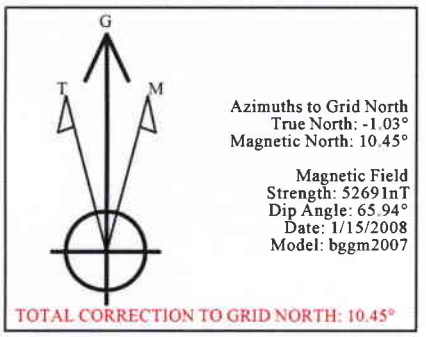
UINTAH COUNTY, UTAH

WELL FILE: 4013961C

DATE: MARCH31, 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

KERR MCGEE OIL & GAS
NBU #1022-13O1AS
UINTAH COUNTY, UTAH

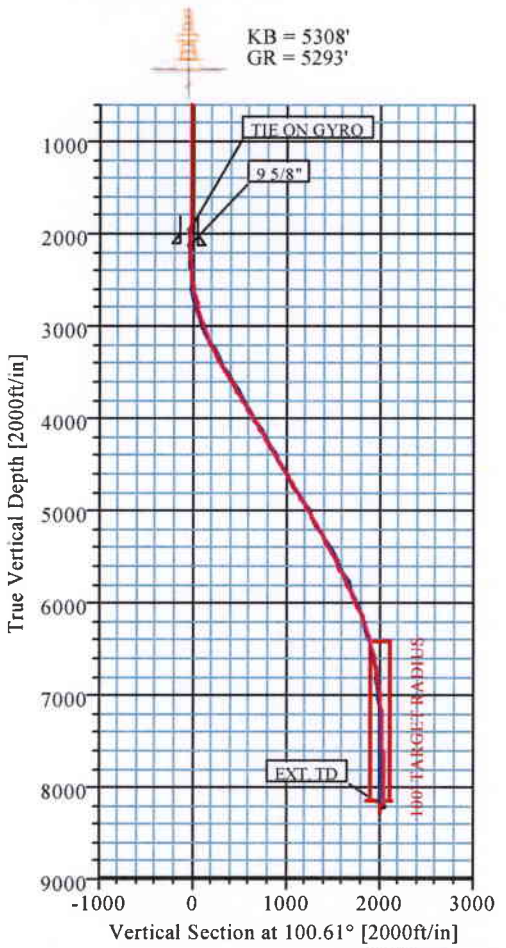


WELL DETAILS

Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
13O1AS	0.00	0.00	14510586.10	2091437.50	39°56'46.962N	109°23'27.032W	N/A

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
PBHL	8140.00	-370.84	1980.09	14510215.26	2093417.59	Circle (Radius: 100)



FORMATION TOP DETAILS

No.	TVDPath	MDPath	Formation
1	3976.00	4123.45	Wasatch
2	6204.00	6655.72	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: bggm2007

System Datum: Mean Sea Level
Local North: Grid North

LEGEND

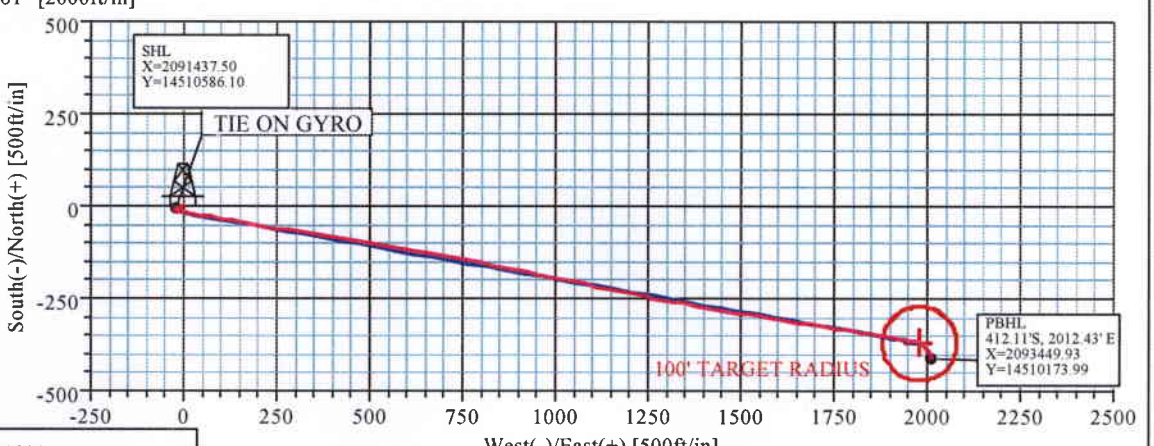
13O1AS,1,Plan #3
WFT SVY

CASING DETAILS

No.	TVD	MD	Name	Size
1	2129.76	2130.00	9 5/8"	9.62

Survey: WFT SVY (13O1AS/1)

No	MD	Inc	Az	TVD	+N/-S	+E/-W	DLeg	TFace	VSec
103	8685.00	1.58	153.01	8210.27	-412.11 EXT. TD	2012.43	0.00	0.00	2053.90



Survey: WFT SVY (13O1AS/1)

Created By: Russell Joyner Date: 3/31/2008

Weatherford
SURVEY REPORT - GEOGRAPHIC

Company:	Anadarko-Kerr-McGee	**Date:** 3/31/2008	**Time:** 08:27:43	**Page:**	1
Field:	UINTAH COUNTY, UTAH (UTM Zone 12N-NAD 27)	**Co-ordinate(NE) Reference:**	Site: NBU 1022-13O1AS, Grid North		
Site:	NBU 1022-13O1AS	**Vertical (TVD) Reference:**	SITE 5308.0		
Well:	13O1AS	**Section (VS) Reference:**	Well (0.00N,0.00E,100.61Azi)		
Wellpath:	1	**Survey Calculation Method:**	Minimum Curvature	**Db:**	Sybase

Survey:	WFT SVY	**Start Date:**	3/24/2008
Company:	WEATHERFORD DRILLING SERVICES	**Engineer:**	Russell Joyner
Tool:	MWD;MWD - Standard	**Tied-to:**	From: Definitive Path

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 1022-13O1AS						
Site Position:		**Northing:**	14510586.10 ft	**Latitude:**	39 56	46.962	N
From:	Map	**Easting:**	2091437.50 ft	**Longitude:**	109 23	27.032	W
Position Uncertainty:	0.00 ft			**North Reference:**		Grid	
Ground Level:	5293.00 ft			**Grid Convergence:**		1.03	deg

Well:	13O1AS					**Slot Name:**		
Well Position:	+N/-S	0.00 ft	**Northing:**	14510586.10 ft	**Latitude:**	39 56	46.962	N
	+E/-W	0.00 ft	**Easting :**	2091437.50 ft	**Longitude:**	109 23	27.032	W
Position Uncertainty:		0.00 ft						

Wellpath:	1		**Drilled From:**	Surface	
			Tie-on Depth:	0.00	ft
Current Datum:	SITE	**Height** 5308.00 ft	**Above System Datum:**	Mean Sea Level	
Magnetic Data:	1/15/2008		**Declination:**	11.48	deg
Field Strength:	52691 nT		**Mag Dip Angle:**	65.94	deg

Vertical Section:	**Depth From (TVD)** ft	**+N/-S** ft	**+E/-W** ft	**Direction** deg
	0.00	0.00	0.00	100.61

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
1960.00	1.50	223.32	1959.81	-4.89	-22.32	0.00	-21.04	14510581.21	2091415.18	TIE ON GYRO
2130.00	1.39	197.12	2129.76	-8.49	-24.46	0.39	-22.48	14510577.61	2091413.04	9 5/8"
2200.00	1.44	186.20	2199.74	-10.17	-24.80	0.39	-22.51	14510575.93	2091412.70	
2262.00	2.00	145.70	2261.71	-11.84	-24.28	2.10	-21.68	14510574.26	2091413.22	
2324.00	3.92	110.52	2323.63	-13.48	-21.68	4.13	-18.83	14510572.62	2091415.82	
2385.00	4.94	96.95	2384.45	-14.53	-17.12	2.39	-14.16	14510571.57	2091420.38	
2447.00	6.44	91.20	2446.14	-14.92	-11.00	2.59	-8.06	14510571.18	2091426.50	
2509.00	7.81	94.33	2507.66	-15.31	-3.32	2.30	-0.44	14510570.79	2091434.18	
2571.00	9.13	100.95	2568.99	-16.57	5.71	2.64	8.66	14510569.53	2091443.21	
2633.00	10.50	101.45	2630.08	-18.62	16.08	2.21	19.23	14510567.48	2091453.58	
2695.00	11.81	102.58	2690.91	-21.13	27.81	2.14	31.22	14510564.97	2091465.31	
2756.00	13.25	99.95	2750.45	-23.69	40.79	2.54	44.45	14510562.41	2091478.29	
2817.00	14.88	98.58	2809.62	-26.07	55.42	2.73	59.27	14510560.03	2091492.92	
2879.00	16.19	99.08	2869.36	-28.62	71.82	2.12	75.87	14510557.48	2091509.32	
2942.00	17.19	98.58	2929.70	-31.40	89.70	1.60	93.95	14510554.70	2091527.20	
3002.00	19.19	98.08	2986.70	-34.11	108.24	3.34	112.66	14510551.99	2091545.74	
3064.00	20.94	99.58	3044.93	-37.38	129.25	2.94	133.92	14510548.72	2091566.75	
3124.00	21.88	99.70	3100.79	-41.05	150.84	1.57	155.82	14510545.05	2091588.34	
3187.00	23.25	100.95	3158.97	-45.39	174.62	2.30	179.99	14510540.71	2091612.12	
3247.00	24.50	101.70	3213.83	-50.16	198.43	2.14	204.28	14510535.94	2091635.93	
3309.00	27.13	100.58	3269.64	-55.37	224.92	4.31	231.27	14510530.73	2091662.42	
3370.00	29.50	98.95	3323.34	-60.26	253.43	4.09	260.20	14510525.84	2091690.93	
3431.00	28.81	99.70	3376.61	-65.07	282.76	1.28	289.91	14510521.03	2091720.26	
3493.00	29.13	98.83	3430.85	-69.90	312.40	0.85	319.93	14510516.20	2091749.90	

Weatherford
SURVEY REPORT - GEOGRAPHIC

Company:	Anadarko-Kerr-McGee	**Date:** 3/31/2008	**Time:** 08:27:43	**Page:**	2
Field:	UINTAH COUNTY, UTAH (UTM Zone 12N-NAD 27)	**Co-ordinate(NE) Reference:**	Site: NBU 1022-13O1AS, Grid North		
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Well:	13O1AS	**Section (VS) Reference:**	Well (0.00N,0.00E,100.61Azi)		
Wellpath:	1	**Survey Calculation Method:**	Minimum Curvature	**Db:**	Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	DLS deg/100ft	VS ft	MapN ft	MapE ft	Comme
3554.00	31.13	98.58	3483.61	-74.54	342.66	3.29	350.53	14510511.56	2091780.16	
3616.00	29.88	98.83	3537.03	-79.30	373.77	2.03	381.98	14510506.80	2091811.27	
3678.00	30.31	97.45	3590.67	-83.70	404.55	1.31	413.04	14510502.40	2091842.05	
3741.00	29.94	96.43	3645.16	-87.52	435.93	1.00	444.59	14510498.58	2091873.43	
3803.00	30.50	99.20	3698.74	-91.77	466.84	2.42	475.75	14510494.33	2091904.34	
3865.00	30.56	100.08	3752.14	-97.04	497.89	0.73	507.24	14510489.06	2091935.39	
3927.00	29.50	99.45	3805.82	-102.31	528.47	1.78	538.27	14510483.79	2091965.97	
3987.00	29.56	99.95	3858.02	-107.29	557.62	0.42	567.84	14510478.81	2091995.12	
4048.00	29.69	100.83	3911.05	-112.73	587.27	0.74	597.99	14510473.37	2092024.77	
4108.00	31.19	101.45	3962.78	-118.61	617.10	2.55	628.39	14510467.49	2092054.60	
4171.00	31.06	101.20	4016.71	-125.00	649.03	0.29	660.95	14510461.10	2092086.53	
4233.00	30.69	100.95	4069.92	-131.11	680.25	0.63	692.76	14510454.99	2092117.75	
4293.00	30.63	100.45	4121.54	-136.79	710.32	0.44	723.36	14510449.31	2092147.82	
4354.00	30.81	99.95	4173.98	-142.31	740.99	0.51	754.52	14510443.79	2092178.49	
4417.00	30.75	100.08	4228.10	-147.92	772.73	0.14	786.76	14510438.18	2092210.23	
4478.00	30.31	99.95	4280.65	-153.31	803.25	0.73	817.74	14510432.79	2092240.75	
4540.00	30.81	101.70	4334.03	-159.23	834.21	1.65	849.26	14510426.87	2092271.71	
4601.00	30.81	102.20	4386.43	-165.70	864.77	0.42	880.50	14510420.40	2092302.27	
4663.00	30.56	102.08	4439.74	-172.35	895.71	0.42	912.13	14510413.75	2092333.21	
4725.00	30.44	102.58	4493.17	-179.07	926.45	0.45	943.58	14510407.03	2092363.95	
4787.00	30.94	102.20	4546.48	-185.86	957.35	0.86	975.21	14510400.24	2092394.85	
4849.00	30.88	101.58	4599.68	-192.42	988.52	0.52	1007.05	14510393.68	2092426.02	
4912.00	30.44	101.33	4653.87	-198.80	1020.01	0.73	1039.17	14510387.30	2092457.51	
4973.00	30.13	101.20	4706.54	-204.81	1050.18	0.52	1069.93	14510381.29	2092487.68	
5035.00	30.81	101.20	4759.98	-210.92	1081.02	1.10	1101.37	14510375.18	2092518.52	
5096.00	30.88	101.33	4812.35	-217.03	1111.69	0.16	1132.64	14510369.07	2092549.19	
5156.00	30.69	101.58	4863.90	-223.13	1141.79	0.38	1163.35	14510362.97	2092579.29	
5219.00	30.31	101.70	4918.18	-229.58	1173.10	0.61	1195.32	14510356.52	2092610.60	
5281.00	29.69	101.83	4971.88	-235.90	1203.45	1.01	1226.31	14510350.20	2092640.95	
5341.00	29.13	102.20	5024.14	-242.03	1232.27	0.98	1255.77	14510344.07	2092669.77	
5403.00	29.06	100.70	5078.32	-248.02	1261.82	1.18	1285.91	14510338.08	2092699.32	
5466.00	28.94	98.83	5133.42	-253.20	1291.91	1.45	1316.45	14510332.90	2092729.41	
5528.00	29.13	98.83	5187.63	-257.82	1321.65	0.31	1346.52	14510328.28	2092759.15	
5590.00	29.00	100.08	5241.82	-262.76	1351.36	1.00	1376.63	14510323.34	2092788.86	
5653.00	28.56	101.33	5297.04	-268.40	1381.16	1.18	1406.96	14510317.70	2092818.66	
5716.00	28.13	100.08	5352.49	-273.95	1410.55	1.16	1436.87	14510312.15	2092848.05	
5780.00	27.94	99.83	5408.98	-279.15	1440.18	0.35	1466.95	14510306.95	2092877.68	
5844.00	27.56	99.70	5465.62	-284.21	1469.54	0.60	1496.75	14510301.89	2092907.04	
5908.00	26.63	100.20	5522.59	-289.24	1498.25	1.50	1525.90	14510296.86	2092935.75	
5972.00	26.06	99.33	5579.95	-294.06	1526.24	1.08	1554.29	14510292.04	2092963.74	
6036.00	25.00	99.20	5637.70	-298.50	1553.47	1.66	1581.87	14510287.60	2092990.97	
6099.00	25.50	98.58	5694.68	-302.66	1580.02	0.90	1608.73	14510283.44	2093017.52	
6163.00	25.19	99.83	5752.52	-307.04	1607.06	0.97	1636.12	14510279.06	2093044.56	
6227.00	25.06	98.70	5810.46	-311.41	1633.88	0.78	1663.28	14510274.69	2093071.38	
6291.00	24.63	98.08	5868.54	-315.34	1660.48	0.79	1690.15	14510270.76	2093097.98	
6355.00	24.19	98.58	5926.82	-319.17	1686.65	0.76	1716.58	14510266.93	2093124.15	
6419.00	23.56	99.83	5985.34	-323.31	1712.22	1.26	1742.47	14510262.79	2093149.72	
6482.00	23.70	99.97	6043.06	-327.65	1737.09	0.24	1767.72	14510258.45	2093174.59	
6546.00	23.50	99.20	6101.71	-331.92	1762.36	0.57	1793.34	14510254.18	2093199.86	
6610.00	20.44	98.70	6161.05	-335.65	1786.01	4.79	1817.27	14510250.45	2093223.51	
6674.00	19.31	98.83	6221.24	-338.96	1807.51	1.77	1839.02	14510247.14	2093245.01	
6737.00	18.56	99.83	6280.83	-342.27	1827.68	1.30	1859.46	14510243.83	2093265.18	

Weatherford
SURVEY REPORT - GEOGRAPHIC

Company:	Anadarko-Kerr-McGee	**Date:** 3/31/2008	**Time:** 08:27:43	**Page:**	3
Field:	UINTAH COUNTY, UTAH (UTM Zone 12N-NAD 27)	**Co-ordinate(NE) Reference:**	Site: NBU 1022-13O1AS, Grid North		
Site:	NBU 1022-13O1AS	**Vertical (TVD) Reference:**	SITE 5308.0		
Well:	13O1AS	**Section (VS) Reference:**	Well (0.00N,0.00E,100.61Azi)		
Wellpath:	1	**Survey Calculation Method:**	Minimum Curvature	**Db:**	Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	DLS deg/100ft	VS ft	MapN ft	MapE ft	Comme
6801.00	16.63	99.20	6341.83	-345.48	1846.76	3.03	1878.80	14510240.62	2093284.26	
6865.00	15.63	97.95	6403.31	-348.13	1864.34	1.65	1896.57	14510237.97	2093301.84	
6929.00	13.69	98.08	6465.23	-350.39	1880.38	3.03	1912.75	14510235.71	2093317.88	
6992.00	12.63	98.20	6526.57	-352.42	1894.58	1.68	1927.08	14510233.68	2093332.08	
7056.00	12.31	100.83	6589.06	-354.70	1908.20	1.02	1940.89	14510231.40	2093345.70	
7120.00	10.94	99.20	6651.75	-356.95	1920.90	2.20	1953.78	14510229.15	2093358.40	
7184.00	10.00	98.95	6714.68	-358.79	1932.38	1.47	1965.41	14510227.31	2093369.88	
7248.00	9.63	102.08	6777.74	-360.77	1943.11	1.01	1976.31	14510225.33	2093380.61	
7312.00	9.25	103.83	6840.88	-363.12	1953.34	0.74	1986.80	14510222.98	2093390.84	
7375.00	8.81	101.45	6903.10	-365.29	1962.98	0.92	1996.68	14510220.81	2093400.48	
7439.00	7.81	96.70	6966.42	-366.77	1972.11	1.89	2005.92	14510219.33	2093409.61	
7503.00	6.31	94.58	7029.94	-367.56	1979.93	2.38	2013.76	14510218.54	2093417.43	
7567.00	4.50	103.20	7093.65	-368.41	1985.88	3.09	2019.76	14510217.69	2093423.38	
7631.00	3.13	127.08	7157.51	-370.04	1989.72	3.23	2023.84	14510216.06	2093427.22	
7694.00	2.94	146.70	7220.43	-372.43	1991.98	1.67	2026.50	14510213.67	2093429.48	
7758.00	2.94	149.33	7284.34	-375.21	1993.72	0.21	2028.72	14510210.89	2093431.22	
7854.00	3.25	147.83	7380.20	-379.63	1996.42	0.33	2032.19	14510206.47	2093433.92	
7949.00	3.50	149.45	7475.04	-384.41	1999.33	0.28	2035.93	14510201.69	2093436.83	
8043.00	3.50	148.95	7568.86	-389.34	2002.27	0.03	2039.72	14510196.76	2093439.77	
8107.00	3.67	151.80	7632.74	-392.82	2004.24	0.38	2042.30	14510193.28	2093441.74	
8171.00	3.88	149.95	7696.60	-396.50	2006.30	0.38	2045.00	14510189.60	2093443.80	
8234.00	3.44	156.33	7759.47	-400.07	2008.12	0.95	2047.45	14510186.03	2093445.62	
8298.00	2.13	166.70	7823.39	-402.99	2009.17	2.18	2049.02	14510183.11	2093446.67	
8362.00	1.31	165.70	7887.36	-404.86	2009.62	1.28	2049.81	14510181.24	2093447.12	
8457.00	1.19	156.45	7982.34	-406.81	2010.28	0.25	2050.82	14510179.29	2093447.78	
8553.00	1.44	164.20	8078.31	-408.89	2011.01	0.32	2051.91	14510177.21	2093448.51	
8634.00	1.58	153.01	8159.29	-410.86	2011.79	0.40	2053.05	14510175.24	2093449.29	
8685.00	1.58	153.01	8210.27	-412.11	2012.43	0.00	2053.90	14510173.99	2093449.93	EXT. TD

Formations

MD ft	TVD ft	Formations	Lithology	Dip Angle deg	Dip Direction deg
	0.00	Green River		0.00	0.00
4123.45	3976.00	Wasatch		0.00	0.00
6655.72	6204.00	Mesaverde		0.00	0.00

API Well No: 43047394780000

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 1022-13O1AS

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

9. API NUMBER: 43047394780000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER: 720 929-6007 Ext

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1731 FSL 1784 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		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
✓ SUBSEQUENT REPORT Date of Work Completion: 11/9/2009	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ DRILLING REPORT Report Date:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	✓ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

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

THIS WELL RETURNED TO PRODUCTION ON 11/09/2009.

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

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

RECEIVED December 03, 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 1022-13O1AS

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

9. API NUMBER:
43047394780000

3. ADDRESS OF OPERATOR:
P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER:
720 929-6515 Ext

9. FIELD and POOL or WILDCAT:
NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE:
1731 FSL 1784 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		
✓ NOTICE OF INTENT Approximate date work will start: 9/28/2011	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
☐ SPUD REPORT Date of Spud:	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	✓ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ DRILLING REPORT Report Date:	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

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 the Wasatch formation with the exisiting Mesaverde formation. Please see the attached procedure. Thank you.

Approved by the Utah Division of Oil, Gas and Mining

Date: 09/29/2011

By: Dark K Quist

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Andy Lytle	720 929-6100	Regulatory Analyst
SIGNATURE		**DATE**
N/A		9/27/2011

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Greater Natural Buttes Unit

NBU 1022-13O1AS

RE-COMPLETIONS PROCEDURE

DATE:9/20/2011
AFE#:
API#:4304739478
USER ID:rachappe (Frac Invoices Only)

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

SIGNATURE:

ENGINEERING MANAGER: JEFF DUFRESNE

SIGNATURE:

R E M E M B E R S A F E T Y F I R S T !

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Name: **NBU 1022-13O1AS**
Location: **NE NE SW SE SEC 13 T10S R22E**
LAT: 39.946403 **LONG: -109.391233** **COORDINATE: NAD83**
Uintah County, UT
Date: **9/20/2011**

ELEVATIONS: 5293' GL 5310' KB *Frac Registry TVD: 8210*

TOTAL DEPTH: 8685' **PBTD:** 8631'
SURFACE CASING: 9 5/8", 36# J-55 LT&C @ 2147'
PRODUCTION CASING: 4 1/2", 11.6#, I-80 LT&C @ 8675'
Marker Joint **4252-4273**'

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 ½" 11.6# I-80 (See above)	7780	6350	3.875"	0.0155	0.6528
2 3/8" by 4 ½" Annulus				0.0101	0.4227

TOPS: **BOTTOMS:**

1045' Green River Top
1299' Bird's Nest Top
1674' Mahogany Top
4157' Wasatch Top 6540' Wasatch Bottom
6540' Mesaverde Top 8685' Mesaverde Bottom (TD)

T.O.C. @ 640'

GENERAL:

- A minimum of **6** 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 3/31/2008
- **4** fracturing stages required for coverage.
- Procedure calls for **5** CBP's (**8000** psi) .
- Calculate open perforations after each breakdown. If less than 60% of the perforations appear to be open, ball out with 15% HCl.
- Pump scale inhibitor at 3 gpt (in pad and until 1.25 ppg ramp up is reached) and 10 gpt in all flushes except the final stage. Remember to pre-load the casing with scale inhibitor for the very first stage with 10 gpt.
- 30/50 mesh Ottawa sand, **Slickwater frac**.
- Maximum surface pressure **6200** psi.
- Flush volumes are the sum of slick water and acid used during displacement (include scale inhibitor as mentioned above). Stage acid and scale inhibitor if necessary to cover the next perforated interval.

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- **Call flush at 0 PPG @ inline densiometers. Slow to 5 bbl/min over last 10-20 bbls of flush. Flush to top perf.**
- **If distance between plug and top perf of previous stage is less than 50', it is considered to be tight spacing - over flush stage by 5 bbls (from top perf)**
- Tubing Currently Landed @~8161
- Originally completed on 5/5/2008

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Existing Perforations:

NBU 1022-1301AS

Perforation and CBP Summary

Stage	Zones	Perforations		SPF	Holes		Fracture Coverage		
		Top, ft	Bottom, ft						
1	MESAVERDE	8216	8222	4	24		8198	to	8200
	MESAVERDE	8345	8349	4	16		8208	to	8212
	MESAVERDE		No Perfs				8214	to	8232
	MESAVERDE		No Perfs				8262	to	8264
	# of Perfs/stage				40		CBP DEPTH	8053	
2	MESAVERDE	7855	7857	3	6		7852	to	7865
	MESAVERDE	7945	7947	3	6		7945	to	7947
	MESAVERDE	8016	8023	4	28		8016	to	8027
	MESAVERDE		No Perfs				8029	to	8031
	# of Perfs/stage				40		CBP DEPTH	7676	
3	MESAVERDE		No Perfs				7574	to	7575
	MESAVERDE		No Perfs				7593	to	7595
	MESAVERDE	7618	7622	4	16		7598	to	7600
	MESAVERDE	7634	7638	4	16		7614	to	7625
	MESAVERDE	7644	7646	4	8		7631	to	7638
	MESAVERDE		No Perfs				7642	to	7652
	# of Perfs/stage				40		CBP DEPTH	7557	
4	MESAVERDE		No Perfs				7246	to	7247
	MESAVERDE		No Perfs				7294	to	7298
	MESAVERDE		No Perfs				7301	to	7302
	MESAVERDE	7346	7348	4	8		7337	to	7347
	MESAVERDE		No Perfs				7369	to	7372
	MESAVERDE		No Perfs	3			7375	to	7377
	MESAVERDE		No Perfs				7391	to	7393
	MESAVERDE	7419	7422	4	12		7395	to	7396
	MESAVERDE		No Perfs				7416	to	7433
	MESAVERDE		No Perfs				7447	to	7454
	MESAVERDE		No Perfs				7456	to	7472
	MESAVERDE		No Perfs				7476	to	7482
	MESAVERDE		No Perfs				7488	to	7500
	MESAVERDE		No Perfs				7502	to	7511
	MESAVERDE	7520	7527	4	28		7514	to	7527
	# of Perfs/stage				48		CBP DEPTH	7266	
5	MESAVERDE		No Perfs				7069	to	7072
	MESAVERDE		No Perfs				7101	to	7103
	MESAVERDE	7107	7110	3	9		7106	to	7109
	MESAVERDE		No Perfs				7114	to	7115
	MESAVERDE	7172	7174	4	8		7169	to	7173
	MESAVERDE	7230	7236	4	24		7230	to	7232
	MESAVERDE		No Perfs				7234	to	7235
	# of Perfs/stage				41		CBP DEPTH	7,057	
	Totals				209				

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Relevant History:
Periodic Slickline Operations. Last Slickline (5/3/2011) shows fluid level at 6900 and ND depth @~8180

H2S History:

NBU 1022-13O1AS

Date	H2S H2S_SEPARATOR_PPM
11/1/2008	36.00
12/1/2008	71.00
1/1/2009	18.00
2/1/2009	8.00
3/1/2009	0.00
4/1/2009	22.00
5/1/2009	31.00
6/1/2009	6.00
7/1/2009	49.00
8/1/2009	21.00
9/1/2009	18.00
10/1/2009	
11/1/2009	65.00
12/1/2009	32.00
1/1/2010	0.00
2/1/2010	0.00
3/1/2010	0.00
4/1/2010	40.00

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

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

2. TOOH with 2-3/8", 4.7#, J-55 (or N-80) tubing (currently landed at ~8161'). Visually inspect for scale and consider replacing if needed.

3. If tbg looks ok consider running a gauge ring to 6455 (50' below proposed CBP). Otherwise P/U a mill and C/O to 6455 (50' below proposed CBP).

4. Set 8000 psi CBP at ~ 6405'. ND BOPs and NU frac valves. Test frac valves and casing to 1000 and 3500 psi for 15 minutes each and to 6200 psi for 30 minutes. As per standard operating procedure install steel blowdown line to reserve pit from 4-1/2" X 9-5/8" annulus with pressure relief valve in line. Lock **OPEN** the Braden head valve. Annulus will be monitored throughout stimulation. If release occurs, stimulation will be shut down. Well

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conditions will be assessed and actions taken as necessary to secure the well. UDOGM will be notified if a release to the annulus occurs.

5. Perf the following with 3-3/8" gun, 23 gm, 0.36"hole:

Zone	From	To	spf	# of shots
WASATCH	6246	6247	4	4
WASATCH	6330	6332	4	8
WASATCH	6372	6375	4	12

6. Breakdown perfs and establish injection rate (include scale inhibitor in fluid). Spot 250 gals of 15% HCL and let soak 5-10 min. Fracture as outlined in Stage 1 on attached listing. Under-displace to ~6246' and trickle 250gal 15%HCL w/ scale inhibitor in flush .

7. Set 8000 psi CBP at ~6126'. Perf the following 3-3/8" gun, 23 gm, 0.36"hole:

Zone	From	To	spf	# of shots
WASATCH	6032	6034	4	8
WASATCH	6092	6096	4	16

8. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 2 on attached listing. Under-displace to ~6032' and trickle 250gal 15%HCL w/ scale inhibitor in flush.

9. Set 8000 psi CBP at ~5701'. Perf the following 3-3/8" gun, 23 gm, 0.36"hole:

Zone	From	To	spf	# of shots
WASATCH	5556	5560	4	8
WASATCH	5661	5663	4	8
WASATCH	5669	5671	4	8

10. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 3 on attached listing. Under-displace to ~5558' and trickle 250gal 15%HCL w/ scale inhibitor in flush.

11. Set 8000 psi CBP at ~5155'. Perf the following 3-3/8" gun, 23 gm, 0.36"hole:

Zone	From	To	spf	# of shots
WASATCH	5119	5125	4	24

12. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 4 on attached listing. Under-displace to ~5119' and flush only with recycled water.

13. Set 8000 psi CBP at~5069'.

10. TIH with 3 7/8" mill, pump open sub, XN nipple and tubing.

11. Mill 4 plugs and clean out to a depth of 6405'. THE WELL WILL BE COMMINGLED AT THIS TIME.

12. Land tubing at 6200', drop ball and pump open sub. Flow back completion load. RDMO

13. MIRU, POOH tbg and mill. TIH with POBS and mill.

14. Mill last plug @ 6405' clean out to PBTD at 8631'. Land tubing at ±8161' pump off bit and bit sub . This well WILL be commingled at this time.

RECEIVED Sep. 27, 2011

15. Clean out well with foam and/or swabbing unit until steady flow has been established from recomplete.

16. **Leave surface casing valve open**. Monitor and report any flow from surface casing. RDMO

For design questions, please call
Rachael Hill, Denver, CO
(720)-929-6599 (Office)
(303)-907-9167 (Cell)

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

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

Verify that the Braden head valve is locked OPEN.
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 BBLS 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 BBLS 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.

RECEIVED Sep. 27, 2011

2. PUMP 25 BBLS MIXTURE DOWN TUBING AND REST DOWN CASING. SHUT WELL IN FOR 2 HOURS.
3. IF WELL HAS PRESSURE AFTER 2 HOURS – RETEST CASING AND TUBING FOR H2S.
4. FLUSH TUBING AND CASING PUSHING H2S SCAVENGER INTO FORMATION.
5. MONITOR TUBING FOR FLOW AND CASING FOR H2S NOW AS POOH W/ TUBING.

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

Key Contact information

Completion Engineer

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

Production Engineer

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

Completion Supervisor Foreman

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

Completion Manager

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

Vernal Main Office

435-789-3342

Emergency Contact Information—Call 911

Vernal Regional Hospital Emergency: 435-789-3342

Police: (435) 789-5835

Fire: 435-789-4222

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Total Stages	4	stages
Last Stage Flush	3342	gals

Service Company Supplied Chemicals - Job Totals

Friction Reducer	48	gals @	0.5	GPT
Surfactant	97	gals @	1.0	GPT
Clay Stabilizer	97	gals @	1.0	GPT
15% Hcl	1000	gals @	250	gal/stg
Iron Control for acid	5	gals @	5.0	GPT of acid
Surfactant for acid	1	gals @	1.0	GPT of acid
Corrosion Inhibitor for acid	2	gals @	2.0	GPT of acid

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

Scale Inhibitor	316	gals pumped per schedule above		
Biocide	48	gals @	0.5	GPT

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Fracturing Schedules

Name NBU 1022-13O1AS

Slickwater Frac

Copy to new book

Recomplete?	Y
Pad?	n
ACTS?	n

Swabbing Days	2	Enter Number of swabbing days here for recompletes
Production Log	0	Enter 1 if running a Production Log
DFIT	0	Enter Number of DFITs

Stage	Zone	Perfs Top, ft.	Perfs Bot., ft	SPF	Holes	Rate BPM	Fluid Type	Initial ppg	Final ppg	Fluid	Volume gals	Cum Vol gals	Volume BBLs	Cum Vol BBLs	Fluid % of frac	Sand % of frac	Sand lbs	Cum. Sand lbs	Footage from CBP to Flush	Scale Inhib., gal.
1	WASATCH	6246	6247	4	4	Varied	Pump-in test			Slickwater		0	0	0						
	WASATCH	6330	6332	4	8	0	ISIP and 5 min ISIP													40
	WASATCH	6372	6375	4	12	50	Slickwater Pad			Slickwater	3,138	3,138	75	75	15.0%	0.0%	0	0		9
	WASATCH					50	Slickwater Ramp	0.25	1	Slickwater	10,461	13,600	249	324	50.0%	37.3%	6,538	6,538		31
	WASATCH					50	Slickwater Ramp	1	2	Slickwater	7,323	20,923	174	498	35.0%	62.7%	10,984	17,523		0
	WASATCH					50	Flush (4-1/2)			Slickwater	4,077	25,000	97	595				17,523		0
	WASATCH						ISDP and 5 min ISDP			Slickwater										0
	WASATCH																			0
	WASATCH																	17,523		0
	WASATCH											25,000	97	595						40
	WASATCH																			120
	WASATCH																			
	WASATCH																			
	WASATCH									Sand laden Volume		20,923								
			# of Perfs/stage		24									Flush depth	6246	gal/md-ft	172,344 CBP depth	144,338	6,126 lbs sand/md-ft 120	
						11.9	<< Above pump time (min)													
2	WASATCH	6032	6034	4	8	Varied	Pump-in test			Slickwater		0	0	0						
	WASATCH	6092	6096	4	16	0	ISIP and 5 min ISIP													9
	WASATCH					50	Slickwater Pad			Slickwater	3,159	3,159	75	75	15.0%	0.0%	0	0		32
	WASATCH					50	Slickwater Ramp	0.25	1	Slickwater	10,531	13,691	251	326	50.0%	37.3%	6,582	6,582		0
	WASATCH					50	Slickwater Ramp	1	2	Slickwater	7,372	21,062	176	501	35.0%	62.7%	11,058	17,640		0
	WASATCH					50	Flush (4-1/2)			Slickwater	3,938	25,000	94	595				17,640		0
	WASATCH						ISDP and 5 min ISDP			Slickwater										0
	WASATCH																			0
	WASATCH																	17,640		0
	WASATCH											25,000	94	595						37
	WASATCH																			78
	WASATCH																			
	WASATCH																			
	WASATCH									Sand laden Volume		21,062								
			# of Perfs/stage		24									Flush depth	6032	gal/md-ft	20,293 CBP depth	16,996	5,701 lbs sand/md-ft 331	
						11.9	<< Above pump time (min)													
3	WASATCH	5556	5558	4	8	Varied	Pump-in test			Slickwater		0	0	0						
	WASATCH	5661	5663	4	8	0	ISIP and 5 min ISIP													10
	WASATCH	5669	5671	4	8	50	Slickwater Pad			Slickwater	3,206	3,206	76	76	15.0%	0.0%	0	0		32
	WASATCH					50	Slickwater Ramp	0.25	1	Slickwater	10,687	13,892	254	331	50.0%	37.3%	6,679	6,679		0
	WASATCH					50	Slickwater Ramp	1	2	Slickwater	7,481	21,373	178	509	35.0%	62.7%	11,221	17,900		0
	WASATCH					50	Flush (4-1/2)			Slickwater	3,627	25,000	86	595				17,900		0
	WASATCH						ISDP and 5 min ISDP			Slickwater										0
	WASATCH																			0
	WASATCH																	17,900		0
	WASATCH											25,000	86	595						33
	WASATCH																			75
	WASATCH																			
	WASATCH																			
	WASATCH									Sand laden Volume		21,373								
	WASATCH																			
	WASATCH																			
	WASATCH																			
	WASATCH																			
	WASATCH																			
	WASATCH																			
	WASATCH																			
	WASATCH																			
	WASATCH																			
	WASATCH																			
			# of Perfs/stage		24									Flush depth	5556	gal/md-ft	2,137,304 CBP depth	1,789,992	5,155 lbs sand/md-ft 401	
						11.9	<< Above pump time (min)													
4	WASATCH	5119	5125	4	24	Varied	Pump-in test			Slickwater		0	0	0						
	WASATCH					0	ISIP and 5 min ISIP													10
	WASATCH					50	Slickwater Pad			Slickwater	3,249	3,249	77	77	15.0%	0.0%	0	0		32
	WASATCH					50	Slickwater Ramp	0.25	1	Slickwater	10,829	14,078	258	335	50.0%	37.3%	6,768	6,768		0
	WASATCH					50	Slickwater Ramp	1	2	Slickwater	7,580	21,658	180	516	35.0%	62.7%	11,371	18,139		0
	WASATCH					50	Flush (4-1/2)			Slickwater	3,342	25,000	80	595				18,139		0
	WASATCH						ISDP and 5 min ISDP			Slickwater										0
	WASATCH																			0
	WASATCH																	18,139		0
	WASATCH											25,000	80	595						0
	WASATCH																			42
	WASATCH																			
	WASATCH																			
	WASATCH									Sand laden Volume		21,658								
	WASATCH																			
	WASATCH																			
			# of Perfs/stage		24									Flush depth	5119	gal/md-ft	109,774 CBP depth	91,935	5,069 lbs sand/md-ft 50	
						11.9	<< Above pump time (min)													
	Totals				96						**Total Fluid**	100,000 gals		2,381 bbls			**Total Sand**	71,201		
												2,381 bbls								
						0.8								5.3 tanks					Total Scale Inhib. =	316

Name NBU 1022-13O1AS
Perforation and CBP Summary

Stage	Zones	Perforations		SPF	Holes		Fracture Coverage		
		Top, ft	Bottom, ft						
1	WASATCH	6246	6247	4	4		6244.5	to	6249
	WASATCH	6330	6332	4	8		6327.5	to	6336
	WASATCH	6372	6375	4	12		6353.5	to	6377.5
	# of Perfs/stage				24		CBP DEPTH	6,126	
2	WASATCH	6032	6034	4	8		6026	to	6036.5
	WASATCH	6092	6096	4	16		6084	to	6105.5
	# of Perfs/stage				24		CBP DEPTH	5,701	
3	WASATCH	5556	5558	4	8		5556	to	5559.5
	WASATCH	5661	5663	4	8		5657.5	to	5663.5
	WASATCH	5669	5671	4	8		5668	to	5672
	WASATCH								
	WASATCH								
	WASATCH								
	WASATCH								
	WASATCH								
	# of Perfs/stage				24		CBP DEPTH	5,155	
4	WASATCH	5119	5125	4	24		5111.5	to	5127
	WASATCH								
	WASATCH								
	WASATCH								
	WASATCH								
	WASATCH								
	WASATCH								
	WASATCH								
	# of Perfs/stage				24		CBP DEPTH	5,069	
	Totals				96				

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MD	TVD	INC		MD	TVD	INC
0	0	0		4663	4439.75	30.56
100	100	0.5		4725	4493.17	30.44
200	200	0.5		4787	4546.49	30.94
300	299.99	0.5		4849	4599.68	30.88
400	399.99	0.5		4912	4653.87	30.44
500	499.98	0.5		4973	4706.55	30.13
600	599.98	0.75		5035	4759.99	30.81
700	699.97	0.75		5096	4812.36	30.88
800	799.96	0.75		5156	4863.9	30.69
900	899.95	0.75		5219	4918.19	30.31
1000	999.95	0.5		5281	4971.88	29.69
1100	1099.94	0.5		5341	5024.15	29.13
1200	1199.94	0.5		5403	5078.32	29.06
1300	1299.93	0.75		5466	5133.43	28.94
1400	1399.93	0.75		5528	5187.63	29.13
1500	1499.91	1.25		5590	5241.83	29
1600	1599.89	1.25		5653	5297.05	28.56
1700	1699.86	1.25		5716	5352.49	28.13
1800	1799.84	1.25		5780	5408.98	27.94
1900	1899.82	0.75		5844	5465.62	27.56
1960	1959.81	1.5		5908	5522.6	26.63
2200	2199.74	1.44		5972	5579.95	26.06
2262	2261.71	2		6036	5637.7	25
2324	2323.63	3.92		6099	5694.68	25.5
2385	2384.45	4.94		6163	5752.52	25.19
2447	2446.14	6.44		6227	5810.47	25.06
2509	2507.66	7.81		6291	5868.54	24.63
2571	2568.99	9.13		6355	5926.82	24.19
2633	2630.08	10.5		6419	5985.35	23.56
2695	2690.91	11.81		6482	6043.06	23.7
2756	2750.45	13.25		6546	6101.71	23.5
2817	2809.62	14.88		6610	6161.06	20.44
2879	2869.36	16.19		6674	6221.24	19.31
2942	2929.7	17.19		6738	6281.78	18.56
3002	2986.7	19.19		6801	6341.83	16.63
3064	3044.93	20.94		6865	6403.31	15.63
3124	3100.79	21.88		6929	6465.22	13.69
3187	3158.97	23.25		6992	6526.57	12.63
3247	3213.83	24.5		7056	6589.06	12.31
3309	3269.64	27.13		7120	6651.74	10.94
3370	3323.34	29.5		7184	6714.68	10
3431	3376.61	28.81		7248	6777.74	9.63
3493	3430.85	29.13		7312	6840.87	9.25
3554	3483.61	31.13		7375	6903.09	8.81
3615	3536.17	29.88		7439	6966.42	7.81
3678	3590.67	30.31		7503	7029.93	6.31
3741	3645.16	29.94		7567	7093.65	4.5
3803	3698.74	30.5		7631	7157.51	3.13
3865	3752.15	30.56		7694	7220.42	2.94
3927	3805.82	29.5		7758	7284.34	2.94
3987	3858.03	29.56		7854	7380.2	3.25
4048	3911.06	29.69		7949	7475.03	3.5
4108	3962.78	31.19		8043	7568.86	3.5
4171	4016.71	31.06		8107	7632.73	3.67
4233	4069.93	30.69		8171	7696.59	3.88
4293	4121.54	30.63		8234	7759.47	3.44
4354	4173.98	30.81		8298	7823.39	2.13
4417	4228.11	30.75		8362	7887.36	1.31
4478	4280.65	30.31		8457	7982.34	1.19
4540	4334.04	30.81		8553	8078.31	1.44
4601	4386.43	30.81		8634	8159.28	1.58
				8685	8210.36	1.67

Form 3160-4
(March 2012)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0137
Expires: October 31, 2014

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.: ST UO 08512

1a. Type of Well: ☐ Oil Well ☑ Gas Well ☐ Dry ☐ Other
b. Type of Completion: ☐ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☑ Diff. Resvr.,
Other: RECOMPLETION

6. If Indian, Allottee or Tribe Name:

7. Unit or CA Agreement Name and No.: UTU63047A

2. Name of Operator: KERR MCGEE OIL & GAS ONSHORE, L.P.

8. Lease Name and Well No.: NBU 1022-13O1AS

3. Address: PO BOX 173779 DENVER, CO 80217

3a. Phone No. *(include area code)*: 720-929-6000

9. API Well No.: 4304739478

4. Location of Well *(Report location clearly and in accordance with Federal requirements)**

At surface: NESW 1731 FSL 1784 FWL S13, T10S, R22E

At top prod. interval reported below: SWSE 1514 FSL 2406 FEL S13, T10S, R22E

At total depth: SWSE 1319 FSL 1505 FEL S13, T10S, R22E

10. Field and Pool or Exploratory: NATURAL BUTTES

11. Sec., T., R., M., on Block and Survey or Area: S13,T10S,R22E, S

12. County or Parish: UINTAH

13. State: UT

14. Date Spudded: 11/15/2007

15. Date T.D. Reached: 03/31/2008

16. Date Completed: 01/13/2012 ☐ D & A ☑ Ready to Prod.

17. Elevations (DF, RKB, RT, GL)*: 5293

18. Total Depth: MD 8685 TVD 8210

19. Plug Back T.D.: MD 8630 TVD 8155

20. Depth Bridge Plug Set: MD TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
CBL/CCL/GR-COMP2,CD,DN,CAL,HDL

22. Was well cored? ☑ No ☐ Yes (Submit analysis)
Was DST run? ☑ No ☐ Yes (Submit report)
Directional Survey? ☑ No ☑ Yes (Submit copy)

23. Casing and Liner Record *(Report all strings set in well)*

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.375	8181							

25. Producing Intervals / 26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) WASATCH	5119	6375	5119-6375	0.36	96	OPEN
B)						
C)						
D)						

27. Acid, Fracture, Treatment, Cement Squeeze, etc.

Depth Interval	Amount and Type of Material
5119-6375	PUMP 2590 BBLS SLICK H2O & 72,121# 30/50 OTTAWA SAND

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
1/13/12	4/25/12		→	2	737	0			FLOWING

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status
48/64	146	680	→	2	737	0		PRODUCING

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status
			→					

*(See instructions and spaces for additional data on page 2)

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28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status

29. Disposition of Gas *(Solid, used for fuel, vented, etc.)*

30. 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.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top Meas. Depth
				GREEN RIVER	1045
				BIRD'S NEST	1299
				MAHOGANY	1674
				WASATCH	4157
				MESAVERDE	6540

32. Additional remarks (include plugging procedure):

Attached is the recompletion history and perforation report. Casing in the well is as previously reported on the original Completion Report. New recompletion perforations are: Wasatch 5119-6375; existing perforations: Mesaverde 7107-8349. Iso plug was drilled out April 23, 2012 and zones are fully commingled. Test information is production from commingled zones.

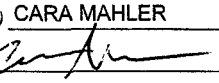
33. Indicate which items have been attached by placing a check in the appropriate boxes:

☐ Electrical/Mechanical Logs (1 full set req'd.) ☐ Geologic Report ☐ DST Report ☐ Directional Survey

☐ Sundry Notice for plugging and cement verification ☐ Core Analysis ☐ Other:

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)*

Name *(please print)* CARA MAHLER Title REGULATORY ANALYST

Signature  Date 5/29/2012

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Continued on page 3)

1 General

1.1 Customer Information

Company	US ROCKIES REGION
Representative	
Address	

1.2 Well/Wellbore Information

Well	NBU 1022-13O-1AS GREEN	**Wellbore No.**	OH
Well Name	NBU 1022-13O-1AS	**Wellbore Name**	NBU 1022-13O-1AS
Report No.	1	**Report Date**	1/4/2012
Project	UTAH-UINTAH	**Site**	WHITE RIVER PAD
Rig Name/No.	MILES 3/3	**Event**	RECOMPL/RESEREVEADD
Start Date	1/3/2012	**End Date**	
Spud Date	11/15/2007	**Active Datum**	RKB @5,310.00usft (above Mean Sea Level)
UWI	NBU 1022-13O-1AS		

1.3 General

Contractor	CASED HOLE SOLUTIONS	**Job Method**	PERFORATE	**Supervisor**	FRANK WINN
Perforated Assembly	PRODUCTION CASING	**Conveyed Method**	WIRELINE		

1.4 Initial Conditions

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

1.5 Summary

Gross Interval	5,119.0 (usft)-6,375.0 (usft	**Start Date/Time**	1/4/2012 12:00AM
No. of Intervals	9	**End Date/Time**	1/4/2012 12:00AM
Total Shots	96	**Net Perforation Interval**	24.00 (usft)
Avg Shot Density	4.00 (shot/ft)	**Final Surface Pressure**	
		Final Press Date	

2 Intervals

2.1 Perforated Interval

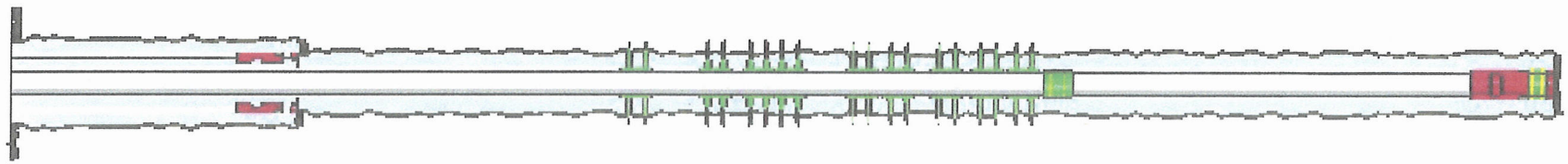
Date	Formation/ Reservoir	CCL@ (usft)	CCL-TS (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diameter (in)	Carr Type /Carr Manuf	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
1/4/2012 12:00AM	WASATCH/			5,119.0	5,125.0	4.00		0.360	EXPENDIBLE/	3.125	90.00		23.00	PRODUCTION	

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (usft)	CCL-TS (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diameter (in)	Carr Type /Carr Manuf	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
1/4/2012 12:00AM	WASATCH/			5,556.0	5,558.0	4.00		0.360	EXPENDIBLE/	3.125	90.00		23.00	PRODUCTION	
1/4/2012 12:00AM	WASATCH/			5,661.0	5,663.0	4.00		0.360	EXPENDIBLE/	3.125	90.00		23.00	PRODUCTION	
1/4/2012 12:00AM	WASATCH/			5,669.0	5,671.0	4.00		0.360	EXPENDIBLE/	3.125	90.00		23.00	PRODUCTION	
1/4/2012 12:00AM	WASATCH/			6,032.0	6,034.0	4.00		0.360	EXPENDIBLE/	3.125	90.00		23.00	PRODUCTION	
1/4/2012 12:00AM	WASATCH/			6,092.0	6,096.0	4.00		0.360	EXPENDIBLE/	3.125	90.00		23.00	PRODUCTION	
1/4/2012 12:00AM	WASATCH/			6,246.0	6,247.0	4.00		0.360	EXPENDIBLE/	3.125	90.00		23.00	PRODUCTION	
1/4/2012 12:00AM	WASATCH/			6,330.0	6,332.0	4.00		0.360	EXPENDIBLE/	3.125	90.00		23.00	PRODUCTION	
1/4/2012 12:00AM	WASATCH/			6,372.0	6,375.0	4.00		0.360	EXPENDIBLE/	3.125	90.00		23.00	PRODUCTION	

3 Plots

3.1 Wellbore Schematic



US ROCKIES REGION

Operation Summary Report

Well: NBU 1022-13O-1AS GREEN		Spud Date: 11/15/2007
Project: UTAH-UINTAH	Site: WHITE RIVER PAD	Rig Name No: MILES 3/3
Event: RECOMPL/RESEREVEADD	Start Date: 1/3/2012	End Date:
Active Datum: RKB @5,310.00usft (above Mean Sea Level)	UWI: NBU 1022-13O-1AS	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
1/3/2012	7:00 - 7:15	0.25	COMP	48		P		JSA- ND/NU. POOH AS SCAN TBG. EWL.
	7:15 - 11:30	4.25	COMP	31	I	P		BWD. ND WH. NU BOP. UNLAND AND LD 4" 10K HANGER. RU B&C. SCAN AND SORT AS POOH W/ 257-JTS 2-3/8" L-80 TBG. (227 YELLOW AND 30 RED). RD B&C.
	11:30 - 13:30	2.00	COMP	34	I	P		RU JW EWL. RIH W/ 3.75" GR/JB TO 6457'. RIH W/ 4-1/2" CIBP AND SET AT 6405'. RD JW EWL.
	13:30 - 17:30	4.00	COMP	33	C	P		RD FLOOR. ND BOP. NU FRAC VALVES. X-OUT CSG VALVES. RDSU. FILL CSG W/ BBLS. PRES TEST TO 2500#. FRAC VALVES LEAKING. DRAIN EQUIP. WILL X-OUT IN AM. THEN PRES TEST ALL 4 RECOMPLETE WELLS.
1/4/2012	8:00 - 9:00	1.00	COMP	33	C	P		CHANGE OUT FRAC VALVES. RU B&C. TEST TO 1097# FOR 15 MIN. END AT 1077#. LOST 20#. TEST TO 3680# FOR 15 MIN. END AT 3655#. LOST 25#. TEST TO 6270# FOR 30 MIN. END AT 6220#. LOST 50#. BLEED OFF AND RD B&C.
1/5/2012	6:45 - 7:00	0.25	COMP	48		P		HSM. HIGH PSI LINE.
	7:00 - 18:00	11.00	COMP	36	B	P		MIRU CASEDHOLE SOLUTION WL & HALLIBURTON FRAC SERV. PERF STG 1)PU 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH PERF AS PER DESIGN. POOH. X-OVER FOR FRAC CREW. FRAC STAGE 1#WHP 125 PSI, BRK 2927 PSI @ 6.4 BPM. ISIP 2300 PSI, FG .80. CALC PERFS OPEN @ 50.3 BPM @ 5130 PSI = 75% HOLES OPEN. ISIP 2340 PSI, FG .80, NPI 40 PSI. MP 5977 PSI, MR 50.1 BPM, AP 4090 PSI, AR 36.6 BPM, PUMPED 30/50 OWATTA SAND. PERF STAGE 2# 3 1/8 EXP GUN 23 GM, .36 HOLE, 90 DEG PHASING PERF AS DESIGN FRAC STAGE 2#WHP 1275 PSI, BRK 2145 PSI @ 6.5 BPM. ISIP 1575 PSI, FG .69. CALC PERFS OPEN @ 50.7BPM @ 3500 PSI = 100% HOLES OPEN. ISIP 1920 PSI, FG .75, NPI 345 PSI. MP 4072 PSI, MR 50.8 BPM, AP 3257 PSI, AR 50.6 BPM, PUMPED 30/50 OWATTA SAND.
1/6/2012	6:45 - 7:00	0.25	COMP	48		P		HSM. HIGH PSI LINES

US ROCKIES REGION

Operation Summary Report

Well: NBU 1022-13O-1AS GREEN		Spud Date: 11/15/2007	
Project: UTAH-UINTAH	Site: WHITE RIVER PAD		Rig Name No: MILES 3/3
Event: RECOMPL/RESEREVEADD	Start Date: 1/3/2012		End Date:
Active Datum: RKB @5,310.00usft (above Mean Sea Level)	UWI: NBU 1022-13O-1AS		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	7:00 - 18:00	11.00	COMP	36	B	P		0FRAC STG 3)WHP 540 PSI, BRK 1745 PSI @ 6.1 BPM. ISIP 1380 PSI, FG .67. CALC PERFS OPEN @ 00.0 BPM @ 0000 PSI = 88% HOLES OPEN. ISIP 1610 PSI, FG .72, NPI 230 PSI. MP 3733 PSI, MR 51.8 BPM, AP 2899 PSI, AR 48.3 BPM, PUMPED 30/50 OWATTA SAND. PERF STG 4)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 5155' P/U PERF AS PER DESIGN. FRAC STAGE 4#WHP 725 PSI, BRK 2105 PSI @ 3.7 BPM. ISIP 1560 PSI, FG .73. CALC PERFS OPEN @ 00.0 BPM @ 0000 PSI = 00% HOLES OPEN. ISIP 1910 PSI, FG .72, NPI 350 PSI. MP 4271 PSI, MR 51.9 BPM, AP 3504 PSI, AR 51.8 BPM, PUMPED 30/50 OWATTA SAND. RIH SET CBP @ 5069 TOTAL SAND = 72,121# TOTAL CLEAN = 2590 BBLS
1/12/2012	7:00 - 7:15	0.25	COMP	48		P		SAFETY = JSA

US ROCKIES REGION

Operation Summary Report

Well: NBU 1022-13O-1AS GREEN		Spud Date: 11/15/2007	
Project: UTAH-UINTAH	Site: WHITE RIVER PAD		Rig Name No: MILES 3/3
Event: RECOMPL/RESEREVEADD	Start Date: 1/3/2012		End Date:
Active Datum: RKB @5,310.00usft (above Mean Sea Level)	UWI: NBU 1022-13O-1AS		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	7:15 - 19:30	12.25	COMP	30		P		SICP=0#. MIRU. NDWH. NUBOP. P/U & RIH W/ 3-7/8" MILL + PUMP OPEN BIT SUB + XN + 160 JTS 2-3/8" J-55 4.7# TBNG. T/U ON KILL CBP @ 5069'. TEST BOP'S GOOD @ 3000#. BREAK CIRCULATION & BEGIN D/O AS FOLLOWS: CBP #1) DRLG OUT BAKER 8K CBP @ 5069' IN 7 MIN. 100 LBS DIFF. PSI. RIH, TAG SND @ 5140'. C/O 15' OF SND. FCP = 50 PSI. CBP #2) DRLG OUT BAKER 8K CBP @ 5155" IN 9 MIN. 100 LBS DIFF. PSI. RIH, TAG SND @ 5680 '. C/O 21' OF SND. FCP = 100 PSI. CBP #3) DRLG OUT BAKER 8K CBP @ 5701' IN 10 MIN. 200 LBS DIFF. PSI. RIH, TAG SND @ 6115'. C/O 11' OF SND. FCP = 100 PSI. CBP #4) DRLG OUT BAKER 8K CBP @ 6126' IN 10 MIN. 200 LBS DIFF. PSI. RIH, TAG SND @ 6290'. C/O 21' OF SND. FCP = 100 PSI. WASH DOWN TO ISOLATION CBP @6405' W/ BHA + 202 JTS. 2-3/8" J-55 TBNG. R/U N2 FOAM UNIT TO HELP UNLOAD THE WELL. CIRC BOTTOMS UP X2. L/D 7 JTS. LAND WELL ON HANGER W/ 195 JTS 2-3/8" J-55 Y-BND + XN + PUMP OPEN SUB + MILL. EOT@ 6199.32'. NDBOP. NUWH. CHANGE OUT TBNG MASTER VALVE. DROP BALL & PUMP OPEN BIT SUB @ 900#. MIRU B&C + TEST SURFACE EQUIP TO THE HAL SEPERATOR @ 2500#. PRESSURE TEST GOOD. TURN WELL OVER TO FLOWBACK CREW. SDFN. HELP FLOWBACK CREW. NOTE: WELL FLOWING W/ SICP @1150# FTP@ 75# AND CLIMBING W/ MOSTLY FLUID. WATER RECOV =350 BBLS. TWLTR = +/- 2240 BBLS KB = 17 195 JTS 2-3/8" J-55 TBNG. = 6178.41' XN = 1.33' PUMP OPEN SUB = 1.44' 3-7/8" MILL = .31' EOT@ 6199.32'
1/13/2012	10:00 -		PROD	50				WELL TURNED TO SALES @ 1000 HR ON 1/13/12 - 2 MCFD, 480 BWPD, FCP 1350#, FTP 250#, 20/64 CK
1/18/2012	7:00 -		PROD	50				WELL IP'D ON 1/18/12 - 1982 MCFD, 0 BOPD, 25 BWPD, CP 960 #, FTP 232#, CK 48/64", LP 154#, 24 HRS
4/25/2012	7:00 -			50				WELL IP'D ON 4/25/12 - 737 MCFD, 2 BOPD, 0 BWPD, CP 680#, FTP 146#, CK 48/64", LP 119#, 24 HRS

US ROCKIES REGION

Operation Summary Report

Well: NBU 1022-13O-1AS GREEN		Spud Date: 11/15/2007
Project: UTAH-UINTAH	Site: WHITE RIVER PAD	Rig Name No: ROCKY MOUNTAIN WELL SERVICE 3/3
Event: WELL WORK EXPENSE	Start Date: 4/12/2012	End Date: 4/13/2012
Active Datum: RKB @5,310.00usft (above Mean Sea Level)	UWI: NBU 1022-13O-1AS	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
4/12/2012	7:00 - 7:15	0.25	COMP	48		P		HSM- JSA
	7:15 - 15:00	7.75	COMP	31	I	P		RDMO NBU 1022-13J4S, MIRU, PUMP 50 BBLS TMAC TO CONTROL WELL, NDWH, NUBOP, POOH W/ TBG, L/D PUMP OPEN BIT SUB, PUMP 40 BBLS TMAC TO CONTROL WELL, P/U 3 7/8" BIT POBS & XN SN, RIH W/ 201 JTS 2 3/8" J-55 TBG, TAG FILL @ 6371', R/U PWR SWVL, SWIFN, D/O IN AM.
4/13/2012	7:00 - 7:15	0.25	COMP	48		P		HSM - JSA
	7:15 - 16:00	8.75	COMP	44	C			SICP 750 PSI, OPEN WELL, RU WEATHERFORD FOAM UNIT, BREAK CIRC. C/O 35' SAND TAG CIBP @ 6,406', DRL PLUG IN 90 MIN, CONT TO RIH W/ 2 3/8" TBG, TAG FILL @ 8,310', C/O 38' SAND TO 8,348' TAG OLD POBS, DRL FOR 60 MIN PUSH DOWN TO 8,362', BOTTOM PERF @ 8,349', R/D FOAM UNIT, POOH L/D 6 JTS ON FLOAT, LAND TBG W/ 258 JTS @ 8,181.28', R/D PWR SWVL, FLOOR, & TBG EQUIP, NDBOP, NUWH, DROP BALL & PUMP OFF BIT SUB @ 1500 PSI. LET BIT FALL FOR 20 MIN, TURN OVER TO PROD, CSG 950 PSI, TBG 0 PSI. SHUT IN TO BUILD PRESS, SDFWE. KB - 17' 4 1/16" HANGER - .83' 258 JTS J-55 2 3/8" TBG - 8,161.25' POBS - 2.20' EOT @ 8,181.28' TWTR= 280 BBLS TWR= 297 BBLS TWLTR= 0 BBLS

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

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

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

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

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 1022-13O1AS

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

9. API NUMBER: 43047394780000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779 **PHONE NUMBER:** 720 929-6100

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1731 FSL 1784 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		
✓ NOTICE OF INTENT Approximate date work will start: 7/29/2014	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ DRILLING REPORT Report Date:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	✓ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

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

The operator requests to perform a Water Shut Off procedure on the referenced well. Please see the attached Procedure. Thank you.

Approved by the Utah Division of Oil, Gas and Mining
July 31, 2014
Date:
By: Dark K Quist

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Matthew P Wold	720 929-6993	Regulatory Analyst I
SIGNATURE N/A		**DATE** 7/29/2014

RECEIVED: Jul. 29, 2014

NBU 1022-13O1AS

Water Shut Off

White River Pad
Sec. 13 10S 22E
Uintah County, UT

DATE: 7/23/2014
WO#:

CONTACT INFORMATION:

FOREMAN	Ryan Kunkel	435-828-4624
MECHANICAL LEAD	Troy Reynolds	435-828-0011
OPERATOR	Nate Adamson	435-828-0354
OPERATOR	Jeremy Gudac	435-828-8116
ENGINEER	Boone Bajgier	713-416-4816

RECEIVED: Jul. 29, 2014

Anadarko Petroleum Corporation

ELEVATIONS:

5,293' **GL** 5,310' **KB**

TOTAL DEPTH: 8,685'

PBTD: 8,469'

SURFACE CASING: 9 5/8", 36#, J-55 8RD @ 2,147'

PRODUCTION CASING: 4 1/2", 11.6#, I-80 LT&C @ 8,649'

TUBULAR PROPERTIES:

		BURST (psi)	COLLAPSE (psi)	DRIFT DIA (in)	CAPACITIES	
					(bbl/ft)	(gal/ft)
Tubing	2 3/8" 4.7# J-55	7,700	8,100	1.901"	0.00387	0.1624
Casing	4 1/2" 11.6# I-80	7,780	6,350	3.875"	0.0155	0.6528
Annulus	2 3/8" by 4 1/2"	-	-	-	0.0101	0.4225

FORMATION TOPS

Formation	MD Top	MD Base
GREEN RIVER	1,045	
BIRDS NEST	1,299	
MAHOGANY MARKER	1,674	
WASATCH	4,157	6,540
MESA VERDE	6,540	8,685

RECEIVED: Jul. 29, 2014

Anadarko Petroleum Corporation

PERFORATIONS

Date	Formation	Zone	Top	Btm	SPF	No. Holes	Diameter	Phasing	Reason	Status
01/04/2012	WASATCH		5119	5125	4	24	0.36	90	PRODUCTION	OPEN
01/04/2012	WASATCH		5556	5558	4	8	0.36	90	PRODUCTION	OPEN
01/04/2012	WASATCH		5661	5663	4	8	0.36	90	PRODUCTION	OPEN
01/04/2012	WASATCH		5669	5671	4	8	0.36	90	PRODUCTION	OPEN
01/04/2012	WASATCH		6032	6034	4	8	0.36	90	PRODUCTION	OPEN
01/04/2012	WASATCH		6092	6096	4	16	0.36	90	PRODUCTION	OPEN
01/04/2012	WASATCH		6246	6247	4	4	0.36	90	PRODUCTION	OPEN
01/04/2012	WASATCH		6330	6332	4	8	0.36	90	PRODUCTION	OPEN
01/04/2012	WASATCH		6372	6375	4	12	0.36	90	PRODUCTION	OPEN
	MESA VERDE		7107	7110	3	9	0.36	120	PRODUCTION	OPEN
	MESA VERDE		7172	7174	4	8	0.36	90	PRODUCTION	OPEN
	MESA VERDE		7230	7236	4	24	0.36	90	PRODUCTION	OPEN
	MESA VERDE		7346	7348	4	8	0.36	90	PRODUCTION	OPEN
	MESA VERDE		7419	7422	4	12	0.36	90	PRODUCTION	OPEN
	MESA VERDE		7520	7527	4	28	0.36	90	PRODUCTION	OPEN
	MESA VERDE		7618	7622	4	16	0.36	90	PRODUCTION	OPEN
	MESA VERDE		7634	7638	4	16	0.36	90	PRODUCTION	OPEN
	MESA VERDE		7644	7646	4	8	0.36	90	PRODUCTION	OPEN
	MESA VERDE		7855	7857	3	6	0.36	120	PRODUCTION	OPEN
	MESA VERDE		7945	7947	3	6	0.36	120	PRODUCTION	OPEN
	MESA VERDE		8016	8023	4	28	0.36	90	PRODUCTION	OPEN
	MESA VERDE		8216	8222	4	24	0.36	90	PRODUCTION	OPEN
	MESA VERDE		8345	8349	4	16	0.36	90	PRODUCTION	OPEN

WELL HISTORY

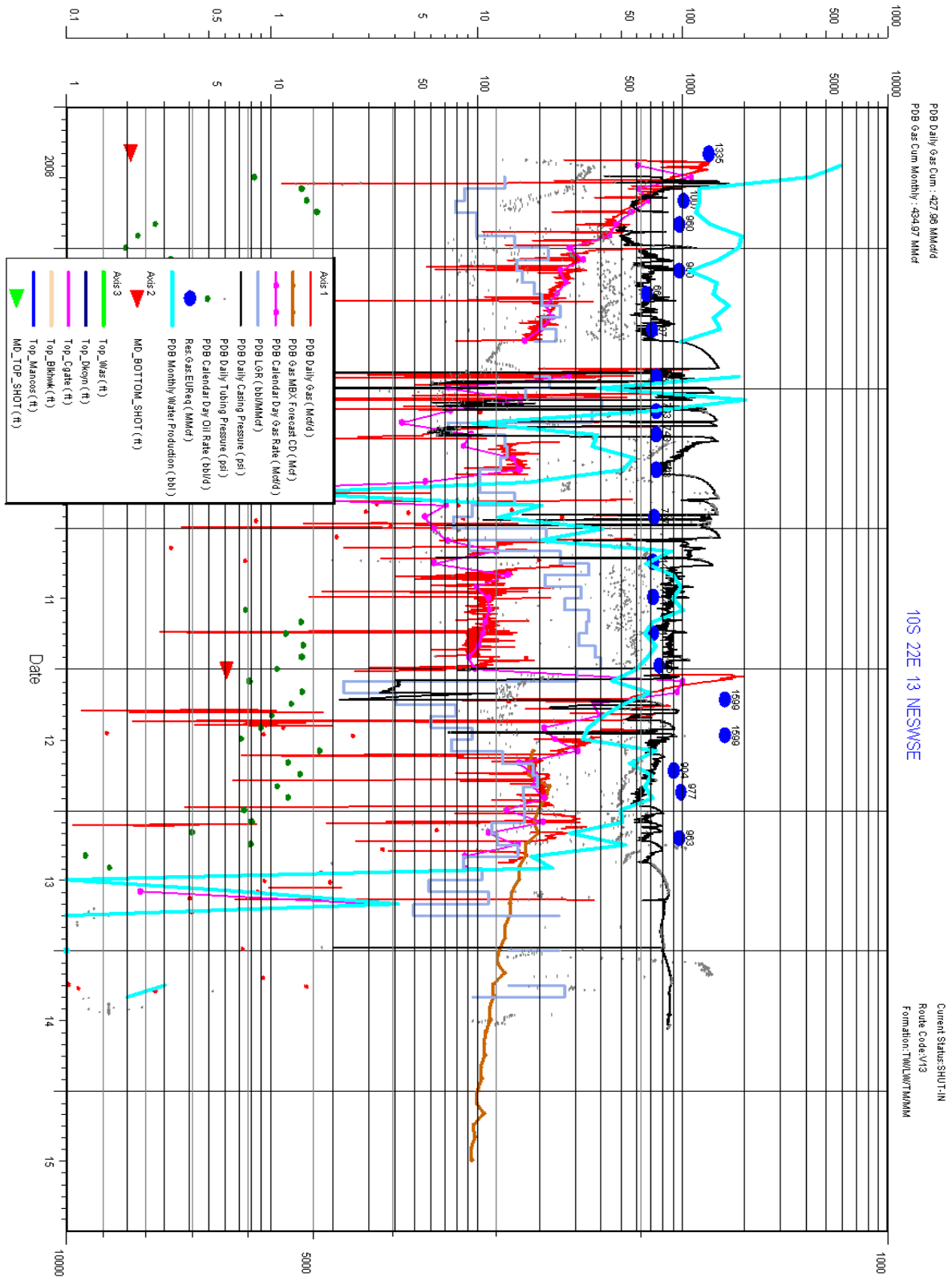
- Completion – on sales 5/17/2008
- Recompletion – perforated and fractured upper zones in January 2012
- Production – ~150 MCFD loss

SYMPTOMS

- After the recompletion isolation plug was drilled out, the production dropped off significantly within the following year.
- During that time, LGR climbed toward its original LGR pre recompletion.
- Pre Recompletion LGR: ~120 BBL/MMCF
- Post Recompletion well could not produce and has not been able to produce consistently for over 15 months. (No discernable consistent LGR due to no production)
- Well has unsuccessfully tried running on continuous foamer, tubing raises, swabbing, and tubing stops.

RECEIVED: Jul. 29, 2014

Anadarko Petroleum Corporation



RECEIVED: Jul. 29, 2014

Anadarko Petroleum Corporation

PROCEDURE:

- MIRU, blow well down, and control casing/tubing pressures with water.
- NDWH & NUBOP.
- Unland tubing. **Current EOT ~8,181'**.
- RIH & tag for fill (**Bottom open perf @ 8,349'**). If tubing tags above 8,100', call engineer to discuss.
- POOH and scan tubing, once first joint fails (+30% wall loss), break every connection and visually inspect for pins and upsets from corrosion. LD all scaled/damaged joints.
    - **NOTE TO FOREMAN: Tubing was perfed 7211-7217'.**
- RU slickline and RIH CIBP to 8,050'. Set plug at depth to shut off perforations at bottom of well (highlighted on perforation detail in red). RD slickline.
- Confirm BHA contains a seat nipple. TIH and land **EOT @ ~7,300' (~900' above old EOT)**. Broach entire tubing string with 1.910" broach to surface in one run after landing EOT.
- NDBOP and NUWH.
- Notify CDC, foreman, & operators of RDMO.

RECEIVED: Jul. 29, 2014

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 1022-13O1AS

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

9. API NUMBER:
43047394780000

3. ADDRESS OF OPERATOR:
P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER:
720 929-6100

9. FIELD and POOL or WILDCAT:
NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE:
1731 FSL 1784 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		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☑ SUBSEQUENT REPORT Date of Work Completion: 8/19/2044	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ DRILLING REPORT Report Date:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

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

THE NBU 1022-13O1AS WELL WAS SI AND RETURNED TO PRODUCTION ON 8/19/2014. THANK YOU.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
August 21, 2014

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Kay E. Kelly	720 929 6582	Regulatory Analyst
SIGNATURE		**DATE**
N/A		8/21/2014

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 1022-13O1AS

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

9. API NUMBER: 43047394780000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779 **PHONE NUMBER:** 720 929-6100

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1731 FSL 1784 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		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☑ SUBSEQUENT REPORT Date of Work Completion: 9/29/2014	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ DRILLING REPORT Report Date:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☑ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

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

The water shut-off on the NBU 1022-13O1AS has been completed, please see the attached operations summary report.

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY
October 16, 2014

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Doreen Green	435 781-9758	Regulatory Analyst II
SIGNATURE N/A		**DATE** 10/10/2014

RECEIVED: Oct. 10, 2014

US ROCKIES REGION

Operation Summary Report

Well: NBU 1022-13O-1AS GREEN		Spud Date: 11/15/2007
Project: UTAH-UINTAH	Site: WHITE RIVER PAD	Rig Name No: ROCKY MOUNTAIN WELL SERVICE 3/3
Event: WELL WORK EXPENSE	Start Date: 9/15/2014	End Date: 9/16/2014
Active Datum: RKB @5,310.00usft (above Mean Sea Level)	UWI: NBU 1022-13O-1AS	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
9/15/2014	7:00 - 7:15	0.25	MAINT	48		P		HSM, JSA
	7:15 - 9:30	2.25	MAINT	30	G	P		ROAD RIG TO NBU 1022-1301AS
	9:30 - 12:00	2.50	MAINT	30	A	P		MIRU, 825# SICP, CONTROL WELL W/ 40 BBLS T-MAC, ND WH, NU BOP'S, RU FLOOR & TBG EQUIP
	12:00 - 17:30	5.50	MAINT	31	I	P		MIRU SCAN TECH, TOOH & SCAN 2-3/8" TBG, TBG SCAN SHOWED 222 YELLOW JTS, 2 BLUE JTS & 37 RED JTS, TBG HAD LIGHT EXTERNAL SCALE FROM JNT 34-258, JNT 201 WAS COLLAPSED IN 2 PLACES, JNT 202 HAD A BUMPERSPRING & JNT 203 HAD FOLDED OVER COLLAR, JNT 228 HAD PERF HOLES, JTS 240, 241, 242 & 243 HAD SEVERAL HOLES, RD SCAN TECH, SHUT & LOCK RAMS, SDFN
9/16/2014	7:00 - 7:15	0.25	MAINT	48		P		JSA-SAFETY MEETING
	7:15 - 11:30	4.25	MAINT	34	I	P		R/U CUTTER WIRELINE RIH W/ GAUGE RING TO 8180', RIH W/ 8K CIBP SET CIBP @ 8066', RIH W/ CEMENT DUMP BAILER, DUMP 2 SACK CEMENT ONTOP OF CIBP, R/D WIRELINE,
	11:30 - 16:00	4.50	MAINT	31	I	P		P/U 2 3/8" XN-NIPPLE, RIH 2 3/8" TBG W/ TALLY AND BROACH TBG IN, LAND TBG W/ 230 JTS 2 3/8" TBG, EOT @ 7287.27' BROACH TBG, N/D BOPS, N/U WH, SHUT WELL IN, R/D UNIT, TURN WELL OVER TO PRODUCTION, KB = 17.00' HANGER = .83' 230 JT 2 3/8" TBG = 7268.39' XN-NIPPLE 1.875" = 1.05' EOT = 7287.27'
9/29/2014	7:00 - 10:30	3.50	PROD	42		P		SWABBING

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

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

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

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

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 1022-13O1AS

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

9. API NUMBER: 43047394780000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779 **PHONE NUMBER:** 720 929-6100

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1731 FSL 1784 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		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☑ SUBSEQUENT REPORT Date of Work Completion: 5/19/2015	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ DRILLING REPORT Report Date:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☑ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

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

THe NBU 1022-13O1AS well was returned to production on 5/19/2015.
Thank you.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
June 02, 2015

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Jennifer Thomas	720 929-6808	Regulatory Specialist
SIGNATURE		**DATE**
N/A		5/26/2015

RECEIVED: May. 26, 2015

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 1022-13O1AS

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

9. API NUMBER: 43047394780000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779 **PHONE NUMBER:** 720 929-6434

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1731 FSL 1784 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		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☑ SUBSEQUENT REPORT Date of Work Completion: 9/16/2016	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ DRILLING REPORT Report Date:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☑ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

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

The NBU 1022-13O1AS well was returned to production on 9/16/2016.
Thank you.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
September 22, 2016

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Candice Barber	435 781-9749	HSE Representative
SIGNATURE		**DATE**
N/A		9/20/2016

RECEIVED: Sep. 20, 2016

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

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

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

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 1022-13O1AS

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

9. API NUMBER: 43047394780000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779 **PHONE NUMBER:** 720 929-6434

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1731 FSL 1784 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		
✓ NOTICE OF INTENT Approximate date work will start: 9/13/2016	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ DRILLING REPORT Report Date:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
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	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

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

Kerr-McGee Oil & Gas Onshore, LP respectfully requests to plug and abandon the NBU 1022-13O1AS (on a pad) well. Please see the attached procedure for details. Thank you.

Approved by the Utah Division of Oil, Gas and Mining

Date: October 05, 2016

By: Dark K Quist

Please Review Attached Conditions of Approval

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Candice Barber	435 781-9749	HSE Representative
SIGNATURE N/A		**DATE** 9/13/2016

RECEIVED: Sep. 13, 2016

The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Sundry Conditions of Approval Well Number 43047394780000

1. Notify the Division at least 24 hours prior to conducting abandonment operations. Please call Dan Jarvis at 801-538-5338.

2. Amend Plug #1: A minimum of 8 sx shall be spotted on the CIBP @ 6579'.

3. All balanced plugs shall be tagged to ensure that they are at the depth specified.

4. All annuli shall be cemented from a minimum depth of 100' to the surface.

5. Surface reclamation shall be done in accordance with R649-3-34 – Well Site Restoration.

6. All requirements in the Oil and Gas Conservation General Rule R649-3-24 shall apply.

7. If there are any changes to the procedure or the wellbore configuration, notify Dustin Doucet at 801-538-5281 (ofc) or 801-733-0983 (home) prior to continuing with the procedure.

8. All other requirements for notice and reporting in the Oil and Gas Conservation General Rules shall apply.

RECEIVED: Oct. 05, 2016

10/5/2016

Wellbore Diagram

r263

API Well No: 43-047-39478-00-00 **Permit No:** **Well Name/No:** NBU 1022-13O1AS

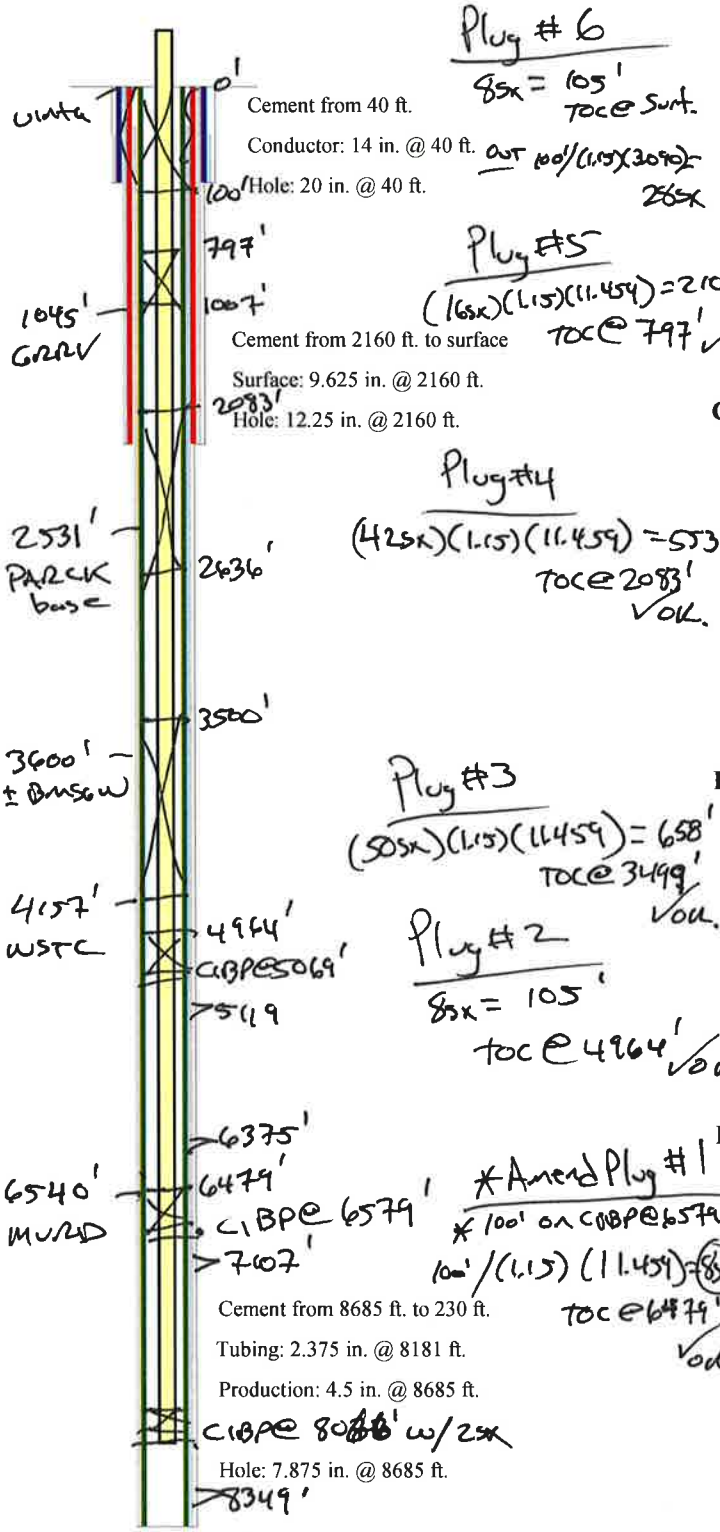
Company Name: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Location: Sec: 13 T: 10S R: 22E Spot: NESW

Coordinates: X: 637424 Y: 4423046

Field Name: NATURAL BUTTES

County Name: UINTAH



TD: 8685 **TVD:** 8210 **PBTD:** 8630

String Information

String	Bottom (ft sub)	Diameter (inches)	Weight (lb/ft)	Length (ft)
HOL1	40	20		
COND	40	14	36.7	40
HOL2	2160	12.25		
SURF	2160	9.625	36	2160
HOL3	8685	7.875		
PROD	8685	4.5	11.6	8685
CIBP	8066	4.1		
T1	8181	2.375		

Capacity (f/cf)

Hole 459

9 5/8" x 4 1/2" → 3,090

Cement Information

String	BOC (ft sub)	TOC (ft sub)	Class	Sacks	
COND	40		UK	28	
PROD	8685	230	HS	368	
PROD	8685	230 CBL	50	1060	336bbls circ to surf.
SURF	2160	0	HG	200	
SURF	2160	0	G	450	

Perforation Information

Top (ft sub)	Bottom (ft sub)	Shts/Ft	No Shts	Dt Squeeze
7107	8349			
5119	6375			

Formation Information

Formation	Depth
UNTA	0
GRRV	1045
PARCK	2531
BMSW	3600
WSTC	4157
MVRD	6540

NBU 1022-1301AS
1731' FSL & 1784' FWL
NESW SEC. 13, T10S, R22E
UINTAH UT

KBE:	5310'	**API NUMBER:**	4304739478
GLE:	5293'	**LEASE NUMBER:**	STUO-08512-ST
TD:	8685'	**LAT/LONG:**	39.946403/-109.391233
PBTD:	8630'		

CASING : 12.25" hole
SURFACE 9.625" 36# J-55 @ 2147'

7.875" hole
PRODUCTION 4.5" 11.6# I-80 @ 8632'
Est. TOC @ 230' CBL

PERFORATIONS: WASATCH-MESAVERDE TOP-BOTTOM 5119'-6375'

TUBING: 2.375" 4.7# L-80 tbg at 7270'

Tubular/Borehole	ID inches	Drift inches	Collapse psi	Burst psi	Capacities		
					Gal./ft.	Cuft/ft.	Bbl./ft.
2.375" 4.7# J-55 tbg	1.995	1.901	8100	7700	0.1624	0.02171	0.00387
2.375" 4.7# P-110 tbg	1.995	1.901	13800	15400	0.1624	0.02171	0.00387
2.375" 4.7# L-80 tbg	1.995	1.901	11780	11200	0.1624	0.02171	0.00387
4.5" 11.6# I-80 csg	4	3.875	6350	7780	0.65282	0.08727	0.01554
9.625" 36# J-55 csg	8.921	8.765	2020	3520	3.24699	0.43406	0.07731

Annular Capacities	Gal./ft.	Cuft/ft.	Bbl./ft.
2.375" tbg. X 4.5" csg	0.42272	0.05651	0.01006
4.5" csg. X 9.625" csg	2.42077	0.32361	0.05764
4.5" csg X 7.875 borehole	1.70406	0.2278	0.04057

GEOLOGIC INFORMATION:

Formation	**Depth to top, ft.**
Uinta	Surface
Top Green River	902'
Top Mahogany	1730'
Base Parachute	2531'
Top Wasatch	4157'
Top Mesaverde	6579'

http://digitallibrary.utah.gov/awweb/awarchive?type=file&item=55737
BMSW Elevation ~1710' MSL
BMSW Depth ~3600'

CCH 9/13/2016

RECEIVED: Sep. 13, 2016

NBU 1022-1301AS PLUG & ABANDONMENT PROCEDURE

GENERAL

- H2S MAY BE PRESENT. CHECK FOR H2S AND TAKE APPROPRIATE PRECAUTIONS.
- BLOW DOWN BRADEN HEAD AND SURFACE CASING AS NEEDED AS PER SOP.
- CEMENT QUANTITIES BELOW ASSUME NEAT CLASS G, 15.8ppg, YIELD 1.145 CUFT/SX. IF A DIFFERENT PRODUCT IS USED, WELLSITE PERSONNEL ARE RESONSIBLE FOR CORRECTING QUANTITIES TO YIELD THE STATED SLURRY VOLUME.
- TREATED FRESH WATER WILL BE PLACED BETWEEN ALL PLUGS INSTEAD OF BRINE.
- ALL DISPLACEMENT FLUID SHALL CONTAIN CORROSION INHIBITOR AND BIOCIDE. PREMIX 5 GALLONS PER 100 BBLS FLUID AND IS TO BE PLACED BETWEEN ALL PLUGS.
- NOTIFY APPROPRIATE AGENCY 48 HOURS BEFORE MOVING ON LOCATION.

PERTINENT WELL HISTORY:s.n. @ 7278" (cibp set @ 8066')

PROCEDURE

Note: Approx. **190 SXS** Class "G" cement needed for procedure & **(2) 4.5" CIBP**

Note: YES GYRO ON RECORD. (IF GYRO NEEDED, A GPS READING WILL NEED TO BE TAKEN AT THE WELL SITE AND RECORDED IN OPENWELLS. PLEASE TAKE IT TO THE 6TH DECIMAL PLACE).

1. MIRU. KILL WELL AS NEEDED. ND WH, NU AND TEST BOPE.

2. POOH W/ TBG & L/D SAME. RU WIRELINE AND MAKE A GAUGE RING RUN TO CHECK FOR FILL PER FOREMAN DISCRETION.

3. ISOLATE MESAVERDE PERFORATIONS (> 6579'): RIH ON WIRELINE W/ 4.5" CIBP. SET @ ~6579'. RELEASE CIBP.

4. ISOLATE PERFORATIONS (6375'-5119'): RIH ON WIRELINE OR TUBING W/ 4.5" CIBP. SET @ ~5069', (50' above top perf at 5119'). RELEASE CIBP, PUH 10', CIRC ENTIRE HOLE W/ TREATED FRESH WATER AND PRESSURE TEST CASING. SET A 105FT BALANCED CMT PLUG F/ 5069' to 4964'(8 SXS, 9.16 FT3, 1.64 BBLS).

5. PROTECT WASATCH TOP (4157') & BMSW (3600') & PUH WITH TUBING AND PUMP A MINIMUM OF (656 FT) CMT F/ 4157' to 3501' (50 SXS, 57.25 FT3, 10.19 BBLS).

6. PROTECT PARACHUTE BASE (2531') & CASING SHOE (2147'): PUH WITH TUBING AND PUMP A MINIMUM OF (551FT) CMT F/ 2636' to 2084' (42 SXS, 48.09.32 FT3, 8.56 BBLS).

7. PROTECT GREEN RIVER (902'): PUH WITH TUBING AND PUMP A MINIMUM OF (210FT) CMT F/ 1007' to 797' (16 SXS, 18.32 FT3, 3.27 BBLS).

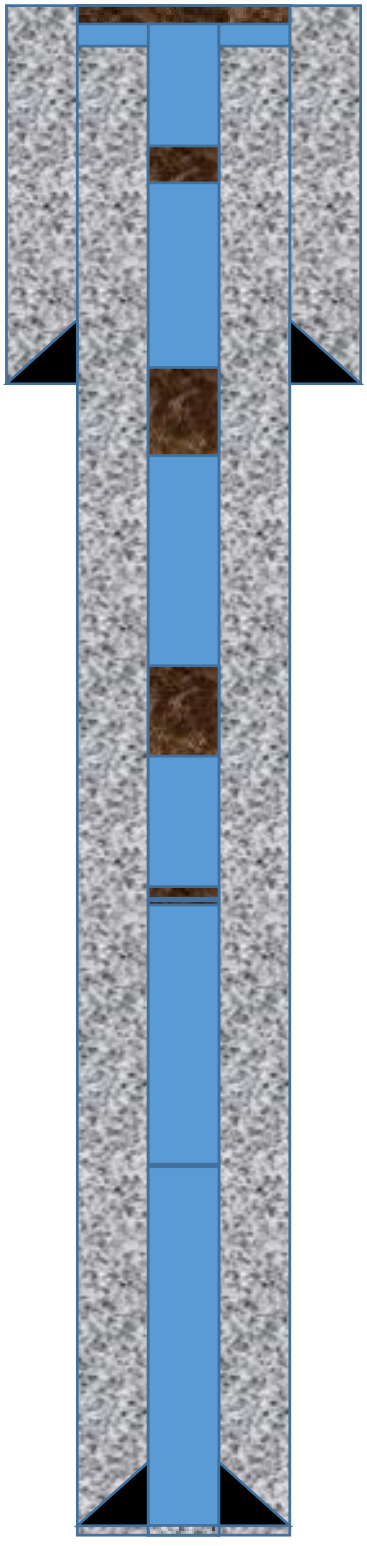
8. PROTECT SURFACE (101'): PUH WITH TUBING AND PUMP A MINIMUM OF (105 FT) CMT F/ 105'-0' (8 SXS, 9.16 FT3, 1.64 BBLS). POOH AND RUN 1 INCH TUBING DOWN THE PRODUCTION/SURFACE CASING ANNULUS TO AS DEEP AS POSSIBLE AND CEMENT TO SURFACE(66 SXS, 75.57 FT3, 13.46 BBLS).

9. CUT OFF WELLHEAD AND INSTALL MARKER PER REGULATIONS.

10. RDMO. TURN OVER TO OPERATIONS FOR SURFACE REHAB. SURFACE RECLAMATION TO BE PERFORMED IN ACCORDANCE TO REGULATIONS.

RECEIVED: Sep. 13, 2016

NBU 1022-13O1AS



Total SXS: 190, Total CIBP: 2

<- Plug for Surface at 0' from 0' to 105' with 74SXS,105ft.

<- TOC at 230'

<- Plug for GreenRiver at 902' from 1007' to 797' with

<- Mahogany at 1730'

<- Plug for Parachute Base at 2531' & Surface Shoe at 2147' from 2636' to 2084' with 42SXS,551ft.

<- Plug for Wasatch (4157') & BMSW (3600') from 4157' to 3501' with 50SXS,656ft.

<- Plug above CIBP at 5069' from 5069' to 4964' with 8SXS,105ft.
<-CIBP Above Perfs at 5069'
<-Top Perf at 5119'

<-CIBP for Mesaverde at 6579'

<-PBTD at 8630'
<- Production Casing Shoe at 8632'

<-TD at 8685'

RECEIVED: Sep. 13, 2016

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

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

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

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 1022-13O1AS

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

9. API NUMBER: 43047394780000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779 **PHONE NUMBER:** 720 929-6404

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1731 FSL 1784 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		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☑ SUBSEQUENT REPORT Date of Work Completion: 11/4/2016	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ DRILLING REPORT Report Date:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☑ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

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

Kerr-McGee Oil & Gas Onshore, LP has plugged and abandoned the NBU 1022-13O1AS well on 11/04/2016. Please see the operations summary report for details. Thank you.

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY
November 28, 2016

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Candice Barber	435 781-9749	HSE Representative
SIGNATURE N/A		**DATE** 11/9/2016

RECEIVED: Nov. 09, 2016

US ROCKIES REGION

Operation Summary Report

Well: NBU 1022-13O-1AS GREEN		Spud date: 11/15/2007	
Project: UTAH-UINTAH	Site: WHITE RIVER PAD		Rig name no.: MILES 4/4
Event: ABANDONMENT	Start date: 11/3/2016		End date: 11/4/2016
Active datum: RKB @5,310.00usft (above Mean Sea Level)	UWI: NBU 1022-13O-1AS		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD from (usft)	Operation
11/3/2016	7:00 - 7:30	0.50	ABANDP	48		P		HSM, WORKING STUCK TBG.
	7:30 - 8:00	0.50	ABANDP	30	A	P		RIGGED UP
	8:00 - 9:30	1.50	ABANDP	30	F	P		FCP & FTP PSI, MIXED H2S SCAVENGER, CONTROL TBG W/ BBLS, CSG W/ BBLS, ND WH TBG WAS STUCK WORK TO 70,000# GOT FREE, NU BOPS RU FLOOR.
	9:30 - 14:30	5.00	ABANDP	45	A	P		RU & SCAN OUT W/ 230 JTS 23/8 L-80, 213 YB, 17 RB. MEDIUM EXT SCALE JT # 10, MEDIUM EXT SCALE JTS 218 -230, HEAVEY INT PITTING & WALL LOSS JTS 218 - 230 NO INTERNAL SCALE.
	14:30 - 17:30	3.00	ABANDP	34	I	P		RU WL RIH W/ GR TO 6600', SET CIBP @ 6579', DUMP BAIL 8 SXS ON CIBP 4 RUNS RD WL SWI SDFN.
11/4/2016	7:00 - 7:30	0.50	ABANDP	48		P		HSM, PICKING UP TBG OFF FLOAT.
	7:30 - 9:30	2.00	ABANDP	31	I	P		SICP 50 PSI, CONTROL CSG W/ 20 BBLS. PU CIBP & 159 JTS SET CIBP @ 5069' L/D JT 159 EOT @ 5061' CORC WELL W/ BBLS T-MAC, TEST CSG TO 500 PSI.
	9:30 - 16:00	6.50	ABANDP	51	D	P		PUMPED 2.6 BBLS FRESH, 2 BBLS 10 SXS 15.8# 1.15 YEILD G CMT, 1 F, 18 BBLS T-MAC.L/D 28 JTS EOT @ 4149'. PUMPED 2.6 BBLS FRESH, 10.2 BBLS 50 SXS 15.8# 1.15 YEILD G CMT, 1 BBL FRESH, DISPL W/ 12.2 BBLS T-MAC.L/D 47 JTS EOT @ 2653'. PUMPED 2.6 BBLS FRESH, 9.2 BBLS 45 SXS 15.8# 1.15 YEILD G CMT, 1 BBL FRESH, DISPL W/ 6.7 BBL T-MAC.L/D 52 JTS EOT @ 998'. PUMPED 2.6 BBLS FRESH, 3.27 BBL 16 SXS 15.8# 1.15 YEILD G CMT, 1 BBL FRESH, DISPL W/ 1.9 BBLS T-MAC. L/D REM 31 JTS 23/8, RD FLOOR ND BOPS, RIG DOWN RIG. DIG & CUT OFF WELL HEAD. TOP OFF 41/2 W/ 9 SXS CMT SURF WAS FULL. WELD ON PLATE, SPOT RIG ON NBU 1022-13N2S SDFWE.

RECEIVED: Nov. 09, 2016